The Chicago Jack Group

Tools & Equipment To Bolt, Lift, Move or Rig

Anything In The World



Sales

Service

Rental

800-392-2816

"After the Sale, It's The Service That Counts."

When you need to:

Bolt it
Clamp it
Cut it
Drill it
Fab it
Grind it
Hoist it
Hold it
Jack it
Lift it
Lower it
Move it
Rig it
Roll it
Slide it
Tension it
Torque it
or
Turn it.

*Whatever '**IT**' is, we have the **SOLUTION**.*

Dear Friends,

It is with great pride that we present our Industrial & Construction Supply catalog. We have endeavored to arrange the subject matter for your ease and convenience in selecting the material of your choice.

The Chicago Jack Group is comprised of our two divisions, Chicago Jack Service and Accurate Rigging & Fabrication. We have been in business, serving the industrial, construction, and transportation markets, for over 50 years. The reason for our success and longevity is, YOU, our customer. Customer satisfaction is the focus of everything we do. We work to differentiate ourselves from our competition and establish a partnership with you, in pursuit of mutual prosperity.

Maintaining a leadership position will enable us to service and distribute the highest quality products, while providing prompt service and superb technical support. Our inventory and complete service center, as well as our trained technical staff, are positioned to provide you, the customer, with your product requirements.

Our primary intention is to control our operation so that we may service your account most efficiently and justify your faith in our service and integrity.

We look forward to being part of your supplier base for many years to come.

Sincerely,

The Chicago Jack Group

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Metal Working & Rigger Hand Tools Section

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Cut-Off Discs

Type 1, Metal, Stainless & Aluminum

UNITED ABRASIVES, INC.



A60S *General Purpose* .045™

- Thin .045 width
- Use with reusable 5/8-11 adaptor to fit angle grinders
- **Extremely fast cutting with long life**
- **Exceptional performance**

METAL Ferrous and/or non-ferrous metals (iron, steel, welds, etc.)

StackPack



See page 151 for details



SAIT.M.X.™ (Ferrous Metals)

- Special bond for cutting sheet metal and other thin gauge metals
- **Fast, burr-free cutting**

METAL Ferrous metals (carbon steel, etc.)

STAINLESS Stainless steel



A46N - *Aluminum* (Non-Ferrous Metals)

- Aluminum oxide grain
- **Soft bond for aggressive cutting without loading**
- Use with reusable 5/8-11 adaptor to fit angle grinders

ALUMINUM Non-ferrous metals (aluminum, copper, brass, etc.)



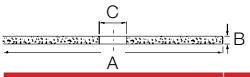
XA46R

contaminant cf free

- **Specially formulated for nuclear and food processing plants**
- **Free of iron, chlorine and sulphur compounds (Fe + Cl + S < 0.1%)**
- All wheels are 1/16" thick

STAINLESS Stainless steel and other high tensile alloys

Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055)





Angle Grinder



Circular Saw

Size A Dia.	Size B Width	Size C Bore	Max RPM	Grades Available Part Numbers A60S	SAIT.M.X.™	A46N	Qty Per Box	Qty Per Ctn	Lbs Per Box
4	.045	5/8	19,000	23099	-	-	50	200	4
4-1/2	.045	7/8	13,300	23101	23604	23314	50	200	4
5	.045	7/8	12,200	23103	23605	-	50	200	6
6	.045	5/8	10,200	23105	-	-	50	200	8
6	.045	7/8	10,200	23106	23606	23316	50	200	8
7	.045	5/8	8,500	23107	-	-	50	200	14

Size A Dia.	Size B Width	Size C Bore	Max RPM	Part No. XA46R	Qty Per Box	Qty Per Ctn	Lbs Per Box
4-1/2	1/16	7/8	13,300	24251	50	200	7
5	1/16	7/8	12,200	24252	50	200	7
6	1/16	7/8	10,200	24253	50	200	14
7	1/16	7/8	8,500	24254	50	200	14

Tech INFO

- Type 1 shape for square, burr-free cutting
- Special aluminum oxide formulation offers the fastest cutting, longest lasting thin wheels
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel
- Wide range of sizes available to fit both angle grinders and circular saws
- Specially formulated for contaminant-free stock removal on stainless steel (XA46R)

Cut-Off Discs

Type 1, Metal, Stainless & Aluminum

UNITED ABRASIVES, INC.



SaitZ-tech™

Z-Tech
High Performance

- Special zirconium grain formula
- **Fast, non-binding cutting**

METAL Ferrous metals

STAINLESS Stainless steel, high tensile alloys



Saitech .045™

- High performance, ceramic aluminum oxide grain
- **Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut**
- **Fast cutting with extremely long life**

STAINLESS Stainless steel, high tensile alloys

METAL Ferrous and/or non-ferrous metals



THE ULTIMATE cut™

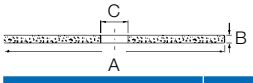
The Ultimate Cut™

- Best in class – cutting a wide range of **STAINLESS** thin & thick gauge, flat stock, bar stock, square tubing, etc.
- Exceptional cutting performance on **METAL** **ALUMINUM**

NEW!



Premium Performance!



THE ULTIMATE ceramic CUT-OFF

The Ultimate Ceramic™

- Premium ceramic aluminum oxide grain
- **Exceptionally long-lasting** on carbon steel, stainless steel, and hard to grind alloys
- Maximizes productivity

METAL **STAINLESS**

Size A Dia.	Size B Width	Size C Bore	Max RPM	Grades Available Part Numbers Ult. Ceramic™	Z-Tech™	Saitech™	Ult. Cut™	Qty Per Box	Qty Per Ctn	Lbs Per Box
4	.045	5/8	19,000	-	23323	23172	-	50	200	4
4-1/2	.045	7/8	13,300	22480	23324	23174	22230	50	200	4
5	.045	7/8	12,200	22481	23325	23177	22235	50	200	6
6	.045	5/8	10,200	-	-	23181	-	50	200	8
6	.045	7/8	10,200	22482	23327	23182	22240	50	200	8
7	.045	5/8	8,500	-	23328	23184	-	50	200	14



Angle Grinder



Circular Saw

Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055)

See pages 36-37 for Type 27 depressed center .045 cutting wheels.

Tech INFO

- Type 1 shape for square, burr-free cutting
- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)
- Externally reinforced with fiberglass layers to provide ultimate safety in a thin wheel
- Wide range of sizes available to fit both angle grinders and circular saws

Metal Working

Chop Saw Blades

Type 1, Metal & Stainless

UNITED ABRASIVES, INC.



A24R - *General Purpose/Durability*

- Special aluminum oxide grain
- Provides consistent performance with **long life**

METAL Ferrous metals (steel, angle iron, rebar)

XFC™ - *Extremely Fast Cutting*

- Special aluminum oxide grain formula
- **Fast cutting action**
- Non-binding cutting formula

METAL Ferrous metals

STAINLESS Stainless steel, high tensile alloys



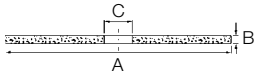
SAIT Pro - *Metal*

- Aluminum oxide grain
- **Best value for a fast cut**

METAL Ferrous metals

2 Wheels in 1!

14" and 16" portable wheels are formulated to interchange between high and low power saws!



Size			Max	Grades Available Part Numbers			Qty	Qty	Lbs
A Dia.	B Width	C Bore	RPM	A24R	XFC™	SAIT Pro	Per Box	Per Ctn	Per Box
12	1/8	1	6,300	23410	-	23414	10	50	13
12	1/8	20mm	6,300	23420	-	23421	10	50	14
14	1/8	1	5,400	23450	24150	24135	10	20	19
14	1/8	20mm	5,460	23455	24160	24140	10	20	24
16	1/8	1	4,800	23459	-	-	10	20	30

14" (20mm) with higher RPM rating for STIHL saws

Tech INFO

- Type 1 shape for square, burr-free cutting
- Externally reinforced with the highest quality fiberglass to withstand the toughest applications
- Available in multiple arbor sizes to fit a wide variety of tools
- More fiberglass reinforcement than competitors for increased torque strength

Chop Saw Blades

Type 1 Decking, Rail, Ductile

UNITED ABRASIVES, INC.

Brute™

- Long life
- Extremely hard bond for **cutting metals that present a very sharp edge to the wheel**

METAL Thin metal, sheet metal, decking, other ferrous metals

HOBO®

- For use on high horsepower machines
- Rugged fiberglass reinforcement for maximum safety
- Excellent for **the railroad industry**

METAL Mainline, secondary, spur rail steel
Also for use on heavy sections of ferrous metals (I-beams, bar stock, etc.)

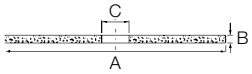


Ductile™

- Combination aluminum oxide and silicon carbide formulation

METAL Ductile pipe (very hard steel casing enclosing a cement lining), water mains, etc.

CONCRETE Combination metal/concrete, cast iron, hard metals, concrete coated steel, etc.



Size A Dia.	Size B Width	Size C Bore	Max RPM	Part Number	Qty Per Box	Qty Per Ctn	Lbs Per Box
Brute™							
12	1/8	1	6,300	23412	10	50	15
12	1/8	20mm	6,300	23422	10	50	14
14	1/8	1	5,400	23452	10	20	22
14	1/8	20mm	5,460	23457	10	20	18
HOBO®							
14	1/8	1	5,400	23501	10	20	22
16	1/8	1	4,800	23502	10	20	30
Ductile™							
12	1/8	1	6,300	23415	10	50	15
12	1/8	20mm	6,300	23425	10	50	15
14	1/8	1	5,400	23453	10	20	22
14	1/8	20mm	5,460	23458	10	20	22
16	1/8	1	4,800	23480	10	20	30

Quick Tip
Use the Ductile™ wheel for extra hard metals, hydraulic hose and PVC pipe.

2 Wheels in 1!
14" and 16" portable wheels are formulated to interchange between high and low power saws!

14" (20mm) with higher RPM rating for STIHL saws

Tech INFO

- Type 1 shape for square, burr-free cutting
- Externally reinforced with the highest quality fiberglass to withstand the toughest applications
- Available in multiple arbor sizes to fit a wide variety of tools
- More fiberglass reinforcement than competitors for increased torque strength

Grinding Discs
Type 27 & Type 28

UNITED ABRASIVES, INC.



A24N - *Fast Grinding*

- Aluminum oxide grain
- Soft bond for **fast stock removal**

METAL Ferrous Metals (iron, steel, welds, etc.)

STAINLESS Low grade stainless steel

A24R - *Long Life*

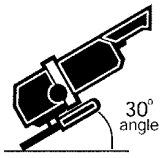
- Aluminum oxide grain - our most popular wheel
- For general purpose grinding
- **Longer life** for fewer wheel changes

METAL Ferrous Metals (iron, steel, welds, etc.)

A24T - *Edge Grinding*

- Aluminum oxide grain
- Hard bond designed for **edge and bevel grinding** and other applications where a harder wheel is preferred
- **Longer life** for fewer wheel changes

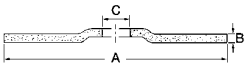
METAL Ferrous Metals (iron, steel, welds, etc.)



Angle Grinder



5/8-11
Super-Lock™ Hub



Size A Dia.	Size B Width	Size C Bore	Max RPM	Grades Available Part Number A24N	A24R	A24T	Qty Per Box	Qty Per Ctn	Lbs Per Box
3	1/4	3/8	18,000	20002	-	-	25	100	4
4	1/4	3/8	13,500	20012	-	-	25	100	7
4	1/4	5/8	13,500	20015	20013	-	25	100	7
4-1/2	3/16	7/8	13,300	20050	-	-	25	100	8
4-1/2	3/16	5/8-11	13,300	20150	-	-	10	40	5
4-1/2	1/4	7/8	13,300	20060	20063	20065	25	100	9
4-1/2	1/4	5/8-11	13,300	20160	20163	20165	10	40	6
5	1/4	7/8	12,200	20070	20073	20075	25	100	11
5	1/4	5/8-11	12,200	20170	20173	20175	10	40	6
6	1/4	7/8	10,200	20078	20079	20280	25	50	18
6	1/4	5/8-11	10,200	20178	20076	20180	10	40	10
7	1/4	7/8	8,500	20081	20080	20285	25	50	24
7	1/4	5/8-11	8,500	20085	20086	20185	10	40	14
9	1/4	7/8	6,600	20091	20090	20295	25	50	42
9	1/4	5/8-11	6,600	20095	20096	20195	10	40	20



Quick Tip
The "softer" a grinding wheel is (A24N) the faster it will remove metal.

Tech INFO

- Virgin aluminum oxide grain assures consistent high stock removal for tough applications
- All sizes are made with uniform grain throughout, no filler grain used in the backing
- All wheels internally reinforced with the highest quality fiberglass for maximum safety
- **Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry**

Grinding Discs
Type 27 & Type 28

UNITED ABRASIVES, INC.





THE ULTIMATE grind™ NEW!

The Ultimate Grind™

- Proprietary grain and bond system
- **High performance grinding for the toughest applications**

METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys

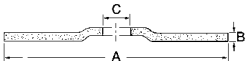
SaitZ-tech™

Z24R - *Zirconium*

- Tough zirconium grain
- **High performance grinding for the toughest applications**

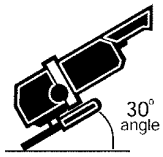
METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys





5/8-11 Super-Lock™ Hub



Angle Grinder

Size			Max	Grades Available Part Numbers		Qty Per	Qty Per	Lbs Per
A Dia.	B Width	C Bore	RPM	Ult. Grind™	Z24R	Box	Ctn	Box
4	1/4	5/8	13,500	-	22599	25	100	7
4-1/2	1/4	7/8	13,300	22414	22600	25	100	9
4-1/2	1/4	5/8-11	13,300	22514	22610	10	40	6
5	1/4	7/8	12,200	22415	22602	25	100	12
5	1/4	5/8-11	12,200	22515	22612	10	40	6
6	1/4	7/8	10,200	22416	22603	25	50	20
6	1/4	5/8-11	10,200	22516	22613	10	40	9
7	1/4	7/8	8,500	22417	22604	25	50	25
7	1/4	5/8-11	8,500	22517	22614	10	40	14
9	1/4	7/8	6,600	22419	22606	25	50	42
9	1/4	5/8-11	6,600	22519	22616	10	40	21



Tech INFO

- The highest quality zirconium grain
- All sizes made with uniform grain throughout, no filler grain used
- **Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry**

Cut-Off / Grinding Discs
Pipeline

UNITED ABRASIVES, INC.

A24R Pipeline - General Purpose

- Aluminum oxide grain
- **Designed and manufactured to perform both cutting and light grinding**

METAL Ferrous metals (steel, cast iron, etc.)





Sait Z-tech™

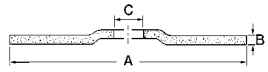
Z24R

- Tough zirconium grain
- **High performance cutting and light grinding for the toughest applications**

METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys

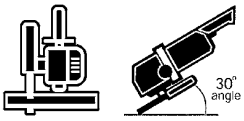




Size A Dia.	Size B Width	Size C Bore	Max RPM	Part Number Pipeline	Part Number Z-tech™	Qty Per Box	Qty Per Ctn	Lbs Per Box
4	1/8	3/8	13,500	22007	-	25	100	4
4	1/8	5/8	13,500	22015	-	25	100	4
4-1/2	1/8	7/8	13,300	22030	22620	25	100	6
4-1/2	1/8	5/8-11	13,300	22130	22630	10	40	5
5	1/8	7/8	12,200	22040	22622	25	100	7
5	1/8	5/8-11	12,200	22140	22632	10	40	5
6	1/8	7/8	10,200	22042	22623	25	50	10
6	1/8	5/8-11	10,200	22046	22633	10	40	8
7	1/8	7/8	8,500	22055	22624	25	50	15
7	1/8	5/8-11	8,500	22052	22634	10	40	10
9	1/8	7/8	6,600	22065	22626	25	50	25
9	1/8	5/8-11	6,600	22062	22636	10	40	13



5/8-11 Super-Lock™ Hub



Angle Grinder

Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055).



Also available: Pipeline Brushes page 136

Tech INFO

- Designed for both cutting and light grinding, eliminating the need for 2 separate wheels
- General purpose formulation provides optimum performance over a wide range of applications
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance
- **Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry**

Cut-Off / Grinding Discs
Pipeline

UNITED ABRASIVES, INC.

THE ULTIMATE pipeline™

The Ultimate Pipeline™

NEW!

- Proprietary grain and bond system
- Fast, free-cutting with exceptional life
- **Premium performance cutting and light grinding for the toughest applications**

METAL Ferrous metals (iron, steel, welds)

STAINLESS Stainless steel, high tensile alloys



Saitech™ Pipeline

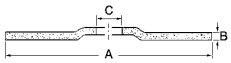
- High performance, ceramic aluminum oxide grain
- **Very uniform, high density grain structure is extremely durable and self sharpening for long life and cooler cut**
- Designed and manufactured to perform both high performance cutting and light grinding
- **Long life combined with versatility** for the pipeline industry

STAINLESS Stainless steel, high tensile alloys

METAL Ferrous metals (iron, steel, welds, etc.)

- **High performance cutting and light grinding on stainless steel**

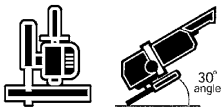




Size A Dia.	Size B Width	Size C Bore	Max RPM	Part Number Ult. Pipe™	Part Number Saitech™	Qty Per Box	Qty Per Ctn	Lbs Per Box Z-tech™	Lbs Per Box Saitech™
4-1/2	1/8	7/8	13,300	20020	22264	25	100	6	7
4-1/2	1/8	5/8-11	13,300	20120	22269	10	40	5	5
5	1/8	7/8	12,200	20025	22274	25	100	8	8
5	1/8	5/8-11	12,200	20125	22279	10	40	11	10
6	1/8	7/8	10,200	20030	-	25	100	11	-
6	1/8	5/8-11	10,200	20130	-	10	40	8	-
7	1/8	7/8	8,500	20035	22284	25	50	17	20
7	1/8	5/8-11	8,500	20135	22289	10	40	9	10
9	1/8	7/8	6,600	20040	22294	25	50	26	32
9	1/8	5/8-11	6,600	20140	22299	10	40	14	16



5/8-11 Super-Lock™ Hub



Angle Grinder

Note: Reusable 5/8-11 adaptor for use on Type 1 and Type 27 reinforced wheels with a 7/8 arbor, a max. diameter of 5" and a wheel thickness of .045 to 1/8" available on page 143 (part #95055)



Also available: Pipeline Brushes page 136

Tech INFO

- Designed for both cutting and light grinding, eliminating the need for 2 separate wheels
- All sizes reinforced with the highest quality fiberglass for maximum safety and performance
- **Our unique Super-Lock™ Hub combines both a mechanical locking system and chemical bond providing one of the safest, vibration-free designs in the industry**
- Saitech™, manufactured with patented 3M™ ceramic abrasive grain, is designed to outlast standard aluminum oxide wheels (3M is a trademark of 3M Company)

Cut-Off Wheels
Quickie Cut™ Reinforced

CGW CAMEL GRINDING WHEELS

Description and Applications

■ A: Aluminum Oxide-Metal & Stainless
- A60-TB-FLEX bond wheels are .040 thick, cut fast, last long and flex.
- A36T .045 wheels are thicker, coarser, cut fast and offer longer life.





B-Flex



.045–Rigid

Type 1

Extra Thin Cut-Off Wheels
T1 A60-TB-Flex Wheels

Part No.	UPC No.	Size	Spec.	R.P.M.	Carton Qty
P401060T	45014	4 x .04 x 5/8	A60-TB-FLEX	19,000	25
P403060T	45010	4-1/2 x .035 x 7/8	A60-TB-FLEX	13,300	25
P507060T	45011	5 x .04 x 7/8	A60-TB-FLEX	12,250	25
P616Z60T	45051	6 x .04 x 3/8	A60-TB-FLEX	10,200	25
P606Z60T	45050	6 x .04 x 1/2	A60-TB-FLEX	10,200	25
P600060T	45016	6 x .04 x 5/8	A60-TB-FLEX	10,200	25
P607060T	45012	6 x .04 x 7/8	A60-TB-FLEX	10,200	25
P707060T	45013	7 x .04 x 7/8	A60-TB-FLEX	8,500	25

Right Angle Grinder/Sander



Thin Cut-Off Wheels
T1 .045 Wheels-A36T

Part No.	UPC No.	Size	Spec.	R.P.M.	Carton Qty
0111060R	35514	4-1/2 x .045 x 7/8	A36-T-BF	13,300	25
0517060R	35516	5 x .045 x 7/8	A36-T-BF	12,250	25
0617060R	35517	6 x .045 x 7/8	A36-T-BF	10,200	25
0717060R	35518	7 x .045 x 7/8	A36-T-BF	8,500	25

Advantages of CGW Type 1 & T27—Quickie Cut™ Cut-Off Wheels
- Less resistance offers shorter cutting times.
- Less work piece waste and dust generation.
- Ability to cut carbon and stainless steels with one disc.
- Maximum cutting speed with minimal burr.
- Ease of operation, less vibration.

Application Chart-Quickie Cut Cut-Off Wheels

Specifications	Angle Iron General	Iron Steel Bar	Metal Decking & Cable	Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Gray Cast Iron	Ductile Iron Pipe & Concrete	Aluminum Alloys	Copper	Brass Bronze	Titanium
A36T	✓	✓	✓	✓	✓	•	✓	✓					•	•	•	•
A60T	✓	✓	✓	✓	✓	•	✓	✓					•	•	•	•
A46N-ALU											•		✓	•	•	•
WA36-T	•	•		•		•	✓	✓								
WA60-R	•	•	•	•		•	✓	✓								
ZA60S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
	Ferrous Metals									Castings			Non-Ferrous Metals			

✓= Recommended
• = May be used

Cut-Off Wheels

Quickie Cut Metal & Steel

Type 27

CGW CAMEL GRINDING WHEELS

Quickie Cut™ Thin Reinforced Cut-Off Wheels – Type 27

- **ZA:** Zirconia and Aluminum Oxide mixture. General purpose wheel. Zirconia grain allows for faster cutting and longer life. Excellent on Steel/Stainless.

ZIRCONIA
ALUMINUM OXIDE

Right Angle Grinder

Type 27



Quickie Cut™ EXTREME Reinforced Cut-Off Wheels – Type 27

- **ZA60-T:** Higher percentage of patented, specially treated white grain and premium fiberglass.
  - Provides up to 10% more cuts, better finish, reduces burning and produces fewer burrs.

Now Available with 5/8-11 Hub

SUPER Quickie Cut™ Reinforced Cut-Off Wheels – Type 27

- High performance extra-thin wheels – Our thinnest in the market!
- Cuts Carbon and Stainless Steels – **Maximum cuts with one wheel.**
- #1 Wheel for steel applications.
- Maximum cutting speeds with minimal burrs.
- A60T Super Quickie-Cut
  - High performance wheels, maximum cuts with one wheel.
  - Maximum cutting speeds with minimal burrs.

All CGW Cut-Off Wheels Cut Steel and Stainless Steel

SIZE	RPM	CARTON QTY.	QUICKIE-CUT ZA60-S	QUICKIE-CUT EXTREME ZA60-T	SUPER QUICKIE-CUT A60-T	SUPER QUICKIE CARTON QTY.
4 x .045 x 5/8	15,300	25	45001			
4-1/2 x .045 x 7/8	13,300	25	45002	45225	45103	50
4-1/2 x .045 x 5/8-11	13,300	10	45141	45149	45152	10
5 x .045 x 7/8	12,250	25	45005	45238		
5 x .045 x 5/8-11	12,250	10	45142	45150		
6 x .045 x 7/8	10,200	25	45007	45228	45098	25
6 x .045 x 5/8-11	10,200	10	45143	45151	45153	10
7 x 1/16 x 7/8	8,500	25	45008			
7 x 1/16 x 5/8-11	8,500	10	45144			
9 x 1/16 x 7/8	6,600	25	45047			
9 x 1/16 x 5/8-11	6,600	10	45145			

Cut-Off Blades
High Speed Type 1

CGW CAMEL GRINDING WHEELS

High Speed Cut-Off Wheels—Type 1

Description and Applications

- A24R: Aluminum Oxide-Metal & Steel, Stainless, general purpose. 14" are triple reinforced.
- A24T: Aluminum Oxide-Metal Decking & Cable. Harder bond for more cuts on thinner metals. 14" are triple reinforced.
- AC: (Mix of A/C)-Used on Ductile Iron. 14" are triple reinforced.
- C16: Silicon Carbide-Asphalt/Green Concrete
- C24: Silicon Carbide-Stone/Concrete.

Gas Saw



- **EB-Electronically Balanced.** All 12–14" wheels are automatically balanced during manufacturing. All 12–14" wheels are guaranteed to be less than 3 and 3.5 grams out of balance. CGW wheels are safer, cause less vibration and are most consistent.
- CGW uses heavy duty fiberglass reinforcement, so our 12–14" high speed wheels meet speed specifications for all machines on the market.
- 14" A24R, A24T, AC & 16" wheels are triple reinforced (TR) as standard to provide extra safety.
- 12 & 14" wheels can be used with both gas and electric high speed machines.
- 12 & 14" wheels sold in (2) 10 piece retail boxes, master pack contains 20 pieces

A24R, Metal & Steel, General Purpose—12–16" High Speed Cut-Off Wheels

Part No.	UPC No.	Size	Spec.		R.P.M.	Carton Qty
W302024R	35587	12 x 5/32 x 20mm	A24-R-BF		6,400	20
W303024R	35589	12 x 5/32 x 1	A24-R-BF		6,400	20
W348024R	35599	14 x 5/32 x 20mm	A24-R-BF	TR	5,500	20
W347024R	35600	14 x 5/32 x 1	A24-R-BF	TR	5,500	20
W398024R	36142	16 x 5/32 x 20mm	A24-R-BF	TR	4,800	20
W397024R	36143	16 x 5/32 x 1	A24-R-BF	TR	4,800	20

A24T, Metal Decking & Cable, Thinner Metals—12–14" High Speed Cut-Off Wheels

Part No.	UPC No.	Size	Spec.		R.P.M.	Carton Qty
W302024T	36114	12 x 5/32 x 20mm	A24-T-BF		6,400	20
W303024T	36115	12 x 5/32 x 1	A24-T-BF		6,400	20
W348024T	36113	14 x 5/32 x 20mm	A24-T-BF	TR	5,500	20
W347024T	36126	14 x 5/32 x 1	A24-T-BF	TR	5,500	20

AC24R, Ductile Iron—12–16" High Speed Cut-Off Wheels

Part No.	UPC No.	Size	Spec.		R.P.M.	Carton Qty
W302924R	35590	12 x 5/32 x 20mm	AC24-R-BF		6,400	20
W303924R	35592	12 x 5/32 x 1	AC24-R-BF		6,400	20
W348924R	35601	14 x 5/32 x 20mm	AC24-R-BF	TR	5,500	20
W347924R	35602	14 x 5/32 x 1	AC24-R-BF	TR	5,500	20
W398924R	36144	16 x 5/32 x 20mm	AC24-R-BF	TR	4,800	20
W399924R	36145	16 x 5/32 x 1	AC24-R-BF	TR	4,800	20

TR=Triple Reinforced

C16U, Asphalt/Green Concrete—12–14" High Speed Cut-Off Wheels

Part No.	UPC No.	Size	Spec.	R.P.M.	Carton Qty
W302716U	35593	12 x 5/32 x 20mm	C16-U-BF	6,400	20
W303716U	35595	12 x 5/32 x 1	C16-U-BF	6,400	20
W348716U	35603	14 x 5/32 x 20mm	C16-U-BF	5,500	20
W347716U	35604	14 x 5/32 x 1	C16-U-BF	5,500	20

C24R, Stone/Concrete—12–16" High Speed Cut-Off Wheels

Part No.	UPC No.	Size	Spec.	R.P.M.	Carton Qty
W302724R	35596	12 x 5/32 x 20mm	C24-R-BF	6,400	20
W300724R	35598	12 x 5/32 x 1	C24-R-BF	6,400	20
W348724R	35605	14 x 5/32 x 20mm	C24-R-BF	5,500	20
W347724R	35606	14 x 5/32 x 1	C24-R-BF	5,500	20
W398724R	36146	16 x 5/32 x 20mm	C24-R-BF	4,800	20
W399724R	36147	16 x 5/32 x 1	C24-R-BF	4,800	20

Chop Saw Blades
High Speed

CGW CAMEL GRINDING WHEELS

12"–16" Chop Saw Wheels—Type 1



Description and Applications
- A: Aluminum Oxide-Metal & Steel. 14" available in single and double fiberglass reinforced.
- Fast Cut: Economical choice for metal, steel and general applications.
- ALU: Aluminum Oxide-Special non-loading formulation for cutting aluminum.
- WA: White Aluminum Oxide-Excellent on stainless steel, ferrous metals.
- ZA: Zirconia Aluminum Oxide-Metal & Stainless; High performance cutting, recommended on thicker stock applications such as angle iron, angle bars.

Chop Saw

12-16" Double Reinforced-General Purpose

UPC No.	Size	Spec.	R.P.M.	Carton Qty
35575	12 x 3/32 x 1	A36-P-BF	5,100	10
35576	14 x 3/32 x 1	A36-P-BF	4,400	10
36133	16 x 3/32 x 1	A36-P-BF	3,820	10

14" Double Reinforced-General Purpose-Fast Cut

UPC No.	Size	Spec.	R.P.M.	Carton Qty
36234	14 x 7/64 x 1	A36-S-BF	4,400	10

14" Single Reinforced-General Purpose

UPC No.	Size	Spec.	R.P.M.	Carton Qty
35670	14 x 3/32 x 1	A30-P-BF	4,400	10

14" Double Reinforced-Aluminum

UPC No.	Size	Spec.	R.P.M.	Carton Qty
36122	14 x 3/32 x 1	A30-N-BF	4,400	10

CGW 12"–16" Chop Saws



MR. STUD, Double Reinforced Chop Saw Blades
- Designed for drywall stud, aluminum shelving, thin metal

Chop Saw

Part No.	UPC No.	Size	Spec.	R.P.M.	Carton Qty
W349030R	**36124**	14 x 3/32 x 1	A30-R-BF	4,400	20

Angle Iron/Heavy Bars, Zirconia, Double Reinforced Chop Saw Blades
- Zirconia grain, excellent on all ferrous metal applications, especially thicker stock

Chop Saw

Part No.	UPC No.	Size	Spec.	R.P.M.	Carton Qty
W348036S	**36125**	14 x 3/32 x 1	ZA24-S-BF	4,400	20

Stainless Steel, Single Reinforced Chop Saw Blades
- Designed for stainless steel applications
- Contamination Free, Fe+S+Cl<0.1%
- No iron, sulfur or chlorine

Chop Saw

CF — Contaminate Free Iron, Sulfur, and Chlorine < 0.1%

Part No.	UPC No.	Size	Spec.	R.P.M.	Carton Qty
W348W30S	**36123**	14 x 3/32 x 1	WA36-P-BF	4,400	20

12-14" wheels sold in (2) 10 piece retain box, master pack of 20.

Application Chart-Chop Saw Blades

	Angle Iron-General	Iron/Steel Bar	Metal Decking & Cable	Pipe Line	Wall Studs	High Tensile Steel	Stainless Steel Sheets	Stainless Steel Bars	Rail Cutting	Cast Steel	Gray Cast Iron	Ductile Iron Pipe & Concrete	Aluminum Alloys	Copper	Brass, Bronze	Titanium
Spec.																
A36P/A302P*	✓	✓	•	•	•	✓	•	•	•	•	•	•				
A30R-Mr Stud					✓											
A30N-ALU											•		✓	•	•	•
WA36P						✓	✓	✓								
ZA24S	✓	✓	✓	✓	✓	✓	✓	✓	✓							
	Ferrous Metals									Castings			Non-Ferrous Metals			

*A302 is single reinforced (SR). The SR blades have a lower G-ratio but higher cutting rate compared to the double reinforced.

✓ = Recommended • = May Be Used

Grinding Wheels
Type 27

CGW CAMEL GRINDING WHEELS



CF Contaminate Free Iron, Sulfur, and Chlorine < 0.1%

Type 27 — Right Angle Grinder/Sander

T27 Depressed Center Wheels-1/4" for grinding

Part No.	UPC No.	Size	Spec.	R.P.M.	Carton Qty
U110024R	35672	4 x 1/4 x 3/8	A24-R-BF	15,300	25
U110Z24T	45036	4 x 1/4 x 3/8	ZA24-T-BF	15,300	25
U111024R	35610	4 x 1/4 x 3/8	A24-R-BF	15,300	25
U111030N	36106	4 x 1/4 x 3/8	A30-N-ALU	15,300	25
U111724R	37510	4 x 1/4 x 3/8	C24-R-BF	15,300	25
U111Z24T	35611	4 x 1/4 x 3/8	ZA24-T-BF	15,300	25
U116024N	35622	4-1/2 x 1/4 x 7/8	A24-N-BF	13,300	25
U117024N	35623	4-1/2 x 1/4 x 5/8-11	A24-N-BF	13,300	10
U116024R	35620	4-1/2 x 1/4 x 7/8	A24-R-BF	13,300	25
U117024R	35621	4-1/2 x 1/4 x 5/8-11	A24-R-BF	13,300	10
U116024T	36102	4-1/2 x 1/4 x 7/8	A24-T-BF	13,300	25
U118024T	36103	4-1/2 x 1/4 x 5/8-11	A24-T-BF	13,300	10
U116030N	36107	4-1/2 x 1/4 x 7/8	A30-N-ALU	13,300	25
U117030N	36108	4-1/2 x 1/4 x 5/8-11	A30-N-ALU	13,300	10
U116724R	37520	4-1/2 x 1/4 x 7/8	C24-R-BF	13,300	25
U117024R	37525	4-1/2 x 1/4 x 5/8-11	C24-R-BF	13,300	10
U116W24R	37673	4-1/2 x 1/4 x 7/8	WA24-S-BF	13,300	25
U117W24R	35674	4-1/2 x 1/4 x 5/8-11	WA24-S-BF	13,300	10
U116Z24T	35624	4-1/2 x 1/4 x 7/8	ZA24-T-BF	13,300	25
U117Z24T	35625	4-1/2 x 1/4 x 5/8-11	ZA24-T-BF	13,300	10
U127024N	35627	5 x 1/4 x 7/8	A24-N-BF	12,250	25
U125024N	35629	5 x 1/4 x 5/8-11	A24-N-BF	12,250	10
U127024R	35626	5 x 1/4 x 7/8	A24-R-BF	12,250	25
U125024R	35628	5 x 1/4 x 5/8-11	A24-R-BF	12,250	10
U127030N	36109	5 x 1/4 x 7/8	A30-N-ALU	12,250	25
U125030N	36110	5 x 1/4 x 5/8-11	A30-N-ALU	12,250	10
U127W24R	37543*	5 x 1/4 x 7/8	WA24-S-BF	12,250	25
U125W24R	37531*	5 x 1/4 x 5/8-11	WA24-S-BF	12,250	10
U127Z24T	37535	5 x 1/4 x 7/8	ZA24-T-BF	12,250	25

Type 27 — Right Angle Grinder/Sander

T27 Depressed Center Wheels-1/4" for grinding (Cont.)

Part No.	UPC No.	Size	Spec.	R.P.M.	Carton Qty
U125Z24T	37530	5 x 1/4 x 5/8-11	ZA24-T-BF	12,250	10
U157024R	35632	6 x 1/4 x 7/8	A24-R-BF	10,020	25
U158024R	35633	6 x 1/4 x 5/8-11	A24-R-BF	10,020	10
U157Z24T	45039	6 x 1/4 x 7/8	ZA24-T-BF	10,020	25
U158Z24T	45040	6 x 1/4 x 5/8-11	ZA24-T-BF	10,020	10
U181024N	35642	7 x 1/4 x 7/8	A24-N-BF	8,600	25
U180024N	35643	7 x 1/4 x 5/8-11	A24-N-BF	8,600	10
U181024R	35640	7 x 1/4 x 7/8	A24-R-BF	8,600	25
U180024R	35641	7 x 1/4 x 5/8-11	A24-R-BF	8,600	10
U181024T	36104	7 x 1/4 x 7/8	A24-T-BF	8,600	25
U180024T	36105	7 x 1/4 x 5/8-11	A24-T-BF	8,600	10
U181030N	36111	7 x 1/4 x 7/8	A30-N-ALU	8,600	25
U180030N	36112	7 x 1/4 x 5/8-11	A30-N-ALU	8,600	10
U181724R	37545	7 x 1/4 x 7/8	C24-R-BF	8,600	25
U180724R	37540	7 x 1/4 x 5/8-11	C24-R-BF	8,600	10
U181W24R	35677*	7 x 1/4 x 7/8	WA24-S-BF	8,600	25
U180W24R	35678*	7 x 1/4 x 5/8-11	WA24-S-BF	8,600	10
U181Z24T	35644	7 x 1/4 x 7/8	ZA24-T-BF	8,600	25
U180Z24T	35645	7 x 1/4 x 5/8-11	ZA24-T-BF	8,600	10
U231024N	35656	9 x 1/4 x 7/8	A24-N-BF	6,600	25
U230024N	35657	9 x 1/4 x 5/8-11	A24-N-BF	6,600	25
U231024R	35654	9 x 1/4 x 7/8	A24-R-BF	6,600	25
U230024R	35655	9 x 1/4 x 5/8-11	A24-R-BF	6,600	10
U231724R	37555	9 x 1/4 x 5/8	C24-R-BF	6,600	25
U230724R	37550	9 x 1/4 x 105/8-11	C24-R-BF	6,600	10
U231024Z	35658	9 x 1/4 x 7/8	ZA24-T-BF	6,600	25
U230Z24T	35659	9 X 1/4 X 5/8-11	ZA24-T-BF	6,600	10

Specifications	Angle Iron-General	Iron/Steel Bar	Metal Decking/Sheet Metal	Pipe Line	High Tensile Steel	Stainless Steel Bars	Cast Steel	Gray Cast Iron	Aluminum Alloys	Copper	Brass, Bronze	Titanium	Asphalt/Green Concrete	Concrete	Roof-Tiles	Slate	Masonry	Marble	Paving Bricks	Firing Bricks	Solid Bricks	Clay Pipe
A24N	•	✓	•		✓		✓	•														
A24R	✓	✓	✓	✓	✓		•															
A24T	✓	✓	✓	✓	•																	
A30N-ALU								•	✓	•	•	•	•	•	•	•	•	•	•	•	•	•
C24R								✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
WA24S	✓	✓	✓		✓	✓																
ZA24T	✓	✓	•	•	•	✓																

✓ = Recommended
• = May be used

Ferrous Metals | Castings | Non-Ferrous Metals | Masonry

Wire Wheels
Knot & Crimped

UNITED ABRASIVES, INC.

Bench Wire Wheels

- Dense, compact crimped steel wire brush face
- **May be stacked to achieve wider work face**
- Primary application: For general scale removal, cleaning and surface preparation
- Standard 2" arbor, with adaptor to listed arbor
- Includes bushing pairs to adapt to variety of arbors



Additional arbors available

Part No.	Size
95201	2 x 1/2
95203	2 x 5/8
95204	2 x 3/4
95206	2 x 1
95207	2 x 1-1/4

**** not available for part number 09558 and 09555

Size			Face	Trim	Max	INDUSTRIAL		BLUE LINE™
						Part	Std	Part
Dia.	Wire	Arbor	Width	Length	RPM	No.	Pkg	No.
6	.014	5/8, 1/2	Wide	1-1/16"	6,000	09557	1	06557
6	.014	5/8, 1/2	Narrow	1-3/16"	6,000	09558****	1	06558
6	.008	5/8, 1/2	Narrow	1-1/16"	6,000	09555****	1	06555
7	.014	5/8	Wide	1-9/16"	6,000	09559	1	06559
8	.014	5/8	Wide	1-1/2"	4,000	01411	1	06556
10	.014	3/4	Wide	2"	3,600	09560	1	-

Note: Wide 1"
Narrow 1/2"

Packaging
Standard industrial packaging or Blue Line™ point of sale display packaging

Large Cup Brushes

- Available in the following wire types:
  - Knot wire for low to medium flexibility and aggressive cutting action
  - Crimped wire which has higher flexibility for light cleaning and removal, especially on irregular surfaces
- Primary application: **For fast cleaning of large surfaces**



Packaging
Standard industrial packaging or Blue Line™ point of sale display packaging

Knot Wire - nut inside

Size				Trim	Max	INDUSTRIAL		BLUE LINE™
						Part	Std	Part
Dia.	Wire	Arbor	Rows	Length	RPM	No.	Pkg	No.
4	.020	5/8-11	1	1-3/8"	9,000	03407**	1	06407
4	.020	5/8-11	1	Stainless*	9,000	03406***	1	06406
6	.020	5/8-11	1	1-3/4"	6,600	03409***	1	06409
6	.035	5/8-11	1	1-3/4"	6,600	03410***	1	06410
6	.020	5/8-11	2	1-3/4"	6,000	03411***	1	06411
6	.035	5/8-11	2	1-3/4"	6,000	03412***	1	06412
6	.020	5/8-11	1	Stainless*	6,600	03413***	1	-

Crimped Wire - nut inside

4	.020	5/8-11	-	1-1/8"	9,000	09551	1	06551
5	.020	5/8-11	-	1-1/2"	8,000	09552	1	-
5	.020	5/8-11	Stainless*	1-1/2"	8,000	09554	1	06554
6	.020	5/8-11	-	1-1/2"	6,600	09553	1	06553

* 302 stainless steel wire used
** nut on outside
***nut on outside in Canada only

Wire Cup Brushes
Knot & Crimped

UNITED ABRASIVES, INC.

Small Cup Brushes

- **For use on small grinders**
- Available in the following wire types:
  - Knot wire for low to medium flexibility and aggressive cutting action
  - Crimped carbon steel wire for light cleaning and where greater flexibility is required
  - Stainless steel knot wire for use on stainless, aluminum, and high strength alloys
- Variety of threaded arbors available

Packaging
Standard industrial packaging or Blue Line™ point of sale display packaging

*302 stainless steel wire used



Size			Wire	Matl	Max	INDUSTRIAL		BLUE LINE™
						Part	Std	Part
Dia.	Wire	Arbor	Style	Type	RPM	No.	Pkg	No.
2-3/4	.014	5/8-11	Knot	Carbon	14,000	03414	6	06414
2-3/4	.014	M14 x 2.0	Knot	Carbon	14,000	03415	6	06415
2-3/4	.014	M10 x 1.25	Knot	Carbon	14,000	03416	6	06416
2-3/4	.014	M10 x 1.5	Knot	Carbon	14,000	03417	6	06417
2-3/4	.014	1/2-13	Knot	Carbon	14,000	03418	6	06418
2-3/4	.020	5/8-11	Knot	Carbon	14,000	03501	6	06501
2-3/4	.020	M14 x 2.0	Knot	Carbon	14,000	03502	6	-
2-3/4	.020	M10 x 1.25	Knot	Carbon	14,000	03503	6	06503
2-3/4	.020	M10 x 1.5	Knot	Carbon	14,000	03504	6	06504
2-3/4	.020	1/2-13	Knot	Carbon	14,000	03505	6	06505
2-3/4	.014	5/8-11	Knot	Stainless*	14,000	03419	6	06419
2-3/4	.014	M14 x 2.0	Knot	Stainless*	14,000	03423	6	-
2-3/4	.014	M10 x 1.25	Knot	Stainless*	14,000	03422	6	-
2-3/4	.014	1/2-13	Knot	Stainless*	14,000	03420	6	-
2-3/4	.020	5/8-11	Knot	Stainless*	14,000	03506	6	06506
2-3/4	.020	M14 x 2.0	Knot	Stainless*	14,000	03507	6	-
2-3/4	.020	M10 x 1.25	Knot	Stainless*	14,000	03508	6	-
2-3/4	.020	1/2-13	Knot	Stainless*	14,000	03510	6	-
2-3/4	.014	5/8-11	Crimped	Carbon	14,000	01401	6	06401
2-3/4	.014	M14 x 2.0	Crimped	Carbon	14,000	01405	6	06405
2-3/4	.014	M10 x 1.25	Crimped	Carbon	14,000	01404	6	06404
2-3/4	.014	M10 x 1.5	Crimped	Carbon	14,000	01403	6	06403
2-3/4	.014	1/2-13	Crimped	Carbon	14,000	01402	6	06402
2-3/4	.014	5/8-11	Crimped	Stainless*	14,000	01408	6	06408
3-1/2	.020	5/8-11	Knot	Carbon	12,500	03511	1	06511
3-1/2	.020	5/8-11	Knot	Stainless*	12,500	03512	1	06512
3-1/2	.014	5/8-11	Crimped	Carbon	12,500	03513	1	06513
3-1/2	.014	5/8-11	Crimped	Stainless*	12,500	03514	1	06514

Wire Wheels
Knot & Crimped

UNITED ABRASIVES, INC.



Knot & Crimped Wire Wheels

- **For use on small grinders**
- Available in the following wire types:
  - Regular twist covers more surface area in a single pass
  - Stringer bead twist is excellent for welds, flux removal and where a narrow work face is required
  - Crimped carbon steel wire provides flexibility and a wider work face than knot style
  - Stainless steel wire for use on stainless, aluminum, and high strength alloys
- Variety of threaded arbors available

Packaging
Standard industrial packaging or Blue Line™ point of sale display packaging

*302 stainless steel wire used

Regular Twist

Size			Matl	Max	INDUSTRIAL		BLUE LINE™
					Part	Std	Part
Dia.	Wire	Arbor	Type	RPM	No.	Pkg	No.
4	.014	5/8-11	Carbon	20,000	03426	6	06426
4	.014	M14 x 2.0	Carbon	20,000	03427	6	-
4	.014	M10 x 1.25	Carbon	20,000	03428	6	06428
4	.014	M10 x 1.5	Carbon	20,000	03429	6	-
4	.014	1/2-13	Carbon	20,000	03430	6	06430
4	.020	5/8-11	Carbon	20,000	03460	6	06460
4	.014	5/8-11	Stainless*	20,000	03431	6	06431
4	.014	M14 x 2.0	Stainless*	20,000	03435	6	-
4	.014	M10 x 1.25	Stainless*	20,000	03434	6	-
4	.014	M10 x 1.5	Stainless*	20,000	03433	6	-
4	.020	5/8-11	Stainless*	20,000	03461	6	06461
6	.025	5/8-11	Carbon	9,000	03385	3	06385

Stringer Bead / Pipeline

4	.020	5/8-11	Carbon	20,000	03440	6	06440
4	.020	M14 x 2.0	Carbon	20,000	03441	6	06441
4	.020	M10 x 1.25	Carbon	20,000	03442	6	-
4	.020	1/2-13	Carbon	20,000	03444	6	-
4	.020	5/8-11	Stainless*	20,000	03445	6	06445
4	.020	M10 x 1.25	Stainless*	20,000	03447	6	-
4	.020	1/2-13	Stainless*	20,000	03449	6	-
5	.020	5/8-11	SB-Carbon	12,000	03380	6	06380
5	.020	M14 x 2.0	SB-Carbon	12,000	03381	6	-
5	.020	5/8-11	SB-Stainless*	12,000	03382	6	06382
6	.020	5/8-11	SB-Stainless*	12,000	03383	6	06383
6	.020	5/8-11	SB-Carbon	12,000	03384	6	06384
6-1/2	020	5/8-11	SB-Stainless*	9,000	03389	6	06389
6-1/2	020	5/8-11	SB-Carbon	9,000	03391	6	06391

Crimped

4	.014	5/8-11	Carbon	12,500	03450	6	06450
4	.014	M14 x 2.0	Carbon	12,500	03451	6	-
4	.014	M10 x 1.25	Carbon	12,500	03452	6	06452
4	.014	1/2-13	Carbon	12,500	03454	6	06454

Wire Wheels
Knot & Pipeline

UNITED ABRASIVES, INC.



Packaging
Standard industrial packaging or Blue Line™ point of sale display packaging

*302 stainless steel wire used

Knot Wire Wheels

- Can be used on portable power tools
- Available in the following wire types:
  - Knot wire for low to medium flexibility and aggressive cutting action
  - Stainless steel wire for use on stainless, aluminum, and high strength alloys
- Primary application: **Cleaning, deburring, and scale removal**

Size			Matl	Max	INDUSTRIAL		BLUE LINE™
					Part	Std	Part
Dia.	Wire	Arbor	Type	RPM	No.	Pkg	No.
3	.014	3/8	Carbon	25,000	03377	4	06377
3	.014	1/2, 3/8	Stainless*	25,000	03376	4	06376
4	.014	1/2	Carbon	20,000	03378	4	06378
5	.020	5/8-11	Carbon	12,000	03373	1	06373
5	.020	5/8-11	Stainless*	12,000	03374	1	06374
6	.020	5/8, 1/2	Carbon	9,000	03386	1	06386
6	.020	5/8-11	Carbon	9,000	03388	1	06388
6	.016	5/8, 1/2	Stainless*	9,000	03387	1	06387



Packaging
Standard industrial packaging or Blue Line™ point of sale display packaging

*302 stainless steel wire used

Pipeline Brushes

- **Excellent for use in the pipeline industry**
- Available in the following wire types:
  - Knot wire provides aggressive action in the removal of bead scale, weld flash, or splatter
  - Regular twist and stringer bead twist for higher impact action
  - Stainless steel wire available in stringer bead twist for use on stainless, aluminum, and high strength alloys
- Primary application: Cleaning, deburring, and scale removal

Size			Matl	Max	INDUSTRIAL		BLUE LINE™
					Part	Std	Part
Dia.	Wire	Arbor	Type	RPM	No.	Pkg	No.
4	.020	5/8-11	Carbon	20,000	03440	6	06440
4	.020	M14 x 2.0	Carbon	20,000	03441	6	06441
4	.020	M10 x 1.25	Carbon	20,000	03442	6	-
4	.020	1/2-13	Carbon	20,000	03444	6	-
4	.020	5/8-11	Stainless*	20,000	03445	6	06445
4	.020	M10 x 1.25	Stainless*	20,000	03447	6	-
4	.020	1/2-13	Stainless*	20,000	03449	6	-
5	.020	5/8-11	SB-Carbon	12,000	03380	6	06380
5	.020	M14 x 2.0	Carbon	12,000	03381	6	-
5	.020	5/8-11	SB-Stainless*	12,000	03382	6	06382
6	.020	5/8-11	SB-Stainless*	12,000	03383	6	06383
6	.020	5/8-11	SB-Carbon	12,000	03384	6	06384
6	.025	5/8-11	Carbon	9,000	03385	6	06385
6-1/2	020	5/8-11	SB-Stainless*	9,000	03389	6	06389
6-1/2	020	5/8-11	SB-Carbon	9,000	03391	6	06391

Wire Brushes
Joint & End

UNITED ABRASIVES, INC.



Joint Brushes

- For use on street saws
- Primary application: **Cleaning concrete expansion joints**

Packaging
1 brush per package

Dia.	Wire Size	Description	Max RPM	Part No.	Std Pkg
12"	.035	Joint Brush 1" Arbor, 7/16 Pinhole	6,000	09570	1

End Brushes

- For use on portable power tools
- **Excellent for use in cleaning and finishing recessed areas or pipes**
- Available in the following wire types:
  - Knot wire provides aggressive cutting action
  - Circular flared end brush excellent for side cleaning action
  - Crimped wire for high flexibility
- 1/4" shank diameter

Packaging
Standard industrial packaging or Blue Line™ point of sale display packaging

*302 stainless steel wire used (Black Shell)



Size		Wire	Trim	Overall	Max	INDUSTRIAL		BLUE LINE™
Dia.	Wire	Style	Length	Length	RPM	Part No.	Std Pkg	Part No.
1	.020	Knot Type	1	2-5/8	22,000	02701	12	06701
1	.020	Crimped Wire	1	2-5/8	22,000	02709	12	06709
1	.020	SS-Knot*	1	2-5/8	22,000	02704	12	06704
3/4	.014	Crimped Wire	1	2-5/8	22,000	02702	12	06702
3/4	.014	Knot Type	1-1/8	2-5/8	22,000	02703	12	06703
1-1/2	.012	Circ. Flared Crimped	5/16	1-3/4	20,000	02710	12	06710
2-1/2	.014	Circ. Flared	11/16	1-3/4	20,000	02705	12	06705
2	.014	Crimped Wire Wheel	7/16	1-1/4	25,000	02712	12	06712
3	.014	Circ. Flared Crimped*	7/8	1-3/4	25,000	02711	12	06711
3	.014	Crimped Wire Wheel	15/16	1-1/4	25,000	02713	12	06713
3	.014	Crimped Wire Wheel*	15/16	1-1/4	25,000	02714	12	06714

Metal Working

Angle Grinders
Heavy Duty

metabo®
PROFESSIONAL POWER TOOL SOLUTIONS



W 750-115
4 1/2" Angle Grinder



W 850-115
4 1/2" Angle Grinder



WP 850-115
4 1/2" Angle Grinder with
Non-locking Paddle Switch



W 9-115
4 1/2" Angle Grinder



W 9-115 Kit
4 1/2" Angle Grinder

Model	W 750-115 601230420	W 850-115 601232420	WP 850-115 601234420	W 9-115 Kit 600354850	W 9-115 600354420
Key Safety Features					
Maximum wheel diameter	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Amps	7.0	8.0	8.0	8.5	8.5
Rated input watts	750	850	850	900	900
No-load speed (RPM)	11,000	11,000	11,000	10,500	10,500
Switch Type	Lock-on slide	Lock-on slide	Non-locking paddle	Lock-on slide	Lock-on slide
Motor	Heavy Duty	Heavy Duty	Heavy Duty	LongLife	LongLife
AC/DC capability	AC	AC	AC	AC/DC	AC/DC
Safety brake					
Metabo safety slip clutch				•	•
Quick wheel change system					
Electronic: Power interruption protection, clutch, overload protection					
Rotatable gear housing				•	•
Burst-proof guard	•	•	•	w/ 7 stops	w/ 7 stops
Ergonomic side handle	•	•	•	•	•
Auto-stop carbon brushes	•	•	•	•	•
Winding protection grid				•	•
Tool weight	4.4 lbs.	4.7 lbs.	4.7 lbs.	4.6 lbs.	4.6 lbs.
Standard equipment:					
Type 27 wheel guard	339203660	339203660	339203660	339204490	339204490
Side handle	314000540	314000540	314000540	314000540	314000540
Inner flange	341031290	341031290	341031290	341031290	341031290
Locking nut	341101480	341101480	341101480	341101480	341101480
Spanner wrench	623934000	623934000	623934000	623934000	623934000
Carrying case				344454180	
Diamond wheel				624306000	
Optional equipment:					
Steel type 1 cutting guard	630366000	630366000	630366000	US339203030	US339203030
Quick-clip on type 1 cutting guard				630351000	630351000

Angle Grinders
Quick Change, Ergonomic

metabo
PROFESSIONAL POWER TOOL SOLUTIONS



W 9-115 Quick
4 1/2" Angle Grinder



WPB 18 LTX BL 115 Quick
4 1/2" Brushless Paddle Switch Angle Grinder with Brake



W 1100-115
4 1/2" Angle Grinder



WP 9-115 Quick
4 1/2" Angle Grinder
with Non-locking Paddle Switch



WP 12-115 Quick
4 1/2" Angle Grinder
with Non-locking Paddle Switch

Model **5.5Ah Kit:** ASC30-36 Chgr + 2 LiHD 5.5 Ah Batteries **Bare Tool:** ***Key Safety Features***	**WPB 18 LTX BL 115 Quick** **613074620** **613074860**	**W 9-115 Quick 600371420**	**WP 9-115 Quick 600380420**	**W 1100-115 601236420**	**WP 12-115 Quick 600410420**
Maximum wheel diameter	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"
Amps		8.5	8.5	10	10.5
Rated input watts		900	900	1,100	1,250
No-load speed (RPM)	9,000	10,500	10,500	11,000	11,000
Switch Type	Non-Locking Paddle	Lock-on slide	Non-locking paddle	Lock-on slide	Non-locking paddle
Motor	Brushless	LongLife	LongLife	Heavy Duty	LongLife
AC/DC capability	18V DC	AC/DC	AC/DC	AC	AC/DC
Safety brake	•				
Metabo safety slip clutch		•	•		•
Quick wheel change system	•	•	•		•
Electronic: Power interruption protection, clutch, overload protection	•				
Rotatable gear housing		•	•		•
Burst-proof guard	•	w/ 7 stops	w/ 7 stops	•	w/ 7 stops
Side handle	Vibration dampened	Vibration dampened	Vibration dampened	Ergonomic	Anti-vibration
Auto-stop carbon brushes		•	•	•	•
Winding protection grid		•	•		•
Tool weight	5.7 lbs. (incl. batt)	4.6 lbs.	4.6 lbs.	5.2 lbs.	5.3 lbs.
Standard equipment:					
2 - 18V 7.0 Ah LiHD ext. batteries*	625345000				
2 - 18V 5.5 Ah LiHD ext. batteries*	625342000				
Type 27 wheel guard	339203480	339204490	339204490	339203960	339204490
Side handle	316046590	316046590	316046590	314000540	314000970
Inner flange	341031290	341031290	341031290	341031290	341031290
Locking nut	316062590	316055450	316055450	341101480	316055450
Spanner wrench				623934000	
Carrying case	Kit only				
Optional equipment:					
Type 1 cutting guard (steel)		US339203030	US339203030	630366000	US339203030
Quick-clip on type 1 cutting guard	630351000	630351000	630351000		630351000
Dust filter	313062620				630792000

Angle Grinders
Ergonomic

metabo®
PROFESSIONAL POWER TOOL SOLUTIONS



W 850-125
4 1/2" - 5" Angle Grinder



W 1100-125
4 1/2" - 5" Angle Grinder



WP 9-125 Quick
4 1/2" - 5" Angle Grinder
with Non-locking Paddle Switch



W 9-125
4 1/2" - 5" Angle Grinder



W 12-125 Quick
4 1/2" - 5" Angle Grinder

Model	W 850-125 601233420	W 9-125 600376420	WP 9-125 Quick 600384420	W 1100-125 601237420	W 12-125 Quick 600398420
Key Safety Features					
Maximum wheel diameter	4 1/2" - 5"	4 1/2" - 5"	4 1/2" - 5"	4 1/2" - 5"	4 1/2" - 5"
Amps	8.0	8.5	8.5	10	10.5
Rated input watts	850	900	900	1,100	1,250
No-load speed (RPM)	11,000	10,500	10,500	11,000	11,000
Switch Type	Lock-on slide	Lock-on slide	Non-locking paddle	Lock-on slide	Lock-on slide
Motor	Heavy Duty	LongLife	LongLife	Heavy Duty	LongLife
AC/DC capability	AC	AC/DC	AC/DC	AC	AC/DC
Mechanical brake technology					
Drop secure tethering point					
Auto-balance vibration control					
Metabo safety slip clutch		•	•		•
Quick wheel change system			•		•
Electronic features:					
Electronic speed stabilization					
Power interruption protection					
Soft start feature					
Overload protection w/ LED					
Rotatable gear housing		•	•		•
Burst-proof guard	•	w/ 7 stops	w/ 7 stops	•	w/ 7 stops
Side handle	Ergonomic	Vibration dampened	Vibration dampened	Ergonomic	Anti-vibration
Auto-stop carbon brushes	•	•	•	•	•
Winding protection grid		•	•		•
Tool weight	4.4 lbs.	4.6 lbs.	4.6 lbs.	5.4 lbs.	5.5 lbs.
Standard equipment:					
Type 27 wheel guard	339204770	339204500	339204500	339209420	339204500
Side handle	314000540	314000540	316046590	314000540	314000970
Inner flange	341031290	341031290	341031290	341031290	341031290
Locking nut	341101480	341101480	316055450	341101480	316055450
Spanner wrench	623934000	623934000		623934000	
Optional equipment:					
Type 1 cutting guard (steel)		US339203040	US339203040		US339203040
Quick-clip on type 1 cutting guard	630352000	630352000	630352000	630352000	630352000
Dust filter					630709000
Multiple position side handle bar		627362000	627362000		627362000

Angle Grinders
Quick Lock, Anti-Vibration

metabo®
PROFESSIONAL POWER TOOL SOLUTIONS



WPB 12-125 Quick
4 1/2" - 5" Angle Grinder with Non-locking Paddle Switch and Brake



WEPBA 17-125 Quick
Electronic 4 1/2" - 5" Angle Grinder with Non-locking Paddle Switch, Brake and Auto-balance



WE 15-125 Quick
4 1/2" - 5" Angle Grinder with Non-locking Paddle Switch



WEP 15-125 Quick
4 1/2" - 5" Angle Grinder with Non-locking Paddle Switch

WORLD'S FIRST
1700 WATT, 14.5 Amp
SMALL ANGLE GRINDER!



WEPBA 17-125 DS Quick
Electronic 4 1/2" - 5" Angle Grinder with Non-locking Paddle Switch, Brake, Auto-balance and Drop Secure NEW

Model	WPB 12-125 Quick 600428420	WE 15-125 Quick 600448420	WEP 15-125 Quick 600476420	WEPBA 17-125 Quick 600548420	WEPBA 17-125 Quick DS 600549420
Key Safety Features					
Maximum wheel diameter	4 1/2" - 5"	4 1/2" - 5"	4 1/2" - 5"	4 1/2" - 5"	4 1/2" - 5"
Amps	10.5	13.5	13.5	14.5	14.5
Rated input watts	1,250	1,550	1,550	1,700	1,700
No-load speed (RPM)	11,000	11,000	11,000	11,000	11,000
Switch Type	Non-locking paddle	Slide locking	Non-locking paddle	Non-locking paddle	Non-locking paddle
Motor	LongLife	LongLife	LongLife	LongLife	LongLife
AC/DC capability	AC/DC	AC	AC	AC	AC
Mechanical brake technology	•			•	•
Drop secure tethering point					•
Auto-balance vibration control				•	•
Metabo safety slip clutch	•	•	•	•	•
Quick wheel change system	•	•	•	•	•
Electronic features:		•	•	•	•
Electronic speed stabilization		TC	TC	TC	TC
Power interruption protection		•	•	•	•
Soft start feature		•	•	•	•
Overload protection w/ LED		•	•	•	•
Rotatable gear housing	•	•	•	•	•
Burst-proof guard w/ 7 stops	•	•	•	•	•
Side handle	Anti-vibration	Anti-vibration	Anti-vibration	Anti-vibration	Anti-vibration
Auto-stop carbon brushes	•	•	•	•	•
Winding protection grid	•	•	•	•	•
Tool weight	5.7 lbs.	5.7 lbs.	5.7 lbs.	6 lbs.	6 lbs.
Standard equipment:					
Type 27 wheel guard	339204500	339204500	339204500	339204500	339204500
Side handle	314000970	314000970	314000970	314000970	314000970
Inner flange	341031290	341031290	341031290		
Locking nut	316055450	316055450	316055450	316055450	316055450
Spanner wrench					
Optional equipment:					
Type 1 cutting guard (steel)	US339203040	US339203040	US339203040	US339203040	US339203040
Quick-clip on type 1 cutting guard	630352000	630352000	630352000	630352000	630352000
Dust filter	630792000	630709000	630792000	630792000	630792000
Multiple position side handle bar	627362000	627362000	627362000	627362000	627362000

Angle Grinders
Quick Change

metabo®
PROFESSIONAL POWER TOOL SOLUTIONS



WPB 18 LTX BL 150 Quick
6" Brushless Paddle Switch Angle Grinder with Brake



WPB 12-150 Quick
6" Angle Grinder with Non-locking Paddle Switch and Brake



WP 12-150 Quick
6" Angle Grinder with Non-locking Paddle Switch



W 12-150 Quick
6" Angle Grinder



WPB 12-150 Quick
6" Angle Grinder with Non-locking Paddle Switch, Brake and Drop Secure **NEW**

Model **7.0Ah Kit:** ASC30-36 Chgr + 2 LiHD 7.0 Ah Batteries **Bare Tool:** ***Key Safety Features***	**WPB 18 LTX BL 150 Quick** **613076640** **613076860**	**W 12-150 Quick 600407420**	**WP 12-150 Quick 600418420**	**WPB 12-150 Quick 600432420**	**WPB 12-150 Quick DS 600445420**
Maximum wheel diameter	6"	6"	6"	6"	6"
Amps		10.5	10.5	10.5	10.5
Rated input watts		1,250	1,250	1,250	1,250
No-load speed (RPM)	9,000	9,600	9,600	9,600	9,600
Switch Type	Non-locking paddle	Lock-on slide	Non-locking paddle	Non-locking paddle	Non-locking paddle
Motor	Brushless	LongLife	LongLife	LongLife	LongLife
AC/DC capability	18V DC	AC/DC	AC/DC	AC/DC	AC/DC
Safety brake	•			•	•
Mechanical brake technology				•	•
Drop secure tethering point					•
Metabo safety slip clutch		•	•	•	•
Quick wheel change system	•	•	•	•	•
Electronic: Power interruption protection, clutch, overload protection	•				
Rotatable gear housing	Rotatable battery pack	•	•	•	•
Burst-proof guard	•	w/7 stops	w/7 stops	w/7 stops	w/7 stops
Anti-vibration side handle		•	•	•	•
Auto-stop carbon brushes		•	•	•	•
Winding protection grid		•	•	•	•
Tool weight	5.7 lbs. (incl. batt.)	5.5 lbs.	5.5 lbs.	6 lbs.	6 lbs.
Standard equipment:					
2 - 18V 7.0 Ah LiHD ext. batteries*	625345000				
2 - 18V 5.5 Ah LiHD ext. batteries*	625342000				
Type 27 wheel guard	339204450	339204510	339204510	339204510	339204510
Side handle	316046590	314000970	314000970	314000970	314000970
Inner flange	341031290	341031290	341031290	341031290	341031290
Locking nut	316062590	316055450	316055450	316055450	316055450
Carrying case	Kit only				
Optional equipment:					
Quick-clip on type 1 cutting guard	630353000	630353000	630353000	630353000	630353000
Dust filter	316062620	630709000	630792000	630792000	630792000
Multiple position side handle bar		627362000	627362000	627362000	627362000

Angle Grinders
Quick Change

metabo®
PROFESSIONAL POWER TOOL SOLUTIONS



WE 15-150 Quick
Electronic 6" Angle Grinder



WEP 17-150 Quick
Electronic 6" Angle Grinder with Non-locking Paddle Switch



WEP 15-150 Quick
Electronic 6" Angle Grinder with Non-locking Paddle Switch



WEPBA 17-150 Quick
Electronic 6" Angle Grinder with Non-locking Paddle Switch, Brake and Auto-balance

WORLD'S FIRST 1700 WATT SMALL ANGLE GRINDER!



WEPBA 17-150 Quick
Electronic 6" Angle Grinder with Non-locking Paddle Switch, Brake, Auto-balance and Drop Secure

NEW

Model	WE 15-150 Quick 600464420	WEP 15-150 Quick 600488420	WEP 17-150 Quick 600507420	WEPBA 17-150 Quick 600552420	WEPBA 17-150 Quick DS 600553420
Key Safety Features					
Maximum wheel diameter	6"	6"	6"	6"	6"
Amps	13.5	13.5	14.5	14.5	14.5
Rated input watts	1,550	1,550	1,700	1,700	1,700
No-load speed (RPM)	9,600	9,600	9,600	9,600	9,600
Switch type	Lock-on slide	Non-locking paddle	Non-locking paddle	Non-locking paddle	Non-locking paddle
Motor	LongLife	LongLife	LongLife	LongLife	LongLife
AC/DC capability	AC	AC	AC	AC	AC
Mechanical brake technology				•	•
Drop secure tethering point					•
Metabo safety slip clutch	•	•	•	•	•
Quick wheel change system	•	•	•	•	•
Electronic features:					
Electronic speed stabilization	TC	TC	TC	TC	TC
Power interruption protection	•	•	•	•	•
Soft start feature	•	•	•	•	•
Overload protection w/ LED	•	•	•	•	•
Rotatable gear housing	•	•	•	•	•
Burst-proof guard w/ 7 stops	•	•	•	•	•
Anti-vibration side handle	•	•	•	•	•
Auto-stop carbon brushes	•	•	•	•	•
Winding protection grid	•	•	•	•	•
Tool weight	5.7 lbs.	5.7 lbs.	5.7 lbs.	6.2 lbs.	6.2 lbs.
Standard equipment:					
Type 27 wheel guard	339204510	339204510	339204510	339204510	339204510
Quick-clip on type 1 cutting guard	630353000	630353000	630353000	630353000	630353000
Side handle	314000970	314000970	314000970	314000970	314000970
Inner flange	341031290	341031290	341031290		
Locking nut	316055450	316055450	316055450	316055450	316055450
Optional equipment:					
Steel type 1 guard	US339203050	US339203050	US339203050	US339203050	US339203050
Dust filter	630709000	630792000	630792000	630792000	630792000
Multiple position side handle bar	627362000	627362000	627362000	627362000	627362000

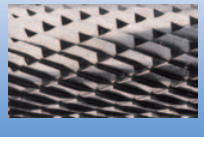
Carbide Burrs
Specifications

PFERD

Single cut



Double cut



Diamond cut



Recommended rotational speed range [RPM]

To determine the recommended cutting speed [SFPM], please proceed as follows:

❶ Select the workpiece material to be machined
❷ Determine the characteristics of your application
❸ Select the cut
❹ Establish the cutting speed range

To determine the recommended rotational speed [RPM], please proceed as follows:

❺ Select the required bur diameter
❻ The cutting speed range and the bur diameter determine the recommended rotational speed range [RPM]

❶ Workpiece material/colour code			❷ Characteristics	❸ Cut	❹ Cutting speed
Steel and steel castings	Non-hardened, nonheat treated steels up to 35 HRC (< 1,200 N /mm²)	Constructional steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, steel castings	Coarse machining = high stock removal	Single Double	2,000 - 3,000 SFPM
			Fine machining = low stock removal	Single	1,500 - 2,000 SFPM
	Hardened, heat-treated steels exceeding 35 HRC (> 1,200 N/mm²)	Tool steels, tempering steels, alloyed steels, steel castings	Coarse machining = high stock removal	Single Double Diamond	850 - 1,150 SFPM
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic high-grade steels	Coarse machining = high stock removal	Double Diamond	850 - 1,150 SFPM
			Fine machining = low stock removal	Single	1,150 - 1,500 SFPM
Non-ferrous metals	Hard non-ferrous metals	Bronze, titanium/titanium alloys, very hard aluminum alloys (high Si content)	Coarse machining = high stock removal	Single Diamond	850 - 1,150 SFPM
			Fine machining = low stock removal	Single	1,150 - 1,500 SFPM
	Heat resistant alloys	Nickel based alloys, NiCo alloys (aircraft engine and turbine construction)	Coarse machining = high stock removal	Double Diamond	1,000 - 1,500 SFPM
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite, with nodular graphite cast iron, white annealed cast iron, black cast iron	Coarse machining = high stock removal	Single Double	1,500 - 2,000 SFPM
			Fine machining = low stock removal	Single	

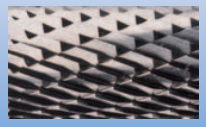
Example
Carbide bur, double cut,
bur diameter: 1/2".
Coarse machining of non-hardened and non-heat-treated steels.
Cutting speed: 2,000 - 3,000 SFPM
Rotational speed: 16,000 - 24,000 RPM

❺ Bur dia. [Inches]	❻ Cutting speed [SFPM]				
	850	1,150	1,500	2,000	3,000
	Rotational speed [RPM]				
3/32	35,000	56,000	72,000	95,000	120,000
1/8	27,000	37,000	48,000	64,000	95,000
3/16	16,000	22,000	29,000	38,000	57.000
1/4	13,000	19,000	24,000	32,000	48,000
5/16	10,000	14,000	18,000	24,000	36,000
3/8	8,000	11,000	14,000	19,000	29,000
7/16	7,500	10,000	13,000	17,500	26,500
1/2	7,000	9,000	12,000	16,000	24,000
5/8	5,000	7,000	9,000	12,000	18,000
3/4	4,000	6,000	7,000	10,000	14,000
1	3,000	4,000	6,000	8,000	11,000

Carbide Burrs
Specifications

PFERD

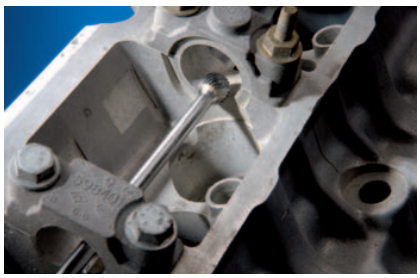
Double cut



Carbide burs with long shank (L3 and L6)

Small carbide burs with long shanks **L3** (3″) are perfect for work on small hard-to-reach components.

Carbide burs with long shanks **L6** (6″) are ideal for cost-effective work in deep, hard-to-reach places.



Safety note

Not suitable for robotic and stationary usage. **Risk of bending**. Only use power tools with rigid clamping systems.



= Read the instructions! (Please observe the recommended RPM!)

Safety information recommended RPM

When working with long shank burs, the bur must be in contact with the workpiece (or inserted in the bore or slot to be machined) before the machine is turned on. As a rule, the bur must remain in contact with the workpiece for as long as the machine is running. Failure to observe this procedure may result in shank failure and hence, an increased accident risk.

If the continuous contact between the bur and the workpiece is not guaranteed, the ❹ **idling speeds** stated in the table should **not be exceeded**.
For safety reasons, drive speeds ❸ **with contact to workpiece** require a reduction in the recommended standard length bur speed from the speeds stated in the table below.

Proceed as follows:
❶ Select the workpiece material to be machined
❷ Select the required bur diameter
❸ For the recommended reduced speed [RPM] with workpiece contact, please refer to the right-hand side of the table

❶ Workpiece material/colour code			Characteristics	Cut
Steel, cast steel	Non-hardened, non-heat treated steels up to 38 HRC (< 1,200 N/mm²)	Construction steels, carbon steels, tool steels, non-alloyed steels, case-hardened steels, cast steels	Coarse machining = high stock removal	Double
	Hardened, heat-treated steels exceeding 38 HRC (> 1,200 N/mm²)	Tool steels, tempering steels, alloyed steels, cast steels		
Stainless steel (INOX)	Rust and acid-resistant steels	Austenitic and ferritic stainless steel	Coarse machining = high stock removal	Double
Non-ferrous metals	High-temperature resistant materials	Nickel based alloys, cobalt based alloys (aircraft engine and turbine construction)	Coarse machining = high stock removal	Double
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite, with nodular graphite cast iron, white annealed cast iron, black cast iron	Coarse machining = high stock removal	Double

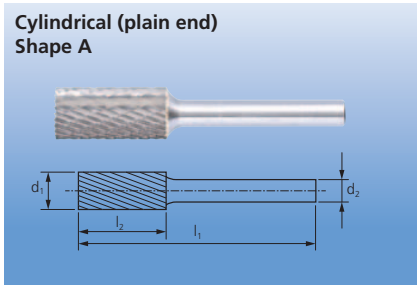
Example
Carbide bur, L6, double cut,
bur diameter: 1/2″.
Coarse machining of non-hardened and non-heat-treated steels.
Recommended reduced speed with workpiece contact: 7,000 RPM

❷ Bur dia. [Inches]	❹ Maximum rotational free speed [RPM] (No contact to the workpiece)		❸ Recommended reduced rotational application speed [RPM] (With contact to the workpiece)	
	Shank length [Inches]			
	L3 (3″)	L6 (6″)	L3 (3″)	L6 (6″)
3/32	12,000	-	33,000	-
1/8	10,000	-	31,000	-
1/4	6,000	-	15,000	-
5/16	-	6,000	-	11,000
3/8	-	4,500	-	9,000
1/2	-	3,000	-	7,000

Carbide Burrs
Shape A

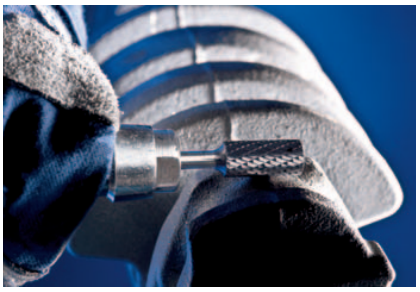
PFERD

Cylindrical (plain end)
Shape A



Cylindrical bur with plain end (uncut).

PFERD specification number
ZYA



Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Overall length l_1 [Inches]	Cut type and EDP number			
				Single	Double	Diamond	
Shank dia. 1/8"							
3/32 x 1/2	SA-42	1/8	1-1/2	-	23112	-	1
1/8 x 1/2	SA-43	1/8	1-1/2	23121	23122	-	1
1/4 x 1/2	SA-51	1/8	1-11/16	23131	23132	-	1
Shank dia. 1/4"							
1/8 x 1/2	SA-11	1/4	1-15/16	24001	24002	-	1
3/16 x 5/8	SA-14	1/4	1-15/16	-	24022	-	1
1/4 x 5/8	SA-1	1/4	1-15/16	24031	24032	24033	1
5/16 x 3/4	SA-2	1/4	2-1/2	24051	24052	24053	1
3/8 x 3/4	SA-3	1/4	2-1/2	24061	24062	24063	1
7/16 x 1	SA-4	1/4	2-3/4	24091	24092	-	1
1/2 x 1	SA-5	1/4	2-3/4	24101	24102	24103	1
5/8 x 1	SA-6	1/4	2-3/4	-	24112	-	1
3/4 x 1/2	SA-15	1/4	2-1/4	-	24132	-	1
3/4 x 3/4	SA-16	1/4	2-1/2	-	24142	-	1
3/4 x 1	SA-7	1/4	2-3/4	-	24122	-	1
1 x 1	SA-9	1/4	2-3/4	-	24162	-	1
Extended shank L2 (2")							
3/32 x 1/2	SA-42L2	1/8	2	-	23617	-	1
1/8 x 1/2	SA-43L2	1/8	2	-	23621	-	1
Extended shank L3 (3")							
3/32 x 1/2	SA-42L3	1/8	3	-	23792	-	1
1/8 x 1/2	SA-43L3	1/8	3	-	23796	-	1
Extended shank L6 (6")							
1/4 x 5/8	SA-1L6	1/4	6-9/16	-	25802	-	1
3/8 x 3/4	SA-3L6	1/4	6-5/8	-	25812	-	1
1/2 x 1	SA-5L6	1/4	6-7/8	-	25822	-	1

Carbide Burrs
Shape B

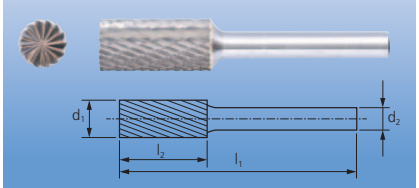
PFERD



Cylindrical bur with end cut.

PFERD specification number
ZYAS

Cylindrical (end cut)
Shape B



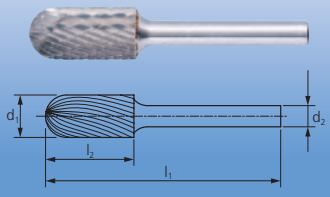
Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Overall length l_1 [Inches]	Cut type and EDP number Single	Double	Diamond	
Shank dia. 1/8”							
1/4 x 1/2	SB-51	1/8	1-11/16	23171	-	-	1
Shank dia. 1/4”							
3/16 x 5/8	SB-14	1/4	1-15/16	-	24202	-	1
1/4 x 5/8	SB-1	1/4	1-15/16	24211	24212	24213	1
5/16 x 3/4	SB-2	1/4	2-1/2	-	24232	24233	1
3/8 x 3/4	SB-3	1/4	2-1/2	24241	24242	-	1
7/16 x 1	SB-4	1/4	2-3/4	24271	24272	24273	1
1/2 x 1	SB-5	1/4	2-3/4	24281	24282	24283	1
5/8 x 1	SB-6	1/4	2-3/4	-	24292	-	1
3/4 x 1/2	SB-15	1/4	2-1/4	-	24312	-	1
3/4 x 3/4	SB-16	1/4	2-1/2	-	24322	-	1
3/4 x 1	SB-7	1/4	2-3/4	-	24302	-	1
1 x 1	SB-9	1/4	2-3/4	-	24342	-	1
Extended shank L6 (6”)							
3/8 x 3/4	SB-3L6	1/4	6-5/8	-	25842	-	1
1/2 x 1	SB-5L6	1/4	6-7/8	-	25852	-	1



Carbide Burrs
Shape C

PFERD

Cylindrical (radius end)
Shape C



Cylindrical bur with radius end.

PFERD specification number
WRC



Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Overall length l_1 [Inches]	Cut type and EDP number			
				Single	Double	Diamond	
Shank dia. 1/8”							
3/32 x 1/2	SC-41	1/8	1-1/3	-	23182	-	1
1/8 x 1/2	SC-42	1/8	1-1/2	23191	23192	-	1
1/4 x 1/2	SC-51	1/8	1-11/16	23201	23202	-	1
Shank dia. 1/4”							
1/8 x 1/2	SC-11	1/4	1-15/16	-	24352	-	1
1/8 x 5/8	SC-12	1/4	1-15/16	-	24362	-	1
3/16 x 5/8	SC-14	1/4	1-15/16	-	24382	-	1
1/4 x 5/8	SC-1	1/4	1-15/16	24391	24392	24393	1
5/16 x 3/4	SC-2	1/4	2-1/2	-	24412	-	1
3/8 x 3/4	SC-3	1/4	2-1/2	24421	24422	24423	1
7/16 x 1	SC-4	1/4	2-3/4	-	24452	-	1
1/2 x 1	SC-5	1/4	2-3/4	24461	24462	24463	1
5/8 x 1	SC-6	1/4	2-3/4	-	24472	24473	1
3/4 x 1	SC-7	1/4	2-3/4	-	24482	24483	1
1 x 1	SC-9	1/4	2-3/4	-	24512	24513	1
Extended shank L2 (2”)							
1/8 x 1/2	SC-42L2	1/8	2	-	23649	-	1
Extended shank L3 (3”)							
1/8 x 1/2	SC-42L3	1/8	3	-	23824	-	1
Extended shank L6 (6”)							
1/4 x 5/8	SC-1L6	1/4	6-9/16	-	25862	-	1
3/8 x 3/4	SC-3L6	1/4	6-5/8	-	25872	-	1
1/2 x 1	SC-5L6	1/4	6-7/8	-	25882	-	1



Carbide Burrs
Shape D

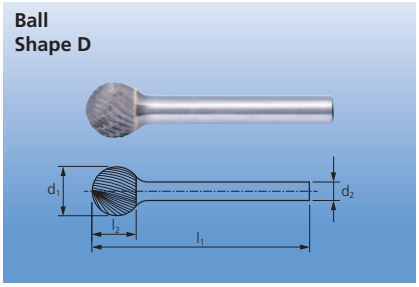
PFERD



Ball-shaped bur.

PFERD specification number
KUD

Ball
Shape D

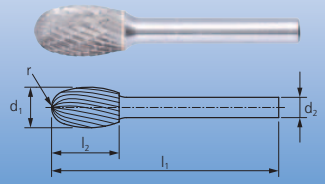


Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Overall length l_1 [Inches]	Cut type and EDP number			
				Single	Double	Diamond	
Shank dia. 1/8”							
3/32 x 3/32	SD-41	1/8	1-1/2	23231	23232	-	1
1/8 x 3/32	SD-42	1/8	1-1/2	23241	23242	-	1
3/16 x 1/8	SD-53	1/8	1-3/8	23261	23262	-	1
1/4 x 3/16	SD-51	1/8	1-3/8	23251	23252	-	1
Shank dia. 1/4”							
1/8 x 3/32	SD-11	1/4	1-15/16	-	24522	-	1
3/16 x 1/8	SD-14	1/4	1-15/16	24531	24532	-	1
1/4 x 3/16	SD-1	1/4	1-15/16	24541	24542	24543	1
5/16 x 1/4	SD-2	1/4	2-1/16	24551	24552	-	1
3/8 x 5/16	SD-3	1/4	2-1/16	24561	24562	24563	1
7/16 x 3/8	SD-4	1/4	2-1/8	-	24572	-	1
1/2 x 7/16	SD-5	1/4	2-3/16	24581	24582	-	1
5/8 x 9/16	SD-6	1/4	2-5/16	-	24592	24593	1
3/4 x 11/16	SD-7	1/4	2-13/16	-	24602	-	1
1 x 15/16	SD-9	1/4	2-1/16	24611	24612	-	1
Extended shank L2 (2”)							
1/8 x 3/32	SD-42L2	1/8	2	-	23661	-	1
1/4 x 3/16	SD-51L2	1/8	2	-	23665	-	1
Extended shank L3 (3”)							
1/8 x 3/32	SD-42L3	1/8	3	-	23836	-	1
1/4 x 3/16	SD-51L3	1/8	3-3/16	-	23840	-	1
Extended shank L6 (6”)							
1/4 x 3/16	SD-1L6	1/4	6-1/8	-	25922	-	1
3/8 x 5/16	SD-3L6	1/4	6-1/4	-	25932	-	1
1/2 x 7/16	SD-5L6	1/4	6-5/16	-	25942	-	1

Carbide Burrs
Shape E

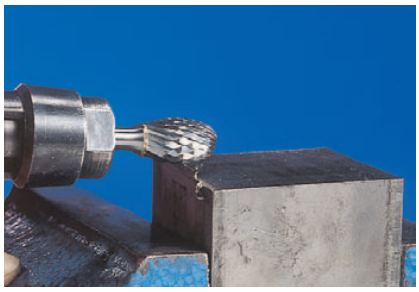
PFERD

Oval
Shape E



Oval-shaped bur.

PFERD specification number
TRE



Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Overall length l_1 [Inches]	Cut type and EDP number			
				Single	Double	Diamond	
Shank dia. 1/8”							
1/8 x 7/32	SE-41	1/8	1-1/2	-	23272	-	1
1/4 x 3/8	SE-51	1/8	1-9/16	23281	23282	-	1
Shank dia. 1/4”							
1/4 x 3/8	SE-1	1/4	1-15/16	24631	24632	24633	1
3/8 x 5/8	SE-3	1/4	2-3/8	24641	24642	24643	1
1/2 x 7/8	SE-5	1/4	2-5/8	24651	24652	24653	1
5/8 x 1	SE-6	1/4	2-3/4	-	24662	-	1
Extended shank L2 (2”)							
1/8 x 7/32	SE-41L2	1/8	2	-	23673	-	1
1/4 x 3/8	SE-51L2	1/8	2	-	23677	-	1
Extended shank L3 (3”)							
1/8 x 7/32	SE-41L3	1/8	3	-	23848	-	1
1/4 x 3/8	SE-51L3	1/8	3-3/8	-	23852	-	1
Extended shank L6 (6”)							
1/4 x 3/8	SE-1L6	1/4	6-3/8	-	25982	-	1
3/8 x 5/8	SE-3L6	1/4	6-1/2	-	25992	-	1
1/2 x 7/8	SE-5L6	1/4	6-3/4	-	26002	-	1

Carbide Burrs
Shape F

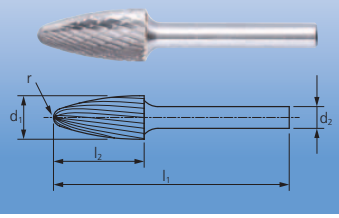
PFERD



Tree-shaped bur with radius end.

PFERD specification number
RBF

Tree (radius end)
Shape F



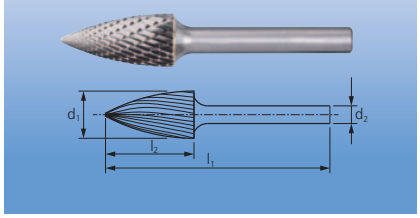
Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Overall length l_1 [Inches]	Cut type and EDP number			
				Single	Double	Diamond	
Shank dia. 1/8"							
1/8 x 1/4	SF-41	1/8	1-1/2	23301	23302	-	1
1/8 x 1/2	SF-42	1/8	1-1/2	23311	23312	-	1
1/4 x 1/2	SF-51	1/8	1-11/16	23321	23322	-	1
Shank dia. 1/4"							
1/4 x 5/8	SF-1	1/4	1-15/16	24691	24692	24693	1
3/8 x 3/4	SF-3	1/4	2-1/2	24701	24702	24703	1
7/16 x 1	SF-4	1/4	2-3/4	-	24712	-	1
1/2 x 3/4	SF-13	1/4	2-1/2	-	24732	24733	1
1/2 x 1	SF-5	1/4	2-3/4	24721	24722	24723	1
5/8 x 1	SF-6	1/4	2-3/4	-	24742	-	1
3/4 x 1	SF-7	1/4	2-3/4	-	24752	24753	1
3/4 x 1-1/4	SF-14	1/4	3	-	24762	24763	1
3/4 x 1-1/2	SF-15	1/4	3-1/4	-	24772	-	1
Extended shank L2 (2")							
1/8 x 1/2	SF-42L2	1/8	2	-	23685	-	1
Extended shank L3 (3")							
1/8 x 1/2	SF-42L3	1/8	3	-	23860	-	1
Extended shank L6 (6")							
1/4 x 5/8	SF-1L6	1/4	6-9/16	-	26042	-	1
3/8 x 3/4	SF-3L6	1/4	6-3/4	-	26052	-	1
1/2 x 1	SF-5L6	1/4	6-7/8	-	26062	-	1



Carbide Burrs
Shape G

PFERD

Tree (pointed end)
Shape G



Tree-shaped bur with pointed end.

PFERD specification number
SPG



Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Overall length l_1 [Inches]	Cut type and EDP number			
				Single	Double	Diamond	
Shank dia. 1/8”							
1/8 x 1/4	SG-41	1/8	1-1/2	23341	23342	-	1
1/8 x 3/8	SG-43	1/8	1-1/2	23361	23362	-	1
3/16 x 1/2	SG-53	1/8	1-11/16	-	23392	-	1
1/4 x 1/2	SG-51	1/8	1-11/16	23381	23382	-	1
Shank dia. 1/4”							
1/4 x 5/8	SG-1	1/4	1-15/16	24781	24782	24783	1
5/16 x 3/4	SG-2	1/4	2-1/2	-	24792	24793	1
3/8 x 3/4	SG-3	1/4	2-1/2	24801	24802	24803	1
1/2 x 3/4	SG-13	1/4	2-1/2	-	24822	24823	1
1/2 x 1	SG-5	1/4	2-3/4	24811	24812	24813	1
5/8 x 1	SG-6	1/4	2-3/4	-	24832	24833	1
Extended shank L2 (2”)							
1/8 x 1/4	SG-41L2	1/8	2	-	23693	-	1
Extended shank L3 (3”)							
1/8 x 1/4	SG-41L3	1/8	3	-	23868	-	1
Extended shank L6 (6”)							
1/4 x 5/8	SG-1L6	1/4	6-9/16	-	26102	-	1
3/8 x 3/4	SG-3L6	1/4	6-3/4	-	26112	-	1
1/2 x 1	SG-5L6	1/4	6-7/8	-	26122	-	1



Carbide Burrs
Shape H

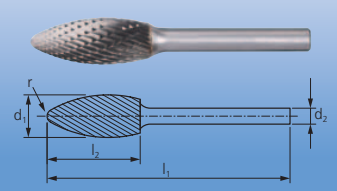
PFERD



Flame-shaped bur.

PFERD specification number
HM B

Flame
Shape H



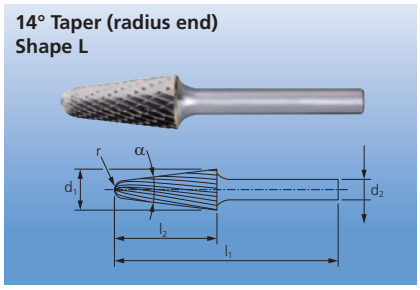
Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Overall length l_1 [Inches]	Cut type and EDP number			
				Single	Double	Diamond	
Shank dia. 1/8”							
1/8 x 1/4	SH-41	1/8	1-1/2	23401	23402	-	1
Shank dia. 1/4”							
1/4 x 5/8	SH-1	1/4	1-15/16	-	24862	24863	1
5/16 x 3/4	SH-2	1/4	2-1/2	24871	24872	-	1
1/2 x 1-1/4	SH-5	1/4	3	24881	24882	24883	1
5/8 x 1-7/16	SH-6	1/4	3-3/16	-	24892	-	1
Extended shank L2 (2”)							
1/8 x 1/4	SH-41L2	1/8	2	-	23713	-	1
Extended shank L3 (3”)							
1/8 x 1/4	SH-41L3	1/8	3	-	23888	-	1
Extended shank L6 (6”)							
5/16 x 3/4	SH-2L6	1/4	6-5/8	-	26162	-	1
1/2 x 1-1/4	SH-5L6	1/4	7-1/4	-	26172	-	1



Carbide Burrs
Shape L

PFERD

14° Taper (radius end)
Shape L



Taper bur with radius end.

PFERD specification number
KEL



Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Angle α	Overall length l_1 [Inches]	Cut type and EDP number Single	Double	Diamond	
Shank dia. 1/8"								
1/8 x 1/2	SL-42	1/8	14°	1-1/2	23451	23452	-	1
Shank dia. 1/4"								
1/4 x 5/8	SL-1	1/4	14°	1-15/16	25131	25132	25133	1
5/16 x 1	SL-2	1/4	16°	2-13/16	-	25142	25143	1
3/8 x 1-1/16	SL-3	1/4	14°	3	-	25152	25153	1
1/2 x 1-1/8	SL-4	1/4	14°	3-1/16	25161	25162	25163	1
5/8 x 1-5/16	SL-6	1/4	14°	3-1/4	-	25182	25183	1
3/4 x 1-1/2	SL-7	1/4	14°	3-7/16	-	25192	-	1
Extended shank L2 (2")								
1/8 x 1/2	SL-42L2	1/8	14°	2	-	23725	-	1
Extended shank L3 (3")								
1/8 x 1/2	SL-42L3	1/8	14°	3	-	23900	-	1
Extended shank L6 (6")								
1/4 x 5/8	SL-1L6	1/4	14°	6-9/16	-	26212	-	1
3/8 x 1-1/16	SL-3L6	1/4	14°	7-1/8	-	26222	-	1
1/2 x 1-1/8	SL-4L6	1/4	14°	7-3/16	-	26232	-	1



Carbide Burrs
Shape M

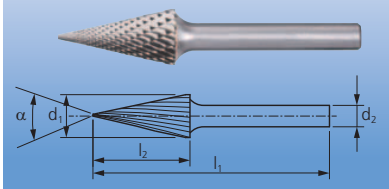
PFERD



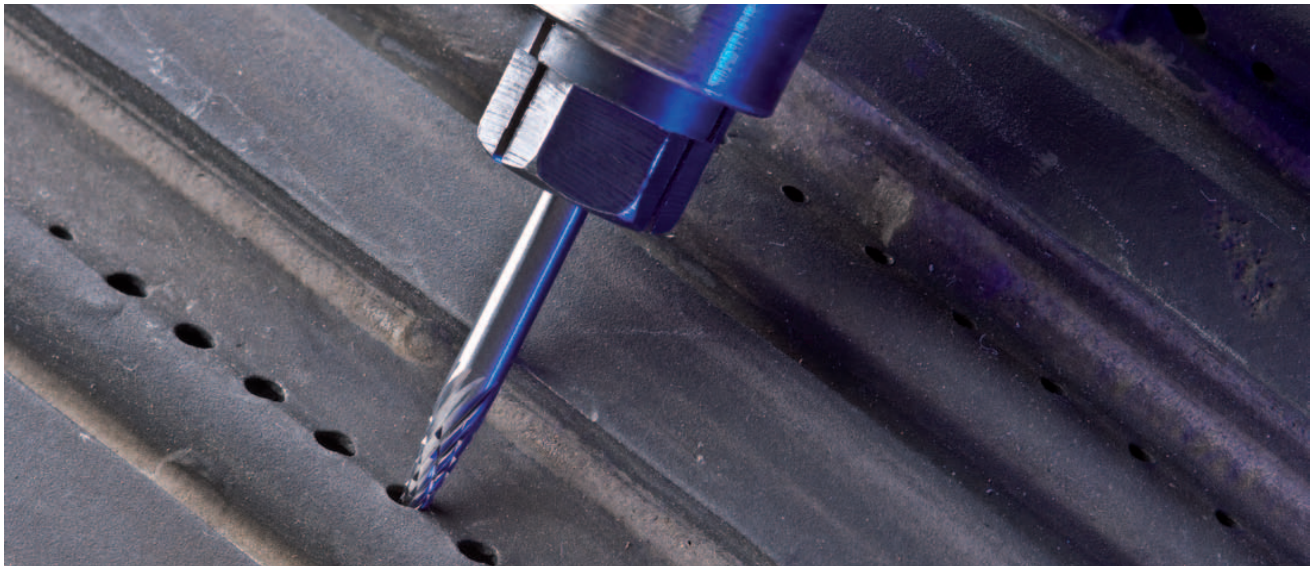
Conical bur with pointed end.

PFERD specification number
SKM

Cone
Shape M



Bur dia. x length d_1 x l_2 [Inches]	SCTI no.	Shank dia. d_2 [Inches]	Angle α	Overall length l_1 [Inches]	Cut type and EDP number			
					Single	Double	Diamond	
Shank dia. 1/8"								
1/8 x 3/8	SM-41	1/8	14°	1-1/2	-	23472	-	1
1/8 x 1/2	SM-42	1/8	12°	1-1/2	23481	23482	-	1
1/8 x 5/8	SM-43	1/8	9°	1-1/2	-	23492	-	1
1/4 x 1/2	SM-51	1/8	22°	1-13/16	23501	23502	-	1
Shank dia. 1/4"								
1/4 x 1/2	SM-1	1/4	22°	1-15/16	25201	25202	-	1
1/4 x 3/4	SM-2	1/4	14°	1-15/16	-	25212	25213	1
1/4 x 1	SM-3	1/4	10°	1-15/16	-	25222	25223	1
3/8 x 3/4	SM-4	1/4	28°	2-1/2	25231	25232	-	1
1/2 x 1	SM-5	1/4	28°	2-3/4	-	25242	-	1
5/8 x 1-1/8	SM-6	1/4	31°	2-15/16	-	25252	25253	1
Extended shank L2 (2")								
1/8 x 1/2	SM-42L2	1/8	12°	2	-	23733	-	1
1/8 x 5/8	SM-43L2	1/8	9°	2	-	23737	-	1
Extended shank L3 (3")								
1/8 x 1/2	SM-42L3	1/8	12°	3	-	23908	-	1
1/8 x 5/8	SM-43L3	1/8	9°	3	-	23912	-	1



Die Grinders
Corded & Cordless

metabo
PROFESSIONAL POWER TOOL SOLUTIONS



GP 400
25,000 RPM
AC/DC Paddle Switch
Die Grinder



GE 710 Plus
10,000-30,500 RPM Die Grinder



GE 950 G Plus
2,500-8,700 RPM
High Torque Die Grinder



GPA 18 LTX
25,000 RPM
18V DC Paddle Switch Die Grinder



GEP 710 Plus
10,000-30,500 RPM
Paddle Switch Die Grinder



GE P950 G Plus
2,500-8,700 RPM Paddle Switch
High Torque Die Grinder



GE 710 Compact
13,000-34,000 RPM
Die Grinder



GA 18 LTX G
6,000 RPM High Torque
18V DC Die Grinder

Model	GP 400 600453420	GPA 18 LTX 600621860 Bare tool	GE 710 Compact 600615420	GE 710 Plus 600616420	GEP 710 Plus 600617420	GA 18 LTX G 600639860 Bare tool	GE 950 G Plus 600618420	GEP 950 G Plus 600627420
Switch Type	Non-locking paddle	Non-locking paddle	Slide locking	Slide locking	Non-locking paddle	Slide locking	Slide locking	Non-locking paddle
Spindle lock - single wrench system		•		•	•	•	•	•
Removable soft rubber grip	•	•		•	•		•	•
Extended spindle	•	•		•	•	•	•	•
High torque planetary gear reduction						•	•	•
Motor	Heavy Duty	Cordless	LongLife	LongLife	LongLife	Cordless	LongLife	LongLife
AC/DC Capability	AC/DC	18V DC	AC	AC	AC	18V DC	AC	AC
Electronics								
- Variable speed control			VC	VC	VC		VC	VC
- Electronic overload protection		•	•	•	•	•	•	•
- Power interruption protection		•	•	•	•	•	•	•
- Electronic safety stop		•	•	•	•	•	•	•
No-load speed (RPM)	25,000	25,000	13,000-34,000	10,000-30,500	10,000-30,500	6,000	2,500-8,700	2,500-8,700
Amps	3.5		6.4	6.4	6.4		8.5	8.5
Rated input watts	400		710	710	710		950	950
Collet bore	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Tool weight	3.7 lbs	3.3 lbs. (bare)	3.6 lbs.	3.6 lbs.	4.1 lbs.	3.65 lbs (bare)	4.3 lbs.	4.3 lbs.
Length	14.5"	17.5"	10"	13.8"	13.8"	17.8"	14"	14"
Standard equipment:								
Collet wrench	344161400	344161400	344161400	344161400	344161400	344161400	344161400	344161400
1/4" collet	630821000	630821000	630821000	630821000	630821000	630821000	630821000	630821000
Spindle wrench	344160400		344160400					
Side handle						314001030	314001030	314001030
Soft rubber grip	344099150	344099150		344099150	344099150		344099150	344099150
Optional equipment:								
1/8" collet	631948000	631948000	631948000	631948000	631948000		631948000	631948000
Side handle	631052000	631052000	631052000	631052000	631052000			

Reamers
Bridge & Car

MADE IN USA

VIKING DRILL & TOOL

CAR REAMERS & HEX NUT REAMERS

Type 50-UB
Car Reamers, Standard Flute 3-Flats on Shank



MADE in the U.S.A.

- All tools are constructed with left-hand spiral and right-hand cut.
- For use in enlarging previously formed or drilled holes.
- These reamers are especially designed for the reaming of structural steel plates commonly found in truck frames, rail cars, bridges, and pressure vessels.

Part#	Shank Dia.	Overall Length	Dia. Inches	Point Dia.	Min. Starting Hole Size	Qty. per/Pk
06390	3/8"	4-5/8"	*3/8"	0.250	5/16"	1
06400	1/2"	5-7/8"	*1/2"	0.281	3/8"	1
06410	1/2"	5-7/8"	9/16"	0.343	7/16"	1
06420	1/2"	6-3/8"	*5/8"	0.343	7/16"	1
06430	1/2"	6-3/8"	11/16"	0.375	15/32"	1
06440	1/2"	6-7/8"	*3/4"	0.406	1/2"	1
06450	1/2"	6-7/8"	13/16"	0.468	35/64"	1
06460	1/2"	6-7/8"	7/8"	0.500	19/32"	1
06470	1/2"	6-7/8"	15/16"	0.585	5/8"	1
06480	1/2"	6-7/8"	1"	0.594	7/8"	1
06504	1/2"	6-7/8"	1-1/16"	0.635	29/32"	1

Part#	Shank Dia.	Overall Length	Dia. Inches	Point Dia.	Min. Starting Hole Size	Qty per/Pk
06514	1/2"	6-7/8"	1-1/8"	0.670	61/64"	1
06524	1/2"	6-7/8"	1-3/16"	0.710	1"	1
06484	1/2"	6-7/8"	1-1/4"	0.719	1"	1
06534	3/4"	6-7/8"	1-5/16"	0.785	1-3/32"	1
06544	3/4"	6-7/8"	1-3/8"	0.820	1-7/64"	1
06554	3/4"	6-7/8"	1-7/16"	0.860	1-9/64"	1
06564	3/4"	6-7/8"	1-1/2"	0.900	1-3/16"	1

SET	TYPE 50-UB	Includes
12270	*4PC. CR-4SP	3/8", 1/2", 5/8", 3/4"

Type 51-UB
Car Reamers - Fast Spiral Hole Buster™ Super Premium 3-Flats on Shank



MADE in the U.S.A.

- Special Hi-Tungsten tool steel, gold surface treated body and clearance for maximum lubricity.
- The **51-UB,** with the fast spiral, is the more aggressive of the two styles. It also will fit the needs of users who prefer a stop collar.

Part#	Shank Dia.	Overall Length	Dia. Inches	Point Dia.	Min. Starting Hole Size	Qty. per/Pk
06381	5/16"	4-5/8"	*5/16"	0.215	17/64"	1
06391	3/8"	4-5/8"	**3/8"	0.250	5/16"	1
06501	7/16"	5-7/8"	*7/16"	0.250	3/8"	1
06401	1/2"	5-7/8"	**1/2"	0.281	3/8"	1
06411	1/2"	5-7/8"	9/16"	0.343	7/16"	1
06421	1/2"	6-3/8"	*5/8"	0.343	7/16"	1
06432	1/2"	6-3/8"	0.652	0.375	15/32"	1
06431	1/2"	6-3/8"	11/16"	0.375	15/32"	1
06441	1/2"	6-7/8"	*3/4"	0.406	1/2"	1
06531	1/2"	6-7/8"	0.776	0.406	1/2"	1
06451	1/2"	6-7/8"	13/16"	0.468	35/64"	1
06461	1/2"	6-7/8"	7/8"	0.500	19/32"	1
06471	1/2"	6-7/8"	15/16"	0.585	5/8"	1

Part#	Shank Dia.	Overall Length	Dia. Inches	Point Dia.	Min. Starting Hole Size	Qty per/Pk
06481	1/2"	6-7/8"	1"	0.594	7/8"	1
06491	1/2"	6-7/8"	1-1/16"	0.635	29/32"	1
06541	1/2"	6-7/8"	1-1/8"	0.670	61/64"	1
06551	1/2"	6-7/8"	1-3/16"	0.710	1"	1
06482	1/2"	6-7/8"	1-1/4"	0.719	1"	1
06561	3/4"	6-7/8"	1-5/16"	0.785	1-3/32"	1
06571	3/4"	6-7/8"	1-3/8"	0.820	1-7/64"	1
06581	3/4"	6-7/8"	1-7/16"	0.860	1-9/64"	1
06591	3/4"	6-7/8"	1-1/2"	0.900	1-3/16"	1

SET	TYPE 51-UB	Includes
12271	*4PC. CR-4FS	3/8", 1/2", 5/8", 3/4"
12281	*4PC. SM-4FS	5/16, 3/8", 7/16", 1/2"

MADE in the U.S.A.



Type 52-UB -Bridge Length Type 53-UB -Car Length
Hex Nut Reamers Black & Gold Finish HSS- Spiral Flute

- Designed for aligning and enlarging holes in structural steel applications.
- Gold treated for maximum lubricity.

TYPE 52-UB BRIDGE LENGTH

Part#	Diameter Inches	Hex Shank Inches	Flute Length	Overall Length	Qty per/Pk
20480	9/16	1-1/16	5-1/8	6-7/8	1
20490	5/8	1-1/16	6-1/8	7-7/8	1
20510	11/16	1-1/16	7-1/8	9-1/4	1
20520	3/4	1-1/4	7-3/8	9-3/8	1
20530	13/16	1-1/4	7-3/8	9-3/8	1
20540	7/8	1-7/16	7-3/8	9-3/8	1
20550	15/16	1-7/16	7-3/8	9-3/8	1
20560	1	1-7/16	7-3/8	9-3/8	1
20570	1-1/16	1-5/8	7-3/8	9-3/8	1
20500	1-1/8	1-5/8	7-3/8	9-3/8	1
20580	1-3/16	1-13/16	7-3/8	9-3/8	1
20590	1-5/16	2	7-3/8	10	1
21120	1-3/8	2	7-3/8	10	1
21130	1-7/16	2	7-3/8	10	1
21140	1-1/2	2	7-3/8	10	1
21150	1-9/16	2	7-3/8	10	1
21160	1-5/8	2	7-1/2	10	1

TYPE 53-UB CAR LENGTH

Part#	Diameter Inches	Hex Shank Inches	Flute Length	Overall Length	Qty per/Pk
35580	9/16"	1-1/16"	4"	5-1/2"	1
35590	5/8"	1-1/16"	4-1/2"	6"	1
35610	11/16"	1-1/16"	4-1/2"	6-3/8"	1
35620	3/4"	1-1/4"	5"	7"	1
35630	13/16"	1-1/4"	5"	7"	1
35640	7/8"	1-7/16"	5"	7"	1
35650	15/16"	1-7/16"	5"	7"	1
35660	1"	1-7/16"	5"	7"	1
35670	1-1/16"	1-5/8"	5"	7"	1
35600	1-1/8"	1-5/8"	5"	7"	1
35680	1-3/16"	1-13/16"	5"	7"	1
35690	1-5/16"	2"	5"	7-7/8"	1

Proudly Manufactured in the U.S.A • America's Finest High Speed Steel Cutting Tools™ •

Reamers
Bridge-Hex Nut

MADE IN USA

CHAMPION CUTTING TOOL CORP

Hex Shank Bridge Reamers
List No. XL86

Left Hand Spiral Flute / Right Hand Cut / HSS / Heavy Duty

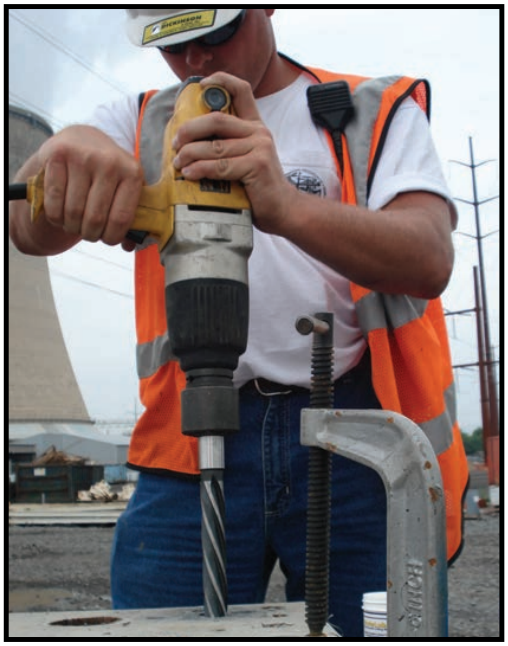


Description: Use in rotary impact sockets, high helix is faster & chips less than standard helix in impact wrench applications. Shank diameter
`-hes socket

Application: Aligning & enlarging holes in heavy duty structural steel applications

EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Hex Dia.
XL86-11/16	11/32	5-3/4	9-3/16	1-1/16
XL86-13/16	35/64	6-3/8	9-3/4	1-1/4
XL86-15/16	11/16	7	10-13/16	1-7/16
XL86-1-1/16	13/16	7	10-15/16	1-5/8
XL86-1-3/16	57/64	7	10-31/32	1-13/16
XL86-1-5/16	1-1/16	7	11-5/16	2
XL86-1-3/8	1-1/16	7-3/8	10	2
XL86-1-7/16	1-1/8	7-3/8	10	2
XL86-1-1/2	1-1-3/16	7-3/8	10	2
XL86-1-9/16	1-1/4	7-3/8	10	2
XL86-1-5/8	1-5/16	7-1/2	13	2

- Designed for aligning and enlarging holes in heavy duty structural steel bridge and ship building
- Hex shank is engineered to enable use in impact sockets for pneumatic and electric power tools
- Heavy duty reaming of irregular and misaligned holes
- Operator can use same power tool for reaming and driving the structural bolts



Hex Shank Magnetic Bridge Reamers
List No. XL86M

Left Hand Spiral Flute / Right Hand Cut / HSS / Heavy



sockets, high helix is faster & chips less than standard helix in impact wrench applications. Shank diameter for each reamer matches socket size

Application: Aligning & enlarging holes in heavy duty structural steel applications

EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Hex Dia.
XL86M-11/16	11/32	5-3/4	9-3/16	1-1/16
XL86M-13/16	35/64	6-3/8	9-3/4	1-1/4
XL86M-15/16	11/16	7	10-13/16	1-7/16
XL86M-1-1/16	13/16	7	10-15/16	1-5/8
XL86M-1-3/16	57/64	7	10-31/32	1-13/16

- 2 Embedded Magnets To Secure Reamer In Socket For Safety
- Align, enlarge, de-bur holes in structural steel, including stainless steel and tough alloys
- Spiral flute for ejecting chips forward and away from the operator
- For use in electric and pneumatic tools and sockets

Reamers
Bridge-Hex Nut

MADE IN USA

CHAMPION CUTTING TOOL CORP

Hex Shank Car Reamers

List No. HX80
Straight Flute / Right Hand Cut / HSS



Description: Short length for use in tight areas.

Application: For use in electric and pneumatic tools & sockets.

List No. HX82
Left Hand Spiral Flute / Right Hand Cut / HSS



Description: Spiral flute for ejecting chips forward and away from the operator. Short length for use in tight areas.

Application: For use in electric and pneumatic tools & sockets.

EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Hex Dia.	EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Hex Dia.
HX80-11/16	11/32	5-3/16	7	1-1/16	HX82-11/16	11/32	5-3/16	7	1-1/16
HX80-13/16	35/64	5-3/16	7	1-1/4	HX82-13/16	35/64	5-3/16	7	1-1/4
HX80-15/16	11/16	5-3/16	7	1-7/16	HX82-15/16	11/16	5-3/16	7	1-7/16
HX80-1-1/16	13/16	5-3/16	7	1-5/8	HX82-1-1/16	13/16	5-3/16	7	1-5/8
HX80-1-3/16	57/64	5-3/16	7	1-13/16	HX82-1-3/16	57/64	5-3/16	7	1-13/16

Hex shank sizes are the same size as the required nut

Hex Shank Magnetic Car Reamers

List No. HX82M
Left Hand Spiral Flute / Right Hand Cut / HSS / Magnetic Shank



Description: Short length for use in tight areas.

Application: For use in electric and pneumatic tools & sockets.

EDP No./ Diameter	Point Diameter	Flute Length	Overall Length	Hex Dia.
HX82M-11/16	11/32	5-3/16	7	1-1/16
HX82M-13/16	35/64	5-3/16	7	1-1/4
HX82M-15/16	11/16	5-3/16	7	1-7/16
HX82M-1-1/16	13/16	5-3/16	7	1-5/8
HX82M-1-3/16	57/64	5-3/16	7	1-13/16

Hex shank sizes are the same size as the required nut

- **2 Embedded Magnets To Secure Reamer In Socket For Safety**
- **Align, enlarge, de-bur holes in structural steel, including stainless steel and tough alloys**
- **Used in rotary impact sockets, high helix cuts faster and chips less than standard helix in impact wrench applications**
- **Shank diameter for each reamer matches socket size for bolt which will be driven**





Annular Cutters
High Speed

MADE IN USA

Hougen®

HOUGEN® "12,000-SERIES" ANNULAR CUTTERS

Cutter Dia. (Inches)	Decimal Equiv.	Part No. 1" D.O.C.	2" D.O.C.	3" D.O.C.	4" D.O.C.	6" D.O.C.
Use with Pilot		10531	10532			
7/16	.4375	12114	12214	----	----	----
29/64	.4531	----	12010	----	----	----
31/64	.4844	----	12011	----	----	----
1/2	.5000	12116	12216	----	----	----
33/64	.5156	----	12012	----	----	----
17/32	.5313	12117	12217	----	----	----
9/16	.5625	12118	12218	----	----	----
19/32	.5938	----	12219	----	----	----
Use with Pilot		10527	10528	24131	4-10528	6-10528
5/8	.6250	12120	12220	----	----	----
21/32	.6563	12121	12221	----	----	----
11/16	.6875	12122	12222	----	----	----
23/32	.7188	----	12223	----	----	----
3/4	.7500	12124	12224	3-12224	----	----
49/64	.7656	----	12020	----	----	----
25/32	.7812	12125	12225	----	----	----
13/16	.8125	12126	12226	3-12226	4-12226	6-12226
7/8	.8750	12128	12228	3-12228	----	----
59/64	.9219	----	12025	----	----	----
15/16	.9375	12130	12230	3-12230	4-12230	6-12230
1	1.0000	12132	12232	3-12232	4-12232	6-12232
1-1/16	1.0625	12134	12234	3-12234	4-12234	6-12234
1-1/8	1.1250	12136	12236	3-12236	4-12236	6-12236
1-3/16	1.1875	12138	12238	3-12238	4-12238	6-12238
1-1/4	1.2500	12140	12240	3-12240	4-12240	6-12240
1-5/16	1.3125	12142	12242	3-12242	----	----
1-3/8	1.3750	12144	12244	3-12244	----	----
1-7/16	1.4375	12146	12246	3-12246	----	----
1-1/2	1.5000	12148	12248	3-12248	----	----
1-9/16	1.5625	12150	12250	3-12250	----	----
1-5/8	1.6250	12152	12252	3-12252	----	----
1-11/16	1.6875	12154	12254	3-12254	----	----
1-3/4	1.7500	12156	12256	3-12256	----	----
1-13/16	1.8125	12158	12258	3-12258	----	----
1-7/8	1.8750	12160	12260	3-12260	----	----
1-15/16	1.9375	12162	12262	3-12262	----	----
2	2.0000	12164	12264	3-12264	----	----
2-1/16	2.0625	----	12266	3-12266	----	----
2-1/8	2.1250	----	12268	3-12268	----	----
2-3/16	2.1875	----	12270	3-12270	----	----
2-1/4	2.2500	----	12272	3-12272	----	----
2-5/16	2.3125	----	12274	3-12274	----	----
2-3/8	2.3750	----	12276	3-12276	----	----
2-7/16	2.4375	----	----	3-12278	4-12278	----
2-1/2	2.5000	----	----	3-12280	4-12280	----
2-9/16	2.5625	----	----	3-12282	4-12282	----
2-5/8	2.6250	----	----	3-12284	4-12284	----
2-11/16	2.6875	----	----	3-12286	4-12286	----
2-3/4	2.7500	----	----	3-12288	4-12288	----
2-13/16	2.8125	----	----	3-12290	4-12290	----
2-7/8	2.8750	----	----	3-12292	4-12292	----
2-15/16	2.9375	----	----	3-12294	4-12294	----
3	3.0000	----	----	3-12296	4-12296	----
3-1/16	3.0625	----	----	3-12298	4-12298	----

- **Cuts holes faster**
- **Longer tool life**
- **Lower cost per hole**
- **Precision tooth geometry**
- **For the widest range of materials**
- **Resharpenable**

For use with Hougen® Portable Magnetic Drills and many competitive models on materials up to 6" thick. They are made from hardened M2 high speed steel and are precision ground for excellent performance throughout the cut and long tool life. They require less horsepower and thrust to cut, and last much longer than traditional holemaking methods. "12,000-Series" cutters have a 3/4" dia. double-flatted shank and for extended tool life and lower cost per hole. "12,000-Series" Cutters are resharpenable. Modified end tooth geometry is also available for drilling in stacked plate applications.



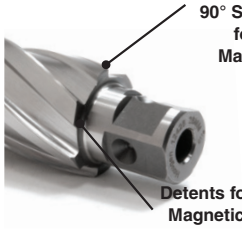
*All Cutters are available with **stack geometry**.*
To order: add 'S' to end of part no. ie...12226S.
(Some sizes may take 7-10 days. Call for availability).

Annular Cutters
High Speed

MADE IN USA

Hougen®

HOUGEN® "12,000-SERIES" ANNULAR CUTTERS - METRIC



Metric "12,000-Series" cutters now feature the Fusion2™ shank. This shank design can be used in Hougen magnetic drills with the two flat arbors or in competitive models featuring the One-Touch arbor system.

Fusion2™

Cutter Dia. (Metric)	Decimal Equivalent	Part No. 25mm D.O.C.	50mm D.O.C.	76mm D.O.C.
Use with Pilot		10531	10532	
12mm	.4724	12312	12412	----
13mm	.5118	12313	12413	----
14mm	.5512	12314	12414	----
15mm	.5906	12315	12415	----
Use with Pilot		10527	10528	24131
16mm	.6299	12316	12416	----
17mm	.6693	12317	12417	----
18mm	.7087	12318	12418	----
19mm	.7480	12319	12419	12519
20mm	.7874	12320	12420	12520
21mm	.8268	12321	12421	12521
22mm	.8661	12322	12422	12522
23mm	.9055	12323	12423	12523
24mm	.9449	12324	12424	12524
25mm	.9843	12325	12425	12525
26mm	1.0236	12326	12426	12526
27mm	1.0630	12327	12427	12527
28mm	1.1024	12328	12428	12528
29mm	1.1417	12329	12429	12529
30mm	1.1811	12330	12430	12530
31mm	1.2205	12331	12431	12531
32mm	1.2598	12332	12432	12532
33mm	1.2992	12333	12433	12533
34mm	1.3386	12334	12434	12534
35mm	1.3779	12335	12435	12535

Cutter Dia. (Metric)	Decimal Equivalent	Part No. 25mm D.O.C.	50mm D.O.C.	76mm D.O.C.
Use with Pilot		10527	10528	24131
36mm	1.4173	12336	12436	12536
37mm	1.4567	12337	12437	12537
38mm	1.4961	12338	12438	12538
39mm	1.5354	12339	12439	12539
40mm	1.5743	12340	12440	12540
41mm	1.6142	12341	12441	12541
42mm	1.6535	12342	12442	12542
43mm	1.6929	12343	12443	12543
44mm	1.7323	12344	12444	12544
45mm	1.7717	12345	12445	12545
46mm	1.8110	12346	12446	12546
47mm	1.8504	12347	12447	12547
48mm	1.8898	12348	12448	12548
49mm	1.9291	12349	12449	12549
50mm	1.9685	12350	12450	12550
51mm	2.0079	12351	12451	12551
52mm	2.0472	12352	12452	12552
53mm	2.0866	12353	12453	----
54mm	2.1260	12354	12454	----
55mm	2.1654	12355	12455	----
56mm	2.2047	12356	12456	----
57mm	2.2441	12357	12457	----
58mm	2.2835	12358	12458	----
59mm	2.3228	12359	12459	----
60mm	2.3622	12360	12460	----

"12,000-SERIES" TAP DRILL SIZES

A clean, accurate hole helps to make tapping an easier task. You can achieve that task easily with these tap drill size "12,000-Series" Cutters. Kit #12007 contains five popular sizes of tap drills.

Cutter Dia. (Inches)	Decimal Equivalent	Thread	Part No. 1" D.O.C.	2" D.O.C.
Use with Pilot			10531	10532
7/16	.4375	1/2-13	12114	12214
29/64	.4531	1/2-20	----	12010
31/64	.4844	9/16-12	----	12011
33/64	.5156	9/16-18	----	12012
17/32	.5313	5/8-11	12117	12217
37/64	.5781	5/8-18	----	12014
19/32	.5938	11/16-11	----	12219
Use with Pilot			10527	10528
21/32	.6563	3/4-10	12121	12221
11/16	.6875	3/4-16	12122	12222
23/32	.7188	1/2-14 NPT	----	12223
49/64	.7656	7/8-9	----	12020
25/32	.7812	7/8-9	12125	12225
13/16	.8125	7/8-14	12126	12226
7/8	.8750	1-8	12128	12228
59/64	.9219	1-12	----	12025

PILOTS - "12,000-SERIES"



The pilot serves three functions when used with "12,000-Series" cutters in a portable magnetic drill; 1) Locate the holes center point, 2) Initiate coolant flow to the center of the tool, 3) Eject the slug at the end of the cut. Always use a sharp pilot for best results.

Part No.	Description
10527	1" D.O.C. Pilot (5/8" - 2-3/8" & 16mm - 60mm)
10528	2" D.O.C. Pilot (5/8" - 2-3/8" & 16mm - 60mm)
10531	1" D.O.C. Pilot (7/16 - 9/16" & 12 - 15mm)
10532	2" D.O.C. Pilot (7/16 - 9/16" & 12 - 15mm)
24131	3" D.O.C. Pilot (3/4" - 3-1/16" & 19mm - 52mm)
4-10528	4" Pilot for Extended Reach "12,000-Series"
6-10528	6" Pilot for Extended Reach "12,000-Series"
Pilots for Old Style "12,000-Series" Cutters	
10533	1" D.O.C. Pilot (1/2" - 11/16" & 13mm - 18mm)
10534	2" D.O.C. Pilot (1/2" - 11/16" & 13mm - 18mm)

Annular Cutters
Tin Coated

MADE IN USA

Hougen®

"12,000-SERIES" M2 CUTTERS TiN COATED

"12,000-Series" cutters with a TiN Coating increases tool life, reduces friction, and operates at cooler temperatures. For materials up to 325 BHN (34.5 HRC) or gummy materials. Made in USA.

Cutter Dia. (Inches)	Decimal Equiv.	Part No. 1" D.O.C.	Part No. 2" D.O.C.
Use with Pilot		10531	10532
7/16	.4375	12614	12714
1/2	.5000	12616	12716
9/16	.5625	12618	12718
Use with Pilot		10527	10528
5/8	.6250	12620	12720
11/16	.6875	12622	12722
3/4	.7500	12624	12724
13/16	.8125	12626	12726
7/8	.8750	12628	12728
15/16	.9375	12630	12730
1	1.0000	12632	12732
1-1/16	1.0625	12634	12734
1-1/8	1.1250	12636	12736
1-3/16	1.1875	12638	12738

Cutter Dia. (Inches)	Decimal Equiv.	Part No. 1" D.O.C.	Part No. 2" D.O.C.
Use with Pilot		10527	10528
1-1/4	1.2500	12640	12740
1-5/16	1.3125	12642	12742
1-3/8	1.3750	12644	12744
1-7/16	1.4375	12646	12746
1-1/2	1.5000	12648	12748
1-9/16	1.5625	12650	12750
1-5/8	1.6250	12652	12752
1-11/16	1.6875	12654	12754
1-3/4	1.7500	12656	12756
1-13/16	1.8125	12658	12758
1-7/8	1.8750	12660	12760
1-15/16	1.9375	12662	12762
2	2.0000	12664	12764
2-1/16	2.0625	----	12766
2-1/8	2.1250	----	12768
2-3/16	2.1875	----	12770
2-1/4	2.2500	----	12772
2-5/16	2.3125	----	12774
2-3/8	2.3750	----	12776



"12,000-SERIES" CUTTER KITS



"12,000-Series" cutter kits are conveniently packaged with the most popular diameters in protective cases for easy transporting and safe storage. Choose from fractional or metric diameters, in 1" or 2" depth of cut. Each kit includes hex wrenches and 2 pilots.

Part No.	Mat'l / Coating	D.O.C.	Diameters Included
12001	M2 HSS	1"	9/16, 11/16, 13/16, 15/16, 1-1/16"
12002	M2 HSS	2"	9/16, 11/16, 13/16, 15/16, 1-1/16"
12003	M2 HSS	25mm	14mm, 16mm, 18mm, 20mm, 22mm
12004	M2 HSS	50mm	14mm, 16mm, 18mm, 20mm, 22mm
12005	M2 HSS	1"	5/8, 3/4, 7/8, 1, 1-1/8"
12006	M2 HSS	2"	5/8, 3/4, 7/8, 1, 1-1/8"
12007	M2 HSS	2"	7/16, 17/32, 21/32, 25/32, 7/8"
12601	M2 / TiN	1"	9/16, 11/16, 13/16, 15/16, 1-1/16"
12702	M2 / TiN	2"	9/16, 11/16, 13/16, 15/16, 1-1/16"

Annular Cutters
Rotaloc Plus

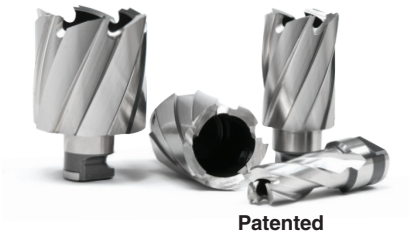
MADE IN USA

Hougen®

ROTALOC PLUS™ ANNULAR CUTTERS AND KITS

RotaLoc Plus™ Annular Cutters are designed for the Hougen® HMD130 Low Profile Drill. They're made of M42 high speed steel, feature Stack Cut geometry for penetrating multiple plates in a single pass and are designed for a full 1" D.O.C.

They feature a 5/8" bayonet-style shank mounting for fast change out, with no tools required to install in the drill spindle, and can be as easily removed. For optimum cutter tool life and cutter efficiency use Hougen® Slick-Stik™ Lubricant.



Patented

ROTALOC PLUS™ CUTTER KITS (HMD130-ONLY)

Kit No.	Description
17802	Kit contains (3) cutters, 1" D.O.C. - 1/2, 5/8, 3/4" dia, plus (3) Pilots in a sturdy plastic case.
17803	Kit contains (3) cutters, 1" D.O.C. - 9/16, 11/16, 13/16" dia, plus (3) Pilots in a sturdy plastic case.
17805	Kit contains (3) cutters, 1" D.O.C. - 14mm, 16mm, 18mm dia, plus (3) Pilots in a sturdy plastic case.



Cutter not included

ROTALOC™ SPINDLE ADAPTER

Part No.	Description
17680	RotaLoc Adapter Assembly
04778	Replacement Adapter
04780	Replacement Pilot

Cutter Dia. (Inches)	Decimal Equiv.	Part No.
See Chart for Pilot		
7/16	.4375	17814*
1/2	.5000	17816
17/32	.5313	17817
9/16	.5625	17818
5/8	.6250	17820
11/16	.6875	17822
3/4	.7500	17824
13/16	.8125	17826
7/8	.8750	17828
15/16	.9375	17830
1	1.0000	17832
1-1/16	1.0625	17834
1-1/8	1.1250	17836
1-3/16	1.1875	17838
1-1/4	1.2500	17840
1-5/16	1.3125	17842
1-3/8	1.3750	17844

* Made from M2 HSS

The RotaLoc Plus cutters can also be used on the HMD150 magnetic drill.

With the RotaLoc™ Spindle Adapter you use RotaLoc™ or RotaLoc Plus™ Annular Cutters in virtually all Hougen® Portable Magnetic Drills or any other drill that also accepts "12,000-Series" Cutters.

Cutter Dia. (Metric)	Decimal Equiv.	Part No.
See Chart for Pilot		
12mm	.4724	17900
13mm	.5118	17902
14mm	.5512	17904
15mm	.5906	17906
16mm	.6299	17908
17mm	.6693	17910
17.5mm	.6890	17911
18mm	.7087	17912
19mm	.7480	17914
20mm	.7874	17916
21mm	.8268	17918
22mm	.8661	17920
23mm	.9055	17922
24mm	.9449	17924
24.5mm	.9645	17925
25mm	.9843	17926
26mm	1.0236	17928
26.5mm	1.0433	17929
27mm	1.0630	17930
28mm	1.1024	17932
29mm	1.1417	17934
30mm	1.1811	17936
31mm	1.2205	17938
32mm	1.2598	17940
33mm	1.2992	17942
34mm	1.3386	17944
35mm	1.3779	17946

ROTALOC PLUS™ PILOTS

Part No.	Description
17470	For use with HMD150
17810	For use with HMD130

ROTALOC™ ANNULAR CUTTERS - M42 HSS - 3/4" D.O.C. - STACK CUT *(FOR HMD115)*

Cutter Dia. (Inches)	Decimal Equiv.	Part No.
Use Pilot 17100		
1/2	.5000	17116
9/16	.5625	17118
5/8	.6250	17120
11/16	.6875	17122
3/4	.7500	17124
13/16	.8125	17126
7/8	.8750	17128
15/16	.9375	17130
1	1.0000	17132
1-1/16	1.0625	17134

Part No.	Description
17001	Kit contains (10) cutters, 3/4" D.O.C. -1/2 to 1-1/16" dia, plus (2) Pilots in a sturdy plastic case.

Cutter Dia. (Metric)	Decimal Equiv.	Part No.
Use Pilot 17100		
12mm	.4724	17300
13mm	.5118	17302
14mm	.5512	17304
15mm	.5906	17306
16mm	.6299	17308
17mm	.6693	17310
18mm	.7087	17312
19mm	.7480	17314
20mm	.7874	17316
21mm	.8268	17318
22mm	.8661	17320
23mm	.9055	17322

Cutter Dia. (Metric)	Decimal Equiv.	Part No.
Use Pilot 17100		
24mm	.9449	17324
24.5mm	.9645	17325
25mm	.9843	17326
26mm	1.0236	17328
26.5mm	1.0433	17329
27mm	1.0630	17330

ROTALOC™ PILOTS

Part No.	Description
17100	Standard Pilot for HMD115
17101	Spring Ejection Pilot*

** For early model HMD115 w/o spring ejection and all HMD100 drills.*

Annular Cutters
Carbide

Hougen®

COPPERHEAD™ CARBIDE TIP CUTTERS



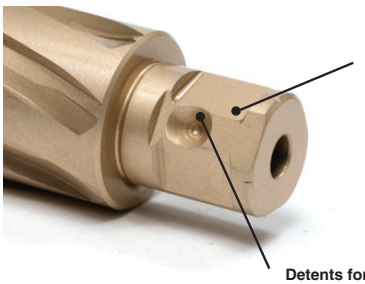
Copperhead™ Carbide Tip Cutters offer extended tool life on abrasive, tough-to-cut materials and in high-speed mag drills such as the HMD508. The unique Hougen design includes a special tooth geometry that helps maintain a better chip flow than other brands. Copperhead Cutters are available in fractional & metric sizes with the Fusion2™ shank. The shank allows for cutters to be used in Hougen drills and competitive models utilizing the one-touch arbor system. Using the set screw arbor system can result in up to **2x** the tool life as tool-less systems.

Cutter Dia. (Metric)	Part No. Fusion2™ Shank
2" (50mm) D.O.C.	
Use with Pilot 10530	
12mm	18412
13mm	18413
14mm	18414
15mm	18415
16mm	18416
17mm	18417
18mm	18418
19mm	18419
20mm	18420
21mm	18421
22mm	18422
23mm	18423
24mm	18424
25mm	18425
26mm	18426
27mm	18427
28mm	18428
29mm	18429
30mm	18430
31mm	18431
32mm	18432
33mm	18433
34mm	18434
35mm	18435
36mm	18436
37mm	18437

Cutter Dia. (Metric)	Part No. Fusion2™ Shank
2" (50mm) D.O.C.	
Use with Pilot 10530	
38mm	18438
39mm	18439
40mm	18440
41mm	18441
42mm	18442
43mm	18443
44mm	18444
45mm	18445
46mm	18446
47mm	18447
48mm	18448
49mm	18449
50mm	18450
51mm	18451
52mm	18452
53mm	18453
54mm	18454
55mm	18455
56mm	18456
57mm	18457
58mm	18458
59mm	18459
60mm	18460

Cutter Dia. (Inches)	Part No. - Fusion2™ Shank 1" D.O.C. (25mm)	2" D.O.C. (50mm)	3" D.O.C. (76mm)	4" D.O.C. (102mm)	6" D.O.C. (152mm)
Use with Pilot	10529	10530	10535	10540	10547
9/16	18118	18218	----	----	----
5/8	----	18220	----	----	----
11/16	18122	18222	3-18222	4-18222	----
3/4	----	18224	3-18224	4-18224	----
13/16	18126	18226	3-18226	4-18226	6-18226
7/8	----	18228	3-18228	4-18228	6-18228
15/16	18130	18230	3-18230	4-18230	6-18230
1	----	18232	3-18232	4-18232	6-18232
1-1/16	18134	18234	3-18234	4-18234	6-18234
1-1/8	----	18236	3-18236	4-18236	6-18236
1-3/16	----	18238	3-18238	4-18238	6-18238
1-1/4	----	18240	3-18240	4-18240	6-18240
1-5/16	----	18242	3-18242	4-18242	6-18242
1-3/8	----	18244	3-18244	4-18244	6-18244
1-1/2	----	18248	3-18248	4-18248	6-18248
1-5/8	----	18252	3-18252	4-18252	6-18252
1-3/4	----	18256	3-18256	4-18256	6-18256
1-7/8	----	18260	3-18260	4-18260	6-18260
2	----	18264	3-18264	4-18264	6-18264

Fusion2™



COPPERHEAD™ CUTTER KITS



Copperhead Cutters are available in fractional & metric kits for convenient storage and portability. Includes five 2" DOC cutters & two pilots.

Kit No.	Description 2" (50mm) DOC
18002	Fractional Kit contains (5) cutters, 9/16, 11/16, 13/16, 15/16, 1-1/16", (2) Pilots & Hex Wrenches
18004	Metric Kit contains (5) cutters, 14, 16, 18, 20, & 22mm, (2) Pilots & Hex Wrenches

Magnetic Drills
Accessories

Hougen®

HOLE ENLARGING PILOTS - "12,000-SERIES"

Take an existing hole and make it larger using Hougen's Hole Enlarging Pilots. Available in three select sizes. Replaceable "Nose" screws on to end of pilot. Made in USA.



Part No.	Description
07370	Replacement Pilot
07373	11/16" Pilot assy for enlarging up to 13/16"
07372	13/16" Pilot assy for enlarging up to 15/16"
07371	15/16" Pilot assy for enlarging up to 1-1/16"
07368	11/16" Replacement Nose
07367	13/16" Replacement Nose
07366	15/16" Replacement Nose

LUBRICANT & CUTTING FLUID



RotaFoam™ Cutting Fluid works on all types of metals to extend tool life and improve hole finish. Blue foamy lubricant visually assures thorough coverage. *(No Air Shipments. Available only in the US & Canada)*

Part No.	Description
11747-12	(12) 17 oz. (482g) RotaFoam™ Lubricant *(Individual Can Part No. 11747*)*



Use with ferrous or non-ferrous materials. RotaMagic™ Concentrated Cutting Fluid is water soluble and yields a 10:1 ratio when mixed with water. (Biodegradable & Non-Toxic)

Part No.	Description
11741-12	(12) 1 Pint (.47L) Bottles - makes 1 pint each, 12 pints total *(Individual Pint Part No. 11741*)*
11742-4	(4) 1 Gallon (3.8L) Bottles - makes 11 gallons (41.6L) each, 44 gallons (167.6L) total *(Individual Gallon Part No. 11742*)*
11743	(1) 5 Gallon Pail (18.9L) - makes 55 gallons (208L) total
11744	(1) 55 Gallon Drum (208L) - Makes a lot of coolant!

Slick-Stik™ is softer than other stick lubricants for easy application, superior adhesion to the tool, assuring thorough coverage. Specially formulated for use with "12,000-Series" Cutters. (Non-Toxic)



Part No.	Description
11746-12	(12) 1.68 oz. (48g) Slick-Stik™ Lubricant *(Individual Stick Part No. 11746*)*
11746-24	(24) 1.68 oz. (48g) Slick-Stik™ Lubricant in display box
11745-6	(6) 16 oz. (454g) Slick-Stik™ Lubricant *(Individual Stick Part No. 11745*)*



Slick Stik™, RotaGel™ and RotaMagic™ are environmentally friendly and do not contain harmful ingredients as do many lubricants.



RotaGel™ Cutting Lube is a very environmentally safe industrial lubricant that works on all types of metals to extend tool life and improve hole finish. Blue gel visually assures thorough coverage. (Biodegradable & Non-Toxic)

Part No.	Description
11748-10	(10) 8 oz. (227g) RotaGel™ Lubricant *(Individual Tube Part No. 11748*)*

**Note: Individual products are not for distributor purchase.*

Magnetic Drills
HMD Series

MADE IN USA

Hougen®



HMD130 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 9A, 1035W 230V, 50/60 Hz - 4.5A, 1035W
Motor	8A (115V), 4A (230V) 450 RPM
Diameter	7/16"- 1-3/8" (12mm - 35mm)
Depth	1" (25mm)
Cutter/Mount	RotaLoc Plus™ Cutters with push & turn style shank
Dimensions	6-11/16" H x 6-3/4" W x 14-11/16" L (170mm H x 171mm W x 373mm L)
Weight	23.8 lb. (10.8 kg) • Shipping 31.7 lb.(14.4 kg)



HMD904 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 9A, 1035W 230V, 50/60 Hz - 4.5A, 1035W
Motor	8A, 920W (115V), 4A, 920W (230V) 450 RPM
Diameter	7/16" - 1-1/2" (12mm - 38mm)
Depth	2" (50mm)
Cutter/Mount	"12,000-Series" & Copperhead™ cutters, 3/4" (19mm) shank
Twist Drill Capacity	1/2" w/ drill chuck
Tapping Capacity	1/2" w/ tapping unit
Dimensions	19-5/8" H x 7-3/4" W x 11-5/8" L (499mm H x 197mm W x 295mm L)
Weight **Weight (Swivel)**	28.9 lb. (13.1 kg) • Shipping 43 lb. (19.5 kg) 31.9 lb. (14.5 kg) • Shipping 45 lb. (20.4 kg)



HMD905 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 10A, 1150W 230V, 50/60 Hz - 5A, 1150W
Motor	9A, 1035W (115V), 4.5A, 1035W (230V) 250/450 RPM
Diameter	7/16" - 1-5/8" (12mm - 41mm)
Depth	2" (50mm)
Cutter/Mount	"12,000-Series" & Copperhead™ cutters, 3/4" (19mm) shank
Twist Drill Capacity	1/2" w/ drill chuck
Tapping Capacity	1/2" w/ tapping unit
Dimensions	22-13/16" H x 7-11/16" W x 11-3/4" L (579mm H x 195mm W x 299mm L)
Weight **Weight (Swivel)**	35 lb. (15.9 kg) • Shipping 52 lb. (23.6kg) 38 lb. (17.2 kg) • Shipping 55 lb. (24.9 kg)



HMD927 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 10A, 1150W 230V, 50/60 Hz - 5A, 1150W
Motor	9A, 1035W (115V), 4.5A, 1035W (230V) 250/450 RPM
Diameter	7/16" - 1-5/8" (12mm - 41mm)
Depth	2" (50mm)
Dimensions	22-13/16" H x 8-3/4" W x 14-11/16" L (579mm H x 222mm W x 373mm L)
Cutter/Mount	"12,000-Series" & Copperhead™ cutters, 3/4" (19mm) shank
Weight **Weight (Swivel)**	43 lb. (19.5 kg) • Shipping 56 lb. (25.4 kg) 46 lb. (21 kg) • Shipping 59 lb. (26.8 kg)

Magnetic Drills
HMD Series

MADE IN USA

Hougen®



HMD917 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 13.5A, 1553W 230V, 50/60 Hz - 6.75A, 1553W
Motor	12.5A, 1438W (115V), 6.25A, 1438W (230V) 250/450 RPM
Diameter	7/16" - 2-3/8" (12mm - 60mm)
Depth	3" (76mm)
Cutter/Mount	"12,000-Series" & Copperhead™ cutters, 3/4" (19mm) shank
Dimensions	25-13/16" H x 8-3/16" W x 12-13/16" L (656mm H x 208mm W x 325mm L)
Weight **Weight (Swivel)**	46 lb. (20.9 kg) • Shipping 63 lb. (28.6kg) 50 lb. (22.7 kg) • Shipping 67 lb. (31.8 kg)



HMD918 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 13.5A, 1553W 230V, 50/60 Hz - 6.75A, 1553W
Motor	12.5A, 1438W (115V), 6.25A, 1438W (230V) 250/450 RPM
Diameter	• 7/16" - 2-3/8" (up to 3" DOC - w/ Arbor & FSB) • 13/16" - 1-1/4" (21mm - 32mm) "12,000-Series" (up to 6" DOC) • 13/16" - 2" (21mm - 50mm) Copperhead Carbide (up to 6" DOC)
Depth (max.)	6" (152mm)
Cutter/Mount	"12,000-Series" & Copperhead™ cutters, 3/4"shank
Dimensions	26-5/16" H x 7-1/2" W x 12-13/16" L (668mm H x 191mm W x 325mm L)
Weight	44.2 lb. (20.1 kg) • Shipping 68 lb. (30.8 kg)



HMD505 & 508 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 15A, 1725W 230V, 50/60 Hz - 7.5A, 1725W
Motor	14A (115V), 7A (230V) 250/450 RPM or 450/750 RPM
Diameter	7/16" - 2-3/8" (12mm - 60mm)
Depth	3" (76mm)
Cutter/Mount	"12,000-Series" & Copperhead™ cutters, 3/4" (19mm) shank
Dimensions	20" H x 4-3/4" W x 10-3/4" L (508mm H x 121mm W x 273mm L)
Weight	45 lb. (20.4 kg) • Shipping 57 lb (25.9 kg)



HMD934 SPECIFICATIONS

Electrical System	115V, 50/60 Hz - 13.5A, 1553W 230V, 50/60 Hz - 6.75A, 1553W
Motor	12.5A, 1438W (115V), 6.25A, 1438 (230V) 70/120/200/332 RPM
Diameter	5/8" - 3-1/16" (16mm - 77mm)
Depth	4" (100mm)
Cutter/Mount	"12,000-Series" & Copperhead™ cutters, 3/4" (19mm) shank
Dimensions	26-1/4" H x 10" W x 17-3/4" L (667mm H x 254mm W x 451mm L)
Weight	72 lb. (32.6 kg) • Shipping 94 lb. (42.6 kg)

Magnetic Drills
MiniBrute/AC35

CHAMPION CUTTING TOOL CORP



MiniBrute AC35

Specifications:

- Weighs 23 lbs
- Magnetic Strength 2,200 lbs
- Cutter capacity: 1-3/8" diameterx 2" depth
- Utilizes S&D drills up to 3/4"
- Vertical travel - 3-1/8"
- Standard external fluid reservoir
- Quick change cutter arbor
- 1 Speed Motor: 600 RPM



MightiBrute AC50

Specifications:

- Weighs only 33 lbs.
- Magnetic Strength 3,370 lbs.
- Cutter capacity: 2-1/8" diameter x 2" depth
- Quick change 3/4" cutter arbor
- Vertical travel - 8"
- 1100W 2 Speed Motor: 450/300
- RPM
- External cooling system



MegaBrute RB65E

Specifications:

- Weighs 55 lbs
- Magnetic strength 4,400 lbs
- Cutter capacity: 4" Diameter x 3" Depth
- Built-in fluid reservoir
- Reversible feed handle
- 1-1/2" Vertical travel
- #3 Morse Taper Spindle
- 4 Speed Motor: 110/175/245/385



LittleBrute RB30

Specifications:

- Height: 8-1/4"
- Weighs only 25 lbs
- Magnetic Strength 3,300 lbs
- Cutter capacity 1-3/8" diameter x 1-3/16" depth
- LED light for improved visibility
- No-volt release switch for motor on/off Gearbox housing doubles as a guard
- Removable handle for use on both sides
- 1 Speed Motor: 650 RPM

Magnetic Drills
MAB Series

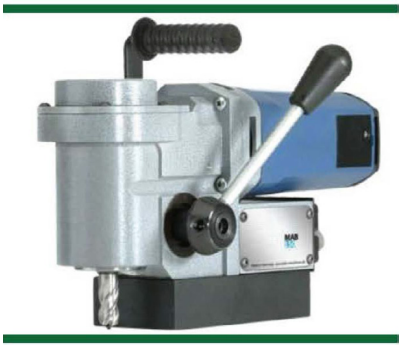
UNITEC

MAB Series Electric

The MAB series is our latest generation of of portable magnetic drilling machines featuring high power, heavy-duty construction and increased safety.

Features for improved performance include:

- Integrated cable routing within the casing eliminates the possibility of cable getting caught, tearing or snapping off
- Ergonomically positioned controls
- Heavy-duty metal gear selector knob
- Permanently sealed lifetime oil bath gearbox lubrication
- Oil bottle integrated within frame of drill to retain compact design



MAB 150 – Ultra Compact Portable Magnetic Drill

Ideal for tight spaces with limited clearance

- Drill up to 1-1/2" dia.
- Ultra compact, 7" height
- Lightweight - 24 lbs.



AutoMAB 350

Automatic Feed - Forward & Reverse

- Cut holes up to 1-1/2" dia.
- Power feed automatically controls drill pressure
- Automatic feed mechanism with automatic stop and automatic reverse



MAB 455 Portable Magnetic Drills

High power with keyless quick-change chuck system

- Cut holes up to 2" dia.
- Twist drill up to 7/8" dia.
- High-speed, 2-speed gearbox
- Optional swivel base

Magnetic Drills
MAB Series

UNITEC



MAB 485 Portable Magnetic Drills

High power, reversible with keyless quick-change chuck system

- Cut holes up to 2" dia.
- Twist drill up to 7/8" dia.
- Tap up to 15/16" dia.
- High-speed, 2-speed gearbox
- Optional swivel base



MAB 525 Portable Magnetic Drills

High power, ideal for production use

- Cut holes up to 2-1/2" dia.
- Twist drill up to 1" dia.
- Tap up to 15/16"
- High-speed, 2-speed gearbox
- Optional swivel base



MAB 825 & MAB 845 Portable Magnetic Drills

Ideal for steel engineering, plant construction and more

- Cut holes up to 4" dia.
- Twist drill up to 1-1/4" dia.; Tap up to 1-1/8"
- Optional automatic feed
- Optional swivel base



MAB 825 KTS Portable Magnetic Drill

Versatile machine with adjustable X and Y positioning

- Cut holes up to 1-5/8" dia.
- Tap up to 1-1/8" dia.
- Ideal for a wide variety of drilling, boring and slotting applications



MAB 1300 Portable Magnetic Drill

Holes up to 5-1/8" dia., tapping up to 1-1/8" dia.

- Cut holes up to 5-1/8" dia., 4-1/4" depth with carbide cutters
- Twist drill up to 1-3/4" dia.; Tap up to 1-5/8"
- Magnetic holding strength of 23,600 lbs.



MAB 825 V Portable Magnetic Drill

Automatic feed - ideal for production applications

- Cut holes up to 4" dia.
- Twist drill up to 1-1/4" dia.; Tap up to 1-1/8"

Magnetic Drills

50AC/50RL, 32AC/32RL, 100/3RL, 80AC

UNITEC



CSU 50AC & 50RL

Specifications:

Motor Power	10.5 Amp/110 Volt*
Weight	29lbs
Hole Capacity	2" dia.
Twist Drill Capacity	7/8" dia.
Tapping Capacity	15/16" *(CSU 50RL Only)*
Speeds	1: 250RPM, 2: 450 RPM
Magnet Base Size	6 1/2" W x 3 1/2"H
Dimensions	16 1/2"H x 9"L x 6 3/8" W
Magnetic Force	(1" plate) 3750 lbs.
Arbor Bore	3/4" Weldon Shank
Spindle	MT2
Automatic Lubrication	Included
Reversible Motor	Order CSU 50RL
Power Assist	Order Accessory ZPA 401

**Model CSU 50RL for tapping up to 15/16" dia.*



CSU 32AC & 32RL

Specifications:

Motor Power	8.2 Amp/110 Volt
Weight	24 lbs
Hole Capacity	1 1/4" dia.
Twist Drill Capacity	1/2" dia.
Speeds	450 RPM
Magnet Base Size	6 5/16" W x 3 1/4"H
Dimensions	14 1/4"H x 9 1/2"L x 4 3/8" W
Magnetic Force	(1" plate) 3080 lbs.
Arbor Bore	3/4" Weldon Shank
Spindle	1/2"-20 UNF Thread
Automatic Lubrication	Included
Reversible Motor	Order CSU 32RL
Power Assist	Order Accessory ZPA 401

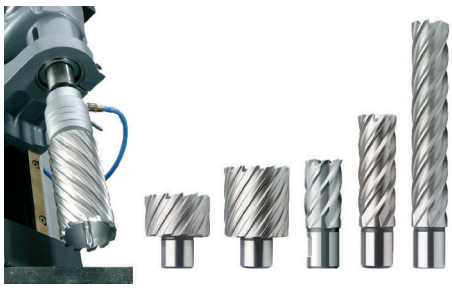
** Model CSU 32RL for tapping up to 3/4" dia*



CSU 100/3RL

Specifications:

Motor Power	16 Amp/110 Volt*
Weight	57lbs
Hole Capacity	3" dia.
Twist Drill Capacity	1 1/4" dia.
Tapping Capacity	1 1/8" dia.
Speeds (variable)	40-140RPM 120-180 RPM
Magnet Base Size	9" W x 4" H
Dimensions	19 1/2"H x 13 3/8"L x 7 1/2" W
Magnetic Force	(1" plate) 6600 lbs.
Arbor Bore	3/4" (1 1/4" also avail)
Spindle	MT3
Automatic Lubrication	Included
Power Assist	Order Accessory ZPA 402



We carry a wide range of cutters for your application.

4-Series Carbide-Tipped Rail Cutters
HSS Stack Cutters -**6**-Series Uniborachroach®
6-Series HSS High-Speed Steel Cutters.
7-Series Cobalt Cutters
8-Series Armor-Plated TiAIN Cutters
9-Series TCT Hornet Tungsten Carbid-Tipped Cutters
10-Series One-touch TCT Cutters



CSU 80AC

Specifications:

Motor Power	15 Amp/110 Volt*
Weight	57lbs
Hole Capacity	3 3/16" dia.
Twist Drill Capacity	1 1/4" dia.
Speeds	1: 100RPM, 2: 175RPM 3: 245 RPM, 4: 385 RPM
Magnet Base Size	9" W x 4 3/8"H
Dimensions	19 1/2"H x 13 3/8"L x 7 1/2" W
Magnetic Force	(1" plate) 7040 lbs.
Arbor Bore	3/4" (1 1/4" also avail)
Spindle	MT3
Automatic Lubrication	Included
Power Assist	Order Accessory ZPA 402



We also offer lubricants ideal for cutting steel, stainless steel and hard metals.

Metal Working Saws
Metal Cutting

MORSE
THE M. K. MORSE COMPANY

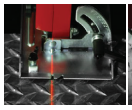


180mm **7"** **CSM7NXTB**
100960

INCLUDES
Laser Guide, 0-45° Beveling, Overload Switch, Cutting Guide Ergonomically Designed Side Handle, Retracting Blade Guard, Quick Release Metal Chip Collection Chamber and Easy Blade Changes, 7' Power Cord, Carrying Case, Safety Goggles, Ear Plugs, Metal Devil® NXT Steel Cutting Blade.

CUTTING CAPABILITIES
2-3/8" Maximum Cutting Reach
1/4" Maximum Thickness of Cut Mild Steel
0-45° Bevel Cut

SPECIFICATIONS
3800 RPM | 1560 Watts
120 V | 60Hz | 13 Amp
20mm Arbor
Weight: 18lbs.



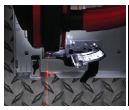
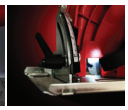



230mm **9"** **CSM9NXTB**
100977

INCLUDES
Laser Guide, 0-45° Beveling, Overload Switch, Cutting Guide Ergonomically Designed Side Handle, Retracting Blade Guard, Quick Release Metal Chip Collection Chamber and Easy Blade Changes, 7' Power Cord, Carrying Case, Safety Goggles, Ear Plugs, Metal Devil® NXT Steel Cutting Blade.

CUTTING CAPABILITIES
3-1/4" Maximum Cutting Reach
3/8" Maximum Thickness of Cut Mild Steel
0-45° Bevel Cut

SPECIFICATIONS
2300 RPM | 1800 Watts
120 V | 60Hz | 15 Amp
1" Arbor
Weight: 22lbs.



356mm **14"** **CSM14MB**
101172

INCLUDES
0-45° Mitering Vice, Overload Switch, Retracting Blade Guard, Quick Release Metal Chip Collection Chamber, 6mm & 8mm Blade Wrench, Safety Goggles, Ear Plugs, Metal Devil® NXT Steel Cutting Blade.

CUTTING CAPABILITIES

	45°	90°
Round	4-1/8"	5-1/8"
Square	3 1/2" x 3 1/2"	4 3/4" x 4 3/4"
Rectangle	3 1/8" x 4 3/8"	3 3/4" x 7 1/4"

SPECIFICATIONS
1300 RPM
120 V | 60Hz | 15 Amp
1" Arbor
Weight: 53lbs.




Metal Devil NXT

Metal Working Blades

Saw Blades

MORSE
THE M. K. MORSE COMPANY

Metal Devil NXT

Metal Devil CL
DESIGNED FOR CORDLESS SAWS

NEW

OPTIMIZED for
CORDLESS SAWS

ADVANTAGE:
Delivers ***MORE CUTS-PER-CHARGE***

BENEFIT:
Time and cost ***SAVINGS***

APPLICATIONS
Steel / Stainless Steel / Aluminum

BLADE SIZES
6-1/2"



THIN STEEL CUTTING

BEST CHOICE for
FERROUS METALS UNDER 1/8"

ADVANTAGE:
Unique tooth combination

BENEFIT:
Smooth, clean adges =
TIME SAVINGS

APPLICATION
Corrugated roofing, sheet metal, and conduit

BLADE SIZES
5-3/8" – 14"



STAINLESS STEEL CUTTING

SPECIALIZED
CARBIDE GRADE

ADVANTAGE:
Stays ***COOL*** during cutting

BENEFIT:
More wear resistance = ***LONGER LIFE***

APPLICATION
Stainless Steel including 1/4" or thinner plate, or 1/8" or thinner wall tube

BLADE SIZES
7" – 14"



STEEL CUTTING

SPECIALIZED
CARBIDE GRADE

ADVANTAGE:
Stays ***COOL*** during cutting

BENEFIT:
More wear resistance = ***LONGER LIFE***

APPLICATION
Ferrous metal shapes and parts Angle, Channel, Pipe & more 3/8" max thickness

BLADE SIZES
5-3/8" – 14"



ALUMINUM CUTTING

BROADER RANGE of
CUTTING APPLICATIONS

ADVANTAGE:
Cuts a ***WIDE RANGE*** of aluminum shapes and solids

BENEFIT:
Fewer changeovers

APPLICATION
Cut all 3/8" or thinner aluminum parts

BLADE SIZES
5-3/8" – 14"



STEEL STUD CUTTING

SPECIFICALLY DESIGNED for
METAL STUD CUTTING

ADVANTAGE:
Optimized design for reduced vibration

BENEFIT:
Virtually burr free finish =
LESS SECONDARY WORK

APPLICATION
Metal Framing Studs

BLADE SIZES
14"



TPI	Diameter	Arbor Hole Size	Application	Part #	1/Card Model #	RPM
81 Teeth	14" (356mm)	1 inch	Steel Studs	100670	CSM1481STC	1800 (max)
90 Teeth	14" (356mm)	1 inch	Stainless Steel	100694	CSM1490SSC	1800 (max)
30 Teeth	5-3/8" (136mm)	5/8 inch	Steel	100717	CSM5383058SC	4200 (max)
56 Teeth	6-1/4" (158mm)	20mm (16mm)	Thin Steel	100441	CSM62556TSIC	4200 (max)
40 Teeth	6-3/4" (171mm)	20mm	Steel	100458	CSM6754030SIC	4200 (max)
50 Teeth	7-1/2" (191mm)	30mm	Steel	100557	CSM7505030SIC	5800 (max)
68 Teeth	7-1/4" (184mm)	20mm	Thin Steel	100526	CSM72568TSIC	5800 (max)
68 Teeth	7-1/2" (191mm)	30mm	Thin Steel	100533	CSM7506830TSIC	5800 (max)
68 Teeth	7" (178mm)	30mm (20mm)	Thin Steel	100496	CSM768TSIC	5800 (max)
48 Teeth	9" (229mm)	30-20mm	Steel	100595	CSM948SIC	3200 (max)
48 Teeth	6-3/4" (171mm)	30mm	Thin Steel	100472	CSM6754830TSIC	4200 (max)
50 Teeth	8-1/4" (210mm)	5/8 inch KO	Steel	100281	CSM82550SC	

Pneumatic Scalers
Weld Flux & Needle

MADE IN USA

PATCO
Manufacturer of Quality Air Tools and Components

APPLICATIONS
Patco has three models of weld flux chisel and needle scalers. Patco scalers are made in the USA with high-quality hardened components.

P1-B SCALERS
These tools are excellent for removing weld splatter, rust, paint and other debris from many different and unusual surfaces and in hard-to-reach places. Construction, fabrication shops, and refineries will find these tools to be quite useful.
P1-B parts are interchangeable with CP-9356 and Cleco B1 style tools.

P1-B-L SCALERS
This scaler has a replaceable tool nose and is available with a needle attachment (see P1-B-LN).


P1-B-L

P1-B-LN SCALERS
This needle scaler has a round tube end and removable needle attachment which allows the tool to become a chisel scaler. 5″ hardened alloy steel needles are standard. Optional 7″ needles available.


P1-B-LN

P1-B-P SCALERS
This scaler features a push-to-start handle, excellent for use in vertical positions and hard-to-reach areas. The P1-B-P is also available with the 9322 needle attachment. Order as P1-B-PN.


P1-B-P

OPTIONAL EQUIPMENT FOR P1 SERIES
- 9322 Needle attachment (P1-B-L, P1-B-P)
- 9024 7″ Needle (P1-B-LN, P1-B-PN)
- Uses #5342 through #5351 chisels below
- 9043 5″x 3mm needles
- 9043-19 Set of 19 needles
- 9024 7″x3mm needles
- 9024-19 Set of 19 needles
- 9851 Lever backhead assembly
- 9212 Push backhead assembly
- 9315 Barrel w/9963 nose tool & 9700 sleeve

Model Number	Blows/Min	Throttle	Stroke	OAL	Weight	Bore	Air Inlet
P1-B-L	4,600	Lever	1 1/8"	9 1/2"	4 lbs.	1"	3/8"
P1-B-LN	4,600	Lever	1 1/8"	14"	6 lbs.	1"	3/8"
P1-B-P	4,600	Push	1 1/8"	10 1/2"	6 1/2 lbs.	1"	1/4"

CHISELS FOR P1-B-L



Chisels	Description	Width	7″	12″	18″
	Blank		5342	5342-12	5342-18
	Flat chisel	3/4"	5343	5343-12	5343-18
	Scaling chisel	1 3/8"	5344	5344-12	5344-18
	Angle chisel	1 3/8″	5345	5345-12	5345-18
	Wide scraper	2"	5346	5346-12	5346-18
	Wide scraper	3"	5347		
	Diamond point	1/4"	5348		
	Round nose	5/16"	5349		
	Cape chisel	5/16"	5350		
	Panel cutter		5351		

Pneumatic Scalers
Weld Flux & Needle

MADE IN USA

PATCO
Manufacturer of Quality Air Tools and Components

P-182 SCALERS
These tools are excellent for removing weld splatter, rust, paint and other debris from many different and unusual surfaces and in hard-to-reach places. Construction, fabrication shops, and refineries will find these tools to be quite useful. ***P-182 parts are interchangeable with IR-182 style tools.***

P-182-L SCALERS
Excellent for knocking sand from castings, trimming flash, chipping weld splatter, cutting metal, removing paint and gaskets. Available with needle attachment (see P-182-LN).



P-182-L

P-182-LN SCALERS
This scaler has a round tube end and removable needle attachment which allows tool to become a chisel scaler. Equipped with PNA11A5 5" hardened alloy steel needles.



P-182-LN

P-182-P SCALERS
This scaler features a push-to-start handle, excellent for use in vertical positions. Uses include knocking sand from casting, trimming flash, and cutting metal.



P-182-P

P-182-PN SCALERS
This needle scaler features a round tube and push-to-start handle, excellent for removing paint and rust. Can easily be converted back into a standard scaler.

OPTIONAL EQUIPMENT FOR P-182 SERIES
- PNA11A7 Needle attachment with 7" needles
- Uses #5331 through #5340 chisels below
- 9043 5"x 3mm needles
- 9043-19 Set of 19 needles
- 9024 7"x3mm needles
- 9024-19 Set of 19 needles
- 9212 Push backhead assembly
- P-182-AL160 Lever backhead assembly
- R-172 Tune-up kit

Model Number	Blows/Min	Throttle	Stroke	OAL	Weight	Bore	Air Inlet
P-182-L	4,000	Lever	1 1/16"	9"	4 lbs.	15/16"	1/4"
P-182-LN	4,000	Lever	1 1/16"	15"	6 1/4 lbs.	15/16"	1/4"
P-182-P	4,000	Push	1 1/16"	10 1/8"	3 3/4 lbs.	15/16"	1/4"
P-182-PN	4,000	Push	1 1/16"	16 1/8"	6 lbs.	15/16"	1/4"

CHISELS FOR P-182-L

Chisels	Description	Width	7"	12"	18"
	Blank		5331	5331-12	5331-18
	Flat chisel	3/4"	5332	5332-12	5332-18
	Scaling chisel	1 3/8"	5333	5333-12	5333-18
	Angle chisel	1 3/8"	5334	5334-12	5334-18
	Wide scraper	2"	5335		
	Wide scraper	3"	5336		
	Diamond point	1/4"	5337		
	Round nose	5/16"	5338		
	Cape chisel	5/16"	5339		
	Panel cutter		5340		
	Heavy blade flat	1 1/4"	NA		

Pneumatic Scalers
Weld Flux & Needle

MADE IN USA

PATCO
Manufacturer of Quality Air Tools and Components

456 SERIES SCALERS
These tools will handle a variety of different scaling applications including knocking sand and ceramic from castings, removing weld splatter, paint, gaskets, etc. An excellent all-around maintenance tool.

456-L SCALER
Aggressive, heavy-duty scaler, 456 parts are interchangeable CP-0456 style tools.

456-LN SCALER
Durable, heavy-duty scaler has a removable needle attachment which allows tool to become a chisel scaler. Equipped with 5" hardened alloy steel needles. Optional 7" needles available.

456-BL SCALER AND AIR GUN IN ONE
Same durable scaler with a uniquely designed backhead which allows the operator to pull back on the lever and blow the work surface clear of debris.


456-L


456-LN


456-BL

OPTIONAL EQUIPMENT FOR 456 SERIES
- Uses #5320 through #5330 chisels below
- S-4105 7" Needle attachment (456-L)
- 9043 5"x 3mm needles
- 9043-19 Set of 19 needles
- 9024 7"x3mm needles
- 9024-19 Set of 19 needles
- S-4617 Lever backhead assembly (456-L/456-LN)
- S-4727 Blower Lever backhead assembly (456-BL)

Model Number	Blows/Min	Throttle	Stroke	OAL	Weight	Bore	Air Inlet
456-L	4,300	Lever	1"	8 5/8"	3 lbs.	15/16"	1/4"
456-LN	4300	Lever	1"	15 3/8"	5 1/2 lbs.	15/16"	1/4"
456-BL	4,300	Lever Blower type	1"	9 7/8"	4 1/4 lbs.	15/16"	1/4"

CHISELS FOR 456-L AND 456-BL

Chisels	Description	Width	7"	12"	18"
	Blank		5320	5320-12	5320-18
	Flat chisel	3/4"	5321	5321-12	5321-18
	Scaling chisel	1 3/8"	5322	5322-12	5322-18
	Angle chisel	1 3/8"	5323	5323-12	5323-18
	Wide scraper	2"	5324		
	Wide scraper	3"	5325		
	Diamond point	1/4"	5326		
	Round nose	5/16"	5327		
	Cape chisel	5/16"	5328		
	Panel cutter		5329		
	Heavy blade flat	1 1/4"	5330	5330-12	

Pneumatic Scalers
Cross Reference

MADE IN USA

PATCO
Manufacturer of Quality Air Tools and Components

PATCO	C.P.	TEXAS PNE
7009	CA-055009	TX-21015
7071	P-083071	TX-21012
7076	P-083076	TX-21009
7079	C-092079	TX-21008
7173	P-054173	TX-21007
7174	P-054174	TX-21013
7175	P-054175	TX-21004
7177	P-054177	TX-21019
7180	P-054180	TX-21010
7181	P-054181	TX-21014
7182	P-054182	TX-21020
7183	P-054183	TX-21020F
7184	P-054184	TX-21020B
7186	P-054186	TX-21016
7187	P-054187	TX-21005
7207	P-054207	TX-21021
7208	P-122208	TX-21011
7264	P-059264	
7379	P-056379	TX-21023
7380	P-056380	TX-21024
7381	P-056381	TX-21022
7432	P-056432	
7613	S-008613	TX-21018
7685	G-071685	TX-21006
7777	A-082777	TX-21003
7821	S-000821	TX-21017
7886	C-043886	TX-21001
7919	P-059919	TX-21002
7979	P-057919	
9024-19	P-100146	TX-00719

PATCO	C.P.	TEXAS PNE	CLECO
9024	P-136403	TX-00024	834024
9043	P-136744	TX-00043	834043
9044	P-136736	TX-00044	834044
9045	P-136737	TX-00045	834045
9046	WP-123825	TX-00046	834046
9078	WP-125757	TX-00078	832078
9092		TX-00092	831092
9095		TX-00095	832095
9109	WP-123833		831109
9126	WP-123827	TX-00126	832126
9142	WP-123822		832142
9173	WP-123823	TX-00173	832173
9196	WP-123826	TX-00196	832196
9207		TX-00207	832207
9212	P-083076		831219
9302	WP-123830	TX-00302	844302
9313-U		TX-00313	861316
9322	WP-123821		831322
9373		TX-00373	832373
9508	WP-123818	TX-00508	832508
9527		TX-00527	833527
9553	WP-123820		841553
9554		TX-00554	832554
9654		TX-00654	
9583	WP-125753	TX-00583	
9600	WP-125758	TX-00600	833600
9610		TX-00610	832610
9636	WP-125759	TX-00636	832636
9645		TX-00645	843645
9700		TX-00700	832700
9779		TX-00779	834779
9780		TX-00780	834780
9781	WP-123824	TX-00781	834781
9782	WP-123817	TX-00782	834782
9801	WP-125775	TX-00801	842801
9807	WP-125745	TX-00807	832807
9827	C-114089		
9848		TX-00848	834848
9851	WP-123828		831851
9882	WP-123829	TX-00882	832882

PATCO	I.R.
P-182-AL160	WF182-AL160
PNA-122	NS11-122
PNA-20	NS11-20
PNA-21	NS11-21
PNA-22	NS11-22
PNA-24	NS11-24
PNA-25	NS11-25
PNA-27	NS11-27
PNA11A5	NS11-A5
PNA11A7	NS11-A7
R-109A	WF-109A
R-163A	WF-163A
R-167	R2F-167
R-271	R1-271
R-565	ROBIJ61-565
R-71-15	WF171-15
R-71-2	WF171-2
R-71-28	WF171-28
R-71-3	WF171-3
R-71-32	WF171-32
R-71-4	WF171-4
R-71-49	WF171-49
R-71-8	WF171-8
R-81-5	WF181-5
R-82-104	WF182-104
R-82-106A	WF182-106A
R-82-160	WF182-160
R-82-27	WF182-27
R-82-30A	WF182-30A
R-82-716	WF182-716
R-82-A10A	WF182-A10A
R-X2	PX2-626

PATCO	DOTCO
S-4033	P-084033
S-4034	P-084034
S-4037	P-084037
S-4038	P-084038
S-4042	P-084042
S-4043	P-084043
S-4105	P-103105
S-4144	P-100144
S-4145	P-100145
S-4146	P-100146
S-4150	P-100150
S-4271	P-109271
S-4273	P-109273
S-4309	P-043309
S-4310	P-043310
S-4311	P-113310
S-4312	P-113695
S-4416	P-070416
S-4556	P-041556
S-4557	P-041557
S-4582	P-091582
S-4583	P-091583
S-4584	P-091584
S-4585	P-091585
S-4617	P-114617
S-4727	P-113727
S-4736	P-125736
S-4799	C-068799
S-4813	P-088813
S-4815	P-088815
S-4876	P-009876
S-4933	P-050933
S-4934	P-050934
S-4964	P-100964

PATCO	CLECO
9947	832947
9956	832956
9963	832963

PATCO	C.P.	TEXAS PNE
9947	WP-123819	TX-00947
9956	WP-123834	TX-00956
9963	P-136983	TX-00963

Pneumatic Scalers
Chisels

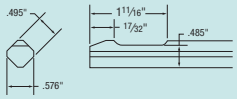
MADE IN USA

AJAX Tools

Weld Flux Scaling Hammer Chisels

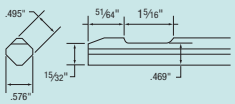


INGERSOLL RAND STYLE SHANK



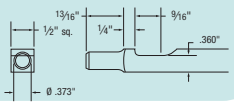
POINT STYLE	CAT. NO.	LENGTH	WIDTH	WT
Blank	381	7"	–	.4 lbs
	381-12	12"	–	.7 lbs
	381-18	18"	–	1.2 lbs
Flat Chisel	382	7"	3/4"	.4 lbs
	382-12	12"	3/4"	.7 lbs
	382-18	18"	3/4"	1.2 lbs
Scaling Chisel	383	7"	1 3/8"	.4 lbs
	383-12	12"	1 3/8"	.7 lbs
	383-18	18"	1 3/8"	1.2 lbs
Wide Scaling Chisel	380	7"	2"	.5 lbs
	380-12	12"	2"	.8 lbs
	380-3	7 1/2"	3"	.8 lbs
Angle Chisel	384	7"	1 3/8"	.4 lbs
	384-12	12"	1 3/8"	.7 lbs
	384-18	18"	1 3/8"	1.2 lbs
Cape Chisel	3229	7"	5/16"	.4 lbs
Round Nose Chisel	3228	7"	5/16"	.4 lbs
Diamond Point	3227	7"	1/4"	.4 lbs
Single Blade Panel Cutter	3221	7"	–	.4 lbs
Heavy Blade Flat (Rounded Point)				

CHICAGO PNEUMATIC STYLE SHANK



CAT. NO.	LENGTH	WIDTH	WT
395	7"	–	.4 lbs
395-12	12"	–	.7 lbs
395-18	18"	–	1.2 lbs
396	7"	3/4"	.4 lbs
396-12	12"	3/4"	.7 lbs
396-18	18"	3/4"	1.2 lbs
397	7"	1 3/8"	.4 lbs
397-12	12"	1 3/8"	.7 lbs
397-18	18"	1 3/8"	1.2 lbs
399	7"	2"	.5 lbs
399-12	12"	2"	.8 lbs
399-3	7 1/2"	3"	.8 lbs
398	7"	1 3/8"	.4 lbs
398-12	12"	1 3/8"	.7 lbs
398-18	18"	1 3/8"	1.2 lbs
3226	7"	5/16"	.4 lbs
3225	7"	5/16"	.4 lbs
3224	7"	1/4"	.4 lbs
3201	7"	–	.4 lbs
3280	7"	1 1/4"	.8 lbs
3280-12	12"	1 1/4"	1.1 lbs
3280-18	18"	1 1/4"	1.6 lbs

CLECO STYLE SHANK



CAT. NO.	LENGTH	WIDTH	WT
391	7"	–	.4 lbs
391-12	12"	–	.7 lbs
391-18	18"	–	1.2 lbs
392	7"	3/4"	.4 lbs
392-12	12"	3/4"	.7 lbs
392-18	18"	3/4"	1.2 lbs
393	7"	1 3/8"	.4 lbs
393-12	12"	1 3/8"	.7 lbs
393-18	18"	1 3/8"	1.2 lbs
390	7"	2"	.5 lbs
390-12	12"	2"	.8 lbs
390-3	7 1/2"	3"	.8 lbs
394	7"	1 3/8"	.4 lbs
394-12	12"	1 3/8"	.7 lbs
394-18	18"	1 3/8"	1.2 lbs
3232	7"	5/16"	.4 lbs
3231	7"	5/16"	.4 lbs
3230	7"	1/4"	.4 lbs
3241	7"	–	.4 lbs

Weld Flux Scaling Hammer Chisel Sets

9025

Ingersoll Rand Style Shank
Contains one each:
#381 Blank 7" OAL
#382 3/4" Wide Chisel 7" OAL
#383 1-3/8" Wide Chisel 7" OAL
#384 1-3/8" Angle Chisel 7" OAL



9026

Cleco Style Shank
Contains one each:
#391 Blank 7" OAL
#392 3/4" Wide Chisel 7" OAL
#393 1-3/8" Wide Chisel 7" OAL
#394 1-3/8" Angle Chisel 7" OAL



9027

Chicago Pneumatic Style Shank
Contains one each:
#395 Blank 7" OAL
#396 3/4" Wide Chisel 7" OAL
#397 1-3/8" Wide Chisel 7" OAL
#398 1-3/8" Angle Chisel 7" OAL



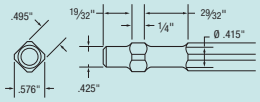
Pneumatic Scalers
Chisels

MADE IN USA

AJAX Tools

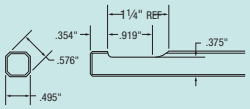
Weld Flux Scaling Hammer Chisels

MASTER POWER STYLE SHANK



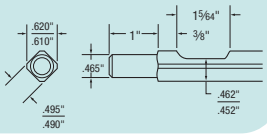
CAT. NO.	LENGTH	WIDTH	WT.
385	7"	—	.4 lbs
385-12	12"	—	.7 lbs
385-18	18"	—	1.2 lbs
386	7"	3/4"	.4 lbs
386-12	12"	3/4"	.7 lbs
386-18	18"	3/4"	1.2 lbs
387	7"	1 3/8"	.4 lbs
387-12	12"	1 3/8"	.7 lbs
387-18	18"	1 3/8"	1.2 lbs
388	7"	1 3/8"	.4 lbs
388-12	12"	1 3/8"	.7 lbs
388-18	18"	1 3/8"	1.2 lbs
389	7"	2"	.5 lbs

ATLAS COPCO STYLE SHANK



CAT. NO.	LENGTH	WIDTH	WT.
3250	7"	—	.4 lbs
3250-12	12"	—	.7 lbs
3251	7"	3/4"	.4 lbs
3251-12	12"	3/4"	.7 lbs
3252	7"	13/8"	.4 lbs
3252-12	12"	13/8"	.7 lbs
3253	7"	1 3/8"	.4 lbs
3253-12	12"	1 3/8"	.7 lbs

FUJI STYLE SHANK

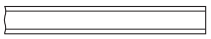


CAT. NO.	LENGTH	WIDTH	WT
3254	7"	3/4"	.4 lbs
3255	7"	1 3/8"	.4 lbs
3256	7"	1 3/8"	.4 lbs

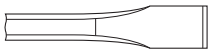


POINT STYLE

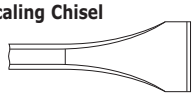
Blank



Flat Chisel



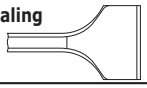
Scaling Chisel



Angle Chisel



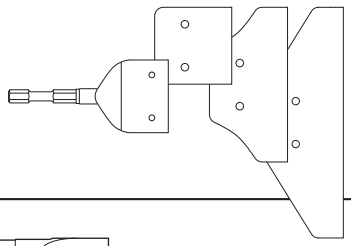
Wide Scaling Chisel



Pneumatic Scaling Hammer Chisels for long reach scalers

3284 4" Wide with Holes Length: 8 3/4"
3285 4" Wide Flex Blade
3286 8" Wide Flex Blade
3287 12" Wide Flex Blade

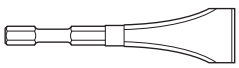
Flex Blades come with 2 ea.: Bolt, Washer, Nut



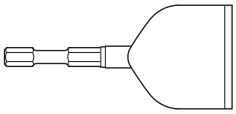
3281 Width: 1" Length: 8"



3282 Width: 2" Length: 8"



3283 Width: 4" Length: 8 3/4"



19/32" HEX SHANK

These chisels fit the following scalers:
Edco
ALR-2, ALR-4, ALR-5
MacDonald
LPS3, SPS5
Master Power
5195
Trelawny
136.3299, 136.3499, 136.3599, 136.3699

WARNING: Wear Safety Goggles

Pneumatic Scalers
Parts & Accessories

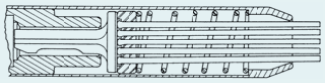
MADE IN USA

AJAX Tools

Weld Flux Scaler Parts & Accessories



NEEDLE SCALER ATTACHMENT



Conversion Units – make any weld flux hammer an instant needle scaler with units listed.

Cat. No.	Driver	Holder	Needle Set	Spring	Tube
1390	374	375	1376	1371	1380
	For C.P.T. 456 & Jet				
1391	371	375	1376	1371	1380
	For I-R Series 171 & 181				
1392	373	375	1376	1371	1370
	For Cleco B1A, Aro 8500, C.P.T. 9356 & Ajax 1045				
1393	371	375	1376	1371	1360
	For I-R Series 172 & 182				

AUTOMOTIVE

Auto body repair shops use needle scalers to remove rust.

INDUSTRIAL

In steel fabrication such as shipbuilding or heavy equipment manufacturing, weld flux chisels are used to clean slag off of welds. Foundries use these to clean fins (excess metal) on castings.

CONSTRUCTION

Weld flux chisels are used for maintenance and repair of bridges, with rust removal being done by either chisels or needle scalers.

1301 Retainer



1302 Retainer Buffer



1303 Retainer Clip



371 Driver / Anvil



373 Driver / Anvil



374 Driver / Anvil



Bulk Needles

Cat. No.	Diam.	Length	Point Style	Min. Qty.
368	1/8"	4"	FLAT	500
369	2 mm	7"	FLAT	500
376	1/8"	5"	FLAT	500
377	1/8"	7"	FLAT	500
379	3 mm	7"	FLAT	500

Individual Needles

Cat. No.	Diam.	Length	Point Style
5521	3 mm	7"	CHISEL TIP
5522	4 mm	7"	FLAT
5523	4 mm	7"	CHISEL TIP
5525	3 mm	7"	FLAT (Beryllium Copper)

Needle Sets

Cat. No.	Diam.	Length	Qty. per Set	Point Style
1368	1/8"	4"	11	FLAT
1369	2 mm	7"	19	FLAT
1376	1/8"	5"	19	FLAT
1377	1/8"	7"	19	FLAT
1379	3 mm	7"	19	FLAT
1379-12	3 mm	7"	12	FLAT
1379-23	3 mm	7"	23	FLAT
1379-28	3 mm	7"	28	FLAT



Mfg'r	Part No.	Description	Cat. No.
B&D	51700	Needle Set (19)	1376
C.P.T.	P117630	Tube	1380
	WP123818	Buffer	1302
	WP123819	Retainer	1301
	WP123820	Retainer Clip	1303
	P100144	Anvil	374
	P100145	Holder	375
	P100146	Needle Set (19)	1377
	NP123901	Needle Set (12)	1379-12
	NP123902	Needle Set (23)	1379-23
	NP123904	Needle Set (28)	1379-28
Cleco	832956	Retainer	1301
	833527	Buffer	1302
	832554	Retainer Clip	1303
	834045	Driver	373
	834046	Holder	375
	834043	Needle Set (19) 5"	1376
	834779	Tube	1370
	834044	Spring	1371
	834024	Needle Set (19) 7"	1377
I-R	NS11-20	Driver (03328093)	371
	NS11-21	Holder (03328101)	375
	NS1-24	Tube (03043676)	1380
	NS11-22	Needle (19)	1376
	NS11-122	Needle (19) 7"	1377
	NS1-27	Spring (03043718)	1381
Sioux	2260	Needle Set (19)	1376
	54195	Holder	375
	54213	Driver	371
Stanley	P3053	Driver	371
	P3054	Holder	375
	P3055	Needle Set (19)	1376

Bar Clamps
Light Duty

MADE IN USA

BESSEY®

Bar clamps for industrial application

Shop floor all-steel bar clamps



Shop floor all-steel bar clamps
Made in Germany, the Shop Floor series of clamps offers a unique value proposition to the professional. Its mid-range pricing offers the highest quality and value but, does not come with all the enhanced features of the High-Performance product offering.

1 Patented rail profile
The patented rail profile offers greater stability, enhanced clamping force and 20% more clamping force per spindle turn, for quicker set-up times (for 660 & 1200 series models).

2 Standard pads and heavy duty pads
The standard swivel pads and heavy duty pads are proven contact surfaces for the Shop Floor clamps.

3 Hardened spindle
The heat-treated, high carbon Acme threaded spindle offers high load capacity, durability and spatter resistance.

4 Size engineered T-Bar
The high-strength sliding pin T-Bar is sized according to the clamp's capability.

5 Drop forged sliding arm
U-shaped sliding arm transfers clamping force evenly across the surface of the forged piece. This improves power transmission, stability and results in a longer lasting tool (for 660S and 1200S).







A Light duty, MMS series
Sometimes the right tool has nothing to do with size. The MMS clamps are easy to use, quick to adjust and offer great value. At 400 lbs of clamping force they offer a high level of performance. Comes with standard rail profile, standard crimped on swivel pads.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
MMS-4	4"	2 ¼"	400 lbs	0.60 lbs
MMS-8	8"	2 ¼"	400 lbs	0.75 lbs
MMS-12	12"	2 ¼"	400 lbs	0.85 lbs



B Light to medium duty, 660-S and 1200-S series
Premium features and value make this series of clamps ever more popular. The 660-S and 1200-S are unique in the BESSEY® Shop Floor series in that they have the upgraded rail profile and force optimized sliding arm like the 2400 & 1800 Series. Comes with: Patented rail profile, replaceable swivel pads.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
660-S8	8"	4"	726 lbs	2.05 lbs
660-S12	12"	4"	726 lbs	2.35 lbs
660-S18	18"	4"	726 lbs	2.90 lbs
1200-S8	8"	5 ½"	1320 lbs	3.75 lbs
1200-S12	12"	5 ½"	1320 lbs	4.20 lbs
1200-S18	18"	4 ¾"	1320 lbs	4.85 lbs
1200-S24	24"	4 ¾"	1320 lbs	5.30 lbs

C-Clamps
Regular Duty

MADE IN USA

BESSEY®

C Regular duty CDF, deep throat C-clamps

The CDF series "C" clamps have heavy-duty drop-forged, heat-treated frames with a black powder coat finish, the handle, spindle and pressure pad assemblies have a black oxide finish.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
CDF402	0-2"	2 1/8"	3,500 lbs	1.40 lbs
CDF403	0-3"	2 3/8"	3,500 lbs	1.90 lbs
CDF404	0-4"	3 1/4"	6,200 lbs	3.50 lbs
CDF406	0-6"	4 1/8"	6,900 lbs	5.40 lbs
CDF408	0-8"	5"	6,900 lbs	7.90 lbs
CDF410	0-10"	6"	8,000 lbs	11.60 lbs
CDF412	0-12"	6 1/4"	9,300 lbs	14.10 lbs





D Regular duty CDFCHV, deep throat C-clamps – HiVis

The CDF400CHV series "C" clamps have heavy-duty drop-forged, heat-treated frames with a high visibility yellow powder coat finish, the handle, spindle & pressure pad assemblies are copper plated to resist weld spatter.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
CDF402CHV	0-2"	2 1/8"	3,500 lbs	1.40 lbs
CDF403CHV	0-3"	2 3/8"	3,500 lbs	1.90 lbs
CDF404CHV	0-4"	3 1/4"	6,200 lbs	3.50 lbs
CDF406CHV	0-6"	4 1/8"	6,900 lbs	5.40 lbs
CDF408CHV	0-8"	5"	6,900 lbs	7.90 lbs
CDF410CHV	0-10"	6"	8,000 lbs	11.60 lbs
CDF412CHV	0-12"	6 1/4"	9,300 lbs	14.10 lbs





E Regular duty CDFUS, deep throat C-clamps

Made in the U.S.A. Black frame with black oxide spindle that resist corrosion.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
CDF402US	0-2"	2 1/8"	3,500 lbs	1.40 lbs
CDF403US	0-3"	2 3/8"	3,500 lbs	1.90 lbs
CDF404US	0-4"	3 1/4"	6,200 lbs	3.50 lbs
CDF406US	0-6"	4 1/8"	6,900 lbs	5.40 lbs
CDF408US	0-8"	5"	6,900 lbs	7.90 lbs
CDF410US	0-10"	6"	8,000 lbs	11.60 lbs
CDF412US	0-12"	6 1/4"	9,300 lbs	14.10 lbs





F 540 series ductile alloy C-clamps

Cast ductile iron frame has approximately twice the tensile strength of similarly capacity clamps made of malleable cast iron. This clamp recommended for lighter duty, such as light assembly, sheet metal fabrication, woodworking, auto repair etc.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
540-2 ½	0-2 1/2"	1 3/4"	1100 lbs	1.20 lbs
540-3	0-3"	1 7/8"	1800 lbs	1.60 lbs
540-4	0-4"	2 1/16"	2150 lbs	2.23 lbs
540-5	0-5"	2 1/2"	2250 lbs	2.69 lbs
540-6	0-6"	2 3/4"	2450 lbs	3.20 lbs
540-8	0-8"	3 1/4"	2750 lbs	4.74 lbs
540-10	0-10"	3 5/8"	2850 lbs	7.56 lbs
540-12	0-12"	3 5/8"	2850 lbs	8.18 lbs
540-14	0-14"	3 3/4"	2850 lbs	8.93 lbs





Bar Clamps
Regular Duty

BESSEY®

Bar clamps for industrial application

High performance all-steel bar clamps



High performance all-steel bar clamps
High performance bar clamps from BESSEY® represent the peak of the all-steel bar clamp category. Made in Germany, the high performance series delivers uncompromising quality, patented features, durability and real-world productivity to make it a must-have tool in today's modern workshop.

1 Patented rail profile
For greater stability, enhanced clamping force and 20% more clamping force per spindle turn for quicker set-up times (1800-S and 2400S series).

2 BESSEY® MorPad
Designed to reduce friction at the point of contact, increasing and optimizing clamping force. Using BESSEY® product with the MorPad extends tool life and, at full clamping potential.

3 Hardened spindle
Heat-treated, high carbon Acme threaded spindle manufactured for high load capacity, durability and spatter resistance.

4 Size engineered T-Bar
Ergonomic, high-strength sliding pin T-Bar. BESSEY® Grip comes standard with 1800-S/2400S.

5 Drop forged sliding arm
U-shaped sliding arm transfers clamping force evenly across the surface of the forged piece improving power transmission and stability for a longer lasting tool.







A Regular duty, S series
BESSEY®'s fast acting all-steel bar clamps are the workhorse of many professional shops. These clamps can be set up an estimated 9X faster than a C-clamp. Comes with: Patented rail profile, MorPad, ergonomic BESSEY® grip.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
1800-S8	8"	4 ¾"	1980 lbs	4.00 lbs
1800-S12	12"	4 ¾"	1980 lbs	4.40 lbs
1800-S18	18"	4 ¾"	1980 lbs	5.30 lbs
1800-S24	24"	4 ¾"	1980 lbs	6.30 lbs
2400S-8	8"	5 ½"	2800 lbs	6.45 lbs
2400S-12	12"	5 ½"	2800 lbs	6.80 lbs
2400S-16	16"	5 ½"	2800 lbs	7.40 lbs
2400S-20	20"	5 ½"	2800 lbs	8.10 lbs
2400S-24	24"	5 ½"	2800 lbs	8.80 lbs
2400S-36	36"	5 ½"	2800 lbs	11.40 lbs
2400S-48	48"	5 ½"	2800 lbs	12.30 lbs
2400S-60	60"	5 ½"	2800 lbs	14.25 lbs



B Regular duty, deep throat version, DT2400 series
This series has an extended throat depth of 8 In for that extra reach that is sometimes needed. Comes with: Standard rail profile, MorPad, ergonomic BESSEY® grip.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
DT 2400-12	12"	8"	1770 lbs	7.50 lbs
DT 2400-24	24"	8"	1770 lbs	9.60 lbs

Bar Clamps
Medium Duty

BESSEY®

C Medium duty all-steel bar clamp, S series

The standard profiled rail and heavy duty pad of this series make it one of the best all-steel bar clamps in the world. Produced in Germany from cold-drawn German steel – like the rest of the Shop Floor and High Performance series. Includes standard rail profile, heavy duty pad.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
SGL-8	8"	4 ¾"	1800 lbs	4.00 lbs
SGL-12	12"	4 ¾"	1800 lbs	4.75 lbs
SGL-18	18"	4 ¾"	1800 lbs	5.85 lbs
SGL-24	24"	4 ¾"	1800 lbs	6.35 lbs
SQ-4*	6"	4 ¾"	1330 lbs	2.35 lbs
SQ-8	8"	5 ½"	2660 lbs	6.00 lbs
SQ-12	12"	5 ½"	2660 lbs	6.70 lbs
SQ-16	16"	5 ½"	2660 lbs	7.40 lbs
SQ-20	20"	5 ½"	2660 lbs	8.10 lbs
SQ-24	24"	5 ½"	2660 lbs	8.75 lbs

*SQ-4 has a standard pad.





D Heavy duty all-steel bar clamp, STB series

The STB heavy duty bar clamp offers heavy-duty value. German produced classic profiled rails, hardened spindles (with 19 mm hex head) and sizes up to 36" makes this a real-world solution for heavy duty applications on a tighter budget. Comes with standard rail profile, crimped on swivel pad.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
STB-12	12"	7"	4880 lbs	12.20 lbs
STB-18	18"	7"	4880 lbs	14.70 lbs
STB-24	24"	7"	4880 lbs	16.00 lbs
STB-36	36"	7"	4880 lbs	20.60 lbs





E Heavy duty pad

3100736 1200, SGL, SQ, STB, GSL and GSM Series
3101192 Rough face - 1200, SGL, SQ, GSL and GSM Series
3101193 V Groove - 1200, SGL, SQ, GSL and GSM Series

F Standard pad

3101339 MMS (4 pc) (must be crimped on)
3101180 GS16K, GS12-8K (4 pc)
3101183 RSC-8, 660S, J18, GS16-12K, GS25K, GS20K, SQ-4 (4 pc)
3101188 1200, RSC-12, 18 & 24, SQ, SGL(pre 2008), SG30VAD, GS30K (4 pc)





G Grip handles

3006727 RSC-8, 660S, SQ-4
3006786 RSC-12, 18 & 24, 1200, 1800-S, 2400S, SQ, SGL, SG30VAD



H Complete sub-assembly

3100398 1200/SGL Screw (.700" Dia.)
3100399 SQ, GSL, GSM (.775" Dia.)
3100400 STB (.850" Dia.)



I Spindle

3100119 GS20K, RSC-8
3100120 GS16-12K, GS25K, 660S, J18, SQ-4
3100121 GS30K, 1200S, RSC-12/18/8, GS60K, SGL



J Sliding arm assembly

			Throat Depth
3101330	SQ Series, GSM		5 ½"
3101441	660 Series	*	4"
3101447	1200 Series (5 ½" throat)	*	5 ½"
3101450	1200 Series (4 ¾" throat)	*	4 ¾"
3100263	GS20K, RSC-8	*	4"
3100264	SQ-4, J18, GS25K, GS16-2K	*	4 ¾"
3100265	GS30K, RSC-12	*	5 ½"
3100266	GS60K, RSC-18/24	*	4 ¾"
3100267	SGL, GSL	*	4 ¾"
3101338	GSL, SGL		4 ¾"

*includes standard pad



C-Clamps
Heavy Duty

MADE IN USA

BESSEY®



C-clamps

C-clamps are used for many trades and if you're going to use a C-clamp why not use the best... BESSEY® has a wide variety of C-clamps to choose from, ranging from light duty to heavy service.

The heaviest & strongest of the drop-forged "C" clamps are the B-HS series. The BESSEY® Heavy Service series of clamps are sometimes referred to as "bridge clamps". These are made for the heaviest of steel construction & fabrication projects. Heavy square head on end of spindle designed to be used with wrenches & power tools - they do not have sliding pin T-handles like lesser clamps.

1. **Drop forged**
   For a longer lasting tool.
2. **Square head for maximum torque**
3. **Heat-treated frames**
   Designed for heavy industrial and construction applications
4. **Clamping force**
   Clamping forces up to 40,000 lbs









A Heavy service HS series (fully closing)

The toughest of the C-clamps with a clamping pressure of up to 40,000 lbs. Square head on the spindle.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
B-HS0	0-3/4"	11/16"	2,800 lbs	0.33 lbs
B-HS1	0-1 3/8"	1 3/32"	5,600 lbs	1.00 lbs
B-HS1.5	0-1 3/4"	1 7/16"	8,750 lbs	1.80 lbs
B-HS2	0-2 3/8"	1 7/8"	12,500 lbs	4.50 lbs
B-HS3	0-3 5/16"	2 5/16"	16,250 lbs	7.10 lbs
B-HS4	0-4 1/2"	2 3/4"	20,000 lbs	11.00 lbs
B-HS5	0-5 1/4"	3 1/16"	23,800 lbs	14.90 lbs
B-HS6	0-6 3/8"	3 3/8"	27,500 lbs	19.30 lbs
B-HS8	0-8 1/4"	3 5/8"	31,250 lbs	27.50 lbs
B-HS10	0-10 1/4"	3 15/16"	35,000 lbs	40.10 lbs
B-HS12	0-12 3/8"	4 1/4"	40,000 lbs	47.80 lbs

B Heavy duty 100 series C-clamps

The 100 series of drop-forged "C" clamps are made in the USA & have been carefully engineered for greater strength than the CDF series are ideal for heavy industrial & construction applications. These clamps have sliding pin T-handle as well as a square head for maximum torque & flexibility.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
B-102	0-2"	1 1/2"	7,500 lbs	1.50 lbs
B-103	0-3"	2"	8,750 lbs	2.65 lbs
B-104	0-3 1/2"	2 1/4"	10,000 lbs	4.15 lbs
B-106	2-5 1/2"	2 1/2"	11,250 lbs	6.00 lbs
B-108	4-7 1/2"	2 5/8"	12,500 lbs	7.80 lbs
B-110	6-9 1/2"	2 3/4"	13,750 lbs	8.70 lbs
B-112	8-11 1/2"	2 7/8"	15,000 lbs	12.10 lbs

Bar Clamps
Heavy Duty

MADE IN USA

BESSEY®

C Heavy duty all-steel bar clamps, 4800S series

With nearly twice the clamp force capacity of the 2400S Series and available clamp lengths up to 60", the 4800S series is a top selling industrial tool at BESSEY®. The spindle has a 19 mm hexagonal head to assist in tightening (torque of 70Nm or less). Comes with: Standard rail profile, MorPad.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
4800S-12	12"	7"	4880 lbs	12.40 lbs
4800S-18	18"	7"	4880 lbs	14.70 lbs
4800S-24	24"	7"	4880 lbs	16.20 lbs
4800S-36	36"	7"	4880 lbs	20.75 lbs
4800S-48	48"	7"	4880 lbs	23.85 lbs
4800S-60	60"	7"	4880 lbs	26.90 lbs





D Extra heavy duty, 7200S series

'Robust' would hardly begin to describe these highly capable (and unique to BESSEY®) clamps which are designed for extra heavy industrial applications. The spindle has a 36 mm hexagonal head to assist in tightening (torque of 100 Nm or less). Comes with: Standard rail profile, specially designed MorPad.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
7200S-12	12"	8"	7770 lbs	23.10 lbs
7200S-18	18"	8"	7770 lbs	26.85 lbs
7200S-36	36"	8"	7770 lbs	36.45 lbs





E Extra high pressure, 8500HPC

This clamp has a narrower throat depth which enables a much higher clamping force than a comparably sized clamp with a larger throat depth. Comes with: Standard rail profile, MorPad.

	Clamping Capacity	Throat Depth	Clamping Force	Approx. Weight
8500HPC-14	14"	4"	8500 lbs	11.65 lbs



F MorPads

3100736 12/18/24/4800 series
3101192 Rough face -12/18/24/4800 series
3101193 V Groove - 12/18/24/4800 series
3100737 7200S series



G Complete MorPad assembly

3100398 1200/1800 Spindle (.700" Dia.)
3100399 2400 Spindle (.775" Dia.)
3100400 4800/8500 Spindle (.850" Dia.)
3100401 7200 Spindle (.925 Dia.)



H Variable angle device

VAD Fits up to 2400 series, SQ



I Wedges

3000689 For 7200S
3005122 For 8500HPC
3100579 Nut and lock ring, 7200S



J Sliding arm assembly

3101521	1800S Series	4 ¾"
3101407	2400S Series	5 ½"
3101331	DT 2400 Series	8"
3101332	4800S Series	7"
3100205	7200S Series	8"
3100753	8500HPC Series	4"



Rigger Hand Tools
Erection Wrenches

MADE IN USA

KLEIN TOOLS, INC.

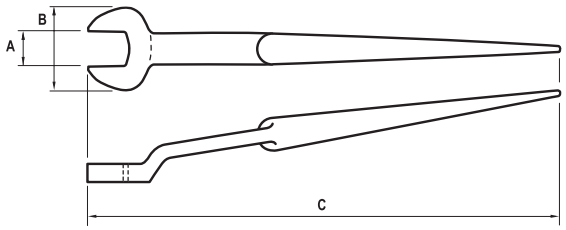


Erection Wrenches

WORK@HEIGHT



- Forged from select alloy steel to withstand high-leverage and heavy loads
- Extra-heavy-duty head area for maximum strength and durability
- Continuous taper of handle makes lining up bolt holes easy and works on a range of bolt-hole sizes without binding
- Extra-large hub area works on larger diameter holes better than other wrenches
- Catalog number, bolt size and nominal opening size are stamped on every wrench for easy identification
- "TT" Series feature tether hole to secure tool when working at height



A - Bolt Size/Nominal Opening
B - Head Width
C - Overall Length

Cat. No.	Nut Type	Bolt Size	Nom. Opening	Head Width	Taper Diameter	Overall Length	Weight
3210	U.S. Heavy	1/2" (12.7 mm)	7/8" (22.2 mm)	2-1/4" (57.2 mm)	7/8" to 3/16" (22.2 to 4.8 mm)	14-3/4" (374.7 mm)	1.4 lb (0.6 kg)
3211	U.S. Heavy	5/8" (15.9 mm)	1-1/16" (27.0 mm)	2-1/4" (57.2 mm)	7/8" to 3/16" (22.2 to 4.8 mm)	14-3/4" (374.7 mm)	1.3 lb (0.6 kg)
3212	U.S. Heavy	3/4" (19.1 mm)	1-1/4" (31.8 mm)	2-1/2" (63.5 mm)	1" to 1/4" (25.4 to 6.4 mm)	16-5/8" (422.3 mm)	2.0 lb (0.9 kg)
3213	U.S. Heavy	7/8" (22.2 mm)	1-7/16" (36.5 mm)	3" (76.2 mm)	1-1/8" to 9/32" (28.6 to 7.1 mm)	17-3/8" (441.3 mm)	2.7 lb (1.2 kg)
3214	U.S. Heavy	1" (25.4 mm)	1-5/8" (41.3 mm)	3-5/8" (92.1 mm)	1-1/8" to 1/4" (28.6 to 6.4 mm)	18" (457.2 mm)	3.4 lb (1.5 kg)
3219	U.S. Regular	1/2" (12.7 mm)	3/4" (19.1 mm)	2-1/4" (57.2 mm)	7/8" x 1/2" (22.2 to 12.7 mm)	14-3/4" (374.7 mm)	1.4 lb (0.6 kg)
3220	U.S. Regular	1/2" (12.7 mm)	13/16" (20.6 mm)	2-1/4" (57.2 mm)	7/8" to 3/16" (22.2 to 4.8 mm)	14-3/4" (374.7 mm)	1.4 lb (0.6 kg)
3221	U.S. Regular	5/8" (15.9 mm)	1" (25.4 mm)	2-1/4" (57.2 mm)	7/8" to 3/16" (22.2 to 4.8 mm)	14-3/4" (374.7 mm)	1.3 lb (0.6 kg)
3222	U.S. Regular	3/4" (19.1 mm)	1-1/8" (28.6 mm)	2-1/2" (63.5 mm)	1" to 1/4" (25.4 to 6.4 mm)	16-5/8" (422.3 mm)	2.0 lb (0.9 kg)
3223	U.S. Regular	7/8" (22.2 mm)	1-5/16" (33.3 mm)	3" (76.2 mm)	1-1/8" to 9/32" (28.6 to 7.1 mm)	17-3/8" (441.3 mm)	2.9 lb (1.3 kg)
3224	U.S. Regular	1" (25.4 mm)	1-1/2" (38.1 mm)	3-5/8" (92.1 mm)	1-1/8" to 1/4" (28.6 to 6.4 mm)	18" (457.2 mm)	3.4 lb (1.5 kg)
3231	Utility	5/8" (15.9 mm)	15/16" (23.8 mm)	2-1/4" (57.2 mm)	7/8" to 3/16" (22.2 to 4.8 mm)	14-3/4" (374.7 mm)	1.3 lb (0.6 kg)
3232	Utility	3/4" (19.1 mm)	1-1/16" (27.0 mm)	2-1/2" (63.5 mm)	1" to 1/4" (25.4 to 6.4 mm)	16-5/8" (422.3 mm)	2.0 lb (0.9 kg)
Erection wrenches with tether hole for working at height							
3212TT	U.S. Heavy	3/4" (19.1 mm)	1-1/4" (31.8 mm)	2-1/2" (63.5 mm)	1" to 1/4" (25.4 to 6.4 mm)	16-5/8" (422.3 mm)	2.0 lb (0.9 kg)
3213TT	U.S. Heavy	7/8" (22.2 mm)	1-7/16" (36.5 mm)	3" (76.2 mm)	1-1/8" to 9/32" (28.6 to 7.1 mm)	17-3/8" (441.3 mm)	2.7 lb (1.2 kg)
3214TT	U.S. Heavy	1" (25.4 mm)	1-5/8" (41.3 mm)	3-5/8" (92.1 mm)	1-1/8" to 1/4" (28.6 to 6.4 mm)	18" (457.2 mm)	3.4 lb (1.5 kg)

Rigger Hand Tools
Pins & Wrenches

MADE IN USA

AJAX Tools

Riggers Tools: Wrenches, Pins/Barrel, Drift, Pull, Broad Head

Adjustable Spud Wrenches



Cat. No.	Overall Length	Weight
728	15" (381MM)	2-1/2 LB.

1/2" Drive Ratchet Spud Wrench



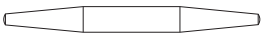
Cat. No.	Overall Length	Weight
729	15" (381MM)	2-1/4 LB.

Single End Drift Pin



Cat. No.	Std. Diameter	Overall Length	Length of Taper	Point Size	Weight
601	7/16" (11MM)	6" (152MM)	2-1/2" (64MM)	3/16" (5MM)	4 LB.
602	9/16" (14MM)	6" (152MM)	2-3/4" (70MM)	1/4" (6MM)	1/3 LB.
603	11/16" (17MM)	6" (152MM)	2-3/4" (70MM)	5/16" (8MM)	1/2 LB.
624	13/16" (21MM)	8" (203MM)	3-3/4" (95MM)	5/16" (8MM)	1 LB.
625	15/16" (24MM)	8" (203MM)	3-3/4" (95MM)	3/8" (13MM)	1-1/4 LB.
626	1-1/16" (27MM)	8" (203MM)	3-3/4" (95MM)	1/2" (14MM)	1-5/8 LB.

Barrel Drift Pin



Cat. No.	Std. Diameter	Overall Length	Length of Taper	Point Size	Weight
611	7/16" (11MM)	6" (152MM)	2" (51MM)	3/16" (5MM)	1/4 LB.
612	9/16" (14MM)	6" (152MM)	2" (51MM)	1/4" (6MM)	1/3 LB.
613	11/16" (17MM)	6" (152MM)	2" (51MM)	5/16" (8MM)	1/2 LB.
633	11/16" (17MM)	7-1/2" (201MM)	2" (51MM)	5/16" (8MM)	5/8 LB.
614	13/16" (21MM)	6" (152MM)	2" (51MM)	7/16" (11MM)	3/4 LB.
634	13/16" (21MM)	8" (203MM)	2-1/2" (64MM)	3/8" (13MM)	7/8 LB.
615	15/16" (24MM)	6" (152MM)	2" (51MM)	1/2" (14MM)	7/8 LB.
635	15/16" (24MM)	8" (203MM)	2-1/2" (64MM)	7/16" (11MM)	1-1/8 LB.
636	1-1/16" (27MM)	8" (203MM)	2-1/2" (64MM)	9/16" (14MM)	1-1/2 LB.
637	1-3/16" (30MM)	8" (203MM)	2-1/2" (64MM)	3/4" (19MM)	2 LB.
638	1-5/16" (33MM)	8" (203MM)	2-1/2" (64MM)	3/4" (19MM)	2-1/3 LB.

Long Taper Drift Pin



Cat. No.	Std. Diameter	Overall Length	Length of Taper	Point Size	Weight
642	9/16" (14MM)	7" (178MM)	6" (152MM)	1/8" (3MM)	1/3 LB.
643	11/16" (17MM)	7-1/2" (201MM)	6-1/2" (165MM)	3/16" (5MM)	1/2 LB.
644	13/16" (21MM)	8" (203MM)	7" (178MM)	3/16" (5MM)	5/8 LB.
645	15/16" (24MM)	8" (203MM)	7" (178MM)	1/4" (6MM)	7/8 LB.
646	1-1/16" (27MM)	8" (203MM)	7" (178MM)	5/16" (8MM)	1-1/8 LB.

NOTE: *Other sizes available upon request. Barrel Drift Pins are the same size as the "Hole" and are 1/16" larger than the "Bolt".*

WARNING: Wear Safety Goggles

Spud Wrenches



Ajax No.	Wrench Opening	Diameter of Head	Thickness of Head	Length	Handle at Head	Offset at End	Wt. Ea. Lbs.
		A	B	C	D	E	
730	9/16"	1-9/16"	7/16"	12"	13/16"	1-11/16"	.56
731	5/8"	1-9/16"	7/16"	12"	13/16"	1-11/16"	.56
732	11/16"	1-9/16"	7/16"	12"	13/16"	1-11/16"	.56
733	3/4"	1-9/16"	7/16"	12"	13/16"	1-7/8"	.70
734	13/16"	2"	17/32"	14-1/2"	15/16"	1-7/8"	1.3
735	7/8"	2"	17/32"	14-1/2"	15/16"	1-7/8"	1.3
736	15/16"	2"	17/32"	14-1/2"	15/16"	1-7/8"	1.3
737	1"	2"	17/32"	14-1/2"	15/16"	2-3/8"	1.3
738	1-1/16"	2-1/4"	5/8"	17"	1-1/16"	2-3/8"	1.9
739	1-1/8"	2-1/4"	5/8"	17"	1-1/16"	2-3/4"	1.9
740	1-1/4"	2-13/16"	11/16"	19"	1-1/4"	2-3/4"	2.6
741	1-5/16"	2-13/16"	11/16"	19"	1-1/4"	3-1/16"	2.6
742	1-7/16"	3-1/8"	3/4"	20	1-1/4"	3-3/8"	3.5
743	1-1/2"	3-1/8"	3/4"	20"	1-1/4"	3-3/8"	3.5
744	1-5/8"	3-19/32"	13/16"	23"	1-1/2"	3-3/8"	4.8
745	1-11/16"	3-19/32"	13/16"	23"	1-1/4"	3-11/16"	4.7
746	1-13/16"	4-1/8"	13/16"	24"	1-5/8"	3-11/16"	6.6
747	1-7/8"	4-1/8"	13/16"	24"	1-5/8"	3-11/16"	6.6
748	2"	4-1/8"	13/16"	24"	1-5/8"	3-11/16"	6.5

Pull Pin



Cat. No.	Std. Diameter	Overall Length	Length of Taper	Point Size	Weight
651-12	15/16" (24MM)	12" (305MM)	10" (254MM)	5/16" (8MM)	1-1/2 LB.
652-12	1-1/16" (27MM)	12" (305MM)	10" (254MM)	3/8" (13MM)	1-5/8 LB.
653-12	1-3/16" (30MM)	12" (305MM)	10-1/2" (267MM)	7/16" (11MM)	2 LB.
654-12	1-1/4" (32MM)	12" (305MM)	10-1/2" (267MM)	7/16" (11MM)	2-1/3 LB.
651	15/16" (24MM)	15" (381MM)	10" (254MM)	5/16" (8MM)	2 LB.
652	1-1/16" (27MM)	15" (381MM)	10" (254MM)	3/8" (13MM)	2-1/2 LB.
653	1-3/16" (30MM)	15" (381MM)	10-1/2" (267MM)	7/16" (11MM)	3 LB.
654	1-1/4" (32MM)	15" (381MM)	10-1/2" (267MM)	7/16" (11MM)	3-1/4 LB.

Welding Pin



Cat. No.	Std. Diameter	Overall Length	Length of Taper	Point Size	Weight
656	15/16" (24MM)	12" (305MM)	11" (279MM)	3/16" (5MM)	1-1/8 LB.
657	1-1/16" (27MM)	12" (305MM)	11" (279MM)	1/4" (6MM)	1-1/1 LB.
658	1-3/16" (30MM)	12" (305MM)	11" (279MM)	1/4" (6MM)	1-7/8 LB.

Button Head Pin



Cat. No.	Std. Diameter	Overall Length	Length of Taper	Point Size	Weight
648	1-1/16" (27MM)	13" (330MM)	10-5/8" (267MM)	1/4" (6MM)	2-1/4 LB.

Broad Head Bull Pin



Cat. No.	Std. Diameter	Overall Length	Length of Taper	Point Size	Weight
649	1-1/16" (27MM)	10" (254MM)	8" (203MM)	1/4" (6MM)	1-5/8 LB.
650	1-1/4" (32MM)	13" (330MM)	10" (254MM)	5/16" (8MM)	3 LB.

Rigger Hand Tools
Pry Bars

MADE IN USA

AJAX Tools

Riggers Tools — Pry Bars

Chisel Bars



Extra long heavy duty chisels. One end forged to chisel point — other end with chisel head for striking.

Cat. No.	Stock Size	Length	Weight
695	5/8" (16mm) Hex	18" OAL (457mm)	1.5 lb.
696	3/4" (19mm) Hex	24" OAL (610mm)	3 lb.
697	7/8" (22mm) Hex	30" OAL (762mm)	5.25 lb.
698	1" (25mm) Hex	36" OAL (914mm)	8.5 lb.

Fit Up Bar – Goose Neck



One end tapered — other end with chisel point and goose neck offset.

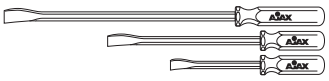
Cat. No.	Stock Size	Length	Weight
660	7/8" (22mm) Hex	30" OAL (762mm)	5 lb.
686	7/8" (22mm) Hex	48" OAL (1219mm)	8.5 lb.
687	1" (25mm) Hex	48" OAL (1219mm)	10.75 lb.

Pinch Bars



Cat. No.	Stock Size	Length	Weight
680	3/4" (19mm) Hex	24" OAL (610mm)	3 lb.
681	3/4" (19mm) Hex	30" OAL (762mm)	3.75 lb.
682	7/8" (22mm) Hex	36" OAL (914mm)	6 lb.

Pry Bars with Handles



Cat. No.	Stock Size	Overall Length	Blade Width
675-7	3/8" (10mm)	12" (305mm)	5/8" (16mm)
675-12	3/8" (10mm)	17" (432mm)	5/8" (16mm)
675-18	1/2" (13mm)	25" (635mm)	11/16" (17mm)
675-24	1/2" (13mm)	31" (787mm)	11/16" (17mm)
675-28	5/8" (16mm)	36" (914mm)	7/8" (22mm)
675-SP	3 pc. Set, includes 675-7, 675-12, 675-18		

Warehouse Bar



Cat. No.	Stock Size	Length	Weight
678	1" (25mm) Hex	48" OAL (1219mm)	12 lb.

Lining Bars – Offset Pinch or Jimmy Bar



One end tapered for lining holes, etc. — other end with chisel end and slight offset. For extra leverage in positioning steel members.

Cat. No.	Stock Size	Length	Weight
666	5/8" (16mm) Hex	15" OAL (381mm)	1.25 lb.
667	3/4" (19mm) Hex	20" OAL (508mm)	2.5 lb.
683	7/8" (22mm) Hex	30" OAL (762mm)	4.75 lb.
684	1" (25mm) Hex	36" OAL (914mm)	8 lb.

Pry Bars



New dimensions in pry bars forged from the finest alloy steel and tempered to give added muscle to that tough application.

Cat. No.	Stock Size	Length	Weight
9118	21/32" (17mm) RD	18" OAL (457mm)	1.5 lb.
9124	3/4" (19mm) RD	24" OAL (610mm)	2.5 lb.
9130	7/8" (22mm) RD	30" OAL (762mm)	4.5 lb.
9146	7/8" (22mm) RD	46" OAL (1168mm)	7.25 lb.
9154	1 1/16" (27mm) RD	54" OAL (1372mm)	12.75 lb.

Digging Bars



Cat. No.	Stock Size	Length	Weight
676	1" (25mm) Hex	60" OAL (1524mm)	14.5 lb.
677	1" (25mm) Hex	72" OAL (1829mm)	17.5 lb.

Crowbar Pinch Point

Cat. No.	Point Size & Length	Weight
9160P	1 1/4" sq. X 60" Pinch Point/Lining Bar	18 lb.

Crowbar Wedge Point

Cat. No.	Point Size & Length	Weight
9160W	1 1/4" sq. X 60" Wedge Point/Lining Bar	18 lb.

Connecting – Straight Fit Up Bar



Same as lining bar: one end tapered, chisel point on other end. No offset.

Cat. No.	Stock Size	Length	Weight
685	3/4" (19mm) Hex	24" OAL (610mm)	2.75 lb.
693	3/4" (19mm) Hex	30 1/2" OAL (775mm)	4 lb.
668	7/8" (22mm) Hex	30" OAL (762mm)	4.75 lb.
669	7/8" (22mm) Hex	36" OAL (914mm)	5.75 lb.
670	1" (25mm) Hex	36" OAL (914mm)	8 lb.

Pry Bars (Nickel Chrome Plated)



Forged from the finest alloy steel and tempered for added strength.

Cat. No.	Stock Size	Length	Weight
9118-PL	5/8" (17mm) RD	18" OAL (457mm)	1.5 lb.
9124-PL	3/4" (19mm) RD	24" OAL (610mm)	2.5 lb.
9130-PL	7/8" (22mm) RD	30" OAL (762mm)	4.5 lb.

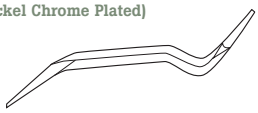
Pry Bars Scraper



Excellent leverage from offset blade. Ideal for lifting old tile, removing moldings, scraping paint and hardened adhesives. Comes with plastic grip.

Cat. No.	Stock Size	Length	Weight
692	2 3/16" (56mm)	16 3/4" OAL (425mm)	1.5 lb.

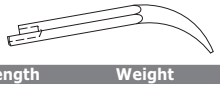
Utility Bar-Goose Neck/Pinch Point (Nickel Chrome Plated)



Two different chisel points for dual leverage.

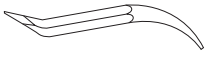
Cat. No.	Stock Size	Length	Weight
678-PL	7/8"	36" OAL	9 lb.
679-PL	1"	48" OAL	12 lb.

COTTER PIN PULLER & SPREADER



Cat. No.	Size Stock	Length	Weight
690	3/4"	12"	1.25 lb.

COTTER PIN PULLER

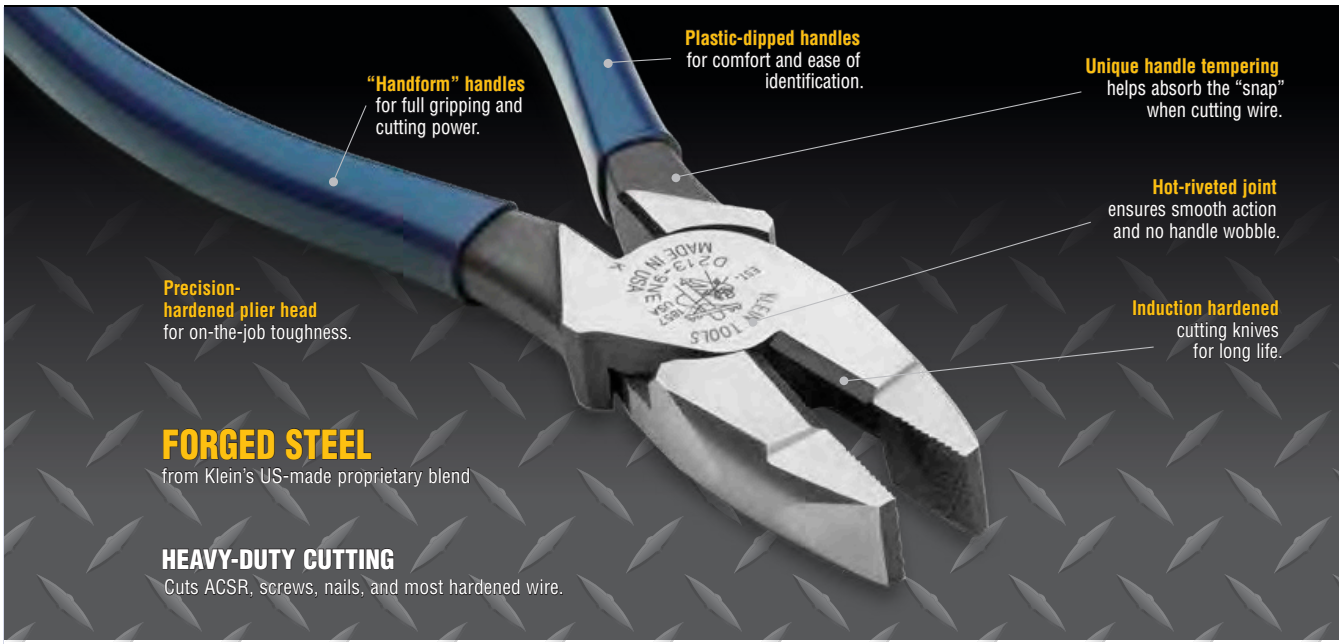


Cat. No.	Size Stock	Length	Weight
691	3/4"	11"	1.25 lb.

Rigger Hand Tools
Pliers

MADE IN USA

KLEIN TOOLS, INC.



Ironworker's Pliers


D201-7CST


D248-9ST


D201-7CSTT

Split ring for tethering

Use to twist and snip soft annealed rebar tire wire. The knurled jaws also aid in easy twisting and turning. These pliers feature a hook-bend in the handle for added grip and leverage. Unique handle tempering helps absorb the "snap" when cutting wire. Split ring for tethering available on "TT" Series.

WORK @ HEIGHT

Cat. No.	Nose Type	Head Type	Overall length	Handle Color	Weight
Side-Cutting					
201-7CST	Square	Slim	9-1/8" (231.8 mm)	Bare	0.65 lb (0.29 kg)
D201-7CST	Square	Slim	9-1/4" (235.0 mm)	Dark Blue	0.75 lb (0.34 kg)
D2017CSTA	Square	Slim	9-1/4" (235.0 mm)	Red	0.75 lb (0.34 kg)
D201-7CSTT with Tether Ring	Square	Slim	9" (228.6 mm)	Dark Blue	0.68 lb (0.31 kg)
High-Leverage Side-Cutting					
213-9ST	Square	Full	9-1/4" (235.0 mm)	Bare	1.0 lb (0.5 kg)
D213-9ST	Square	Full	9-3/8" (238.1 mm)	Dark Blue	1.1 lb (0.5 kg)
S213-9STT with Tether Ring	Square	Full	9-3/8" (238.1 mm)	Dark Blue	1.1 lb (0.5 kg)
Heavy-Duty Cutting					
D2000-7CST*	Square	Slim	9-1/4" (235.0 mm)	Royal Blue	0.70 lb (0.32 kg)
High-Leverage Heavy-Duty Cutting					
D2000-9ST*	Square	Full	9-3/8" (238.1 mm)	Royal Blue	1.1 lb (0.5 kg)
High-Leverage Diagonal-Cutting					
D248-9ST	Tapered	Angled	9-3/16" (233.4 mm)	Red	0.68 lb (0.31 kg)
D248-9STT with Tether Ring	Tapered	Angled	9" (228.6 mm)	Red	0.68 lb (0.31 kg)

Head Dimensions	Jaw length	Jaw Width	Jaw Thickness	Knife length
Slim	1-9/32" (33 mm)	1-5/32" (29 mm)	1/2" (12.7 mm)	5/8" (16 mm)
Full	1-19/32" (40 mm)	1-1/4" (32 mm)	5/8" (16 mm)	25/32" (20 mm)
Tapered	13/16" (21 mm)	1-3/16" (30 mm)	13/16" (21 mm)	3/4" (19 mm)

*Cuts ACSR, screws, nails, and most hardened wire.

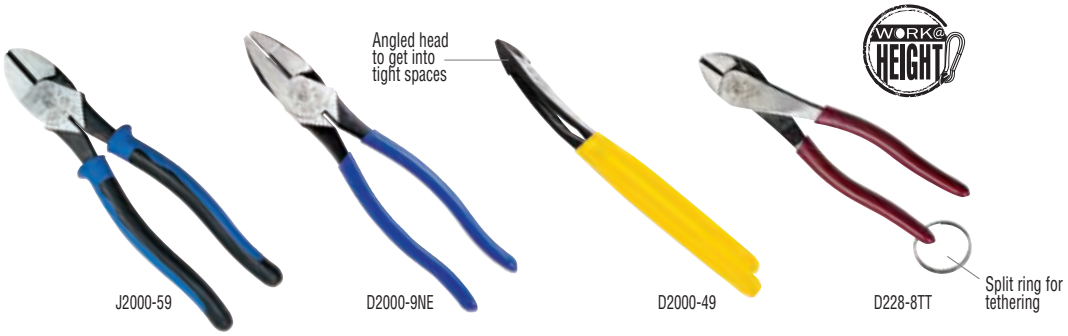
Rigger Hand Tools
Pliers

MADE IN USA

KLEIN TOOLS, INC.



High-Leverage Pliers



Available in side or diagonal-cutting models, these pliers feature a high-leverage design. The rivet is closer to the cutting edge for greater cutting and gripping power than other plier designs. The 2000 Series have heavy-duty cutting knives for ACSR, screws, nails and most hardened wire. The angled head on the diagonal cutters easily gets into tight spaces. The "TT" series feature a split ring for tethering the pliers when working at height.

Cat. No.	Nose Type	Head Type	Overall length	Handle Color	Weight
Side-Cutting					
D213-9NE	New England	Full	9-3/8" (238.1 mm)	Dark Blue	1.1 lb (0.5 kg)
D213-9NETT with Tether Ring	New England	Full	9-3/8" (238.1 mm)	Dark Blue	1.1 lb (0.5 kg)
Heavy-Duty Side-Cutting					
D2000-9NE*	New England	Full	9-3/8" (238.1 mm)	Royal Blue	1.1 lb (0.5 kg)
Diagonal-Cutting					
D248-8	Tapered	Angled	8-1/16" (204.8 mm)	Red	0.60 lb (0.27 kg)
D228-8	Tapered	Straight	8-1/16" (204.8 mm)	Red	0.60 lb (0.27 kg)
D228-8TT with Tether Ring	Tapered	Straight	8-1/16" (204.8 mm)	Red	0.60 lb (0.27 kg)
Heavy-Duty Diagonal-Cutting					
D2000-28*	Tapered	Straight	8-1/16" (204.8 mm)	Royal Blue	0.60 lb (0.27 kg)
D2000-48*	Tapered	Angled	8-1/16" (204.8 mm)	Royal Blue	0.60 lb (0.27 kg)
D2000-49*	Tapered	Angled	9" (228.6 mm)	Yellow	0.64 lb (0.29 kg)
J2000-59	Tapered	Angled	9" (228.6 mm)	Blue/Black	1.0 lb (0.5 kg)
End-Cutting					
D232-8	End Cutting	Wide	8-1/2" (215.9 mm)	Red	0.71 lb (0.32 kg)

Head Dimensions	Jaw length	Jaw Width	Jaw Thickness	Knife length
Slim	1-9/32" (33 mm)	1-5/32" (29 mm)	1/2" (12.7 mm)	5/8" (16 mm)
Full	1-19/32" (40 mm)	1-1/4" (32 mm)	5/8" (16 mm)	25/32" (20 mm)
Tapered	13/16" (21 mm)	1-3/16" (30 mm)	13/16" (21 mm)	3/4" (19 mm)

*Cuts ACSR, screws, nails, and most hardened wire.

Rigger Hand Tools
Bull Pins & Drift Pins

MADE IN USA

KLEIN TOOLS, INC.

Steel Bull Pins

WORK @ HEIGHT

Broad Head

- Forged, heat-treated steel increases efficiency by providing a larger striking surface
- Angled head and smooth blending of radii increase strength and reduce the danger of chipping
- Below the head, squared-off shoulders forged to provide a surface for applying wrench to loosen wedged bull pins
- Added resistance to "mushrooming" permits longer use than conventional designs and the even taper reduces binding and hang-up
- "TT" Series feature tether hole for working at height

Standard and Barrel-Type Drift

- Machined from quality alloy steel
- Heat-treated for strength, black oxide finish for rust resistance



Cat. No.	Top Diameter	Point Diameter	Length
Broad Head			
3255	1-1/4" (32 mm)	5/16" (8 mm)	13-3/4" (349 mm)
3255TT	1-1/4" (32 mm)	5/16" (8 mm)	13-3/4" (349 mm)
3256	1-1/16" (27 mm)	1/4" (6 mm)	10" (254 mm)
3256TT	1-1/16" (27 mm)	1/4" (6 mm)	10" (254 mm)
Standard			
3251	1-1/16" (27 mm)	3/8" (10 mm)	15" (381 mm)
3252	1-3/16" (30 mm)	7/16" (11 mm)	15" (381 mm)
3257	1-1/16" (27 mm)	3/8" (10 mm)	12" (305 mm)
3258	1-3/16" (30 mm)	7/16" (11 mm)	12" (305 mm)
3259	1-5/16" (33 mm)	7/16" (11 mm)	12" (305 mm)
3259TT	1-5/16" (33 mm)	7/16" (11 mm)	12" (305 mm)
3259TTS*	1-5/16" (33 mm)	7/16" (11 mm)	12" (305 mm)
3265	1-1/4" (32 mm)	7/16" (11 mm)	12" (305 mm)
Barrel-Type Drift Pins			
3260	11/16" (18 mm)	5/16" (8 mm)	7-1/2" (191 mm)
3261	13/16" (21 mm)	7/16" (11 mm)	8" (203 mm)
3262	15/16" (24 mm)	1/2" (13 mm)	8" (203 mm)
3263	1-1/16" (27 mm)	9/16" (14 mm)	8" (203 mm)

Note: OSHA 1926.301 (c) specifically states: "Impact tools, such as drift pins, wedges and chisels, shall be kept free of mushroomed heads."
*Stainless Steel



Rigger Hand Tools
Hammers

KLEIN TOOLS, INC.

Scaffold Hammer



5HSC

- Dual purpose tool used for scaffold assembly and disassembly
- Forged and heat treated carbon manganese steel for maximum strength

Cat. No.	Head Weight	Overall Length
5HSC	1.03lb (465 g)	12.6" (320 mm)

Welding Hammers



5WHSP

- Chip-off slag and spatter around welds, especially in holes and difficult corners
- Suitable for peening welds of hard facing cast iron
- The ends are heat treated for toughness and durability; sharp and finely pointed to access small areas and corners
- Made from first grade high carbon spring steel

Cat. No.	Grip Type	Grip Feature	Weight
5WHSP	Spring	lessen shock; hanging loop	1 lb (.45 kg)
5WHRG	Rubber	insulation from radiant heat	1.1 lb (.52kg)

Curved-Claw Hammers – Heavy-Duty



818-16

- Durable plastic-alloy jacketing helps to protect neck from fraying and splintering if incorrectly struck or overstruck
- High-strength fiberglass shaft absorbs shock and keeps head tight
- Comfortable, perforated neoprene grip bonded to handle
- Curved claw gives maximum nail-pulling leverage

Cat. No.	Head Weight	Overall Length
818-16	16 oz. (454 g)	13" (330 mm)
818-20	20 oz. (567 g)	14" (356 mm)

Hand-Drilling Hammer



823-48

- Extra-heavy, forged steel head, hardened and tempered
- Short handle for working in close quarters
- Select hickory handle, triple-wedged and lacquered to withstand weather
- Special handle treatment removes handle moisture and replaces it with oil to help eliminate the effects of extreme temperatures

Cat. No.	Head Weight	Overall Length
823-48	48 oz. (1361 g)	10" (254 mm)

Non-Sparking Hammers



819-03

- Non-sparking, non-marring brass-head
- Fiberglass handle includes TPR overmold for extra comfort and shock absorption
- Built-in overstrike protector absorbs shock and vibration when overstrike occurs
- Large sweep at base prevents loss of grip
- Head is securely epoxied to prevent detachment
- Does not contain beryllium

Cat. No.	Head Weight	Overall Length
819-03	3 lb (1021 g)	15.75" (400 mm)
819-04	4 lb (1.8 g)	16" (406 mm)

Sledge & Club Hammers



5HDFRH04400

- Forged from tough high-tensile steel with hardened and tempered faces
- Thick-cored fiberglass handle; non-slip, oil-resistant rubberized coating
- Head is pinned and epoxied to handle to prevent head coming off
- Thick handle with large sweep at base to prevent loss of grip
- Comfortable, thick rubber grip for better protection from shock and vibration

Cat. No.	Head Weight	Handle Length	Overall Weight
5HDFRH04400	4 lb (1.81 kg)	15.7" (400 mm)	5.2 lb (2.36 kg)
5HSFRH10	10 lb (4.53 kg)	35.4" (900 mm)	13.8 lb (6.27 kg)
5HCMFRH1.35	3 lb (1.35 kg)	10.8" (275 mm)	3.6 lb (1.63 kg)

Rigger Hand Tools
Construction Bars

MADE IN USA
GLOBAL COMPONENTS

KLEIN TOOLS, INC.



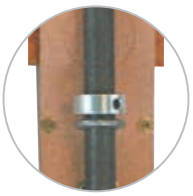
Connecting Bar Holder with Lock Collar



5459C



5459SLVR



- Lock Collar fits Klein® 7/8" (22 mm) connecting Bars (Cat. Nos. 3246 & 3248)
- Leather steel construction
- Tunnel loop allows for weight distribution on belt
- Fits belts up to 3-1/2" (89 mm) wide
- Lock collar (Cat. No. 5459C) included; also available separately

Cat. No.	Belt Connection	Belt Width	Overall Size
5459SLVR	tunnel loop	up to 3-1/2" (89 mm)	3" x 6-3/4" (76 mm x 171 mm)
Replacement Collar			
5459C	–	–	–

⚠**WARNING:** Lock collar should ONLY be used on Klein 7/8" connecting bars
Lock collar must be installed on connecting bar before using holder.

Construction Bars

- Provides extra leverage when positioning steel members and aligning bolt holes
- Forged fit-up bar is pointed on one end
- Chisel-end is at a 15° angle for greater leverage
- Gooseneck Bar (Cat. No. GN3243) chisel-end is at a 45° angle for greater leverage
- "TT" Series features tethering hole for working at height



GN3243



3246TT

Round Bars

Cat. No.	Hex Diameter	Length
3245	3/4" (19 mm)	30" (762 mm)
3246	7/8" (22 mm)	36" (914 mm)
3246TT*	7/8" (22 mm)	36" (914 mm)
3247	3/4" (19 mm)	24" (610 mm)
3248	7/8" (22 mm)	30" (762 mm)
Straight Chisel-End		
3241	3/4" (19 mm)	30" (762 mm)

Hex Bars

Cat. No.	Hex Diameter	Length
3242	3/4" (19 mm)	30" (762 mm)
3243	7/8" (22 mm)	36" (914 mm)
3244	3/4" (19 mm)	24" (610 mm)
Straight Chisel-End		
3240	3/4" (19 mm)	30" (762 mm)
Gooseneck Bar		
GN3243	7/8" (19 mm)	29-1/4" (743 mm)

*Has tethering hole

Rigger Hand Tools
Wrecking Bars

KLEIN TOOLS, INC.

Utility Wrecking Bar

- Used for construction and carpentry work such as door fitting
- Forged from tough spring steel
- Finely ground wide ends reduce damage to wood when removing for restoration work
- Sharpened and heat treated claws easily grip nail shank to pull nail head through wood



5WBU

Cat. No.	Dimensions	Weight
5WBU	13.3" x 1.9" (340 mm x 30 mm)	1.3 lb (0.60 kg)

Multipurpose Wrecking Bar

- Used for construction and demolition work
- Forged from tough spring steel
- Open angle bend at one end for easy entry, opposite end is ideal for work in confined areas
- Finely ground ends reduce damage to timbers when removing for restoration
- Sharpened and heat treated claws easily grip nail shank so the nail head can be pulled through the timber



5WBMP

Cat. No.	Dimensions	Weight
5WBMP	11.8" x .4" (300 mm x 10 mm)	0.5 lb (0.29 kg)

T-Head Wrecking Bar

- T-style design allows the user to "rock" the bar for extra leverage without blocking
- Engineered for flooring/plank removal
- Pushes and pulls with equal force
- Forged, heat treated carbon steel bit & handle
- Sharpened tips for prying/cutting nails and screws



5WBT900

Cat. No.	Dimensions	Weight
5WBT900	35.43" x 6.3" x 1.58" (900 mm x 160 mm x 40 mm)	5.3 lb (2.4 kg)

Insulated Digging (Spud) Bar



7IB1650

- Used for digging holes, breaking up rocks, clay and concrete
- Forged from tough carbon manganese steel
- Finely ground and sharpened chisel end for digging holes
- Comfortable non-conductive grip bonded to the steel
- Yellow under-layer provides visual indication of damage to non-conductive grip

Cat. No.	Dimensions	Weight
7IB1650	65" (1650 mm)	13.5 lb (6.14 kg)

Rigger Hand Tools
Punches & Chisels

MADE IN USA

AJAX Tools

Hand Tools

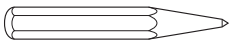


Solid Punch



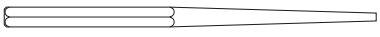
Cat. No.	Stock Size	Overall Length	Point Diameter
570	5/16" (8mm)	6" (152mm)	3/32" (2mm)
571	3/8" (10mm)	6" (152mm)	1/8" (3mm)
572	1/2" (13mm)	6" (152mm)	3/16" (5mm)
573	5/8" (16mm)	7" (178mm)	1/4" (6mm)

Center Punch



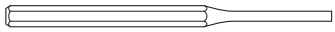
Cat. No.	Stock Size	Overall Length
561	3/8" (10mm)	6" (152mm)
562	1/2" (13mm)	6" (152mm)
563	5/8" (16mm)	6" (152mm)
564	3/4" (19mm)	6" (152mm)
565	7/8" (22mm)	6" (152mm)

Long Taper Punch



Cat. No.	Stock Size	Overall Length	Point Diameter
586	3/8" (10mm)	7 1/2" (190mm)	3/32" (2mm)
587	3/8" (10mm)	8" (203mm)	1/8" (3mm)
588	1/2" (13mm)	8 1/2" (216mm)	5/32" (4mm)
589	1/2" (13mm)	9" (229mm)	3/16" (5mm)
590	5/8" (16mm)	11" (280mm)	1/4" (6mm)
591	5/8" (16mm)	11" (280mm)	5/16" (8mm)

Hand Pin Punch



Cat. No.	Stock Size	Overall Length	Point Diameter
580	5/16" (8mm)	4 3/4" (121mm)	3/32" (2mm)
581	5/16" (8mm)	5" (127mm)	1/8" (3mm)
582	5/16" (8mm)	5 1/4" (133mm)	5/32" (4mm)
583	5/16" (8mm)	5 1/2" (140mm)	3/16" (5mm)
584	3/8" (10mm)	7" (178mm)	1/4" (6mm)
585	1/2" (13mm)	7" (178mm)	5/16" (8mm)

Prick Punch



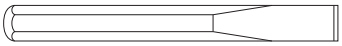
Cat. No.	Stock Size	Overall Length
592	3/8" (10mm)	5" (127mm)

Wood Chisel



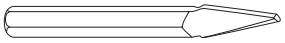
Cat. No.	Stock Size	Overall Length
515	7/8" (22mm)	12" (305mm)

Hand Flat Chisel



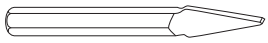
Cat. No.	Stock Size	Overall Length	Cutting Edge Width
501	5/16" (8mm)	5" (127mm)	3/8" (10mm)
502	3/8" (10mm)	6" (152mm)	1/2" (13mm)
503	1/2" (13mm)	6" (152mm)	5/8" (16mm)
504	5/8" (16mm)	7" (178mm)	3/4" (19mm)
505	3/4" (19mm)	6" (152mm)	7/8" (22mm)
506	3/4" (19mm)	8" (203mm)	7/8" (22mm)
507	3/4" (19mm)	10" (254mm)	7/8" (22mm)
508	3/4" (19mm)	12" (305mm)	7/8" (22mm)
509	7/8" (22mm)	6" (152mm)	1" (25mm)
510	7/8" (22mm)	9" (229mm)	1" (25mm)
511	7/8" (22mm)	12" (305mm)	1" (25mm)
512	1" (25mm)	9" (229mm)	1 1/8" (29mm)
513	1" (25mm)	12" (305mm)	1 1/8" (29mm)
516	3/4" (19mm)	8" (203mm)	1 1/2" (38mm)
517	3/4" (19mm)	10" (254mm)	1 1/2" (38mm)
518	7/8" (22mm)	9" (229mm)	2" (51mm)
519	1" (25mm)	12" (305mm)	2" (51mm)

Hand Round Nose Chisel



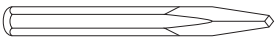
Cat. No.	Stock Size	Overall Length	Cutting Edge Width
531	5/16" (8mm)	5" (127mm)	1/8" (3mm)
532	3/8" (10mm)	6" (152mm)	5/32" (4mm)
533	1/2" (13mm)	6" (152mm)	3/16" (5mm)
534	5/8" (16mm)	7" (178mm)	1/4" (6mm)
535	3/4" (19mm)	8" (203mm)	3/8" (10mm)
536	7/8" (22mm)	9" (229mm)	1/2" (13mm)

Hand Cape Chisel



Cat. No.	Stock Size	Overall Length	Cutting Edge Width
521	5/16" (8mm)	5" (127mm)	1/8" (3mm)
522	3/8" (10mm)	6" (152mm)	5/32" (4mm)
523	1/2" (13mm)	6" (152mm)	3/16" (5mm)
524	5/8" (16mm)	7" (178mm)	1/4" (6mm)
525	3/4" (19mm)	8" (203mm)	3/8" (10mm)
526	7/8" (22mm)	9" (229mm)	1/2" (13mm)

Hand Diamond Point Chisel



Cat. No.	Stock Size	Overall Length	Cutting Edge Width
541	5/16" (8mm)	5" (127mm)	1/8" (3mm)
542	3/8" (10mm)	6" (152mm)	5/32" (4mm)
543	1/2" (13mm)	6" (152mm)	3/16" (5mm)
544	5/8" (16mm)	7" (178mm)	1/4" (6mm)
545	3/4" (19mm)	8" (203mm)	3/8" (10mm)
546	7/8" (22mm)	9" (229mm)	1/2" (13mm)

WARNING: Wear Safety Goggles

WARNING: Wear Safety Goggles

Ajax Chisels and Punches should only be used on materials softer than the tools themselves.

Rigger Hand Tools
Wedges & Scrapers

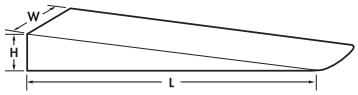
MADE IN USA

AJAX Tools

Wedges / Scrapers

Stock Wedges

Cat. No.	Height	Width	Length	Weight
881	1/4" (6mm)	3/4" (19mm)	3" (76mm)	1 oz.
882	1/2" (13mm)	1" (25mm)	6" (152mm)	7 oz.
883	3/4" (19mm)	1 1/2" (38mm)	8" (203mm)	1 lb.
884	1" (25mm)	1 1/2" (38mm)	8" (203mm)	1 lb. 5 oz.
885	1 1/4" (32mm)	1 1/4" (32mm)	8" (203mm)	2 lb.
886	1 1/2" (38mm)	1 1/2" (38mm)	10" (254mm)	3 lb.
887	1 3/4" (44mm)	1 3/4" (44mm)	12" (305mm)	5 lb.
888	2" (51mm)	2" (51mm)	12" (305mm)	7 lb.



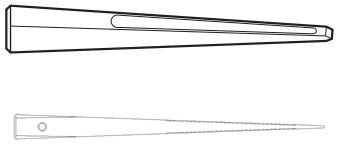


Flange Wedges

Cat. No.	Blade Height.	Blade Width	Blade Lgth.	Weight
875	7/8" (22mm)	7/8" (22mm)	11" (279mm)	1.25
875-H	7/8" x 7/8" x 11" with 1/4" hole			
875-BC*	7/8" (22mm)	7/8" (22mm)	11" (279mm)	1.25
875-BC-H	7/8" x 7/8" x 11" with 1/4" hole			

*Beryllium Copper Non-Spark Material (See page 20)

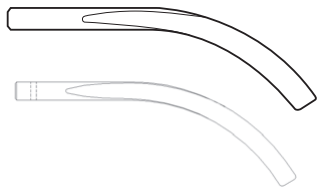
Slightly concave wedging surfaces for interlocking safety when used in PAIRS.



Banana Wedges

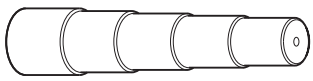
Cat. No.	Blade Height	Blade Width	Blade Length	Weight
876	13/16" (21mm)	13/16" (21mm)	12" (305mm)	1.5
876-H	13/16" x 13/16" x 12" with 1/4" hole			
876-BC*	13/16" (21mm)	13/16" (21mm)	12" (305mm)	1.5
876-BC-H	13/16" x 13/16" x 12" with 1/4" hole			

*Beryllium Copper Non-Spark Material (See page 20)



Flange Line Up Pin (sold in pairs)

Cat. No.	Length	For Bolt Holes:	Weight
879-P	4 1/2" (114mm)	5/8" (16mm), 3/4" (19mm), 7/8" (22mm), 1" (25mm), 1 1/8" (29mm)	1.75
880-P	7 1/2" (191mm)	1 1/4" (32mm), 1 3/8" (35mm), 1 1/2" (38mm), 1 5/8" (41mm) 1 3/4" (44mm)	1.75



Flange Scraper

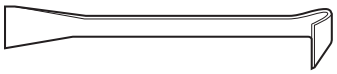
Cat. No.	Length	Blade Width	Weight
891-P	12" (305mm)	1 1/4"(32mm)	6.75

Packaged 25 pcs. per bundle



Double End Scraper

Cat. No.	Length	Blade Width	Weight
892	9" (229mm)	1 1/4"(32mm)	.5



WEDGES FOR THE TOUGH JOBS

AJAX Wedges are made of Carbon Steel, properly forged for maximum toughness.

NOTE:
Wedges to your specification can be furnished, made of carbon or mild steel. Please state height (H), width (W), and length (L) required.



Rigger Hand Tools
Belts

KLEIN TOOLS, INC.

Heavy-Duty Tie-Wire Belts



5415



5425M



5426M

Designed for Quick Release

1. Pull free end of release strap to disengage other end from retainer.
2. Pulling action rotates clasp to open position.
3. Disengaged clasp allows belt to separate.



- Strong double-tongue buckle with keeper
- Separate reel-strap with its own buckle lets you quickly and conveniently put on or take off a Klein tie-wire reel and optional pad without removing the belt or your tool pouch

Cat. No.	Belt Description	Material	Belt Size Range	Width
5415S	Heavy-Duty Embossed	Heavy-Duty Leather	32" – 40" (813 mm – 1016 mm)	2" (51mm)
5415	Heavy-Duty Embossed	Heavy-Duty Leather	36" – 44" (914 mm – 1118 mm)	2" (51mm)
5415L	Heavy-Duty Embossed	Heavy-Duty Leather	40" – 48" (1016 mm – 1219 mm)	2" (51mm)
5415XL	Heavy-Duty Embossed	Heavy-Duty Leather	44" – 52" (1118 mm – 1321 mm)	2" (51mm)
5420S	Heavy-Duty Tire-Wire	Heavy-Duty Leather	32" – 40" (813 mm – 1016 mm)	2" (51mm)
5420	Heavy-Duty Tire-Wire	Heavy-Duty Leather	36" – 44" (914 mm – 1118 mm)	2" (51mm)
5420L	Heavy-Duty Tire-Wire	Heavy-Duty Leather	40" – 48" (1016 mm – 1219 mm)	2" (51mm)
5420XL	Heavy-Duty Tire-Wire	Heavy-Duty Leather	44" – 52" (1118 mm – 1321 mm)	2" (51mm)
5425M	Quick Release	Cotton/Polyester	30" – 44" (762 mm -1118 mm)	2" (51 mm)
5425XL	Quick Release	Cotton/Polyester	38" – 58" (965 mm - 1473 mm)	2" (51 mm)
5426M	Padded Leather Quick Release	Heavy-Duty Leather	34" – 38" (86.4 cm - 96.5 cm)	5" (127 mm)
5426L	Padded Leather Quick Release	Heavy-Duty Leather	38" – 46" (96.5 cm - 116.8 cm)	5" (127 mm)
5426XL	Padded Leather Quick Release	Heavy-Duty Leather	46" – 54" (116.8 - 137.2 cm)	5" (127 mm)

Padded Tool Belts



5245

- 2" (51 mm) wide tool belt and padded liner with breathable mesh interior
- Thick, rugged leather ends
- Side handles for ease of lifting
- Metal connection points to attach suspenders for added support

Cat. No.	Size
5245	31" – 34" (787 mm – 864 mm)
5246	35" – 39" (889 mm – 991 mm)
5247	40" – 44" (1016 mm – 1118 mm)

Leather Cushion Belt Pads

- Deluxe leather pad is 4" (102 mm) wide
- Thick leather back with four snap-open straps for easy attachment to any belt up to 2" (51 mm) wide
- Sponge-padded leather liner has rounded edges, and is permanently stitched to the back
- Durable and comfortable pad to wear for prolonged work periods
- When sizing a belt to accommodate this pad, add 2" (51 mm) to 4" (102 mm) to the belt waist size



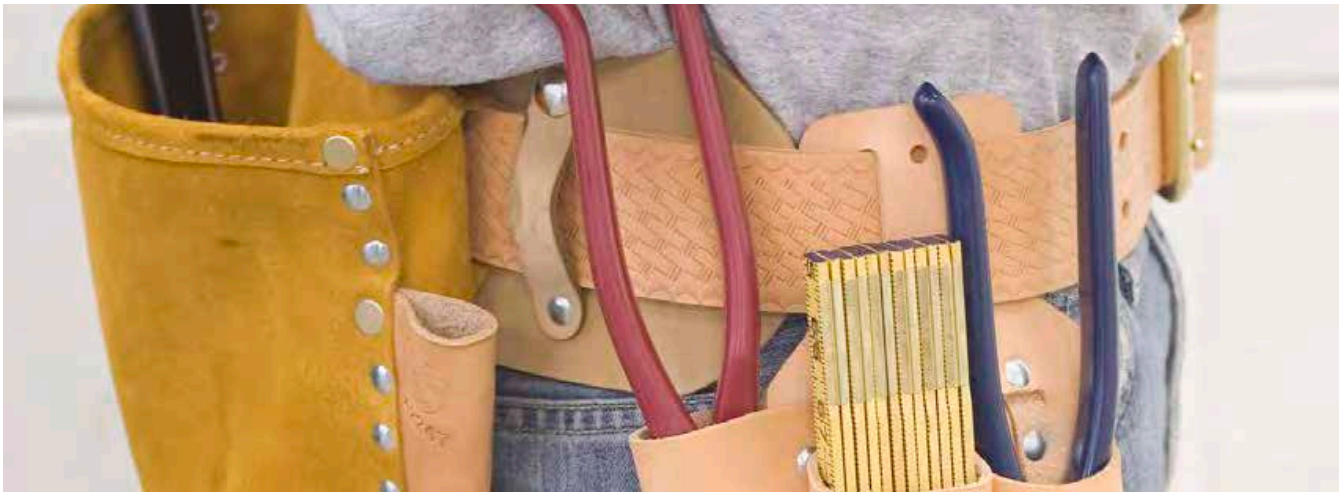
87904

Cat. No.	Length
87904	22" (559 mm)
87906	30" (762 mm)

⚠ **WARNING:** This is NOT an occupational protective belt. NOT for fall arrest or back support.

Rigger Hand Tools
Bolts Bags

KLEIN TOOLS, INC.



Leather Bolt Bag

- Split-leather construction
- Bolt bag with bull-pin loop on each side
- Tunnel loop fits belts up to 3" wide



42247

Cat. No.	Length	Width	Depth
42247	5" (127 mm)	8-1/2" (216 mm)	8-1/2" (216 mm)

Flame Resistant Canvas Electrode Bag

- No. 4 flame-resistant canvas meets the performance requirement of NFPA -701
- Heat-resistant, hard leather bottom
- Web loop for sliding over belt
- For added protection when welding and grinding

FR
NFPA-701



5471FR

Cat. No.	Diameter	Front Depth	Back Depth
5471FR	2-1/2" (64 mm)	12" (305 mm)	15-1/2" (394 mm)

Bull-Pin and Bolt Bags

- Bull pin loops on each side for easy access
- Double bottom provides additional strength
- Cat. No. 5416OCTO has two D-rings on the front of the pouch and four on the inside for plenty of space to connect tethers
- Cat. No. 5416TC and 5416TCP have drawstring closure on top
- Cat. No. 5416TFR is made of flame-resistant No. 4 canvas and meets the performance requirement of NFPA-701



5416TBR

INTERIOR
Showing bolts prevented from falling out when pouch is upside down

Cat. No	Belt Capacity	Belt Connection	Length	Width	Depth
5416	up to 3" (76 mm)	Loops	5" (127.0 mm)	10" (254.0 mm)	9" (229 mm)
5416T	up to 3" (76 mm)	Tunnel	5" (127.0 mm)	10" (254.0 mm)	9" (229 mm)
5416TBR	up to 3" (76 mm) wide	Tunnel	5" (127.0 mm)	10" (254.0 mm)	9" (229 mm)
5416TFR	up to 3" (76 mm)	Tunnel	5" (127.0 mm)	10" (254.0 mm)	9" (229 mm)
5416OCTO	up to 3" (76 mm) wide	Loop	5" (127 mm)	9" (229 mm)	9" (229 mm)
5416TC	up to 3" (76 mm) wide	Tunnel	5" (127 mm)	9" (229 mm)	10" (254 mm)
5416TCP	up to 3" (76 mm) wide	Tunnel	5" (127 mm)	9" (229 mm)	12" (305 mm)

VELCRO® is a registered trademark of Velcro Industries B.V.



FR
NFPA-701

5416TFR

Rigger Hand Tools
Canvas Buckets

MADE IN USA
GLOBAL COMPONENTS

KLEIN TOOLS, INC.

Load Rated Canvas Buckets

- Durable straight wall buckets made of heavy-duty canvas to withstand the harshest job site conditions
- Reinforced bottoms extend up the sides for added durability
- Web straps extend down the sides for additional strength
- The "No." refers to the canvas weight with No. 1 being the thickest and No. 6 being the thinnest
- Models available made of flame-resistant No. 4 canvas and meets the performance requirement of NFPA-701




5104OCTO


51TOP
Vinyl Bucket top attaches with Velcro®


14" diameter accommodates standard 5 gallon bucket (5104CLR22 and 5104CLR17)


2012
470

Cat. No.	Canvas Type	Load Rating	Extra Features	Diameter	Height
51TOP	N/A	N/A	attaches with Velcro®	12.5" (318 mm)	3.5" (89 mm)
5109	No. 6	75 lb (34 kg)	black molded polypropylene bottom	12" (305 mm)	15" (381 mm)
5104	No. 4	100 lb (45 kg)	inside pocket	12" (305 mm)	17" (432 mm)
5104OCTO	No. 1	100 lb (45 kg)	D-rings for tethering tools	12" (305 mm)	17" (432 mm)
5104FR	No. 4	100 lb (45 kg)	flame-resistant	12" (305 mm)	17" (432 mm)
5104CLRFR	No. 4	100 lb (45 kg)	zipper, flame-resistant	12" (305 mm)	17" (432 mm)
5104CLR17	No. 1	150 lb (68 kg)	zipper	14" (356 mm)	17" (439 mm)
5104CLR22	No. 1	150 lb (68 kg)	zipper	14" (356 mm)	22" (559 mm)

Hooks	Throat Opening	Overall Length	Weight
470	5/8" (16 mm)	5" (127.0 mm)	0.30 lb (0.14 kg)
2012	21/32" (17 mm)	4-3/8" (111.1 mm)	0.28 lb (0.13 kg)

VELCRO® is a registered trademark of Velcro Industries B.V.

⚠ **WARNINGS:** Completely close top before each use.

⚠ **WARNINGS:**
- Inspect for damage before each use.
- Remove from service if bucket shows signs of wear.
- Never exceed the working load limit.

Rigger Hand Tools

Haven's™ Grips & Porkchops

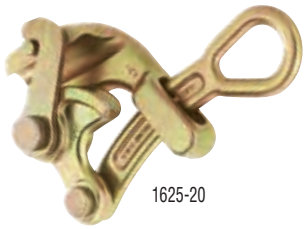
MADE IN USA

KLEIN TOOLS, INC.

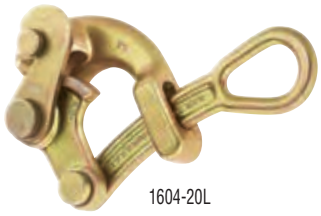
Haven's™ Grips "Pork Chop"

Designed for use when a light, compact grip is desired and conductor deformation is not a factor

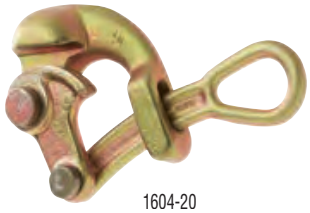
- Gripping pressure of the knurled jaw is applied to 1/4" (6.35 mm) cable area
- All 1625 series have a swing latch to help hold cable in the jaw



1625-20



1604-20L

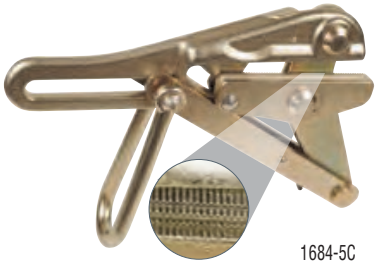


1604-20

Cat. No.	Latch Model	Min. to Max. Cable Diameter inches (mm)	Approx. Weight Each
2,500 lbs. (1,134 kg) Maximum Safe Load			
1604-10	NA	.06" - .25" (1.52 mm - 6.35 mm)	1 lb (.45 kg)
5,000 lbs. (2,268 kg) Maximum Safe Load			
1604-20	1604-20L	.125" - .50" (3.18 mm - 12.70 mm)	2.08 lb (1.14 kg)
8,000 lbs. (3,629 kg) Maximum Safe Load			
1625-20	Latch Included	.28" - .75" (7.11 mm - 19.05 mm)	4 lb (1.81 kg)
1625-20 7/8		.38" - .88" (9.65 mm - 22.35 mm)	
1625-20 1		.50" - 1.00" (12.70 mm - 25.40 mm)	

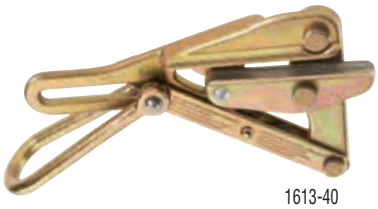
Guy Strand & EHS (Extra High-Strength) Grips

- Double "V" grooves give four-point contact, reducing chance of slipping and providing proper alignment of wire and cable
- Cat. No. 1684-5C has a sawtooth jaw profile for extra gripping power



1684-5C

Sawtooth jaw profile provides extra gripping power



1613-40



1628-16

Cat. No.	Hot Latch Model No.	Hot Latch/Spring Model No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
4,500 lbs. (2,041 kg) Maximum Safe Load					
1613-40	1613-40H	S1613-40H	.12" - .37" (3.05 mm - 9.40 mm)	4-3/16" (106 mm)	3 lb (1.36 kg)
8,000 lbs. (3,629 kg) Maximum Safe Load – EHS Specific					
1684-5C	NA	NA	.160" - .550" (4.06 - 13.97 mm)	5" (127 mm)	6.25 lb (2.84 kg)
15,000 lbs. (6,803 kg) Maximum Safe Load					
1628-16	NA	NA	.31" - .62" (7.87 mm - 15.75 mm)	7-1/4" (184 mm)	15.30 lb (7.00 kg)
1628-17			.50" - .75" (12.70 mm - 19.05 mm)		16.30 lb (7.40 kg)
1628-18			.75" - 1.00" (19.05 mm - 25.40 mm)		15.70 lb (7.10 kg)

Rigger Hand Tools
Kellam's Grips

HUBBELL®
Wiring Device-Kellems

Wire Rope Grips

Wire Rope Grips are made of high strength galvanized steel strand in a construction of triple, double and single weave for superior gripping ability. They are available with or without a rotating barrel which will help eliminate twist in the old rope from being transferred to the new rope.

IMPORTANT:
Read all breaking strength, safety and technical data relating to this product.

Refer to pages V-17 and V-18.

Benefits

- High strength for secure pulling
- Easy installation
- Flexible to pass through sheaves and blocks

Application

Wire Rope Grips are used for changing wire rope on oil derricks, large cranes, overhead cranes and drag lines. It provides a quick, safe, inexpensive temporary splice. By installing the used wire rope in one end and the new rope in the other, the new wire rope can be pulled in as the old one is pulled out.



Regular Wire Rope Grips

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs.	Working Load Lbs.	Approx. Strength of Grip Feet (m)	Catalog Number
9/16"- 5/8" (1.43-1.59)	7,500	1,500	5.75 (1.75)	**03316001**
3/4"- 7/8" (1.90-2.22)	12,500	2,500	6.75 (1.90)	**03316002**
1"-1 1/8" (2.54-2.86)	16,000	3,200	7.00 (2.13)	**03316003**
1 1/4"- 1 3/8" (3.17-3.49)	20,000	4,000	8.00 (2.44)	**03316004**
1 3/8"- 1 1/2" (3.49-3.81)	20,000	4,000	8.00 (2.44)	**03316006**



Rotating Wire Rope Grips

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs.	Working Load Lbs.	Approx. Strength of Grip Feet (m)	Barrel Dimensions Length. x O.D. In. (cm)	Catalog Number
7/16"- 1/2" (1.11-1.27)	5,000	1,000	5.33 (1.63)	3.00" (7.62) x .87" (2.21)	**03317001**
9/16"- 5/8" (1.43-1.59)	7,500	1,500	5.83 (1.78)	4.25" (10.79) x 1.00" (2.54)	**03317002**
3/4"- 7/8" (1.90-2.22)	12,500	2,500	6.50 (1.98)	4.25" (10.79) x 1.00" (2.54)	**03317003**
1"- 1 1/8" (2.54-2.86)	16,000	3,200	8.67 (2.64)	5.50" (13.97) x 1.37" (3.48)	**03317004**
1 1/4"- 1 3/8" (3.17-3.49)	20,000	4,000	9.00 (2.74)	5.50" (13.97) x 1.37" (3.48)	**03317005**
1 1/2"- 1 3/4" (3.81-4.44)	20,000	4,000	11.00 (3.35)	5.50" (13.97) x 1.37" (3.48)	**03317006**

Note: 1. During installation each end of the grip should be banded and taped down securely over the rope to insure smooth passage through sheaves and to guard against accidental release. See page V-16 for end bands.
2. The rotating barrel is not a swivel and will not turn while under tension. It can turn to relieve pulling torque when tension is relaxed.

Rigger Hand Tools
Kellam's Grips

HUBBELL®
Wiring Device-Kellems

Features and Benefits

Kellems® Pulling Grips

Pulling grips are reusable tools for pulling electrical cable, bare conductor or rope. They are easy and fast to install, providing the user with a smooth, slim profile that allows for easy passage through ducts and conduit.

These grips are made of the highest quality galvanized steel strand which assures the user of a long lasting grip. There is a Kellems Pulling Grip for every pulling job.

- Made of high strength galvanized steel strand
- Mesh design offers the greatest holding power for all pulling applications
- Each grip size is color coded for fast and accurate identification and selection
- Will mate with swivels



03302016



Mesh Grip

- The galvanized steel mesh grip provides strength for secure pulling jobs and a slim profile with little build-up; it has flexibility to follow cable path
- The multiweave styles available add strength for big pulling jobs and provide positive gripping power



Eye Styles

- Heavy-duty rotating eye for underground wiring and overhead heavy-duty pulling of service lines and new construction cable
- Flexible or rotating eyes will mate easily with line stringing swivels for attachment to pulling lines; they have great strength for trouble free pulling jobs



Cable Protection

- Shoulder protectors contain the cable inside the grip and smooth the passage of the grip over line stringing blocks or conduit bends; they protect the leading edge of the grip from abrasion



Accessories

- Swivels are essential to the efficiency and safety of any high tension application
- Punch-Lok® Bands are applied over the tail of a grip to prevent the mesh from being tripped or pulled loose
- Banding tools

Rigger Hand Tools
Kellam's Grips

HUBBELL®
Wiring Device-Kellems

Multiple Strength Style Grips

Multiple Strength Pulling Grips are designed for pulling aluminum or copper bare conductor, ground wires, messenger strands, wire rope and insulated cables. They are made of high strength galvanized steel strand and feature a multi-weave mesh construction of single, double and triple weave for firm holding power.

IMPORTANT:
Read all breaking strength, safety and technical data relating to this product.

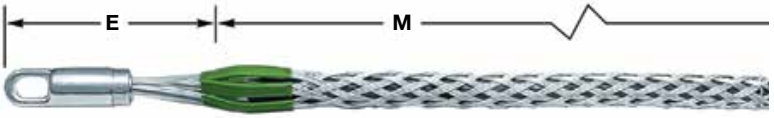
Refer to pages V-17 and V-18.

Rotating Eye Feature

Multiple Strength Grips are available with a forged steel rotating eye which can be attached to a swivel. The forged eye is durable, compact and streamlined and will thread through blocks and sheaves without binding. **The rotating eye is not a swivel and will not turn while under tension**; it can turn to relieve pulling torque when tension is relaxed. If constant swivel action is required, a swivel should be used. For swivel dimensions, see page V-16. For rotating eye dimensions, see page V-9.

Benefits

- Economical, high strength pulling tool
- Multi-weave construction provides greater strength and holding power
- Endless Weave Grip end lies flat on the cable and will not snag



Multiple Strength Grip, Rotating Eye

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs.	Working Load Lbs.	E Inches (cm)	M Inches (cm)	Rotating Eye Dia. Inches (cm)	Color Code	Catalog Number
.25"-.49" (.63-1.24)	6,800	1,360	5" (12.70)	26" (66.04)	⅞" (2.22)	Dark Green	**03302016**
.50"-.74" (1.27-1.88)	10,000	2,000	6" (15.24)	32" (81.28)	1" (2.54)	Brown	**03302018**
.75"-.99" (1.90-2.51)	14,400	2,880	6" (15.24)	41" (104.14)	1" (2.54)	Light Blue	**03302020**
1.00"-1.24" (2.54-3.15)	24,600	4,920	8" (20.32)	52" (132.08)	1⅜" (3.49)	Gold	**03302022**
1.25"-1.49" (3.17-3.78)	30,600	6,120	8" (20.32)	56" (142.24)	1⅝" (4.13)	Black	**03302024**
1.50"-1.74" (3.81-4.42)	30,600	6,120	9" (22.86)	60" (152.40)	1⅞" (4.76)	Red	**03302026**
1.75"-2.24" (4.44-5.69)	48,000	9,600	10" (25.40)	70" (177.80)	1⅞" (4.76)	Dark Blue	**03302028**
2.00"-2.49" (5.08-6.32)	48,000	9,600	10" (25.40)	50" (127.00)	1⅞" (4.76)	Yellow	**03302066**
2.50"-2.99" (6.35-7.59)	48,000	9,600	10" (25.40)	52" (132.08)	1⅞" (4.76)	Orange	**03302097**
3.00"-3.49" (7.62-8.86)	48,000	9,600	10" (25.40)	50" (127.00)	1⅞" (4.76)	Aluminum	**033021030**
3.50"-3.99" (8.89-10.13)	48,000	9,600	10" (25.40)	53" (134.62)	1⅞" (4.76)	Light Green	**033021031**

Note: E- Eye length M-Mesh length at nominal diameter.

Flexible Eye Feature

Multiple Strength Grips are also available with a flexible, patented wire rope eye. This compact eye will mate with a swivel, and pass through blocks and sheaves without binding.



Multiple Strength Grip, Flexible Eye

Cable Diameter Range Inches (cm)	Approx. Breaking Strength Lbs.	Working Load Lbs.	E Inches (cm)	M Inches (cm)	A Eye Dia. Inches (cm)	Color Code	Catalog Number
.25"-.49" (.63-1.24)	6,800	1,360	9" (22.86)	26" (66.04)	¼" (.63)	Dark Green	**03302044**
.50"-.74" (1.27-1.88)	10,000	2,000	9" (22.86)	32" (81.28)	5/16" (.79)	Brown	**03302046**
.75"-.99" (1.90-2.51)	14,400	2,880	11" (27.94)	41" (104.14)	⅜" (.95)	Light Blue	**03302048**
1.00"-1.24" (2.54-3.15)	24,600	4,920	12" (30.48)	52" (132.08)	½" (1.27)	Gold	**03302050**
1.25"-1.49" (3.17-3.78)	30,600	6,120	12" (30.48)	56" (142.24)	½" (1.27)	Black	**03302052**
1.50"-1.74" (3.81-4.42)	30,600	6,120	12" (30.48)	60" (152.40)	½" (1.27)	Red	**03302054**
1.75"-2.24" (4.44-5.69)	48,000	9,600	18" (45.72)	70" (177.80)	⅝" (1.59)	Dark Blue	**03302056**
2.00"-2.49" (5.08-6.32)	48,000	9,600	18" (45.72)	50" (127.00)	⅝" (1.59)	Yellow	**033021078**
2.50"-2.99" (6.35-7.59)	48,000	9,600	18" (45.72)	52" (132.08)	⅝" (1.59)	Orange	**033021079**
3.00"-3.49" (7.62-8.86)	48,000	9,600	18" (45.72)	50" (127.00)	⅝" (1.59)	Aluminum	**033021080**
3.50"-3.99" (8.89-10.13)	48,000	9,600	18" (45.72)	53" (134.62)	⅝" (1.59)	Light Green	**033021081**

Note: E- Eye length. M-Mesh length at nominal diameter.

1. *Do not run grips or swivels over bullwheels while under tension.*
2. *Two bands should be firmly attached approximately 1" and 2" (2.54cm and 5.08cm) from the grip's tail. Banding is required to ensure maximum reliability and guard against accidental release, see page V-16.*

Dimensions in Inches (mm)

Bolting Section

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Torque Wrenches
Turn Of Nut Wrench

TONE®
BOLTING SOLUTION COMPANY

TN-20EZ
TURN OF NUT WRENCH

CAPACITY

Max. Torque - 400 ftlb (540 Nm)

ACCESSORIES

- **Inch Sockets** - 1 1/16", 1 1/4", 1 7/16", 1 5/8"
- **Metric Sockets** - 24mm, 27mm, 30mm, 32mm, 36mm, 41mm

100mm (3 7/8 in.) X-Holder Socket Extension

DTM5 Digital Torque Meter



SPECIFICATIONS

MODEL	VOLTAGE	MAX. POWER CONSUMPTION	MAX CURRENT
TN-20EZ	110-120 V	1100W	13.5 A

TN-22EZ
TURN OF NUT WRENCH

CAPACITY

Max. Torque - 540 ftlb (730 Nm)

ACCESSORIES

- **Inch Sockets** - 1 1/16", 1 1/4", 1 7/16", 1 5/8"
- **Metric Sockets** - 24mm, 27mm, 30mm, 32mm, 36mm, 41mm

100mm (3 7/8 in.) X-Holder Socket Extension

DTM8 Digital Torque Meter



SPECIFICATIONS

MODEL	VOLTAGE	MAX. POWER CONSUMPTION	MAX CURRENT
TN-22EZ	110-120 V	1100W	13.5 A

Torque Wrenches
Turn Of Nut Wrench

TONE®
BOLTING SOLUTION COMPANY

TN-24EZA
TURN OF NUT WRENCH



CAPACITY

Max. Torque – 920 ftlb (1250 Nm)

ACCESSORIES

- **Inch Sockets** - 1 1/4", 1 7/16", 1 5/8", 1 13/16"
- **Metric Sockets** - 32mm, 36mm, 41mm, 46mm

100mm (3 7/8 in.) X-Holder Socket Extension

DTM12 Digital Torque Meter

SPECIFICATIONS

MODEL	VOLTAGE	MAX. POWER CONSUMPTION	MAX CURRENT
TN-24EZA	110-120 V	1100W	13.5 A

TN-30EZ
TURN OF NUT WRENCH



CAPACITY

Max. Torque – 1440 ftlb (1950 Nm)

ACCESSORIES

- **Inch Sockets** - 1 7/16", 1 5/8", 1 13/16", 2", 2 3/16", 2 3/8"
- **Metric Sockets** - 41mm, 46mm, 50mm, 55mm

100mm (3 7/8 in.) and 200mm (7 7/8 in.) X-Holder Socket Extension

DTM21 Digital Torque Meter

SPECIFICATIONS

MODEL	VOLTAGE	MAX. POWER CONSUMPTION	MAX CURRENT
TN-30EZ	110-120 V	1300W	15.0 A

Torque Wrenches
Turn Of Nut Wrench

TONE®
BOLTING SOLUTION COMPANY

TN-33EZ
TURN OF NUT WRENCH



CAPACITY

Max. Torque – 2200 ft lb (2980 Nm)

ACCESSORIES

- **Inch Sockets** - 1 7/16", 1 5/8", 1 13/16", 2", 2 3/16", 2 3/8"
- **Metric Sockets** - 41mm, 46mm, 50mm, 55mm

100mm (3 7/8 in.) and 200mm (7 7/8 in.) X-Holder Socket Extension

SPECIFICATIONS

MODEL	VOLTAGE	MAX. POWER CONSUMPTION	MAX CURRENT
TN-33EZ	110-120 V	1100W	13.5 A

TN-39EZ
TURN OF NUT WRENCH



CAPACITY

Max. Torque – 3700 ft lb (5000 Nm)

ACCESSORIES

- **Inch Sockets** - 2", 2 3/16", 2 3/8"
- **Metric Sockets** - 50mm, 55mm

SPECIFICATIONS

MODEL	VOLTAGE	MAX. POWER CONSUMPTION	MAX CURRENT
TN-39EZ	110-120 V	1350W	12.0 A

Torque Wrenches
Turn Of Nut Wrench

TONE®
BOLTING SOLUTION COMPANY

TNC-24EZA
TURN OF NUT WRENCH



CAPACITY

Max. Torque – 920 ftlb (1250 Nm)

ACCESSORIES

- **Inch Sockets** - 1 1/4", 1 7/16", 1 5/8", 1 13/16"
- **Metric Sockets** - 32mm, 36mm, 41mm, 46mm

100mm (3 7/8 in.) X-Holder Socket Extension

DTM12 Digital Torque Meter

SPECIFICATIONS

MODEL	VOLTAGE	MAX. POWER CONSUMPTION	MAX CURRENT
TN-24EZA	110-120 V	1100W	13.5 A

Shear Wrenches

TONE®
BOLTING SOLUTION COMPANY

S-61EZ
SHEAR WRENCH



CAPACITY

- **A325** (F1852) TC Bolts – 1/2", 5/8", 3/4", 7/8", M16, M20
- **A490** (F2280) TC Bolts – 1/2", 5/8", 3/4", 7/8", M16, M20

ACCESSORIES

200mm (7 7/8") extension socket for 3/4" TC Bolts.

SPECIFICATIONS

MODEL	VOLTAGE	MAX CURRENT	RATED POWER
S-61EZ	110-120 V	13.5 A	1300W
S-62EZ	220-230 V	5.5 A	1100W

6922NB
SHEAR WRENCH



CAPACITY

- **A325** (F1852) TC Bolts – 5/8", 3/4", 7/8"
- **A490** (F2280) TC Bolts – 5/8", 3/4", 7/8"

ACCESSORIES

84mm (3 5/16") extension socket for 3/4" & 7/8" TC

SPECIFICATIONS

MODEL	VOLTAGE	MAX CURRENT
6922NB	115 V	12.0 A

Shear Wrenches

TONE®
BOLTING SOLUTION COMPANY

GS-91EZ

SHEAR WRENCH



CAPACITY

- **A325** (F1852) TC Bolts – 5/8", 3/4", 7/8", 1", M16, M20, M22
- **A490** (F2280) TC Bolts – 5/8", 3/4", 7/8", 1", M16, M20, M22

ACCESSORIES

200mm (7 7/8") extension socket for 7/8" TC Bolts.

SPECIFICATIONS

MODEL	VOLTAGE	MAX CURRENT	RATED POWER
GS-91EZ	110-120 V	17 A	1750W
GS-92EZ	220-230 V	8.5 A	1750W

GS-111EZ

SHEAR WRENCH



CAPACITY

- **A325** (F1852) TC Bolts – 3/4", 7/8", 1", 1 1/8", M20, M22, M24
- **A490** (F2280) TC Bolts – 3/4", 7/8", 1", 1 1/8", M20, M22, M24

ACCESSORIES

200mm (7 7/8") extension socket for 1" & 1 1/8" TC Bolts.

SPECIFICATIONS

MODEL	VOLTAGE	MAX CURRENT	RATED POWER
GS-111EZ	110-120 V	19 A	2000W
GS-112EZ	220-230 V	9.5 A	2000W

Shear Wrenches

TONE®
BOLTING SOLUTION COMPANY

GV-301EZ

SHEAR WRENCH



CAPACITY

- **A325** (F1852) TC Bolts – 1", 1 1/8", 1 ¼", M27, M30
- **A490** (F2280) TC Bolts – 1", 1 1/8", M27, M30

SPECIFICATIONS

MODEL	VOLTAGE	MAX CURRENT	RATED POWER
GV-301EZ	110-120 V	11 A	1200W
GV-302EZ	220-230 V	5.5 A	1200W

GMC-221EZ

SHEAR WRENCH



CAPACITY

- **A325** (F1852) TC Bolts – 5/8", 3/4", 7/8", M16, M20, M22
- **A490** (F2280) TC Bolts – 5/8", 3/4", 7/8", M16, M20, M22

SPECIFICATIONS

MODEL	VOLTAGE	MAX CURRENT	RATED POWER
GMC-221EZ	110-120 V	13.5 A	1550 W
GMC-222EZ	220-230 V	7.0 A	1550 W

Shear Wrenches

TONE®
BOLTING SOLUTION COMPANY

GHC-241EZ

SHEAR WRENCH



CAPACITY

- **A325** (F1852) TC Bolts – 3/4", 7/8", 1", M16, M20, M22, M24
- **A490** (F2280) TC Bolts – 3/4", 7/8", 1", M16, M20, M22, M24

SPECIFICATIONS

MODEL	VOLTAGE	MAX CURRENT	RATED POWER
GHC-241EZ	110-120 V	14.5 A	1650 W
GHC-242EZ	220-230 V	7.5 A	1650 W

GVC-301EZ

SHEAR WRENCH



CAPACITY

- **A325** (F1852) TC Bolts – 1", 11/8", 1 1/4", M27, M30
- **A490** (F2280) TC Bolts – 1", 11/8", 1 1/4", M27, M30

SPECIFICATIONS

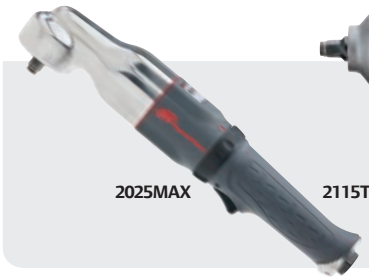
MODEL	VOLTAGE	MAX CURRENT	RATED POWER
GVC-301EZ	110-120 V	14.0 A	1550W
GVC-302EZ	220-230 V	7.0 A	1550W

Impact Wrenches
Air



3/8" & 1/2"

2100 MAX Series







MAINTENANCE DUTY

- Titanium hammer case
- Cast aluminum hammer case (2015/25 MAX)
- Composite housing
- Reverse-biased motor
- Twin hammer mechanism
- Jumbo hammer mechanism (2015/25 MAX)
- 1/4" NPT inlet

Model	Description	Details	Handle	1 min.	1 min	Max. ft-lbs	ft-lbs		L		ø	
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
2015MAX	3/8" Square at 90°	Hog-ring	Straight	7,100	2,100	F: 150 (203) R: 180 (244)	F: 45 – 140 (61 – 190) R: 45 – 160 (61 – 217)	3.4 (1.54)	13.1 (332)	1.1 (28)	3/8 (10)	19 (538)
2025MAX	1/2" Square at 90°	Hog-ring	Straight	7,100	2,100	F: 150 (203) R: 180 (244)	F: 45 – 140 (61 – 190) R: 45 – 160 (61 – 217)	3.4 (1.54)	13.1 (332)	1.1 (28)	3/8 (10)	19 (538)
2115TiMAX-AP	3/8" Square	Hog-ring	Pistol	15,000	1,500	F: 250 (339) R: 300 (407)	F: 25 – 230 (34 – 312) R: 55 – 280 (75 – 300)	2.48 (1.12)	5.95 (151)	1.1 (28)	3/8 (10)	17 (481)
2115QTiMAX-AP	3/8" Square	Hog-ring, Quietool	Pistol	15,000	1,500	F: 250 (339) R: 300 (407)	F: 25 – 230 (34 – 312) R: 55 – 280 (75 – 300)	2.48 (1.12)	5.95 (151)	1.1 (28)	3/8 (10)	17 (481)
2115PTiMAX-AP	3/8" Square	Pin Retainer	Pistol	15,000	1,500	F: 250 (339) R: 300 (407)	F: 25 – 230 (34 – 312) R: 55 – 280 (75 – 300)	2.48 (1.12)	5.95 (151)	1.1 (28)	3/8 (10)	17 (481)
2125QTiMAX-AP	1/2" Square	Hog-ring, Quietool,	Pistol	15,000	1,500	F: 277 (375) R: 332 (450)	F:25 – 251 (34 – 340) R:76 – 302 (103 – 410)	2.51 (1.14)	6.1 (155)	1.1 (28)	3/8 (10)	17 (481)
2125PTiMAX-AP	1/2" Square	Pin Retainer	Pistol	15,000	1,500	F: 277 (375) R: 332 (450)	F: 25 – 251 (34 – 340) R: 76 – 302 (103 – 410)	2.51 (1.14)	6.1 (155)	1.1 (28)	3/8 (10)	17 (481)
2135TiMAX-AP	1/2" Square	Hog-ring	Pistol	9,800	1,250	F: 600 (813) R: 780 (1054)	F: 50 – 550 (68 – 746) R: 150 – 650 (203 – 880)	3.95 (1.79)	7.35 (186.7)	1- 3/8 (35)	3/8 (10)	24 (680)
2135QTiMAX-AP	1/2" Square	Hog-ring, Quietool,	Pistol	9,800	1,250	F: 600 (813) R: 780 (1054)	F: 50 – 550 (68 – 746) R: 150 – 650 (203 – 880)	3.95 (1.79)	7.35 (186.7)	1- 3/8 (35)	3/8 (10)	24 (680)
2135PTiMAX-AP	1/2" Square	Pin Retainer	Pistol	9,800	1,250	F: 600 (813) R: 780 (1054)	F: 50 – 550 (68 – 746) R: 150 – 650 (203 – 880)	3.95 (1.79)	7.35 (186.7)	1- 3/8 (35)	3/8 (10)	24 (680)
2135QPTIMAX-AP	1/2" Square	Pin Retainer, Quietool	Pistol	9,800	1,250	F: 600 (813) R: 780 (1054)	F: 50 – 550 (68 – 746) R: 150 – 650 (203 – 880)	3.95 (1.79)	7.35 (186.7)	1- 3/8 (35)	3/8 (10)	24 (680)

Note: 2" extended anvil models: 2135Ti-2MAX-AP & 2135QTi-2MAX-AP

Impact Wrenches
Air

Ingersoll Rand

1/4" QC, 3/8" & 1/2"



1702 Series



1702P1



1702SB1

HEAVY DUTY
- Jumbo hammer mechaism
- Steel hammer case
- Pressure-fed mechanism lubrication
- 1/4" NPT inlet

Model	Description	Details	Handle	1 min.	1 min	Max ft-lbs	ft-lbs		L		ø	
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
1702P1	3/8" square	Pin Retainer	Pistol	10,000	1,500	125 (170)	20 – 100 (27 – 136)	2.75 (1.25)	5.5 (140)	1.38 (34)	5/16 (8)	15 (425)
1702P4	1/4" hex	Pin Retainer	Pistol	10,000	1,500	125 (170)	20 – 100 (27 – 136)	2.75 (1.25)	5.5 (140)	1.38 (35)	5/16 (8)	15 (425)
1702SB1	3/8" square	Pin Retainer	Straight	10,000	1,500	105 (142)	13 – 85 (18 – 115)	2.5 (1.12)	5.88 (149)	1 (25)	5/16 (8)	13 (368)

2700 Series



2705P1



2707P1

HEAVY DUTY
- Twin hammer mechaism
- Steel hammer case
- Pressure-fed mechanism lubrication
- 1/4" NPT inlet

Model	Description	Details	Handle	1 min.	1 min	Max ft-lbs	ft-lbs		L		ø	
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
2705P1	1/2" square	Pin Retainer	Pistol	8,500	1,200	400 (542)	40 – 250 (54 – 271)	5.63 (2.55)	6.75 (171)	1.38 (34)	3/8 (10)	23 (651)
2707P1	1/2" hex	Pin Retainer	Pistol	7,750	1,300	450 (610)	40 – 275 (54 – 373)	6 (2.72)	6.5 (165)	1.38 (34)	3/8 (10)	26 (736)

Impact Wrenches
Air



3/8" & 1/2"

2900 Series


2902P1


2906P1

SUPER DUTY
- Steel hammer case
- Jumbo hammer mechanism (2902P1)
- Twin hammer mechanism (2906P1)
- Pressure-fed mechanism lubrication
- Integral muffler
- 1/4" NPT inlet

Model	Description	Details	Handle	1 min.	1 min	Max. ft-lbs	ft-lbs	lb (kg)	L in (mm)	in (mm)	ø in (mm)	cfm
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
2902P1	3/8" square	Pin Retainer	Pistol	10,000	1,500	180 (244)	20 – 150 (27 – 204)	2.5 (1.25)	5.5 (140)	1.38 (35)	3/8 (10)	15 (425)
2906P1	1/2" square	Pin Retainer	Pistol	5,000	1,200	500 (678)	40 – 350 (54 – 475)	6 (2.72)	6.88 (175)	1.34 (34)	3/8 (10)	23 (651)

Tune-up kits

Part Number	For Use With
3/8" & 1/2" IMPACTOOL	
2015-TK	2015/25 MAX
2115-TK2	2115/25 MAX
2135-TK2	2135 MAX
1702SB-TK2	1702SB1
1702P-TK2	1702P1, 2902P1
2705-TK3	2705P1
2707-TK2	2707P1
2906P-TK1	2906P1

Hammer kits

Part Number	For Use With
3/8" & 1/2" IMPACTOOL	
2015-THK	2015/25 MAX
2115-THK2	2115/25 MAX
2135-THK1	2135TiMAX 2135QTiMAX
2135PTi-THK1	2135PTiMAX 2135QPTiMAX

Note: Ingersoll Rand lubricants and greases are available to fulfill maintenance needs.

Anvils & hangers

Part Number	Description	For Use With
3/8" & 1/2" IMPACTOOL		
1702-A926-4	1/4"hex quick change anvil assembly	1702/2902 Series
2U-A925-4	Quick change chuck for 1/4" hex shank accessories	1702/2902 Series
1702-A926-7	7/16"hex quick change anvil assembly	1702/2902 Series
502-A925-7	Quick change chuck for 7/16" hex shank accessories	1702/2902 Series
705-A926-7	7/16" hex quick change anvil assembly	2906P1
1901-365	Vertical hanger	1702SB1
2908-365	Vertical hanger	2906P1
1901-366	Horizontal hanger	1702SB1
2706-366	Horizontal hanger	2707P1
904-366	Horizontal hanger	2906P1
2U-215	Socket adapter (3/8" to 1/2")	1702SB1



Impact Wrenches
Air

Ingersoll Rand

3/4" & 1"



2100 Series


2145QiMAX-AP


2171XP

MAINTENANCE DUTY

- Steel hammer case
- Composite housing (2145Series, 2155QiMAX)
- Twin hammer mechanism
- Jumbo hammer mechanism (2161, 2171P)
- 3/8 NPT inlet

Model	Description	Details	Handle	1 min. rpm	1 min	Max. ft-lbs ft-lb (Nm)	ft-lbs ft-lb (Nm)	lb (kg)	L in (mm)	in (mm)	ø in (mm)	cfm
2145QiMAX-AP	3/4" square Reverse bias motor	Hog-ring & Through-hole socket retainer	Pistol	7,000	1,150	F: 1,100 (1492) R:1,350 (1830)	F: 200 – 900 (272 – 1220) R: 200 – 1000 (272 – 1356)	7.4 (3.4)	8.5 (217)	1.6 (41.5)	1/2 (13)	32 (906)
2155QiMAX	1" square Reverse bias motor	Hog-ring & Through-hole socket retainer	Pistol	7,000	1,150	F: 1,100 (1492) R:1,350 (1830)	F: 200 – 900 (272 – 1220) R: 200 – 1000 (272 – 1356)	7.4 (3.4)	8.8 (225)	1.6 (41.5)	1/2 (13)	32 (906)
2161XP	3/4" square	Hog-ring	Pistol	6,000	1,025	1,250 (1695)	300 – 1,000 (407 – 1360)	12.14 (5.5)	8.3 (210)	1.75 (44)	1/2 (13)	46 (1303)
2161P	3/4" square	Through-hole socket retainer	Pistol	6,000	1,025	1,250 (1695)	300 – 1,000 (407 – 1360)	12.14 (5.5)	8.3 (210)	1.75 (44)	1/2 (13)	46 (1303)
2171XP	1" square	Hog-ring	Pistol	6,000	1,025	1,250 (1695)	300 – 1,000 (407 – 1360)	12.32 (5.6)	8.5 (216)	1.75 (44)	1/2 (13)	46 (1303)
2171P	1" square	Through-hole socket retainer	Pistol	6,000	1,025	1,250 (1695)	300 – 1,000 (407 – 1360)	12.32 (5.6)	8.5 (216)	1.75 (44)	1/2 (13)	46 (1303)

Note: 1) 3" extended anvil models: 2145QiMAX-3
2) 6" extended anvil models: 2145QiMAX-6, 2161XP-6 & 2171XP-6

1700 Series


1720P1


1720B1

HEAVY DUTY

- Steel hammer case
- Jumbo hammer mechanism
- Pressure-feed mechanism lubrication
- Integral muffler
- 3/8" inlet
- 1" drive × 6" extended anvil for 1712B2 (Part#280-726-6)

Model	Description	Details	Handle	1 min. rpm	1 min	Max. ft-lbs ft-lb (Nm)	ft-lbs ft-lb (Nm)	lb (kg)	L in (mm)	in (mm)	ø in (mm)	cfm
1720P1	3/4" square	Through-hole socket retainer	Pistol	5,500	1,000	1,000 (1360)	200 – 600 (271 – 814)	12.54 (5.65)	7.63 (194)	1.91 (48)	1/2 (13)	40 (1133)
1720P3	1" square	Through-hole socket retainer	Pistol	5,500	1,100	1,100 (1491)	250 – 750 (339 – 1017)	12.54 (5.65)	7.63 (194)	1.91 (48)	1/2 (13)	40 (1133)
1720B1	3/4" square	Through-hole socket retainer	Grip I.T.	5,500	1,000	1,000 (1360)	200 – 600 (271 – 814)	13.87 (6.29)	11.75 (299)	1.91 (48)	1/2 (13)	40 (1133)
1720B3	1" square	Through-hole socket retainer	Grip I.T.	5,500	1,000	1,100 (1491)	250 – 750 (339 – 1017)	13.87 (6.29)	11.75 (299)	1.91 (48)	1/2 (13)	40 (1133)
1712B2	1" square	Through-hole socket retainer	Grip I.T.	6,000	800	1,350 (1898)	450 – 1,000 (610 – 1356)	18.25 (8.28)	11.25 (286)	2.19 (56)	3/4 (19)	47 (1331)

Note: 1) Grip-straight/inline shape
2) I.T.-Inside Trigger

Impact Wrenches
Air

Ingersoll Rand



3/4" & 1"

2920 Series





SUPER DUTY
- Steel hammer case
- Twin hammer mechanism
- Pressure-fed mechanism lubrication
- Integral muffler
- 3/8" NPT inlet
- 6" Extended anvil as option (part#2910B-726-6)

Model	Description	Details	Handle	1 min.	1 min	Max. ft-lbs	ft-lbs		L		ø	
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
2920B1	3/4" square	Through-hole socket retainer	Grip I.T.	5,000	950	1,100 (1492)	250 – 800 (339 – 1085)	13.19 (5.98)	12.5 (318)	1.91 (49)	1/2 (13)	36 (1020)
2920B9	3/4" square at 90°	Through-hole socket retainer	Grip I.T.	5,000	950	550 (746)	125 – 400 (170 – 542)	23.69 (10.75)	17.5 (445)	1.31 (33)	1/2 (13)	36 (1020)

Note: 1) Grip-straight/inline shape
2) I.T.-Inside Trigger
3) O.T.-Outside Trigger

2925Ti Series





SUPER DUTY
- Titanium hammer case
- Corrode-X™ component package
- Twin hammer mechanism
- Choice of balanced or reversed bias motor
- Pressure-fed mechanism lubrication
- Integral muffler
- 3/8" NPT inlet

Model	Description	Details	Handle	1 min.	1 min	Max. ft-lbs	ft-lbs		L		ø	
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
2925P1Ti	3/4" square	Through-hole socket retainer	Pistol	5,200	1,050	1,450 (1966)	350 – 1,100 (475 – 1492)	12 (5.44)	8.9 (225)	1.75 (44)	1/2 (13)	60 (1699)
2925RBP1Ti	3/4" square reverse bias	Through-hole socket retainer	Pistol	5,200	1,050	F: 1,300 (1763) R: 1,600 (2169)	F: 300 – 950 (407 – 1288) R:400 – 1,400 (542 – 1898)	12 (5.44)	8.9 (225)	1.75 (44)	1/2 (13)	60 (1699)
2925B2Ti	1" square	Through-hole socket retainer	Grip I.T.	6,500	900	1,600 (2169)	350 – 1,250 (475 – 1695)	15.2 (6.89)	13.28 (334)	1.75 (44)	1/2 (13)	60 (1699)
2925RB2Ti	1" square reverse bias	Through-hole socket retainer	Grip I.T.	6,500	900	F: 1,500 (2333) R: 1,700 (2304)	F: 300 – 950 (407 – 1288) R: 400 – 1,400 (542 – 1898)	15.2 (6.89)	13.28 (334)	1.75 (44)	1/2 (13)	60 (1699)
2925P3Ti	1" square	Through-hole socket retainer	Pistol	5,200	1,050	1,450 (1966)	350 – 1,100 (475 – 1492)	12.2 (5.54)	9.04 (230)	1.74 (44)	1/2 (13)	60 (1699)
2925RBP3Ti	1" square reverse bias	Through-hole socket retainer	Pistol	5,200	1,050	F: 1,300 (1763) R: 1,600 (2169)	F: 300 – 950 (407 – 1288) R: 400 – 1,400 (542 – 1898)	12.2 (5.54)	9.04 (230)	1.74 (44)	1/2 (13)	60 (1699)

Impact Wrenches
Air

Ingersoll Rand

1"



2934 & 2940 Series



2934P2



2934A2 (O.T.-Outside Trigger)
2934B2

SUPER DUTY
- Cast iron hammer case
- Bronze endplates
- Twin hammer mechanism
- Pressure-fed mechanism lubrication
- Integral muffler
- 1/2" NPT inlet

Model	Description	Details	Handle	1 min.	1 min	Max. ft-lbs	ft-lbs		L		ø	
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
2934B2	1" square	Through-hole socket retainer	Grip I.T.	6,600	750	1,500 (2034)	500 – 1,100 (678 – 1491)	18.5 (8.39)	11.25 (286)	2.19 (56)	3/4 (19)	47 (1331)
2934B9	1" square at 90°	Through-hole socket retainer	Grip I.T.	5,300	780	750 (1017)	250 – 500 (339 – 678)	35.75 (16.2)	18.63 (473)	1.63 (41)	3/4 (19)	47 (1331)
2934P2	1" square	Through-hole socket retainer	Pistol	5,300	825	1,500 (2034)	500 – 1,100 (678 – 1491)	20 (9.07)	8.63 (219)	2.19 (56)	3/4 (19)	47 (1331)
2940B2	1" square	Through-hole socket retainer	Grip I.T.	5,000	850	2,000 (2,710)	1,000-1,600 (1360-2169)	22 (9.98)	12.25 (311)	2.19 (56)	3/4 (19)	58 (1643)
2940P2	1" square	Through-hole socket retainer	Pistol	4,000	810	2,000 (2,710)	1,000-1,600 (1360-2169)	22.88 (10.40)	9.88 (251)	2.19 (56)	3/4 (19)	58 (1643)

Note: 1) #5 spline models-2940B1 (I.T.) & 2940A1 (O.T.)
2) Grip O.T.Model-2940A2

3940Ti Series



3940P2Ti



3940B2Ti

SUPER DUTY
- Titanium hammer case
- Bronze endplates
- Twin hammer mechanism
- Reverse bias motor
- Pressure-fed mechanism lubrication
- Integral muffler
- 1/2" NPT inlet

Model	Description	Details	Handle	1 min.	1 min	Max. ft-lbs	ft-lbs		L		ø	
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
3940A1Ti	No. 5 spline	Through-hole socket retainer	Grip O.T.	6,000	800	2,500 (3390)	F: 500 – 1,650 (680 – 2240) R: 500 – 1,800 (680 – 2440)	21.2 (9.6)	13.4 (341)	2.3 (59)	3/4 (19)	75 (2124)
3940A2Ti	1" square	Through-hole socket retainer	Grip O.T.	6,000	800	2,500 (3390)	F: 500 – 1,650 (680 – 2240) R: 500 – 1,800 (680 – 2440)	21.2 (9.6)	13.4 (341)	2.3 (59)	3/4 (19)	75 (2124)
3940B1Ti	No. 5 spline	Through-hole socket retainer	Grip I.T.	6,000	800	2,500 (3390)	F: 500 – 1,650 (680 – 2240) R: 500 – 1,800 (680 – 2440)	21.2 (9.6)	13.4 (341)	2.3 (59)	3/4 (19)	75 (2124)
3940B2Ti	1" square	Through-hole socket retainer	Grip I.T.	6,000	800	2,500 (3390)	F: 500 – 1,650 (680 – 2240) R: 500 – 1,800 (680 – 2440)	21.2 (9.6)	13.4 (341)	2.3 (59)	3/4 (19)	75 (2124)
3940P2Ti	1" square	Through-hole socket retainer	Pistol	5,300	800	2,500 (3390)	F: 500 – 1,650 (680 – 2240) R: 500 – 1,800 (680 – 2440)	20.4 (9.3)	10.1 (256)	2.3 (59)	3/4 (19)	75 (2124)

Impact Wrenches
Air

Ingersoll Rand



1"

3942Ti Series



3942B2Ti



3942A2Ti

SUPER DUTY

- Titanium hammer case
- Bronze endplates
- Twin hammer mechanism
- Reverse bias motor
- Pressure-fed mechanism lubrication
- Integral muffler
- 1/2" NPT inlet

Model	Description	Details	Handle	1 min.	1 min	Max. ft-lbs	ft-lbs	lb (kg)	L in (mm)	in (mm)	ø in (mm)	cfm
				rpm		ft-lb (Nm)	ft-lb (Nm)					
3942A2Ti	1" square	Through-hole socket retainer	Grip O.T.	5,000	850	3,250 (4406)	F: 1,000 – 1,950 (1356 – 2644) R: 1,000 – 2,100 (1356 – 2848)	22.6 (10.5)	14.2 (361)	2.3 (59)	3/4 (19)	95 (2690)
3942B1Ti	No. 5 spline	Through-hole socket retainer	Grip I.T.	5,000	850	3,250 (4406)	F: 1,000 – 1,950 (1356 – 2644) R: 1,000 – 2,100 (1356 – 2848)	22.6 (10.5)	14.2 (361)	2.3 (59)	3/4 (19)	95 (2690)
3942B2Ti	1" square	Through-hole socket retainer	Grip I.T.	5,000	850	3,250 (4406)	F: 1,000 – 1,950 (1356 – 2644) R: 1,000 – 2,100 (1356 – 2848)	22.6 (10.5)	14.2 (361)	2.3 (59)	3/4 (19)	95 (2690)

Tune-up kits

Part Number	For Use With
3/4" TO 1-1/2" IMPACTOOL	
2145-TK2	2145 Series
2161-TK2	2161XP, 2161P 2171XP, 2171P
1720B-TK2	1720B1, 1720B3
1720P-TK2	1720P1, 1720P3
1712B/1712P-TK3	1712B2
2920B-TK2	2920B Series
2925B-TK2	2925Ti Series
2934-TK3	2934 Series
2940-TK3	2940 Series
2945-TK2	2945 Series
2950-TK2	2950 Series
3940-TK1	3940Ti Series
3942-TK1	3942Ti Series
3955-TK1	3955Ti Series

Anvils, Hangers & Exhaust Kit

Part Number	Description	For Use With
3/4" & 1" IMPACTOOL		
1712-A526	Spline drive anvil assembly	1712B2
2910B-A926-10	Quick change anvil assembly	2920 Series
2910-A526	#4 spline drive anvil assembly	2920 Series & 2925 Series
2934-A526	Spline drive anvil assembly	2934 Series
2161-366	Horizontal hanger	2161/71 & 2925Ti Series
910-366	Horizontal hanger	1720/2920 Series
2934-366	Horizontal hanger	1712B2 & 2934 & 2940 Series
2934-314-6	1" × 6" extended anvil	2934 Series
2940-314-6	1" × 6" extended anvil & hammer kits	2940 Series
2161-123	Piped-away exhaust kit	2925 & 2161P
2940-K184	Piped-away exhaust kit	2934/2940/ 2945 & 2950 Series



Note: Ingersoll Rand lubricants & greases are available to fulfill maintenance needs. Refer to Parts Lists for details.

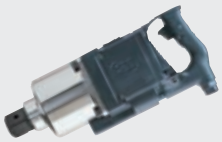
Impact Wrenches
Air

Ingersoll Rand

1-1/2"– 3-1/2"



2950 & 3955Ti Series


2950B7


3955A2Ti

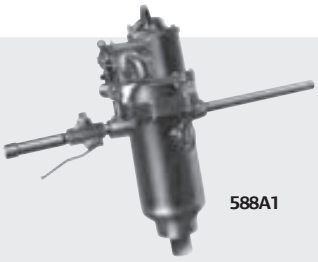

3955B2Ti

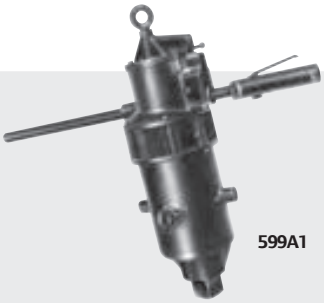
SUPER DUTY

- Ploted iron hammer case (2950 Series)
- Titanium hammer case (3955 Series)
- Bronze endplates (3955 Series)
- Twin hammer mechanism
- Reverse bias motor (3955 Series)
- Pressure-fed mechanism lubrication
- Integral muffler
- 1/2" NPT inlet
- Durable epoxy-coated handle/housing (2950 Series)

Model	Description	Details	Handle	1 min.	1 min	Max ft-lbs	ft-lbs		L		ø	
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
3955A2Ti	1-1/2" square	Through-hole socket retainer	Grip O.T.	2,750	700	5,000 (6779)	F: 1,600 – 3,900 (2169 – 5288) R: 1,600 – 4,150 (2170 – 5630)	34.6 (15.7)	16.65 (423)	2.67 (68)	3/4 (19)	80 (2265)
3955B1Ti	No. 5 spline	Through-hole socket retainer	Grip I.T.	2,750	700	5,000 (6779)	F: 1,600 – 3,900 (2169 – 5288) R: 1,600 – 4,150 (2170 – 5630)	34.6 (15.7)	16.65 (423)	2.67 (68)	3/4 (19)	80 (2265)
3955B2Ti	1-1/2" square	Through-hole socket retainer	Grip I.T.	2,750	700	5,000 (6779)	F: 1,600 – 3,900 (2169 – 5288) R: 1,600 – 4,150 (2170 – 5630)	34.6 (15.7)	16.65 (423)	2.67 (68)	3/4 (19)	80 (2265)
2950B7	1-1/2" square	Through-hole socket retainer	Grip I.T.	3,750	650	3,000 (4067)	1,600-2,500 (2170-3390)	32.63 (14.8)	14.5 (368)	2.5 (64)	3/4 (19)	70 (1982)

5000 Series


588A1


599A1

SUPER DUTY

- Cast aluminum hammer case (5980A1, 5982A1)
- Cast iron hammer case (588A1, 599A1)
- Precision ball and cam mechanism
- Built-in lubricator
- Lever throttle
- Dead handle
- Vertical and horizontal hangars

Model	Description	Details	Handle	1 min.	1 min	Max ft-lbs	ft-lbs		L		ø	
				rpm		ft-lb (Nm)	ft-lb (Nm)	lb (kg)	in (mm)	in (mm)	in (mm)	cfm
5980A1	1-1/2" square	3/4" NPT Inlet	Lever	830	1,000	10,000 (13560)	2,300 – 5,500 (3119 – 7460)	88 (39.9)	23 (584)	3.06 (78)	1 (25)	138 (3908)
5982A1	2-1/2" square	3/4" NPT Inlet	Lever	830	850	20,000 (27120)	4,000 – 10,000 (5424 – 13560)	120 (54.5)	25.38 (645)	3.5 (90)	1 (25)	130 (3681)
588A1	2-1/2" square	1" NPT Inlet	Lever	355	550	50,000 (67800)	12,000 – 25,000 (16270 – 33900)	215 (97.5)	26.63 (676)	4 (101)	1 (25)	155 (4389)

Impact Sockets
1/2” Drive

MADE IN USA

WRIGHT



6 PT. STANDARD IMPACT METRIC SOCKETS

6

PART NUMBER	NOM. SIZE	SHAPE	L	DS	DD	BD
48-10mm	10mm	I	38.10	17.02	23.75	7.94
48-11mm	11mm	I	38.10	18.16	23.75	7.14
48-12mm	12mm	I	38.10	19.56	23.75	8.33
48-13mm	13mm	I	38.10	20.70	23.75	16.67
48-14mm	14mm	I	38.10	22.23	23.75	10.32
48-15mm	15mm	I	38.10	23.75	23.75	10.32
48-16mm	16mm	II	38.10	25.27	25.27	11.90
48-17mm	17mm	II	38.10	26.29	26.29	19.84
48-18mm	18mm	II	38.10	27.89	27.89	20.27
48-19mm	19mm	II	38.10	29.26	29.26	20.27
48-20mm	20mm	II	39.67	30.25	30.25	21.20
48-21mm	21mm	II	39.67	31.37	31.37	20.87
48-22mm	22mm	II	41.28	32.72	32.72	22.11
48-23mm	23mm	II	42.85	33.96	33.96	23.37
48-24mm	24mm	II	42.85	35.28	35.28	23.04
48-25mm	25mm	II	43.69	37.47	37.47	23.52
48-26mm	26mm	III	44.45	39.62	34.93	23.35
48-27mm	27mm	III	44.45	39.62	34.93	22.98
48-28mm	28mm	III	46.02	41.07	34.93	24.25
48-30mm	30mm	III	47.63	44.07	34.93	25.16
48-32mm	32mm	III	49.23	46.23	34.93	26.09
48-36mm	36mm	III	53.98	52.35	38.99	29.51

Meets or exceeds ASME B107.110. Refer to reference diagrams on page 209.



12 PT. STANDARD IMPACT SOCKETS

12

PART NUMBER	NOM. SIZE	SHAPE	L	DS	DD	BD
4864	7/16"	I	1-15/32"	47/64"	15/16"	7/32"
4866	1/2"	I	1-15/32"	13/16"	15/16"	17/64"
4868	9/16"	II	1-15/32"	15/16"	15/16"	21/64"
4870	5/8"	II	1-15/32"	1"	1"	3/8"
4872	11/16"	II	1-15/32"	1-1/16"	1-1/16"	49/64"
4874	3/4"	II	1-15/32"	1-5/32"	1-5/32"	3/4"
4876	13/16"	II	1-9/16"	1-15/64"	1-15/64"	53/64"
4878	7/8"	II	1-5/8"	1-5/16"	1-5/16"	55/64"
4880	15/16"	II	1-11/16"	1-25/64"	1-25/64"	29/32"
4882	1"	II	1-23/32"	1-7/16"	1-7/16"	59/64"
4884	1-1/16"	III	1-3/4"	1-1/2"	1-3/8"	29/32"
4886	1-1/8"	III	1-13/16"	1-5/8"	1-3/8"	15/16"
4888	1-3/16"	III	1-7/8"	1-11/16"	1-3/8"	63/64"
4890	1-1/4"	III	1-15/16"	1-3/4"	1-3/8"	1-1/32"
4892	1-5/16"	III	2"	2-1/64"	1-3/8"	1-1/16"
4894	1-3/8"	III	2-1/16"	2-1/16"	1-17/32"	1-1/8"
4896	1-7/16"	III	2-1/8"	2-5/32"	1-17/32"	1-5/32"
4898	1-1/2"	III	2-3/16"	2-15/64"	1-17/32"	1-3/16"

Meets or exceeds ASME B107.110. Refer to reference diagrams on page 209.

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

Impact Sockets
1/2” Drive

MADE IN USA

WRIGHT



6 PT. DEEP IMPACT SOCKETS

6

PART NUMBER	NOM. SIZE	SHAPE	L	DS	DD	BD
4912	3/8"	I	3-1/4"	21/32"	15/16"	5/32"
4914	7/16"	I	3-1/4"	23/32"	15/16"	7/32"
4916	1/2"	I	3-1/4"	51/64"	15/16"	17/64"
4918	9/16"	I	3-1/4"	7/8"	31/32"	21/64"
4920	5/8"	II	3-1/4"	1"	1"	3/8"
4922	11/16"	II	3-1/4"	1-1/16"	1-1/16"	2-35/64"
4924	3/4"	II	3-1/4"	1-5/32"	1-5/32"	2-17/32"
4926	13/16"	II	3-1/4"	1-15/64"	1-15/64"	2-1/2"
4928	7/8"	II	3-1/4"	1-5/16"	1-5/16"	2-3/4"
4930	15/16"	II	3-1/4"	1-3/8"	1-3/8"	2-27/32"
4932	1"	II	3-1/2"	1-7/16"	1-7/16"	2-45/64"
4934	1-1/16"	III	3-1/2"	1-1/2"	1-3/8"	2-21/32"
4936	1-1/8"	III	3-1/2"	1-5/8"	1-3/8"	2-5/8"
4938	1-3/16"	III	3-1/2"	1-3/4"	1-3/8"	2-19/32"
4940	1-1/4"	III	3-1/2"	1-3/4"	1-3/8"	2-19/32"
4942	1-5/16"	III	3-5/8"	2-1/64"	1-3/8"	2-9/16"
4944	1-3/8"	III	3-5/8"	2-1/16"	1-17/32"	2-35/64"
4946	1-7/16"	III	3-5/8"	2-5/32"	1-17/32"	2-17/32"
4948	1-1/2"	III	3-5/8"	2-15/64"	1-17/32"	2-1/2"

Meets or exceeds ASME B107.110. Refer to reference diagrams on page 209.



12 PT. DEEP IMPACT SOCKET

12

PART NUMBER	NOM. SIZE	SHAPE	L	DS	DD	BD
4964	7/16"	I	3-1/4"	47/64"	15/16"	7/32"
4966	1/2"	I	3-1/4"	13/16"	15/16"	17/64"
4968	9/16"	II	3-1/4"	15/16"	15/16"	21/64"
4970	5/8"	II	3-1/4"	1"	1"	3/8"
4972	11/16"	II	3-1/4"	1-1/16"	1-1/16"	3/8"
4974	3/4"	II	3-1/4"	1-5/32"	1-5/32"	2-1/2"
4976	13/16"	II	3-1/4"	1-15/64"	1-15/64"	2-1/2"
4978	7/8"	II	3-1/4"	1-5/16"	1-5/16"	2-3/4"
4980	15/16"	II	3-1/4"	1-3/8"	1-3/8"	2-27/32"
4982	1"	II	3-1/2"	1-7/16"	1-7/16"	2-45/64"
4984	1-1/16"	III	3-1/2"	1-1/2"	1-3/8"	2-21/32"
4986	1-1/8"	III	3-1/2"	1-5/8"	1-3/8"	2-5/8"
4988	1-3/16"	III	3-1/2"	1-3/4"	1-3/8"	2-19/32"
4990A	1-1/4"	III	3-1/2"	1-3/4"	1-3/8"	2-19/32"
4992	1-5/16"	III	3-5/8"	2-1/64"	1-3/8"	2-9/16"
4994	1-3/8"	III	3-5/8"	2-1/16"	1-17/32"	2-35/64"
4996	1-7/16"	III	3-5/8"	2-5/32"	1-17/32"	2-17/32"
4998	1-1/2"	III	3-5/8"	2-15/64"	1-17/32"	2-1/2"

Meets or exceeds ASME B107.110. Refer to reference diagrams on page 209.

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

Impact Sockets
3/4” Drive

MADE IN USA

WRIGHT

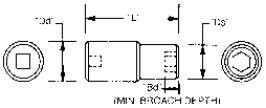


6 PT. STANDARD IMPACT SOCKETS

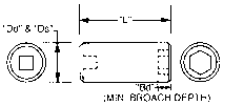
PART NUMBER	NOM. SIZE	RET RING	SHAPE	L	DS	DD	BD
6818	9/16"	6581	I	2-3/32"	1"	1-5/8"	21/64"
6820	5/8"	6581	I	2-3/32"	1-3/32"	1-5/8"	9/32"
6822	11/16"	6581	I	2-3/32"	1-5/32"	1-5/8"	5/16"
6824	3/4"	6581	I	2-3/32"	1-1/4"	1-5/8"	9/16"
6826	13/16"	6581	I	2-1/8"	1-3/8"	1-5/8"	39/64"
6828	7/8"	6581	I	2-1/8"	1-1/2"	1-5/8"	39/64"
6830	15/16"	6581	I	2-1/8"	1-9/16"	1-5/8"	19/32"
6832	1"	6581	II	2-1/8"	1-5/8"	1-5/8"	35/64"
6834	1-1/16"	6581	II	2-1/8"	1-11/16"	1-11/16"	1-7/64"
6836	1-1/8"	6582	II	2-1/8"	1-3/4"	1-3/4"	1-3/32"
6838	1-3/16"	6582A	II	2-1/8"	1-7/8"	1-7/8"	1-1/16"
6840	1-1/4"	6582A	II	2-1/8"	2"	2"	1-3/64"
6842	1-5/16"	6582A	II	2-1/8"	2-1/16"	2-1/16"	1-1/32"
6844	1-3/8"	6582A	III	2-1/4"	2-1/8"	1 29/32"	1-1/8"
6846	1-7/16"	6582A	III	2-1/4"	2-13/57"	1-29/32"	1-1/8"
6848	1-1/2"	6582A	III	2-1/2"	2-5/16"	1-29/32"	1-23/64"
6850	1-9/16"	6582A	III	2-1/2"	2-13/32"	1-29/32"	1-11/32"
6852	1-5/8"	6582A	III	2-1/2"	2-31/64"	1-29/32"	1-5/16"
6854	1-11/16"	6582A	III	2-5/8"	2-9/16"	1-29/32"	1-27/64"
6856	1-3/4"	6582A	III	2-5/8"	2-41/64"	1-29/32"	1-13/32"
6858	1-13/16"	6582A	III	2-5/8"	2-23/32"	1-29/32"	1-3/8"
6860	1-7/8"	6582A	III	2-3/4"	2-13/16"	1-29/32"	1-31/64"
6862	1-15/16"	6582A	III	2-3/4"	2-57/64"	1-29/32"	1-15/32"
6864	2"	6582A	III	2-7/8"	2-31/32"	1-29/32"	1-9/16"
6890	2-1/16"	6582A	III	2-7/8"	3-3/64"	1-29/32"	1-35/64"
6892	2-1/8"	6582A	III	3-1/16"	3-9/64"	1-29/32"	1-23/32"
6894	2-3/16"	6582A	III	3-3/16"	3-7/32"	1-29/32"	1-13/16"
6896	2-1/4"	6582A	III	3-3/16"	3-19/64"	1-29/32"	1-51/64"
6898	2-3/8"	6582A	III	3-1/4"	3-29/64"	1-29/32"	2-1/16"
68100	2-7/16"	6582C	III	3-1/4"	3-17/32"	2-1/4"	1-15/16"
68102	2-1/2"	6582C	III	3-1/4"	3-17/32"	2-1/4"	1-15/16"
68104	2-9/16"	6582C	III	3-1/4"	3-19/32"	2-1/4"	1-7/8"
68106	2-5/8"	6582C	III	3-1/4"	3-43/64"	2-1/4"	1-7/8"
68108	2-11/16"	6582C	III	3-1/2"	3-3/4"	2-1/4"	1-7/8"
68110	2-3/4"	6582C	III	3-1/2"	3-13/16"	2-1/4"	2"
68112	2-13/16"	6582C	III	3-1/2"	3-57/64"	2-1/4"	2"
68114	2-7/8"	6582C	III	3-1/2"	3-61/64"	2-1/4"	2"
68116	2-15/16"	6582C	III	3-3/4"	4-1/32"	2-1/4"	2-1/4"
68118	3"	6582C	III	3-3/4"	4-7/64"	2-1/4"	2-1/4"

Meets or exceeds ASME B107.110.

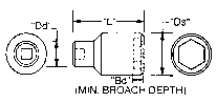
REFERENCE DIAGRAMS



SHAPE I



SHAPE II



SHAPE III

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

WARNING: ALWAYS USE A RET RING® WHEN WORKING WITH IMPACT PRODUCTS

Impact Sockets
3/4” Drive

MADE IN USA

WRIGHT



6 PT. DEEP IMPACT SOCKETS

PART NUMBER	NOM. SIZE	RET RING	SHAPE	L	DS	DD	BD
6918	9/16"	6581	I	3-7/64"	1"	1-5/8"	21/64"
6920	5/8"	6581	I	3-7/64"	1-7/64"	1-5/8"	3/8"
6922	11/16"	6581	I	3-7/64"	1-11/64"	1-5/8"	3/8"
6924	3/4"	6581	I	3-7/64"	1-1/4"	1-5/8"	9/16"
6926	13/16"	6581	I	3-7/64"	1-3/8"	1-5/8"	39/64"
6928	7/8"	6581	I	3-7/64"	1-1/2"	1-5/8"	39/64"
6930	15/16"	6581	I	3-7/64"	1-9/16"	1-5/8"	19/32"
6932	1"	6581	II	3-7/64"	1-5/8"	1-5/8"	35/64"
6934	1-1/16"	6581	II	3-1/2"	1-11/16"	1-11/16"	2-31/64"
6936	1-1/8"	6582	II	3-1/2"	1-3/4"	1-3/4"	2-15/32"
6938	1-3/16"	6582A	II	3-1/2"	1-27/32"	1-27/32"	2-7/16"
6940	1-1/4"	6582A	II	3-1/2"	1-59/64"	1-59/64"	2-27/64"
6942	1-5/16"	6582A	II	3-1/2"	2"	2"	2-1/2"
6944	1-3/8"	6582A	III	3-1/2"	2-1/16"	1-29/32"	2-13/32"
6946	1-7/16"	6582A	III	3-1/2"	2-5/32"	1-29/32"	2-3/8"
6948	1-1/2"	6582A	III	3-1/2"	2-15/64"	1-29/32"	2-23/64"
6950	1-9/16"	6582A	III	3-1/2"	2-5/16"	1-29/32"	2-11/32"
6952	1-5/8"	6582A	III	3-1/2"	2-13/32"	1-29/32"	2-5/16"
6954	1-11/16"	6582A	III	3-1/2"	2-31/64"	1-29/32"	2-19/64"
6956	1-3/4"	6582A	III	3-1/2"	2-9/16"	1-29/32"	2-9/32"
6958	1-13/16"	6582A	III	3-1/2"	2-41/64"	1-29/32"	2-1/4"
6960	1-7/8"	6582A	III	3-1/2"	2-23/32"	1-29/32"	2-15/64"
6962	1-15/16"	6582A	III	3-1/2"	2-13/16"	1-29/32"	2-7/32"
6964	2"	6582A	III	3-3/4"	2-57/64"	1-29/32"	2-25/64"
6966	2-1/16"	6582A	III	3-3/4"	2-31/32"	1-29/32"	2-7/16"
6968	2-1/8"	6582A	III	3-3/4"	3-3/64"	1-29/32"	2-7/16"
69100	2-3/16"	6582A	III	4-1/4"	3-9/64"	1-29/32"	2-1/2"
69102	2-1/4"	6582A	III	4-1/4"	3-7/32"	1-29/32"	2-1/2"
69104	2-5/16"	6582A	III	4-1/4"	3-19/64"	1-29/32"	2-1/2"
69106	2-3/8"	6582A	III	4-1/4"	3-3/8"	1-29/32"	2-1/2"
69108	2-7/16"	6582C	III	4-1/4"	3-29/64"	2-1/4"	2-1/2"
69110	2-1/2"	6582C	III	4-1/4"	3-17/32"	2-1/4"	2-7/8"
69112	2-9/16"	6582C	III	4-1/4"	3-19/32"	2-1/4"	2-7/8"
69114	2-5/8"	6582C	III	4-1/4"	3-43/64"	2-1/4"	2-7/8"
69116	2-11/16"	6582C	III	4-1/2"	3-3/4"	2-1/4"	3"
69118	2-3/4"	6582C	III	4-1/2"	3-13/16"	2-1/4"	3"
69120	2-13/16"	6582C	III	4-1/2"	3-57/64"	2-1/4"	3"
69122	2-7/8"	6582C	III	4-1/2"	3-31/32"	2-1/4"	3"
69124	2-15/16"	6582C	III	4-3/4"	4-1/32"	2-1/4"	3-1/4"
69126	3"	6582C	III	4-3/4"	4-7/64"	2-1/4"	3-1/4"

Meets or exceeds ASME B107.110. Refer to reference diagrams on page 232.

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

WARNING: ALWAYS USE A RET RING® WHEN WORKING WITH IMPACT PRODUCTS

Impact Sockets
1” Drive

MADE IN USA

WRIGHT



6 PT. STANDARD IMPACT SOCKETS

PART NUMBER	NOM. SIZE	RET RING	SHAPE	L	DS	DD	BD
8824	3/4"	6583	I	2-1/4"	1-7/16"	2"	7/16"
8826	13/16"	6583	I	2-1/4"	1-7/16"	2"	29/64"
8828	7/8"	6583	I	2-13/32"	1-17/32"	2"	1/2"
8830	15/16"	6583	I	2-7/16"	1-9/16"	2"	1/2"
8832	1"	6583	I	2-17/32"	1-21/32"	2"	35/64"
8834	1-1/16"	6583	I	2-9/16"	1-3/4"	2"	5/8"
8836	1-1/8"	6583	I	2-9/16"	1-13/16"	2"	21/32"
8838	1-3/16"	6583	I	2-11/16"	1-31/32"	2-1/16"	21/32"
8840	1-1/4"	6583	II	2-11/16"	2-1/16"	2-1/16"	3/4"
8842	1-5/16"	6583	II	2-11/16"	2-3/32"	2-3/32"	49/64"
8844	1-3/8"	6581A	III	2-11/16"	2-5/32"	2-7/64"	25/32"
8846	1-7/16"	6581A	III	2-11/16"	2-15/64"	2-7/64"	7/8"
8848	1-1/2"	6581A	III	2-11/16"	2-23/64"	2-7/64"	55/64"
8850	1-9/16"	6584	III	2-11/16"	2-31/64"	2-15/64"	55/64"
8852	1-5/8"	6584	III	2-11/16"	2-9/16"	2-15/64"	1"
8854	1-11/16"	6584	III	2-11/16"	2-39/64"	2-15/64"	1"
8856	1-3/4"	6585	III	2-11/16"	2-47/64"	2-27/64"	1-3/32"
8858	1-13/16"	6585	III	2-11/16"	2-25/32"	2-27/64"	1-1/8"
8860	1-7/8"	6585	III	2-13/16"	2-13/16"	2-27/64"	1-1/8"
8862	1-15/16"	6585	III	3"	2-29/32"	2-27/64"	1-1/8"
8864	2"	6585	III	3"	2-31/32"	2-27/64"	1-7/32"
8866	2-1/16"	6585	III	3"	3-1/16"	2-27/64"	1-7/32"
8868	2-1/8"	6585	III	3"	3-1/8"	2-27/64"	1-7/32"
8870	2-3/16"	6585	III	3-3/16"	3-15/64"	2-27/64"	1-3/8"
8872	2-1/4"	6585	III	3-3/16"	3-19/64"	2-27/64"	1-3/8"
8874	2-5/16"	6585	III	3-3/16"	3-25/64"	2-27/64"	1-3/8"
8876	2-3/8"	6585	III	3-1/4"	3-31/64"	2-27/64"	1-3/8"
8878	2-7/16"	6585	III	3-9/32"	3-17/32"	2-27/64"	1-3/8"
8880	2-1/2"	6585	III	3-5/16"	3-37/64"	2-27/64"	1-3/8"
8882	2-9/16"	6586	III	3-5/16"	3-23/32"	2-47/64"	1-3/8"
8884	2-5/8"	6586	III	3-15/32"	3-3/4"	2-47/64"	1-1/2"
8886	2-11/16"	6586	III	3-15/32"	3-53/64"	2-47/64"	1-1/2"
8888	2-3/4"	6586	III	3-9/16"	3-29/32"	2-47/64"	1-3/4"
8890	2-13/16"	6586	III	3-11/16"	4"	2-47/64"	1-3/4"
8892	2-7/8"	6586	III	3-3/4"	4-1/16"	2-47/64"	1-3/4"
8894	2-15/16"	6586	III	3-3/4"	4-1/8"	2-47/64"	1-3/4"
8896	3"	6586	III	3-7/8"	4-15/64"	2-47/64"	2"
8897	3-1/8"	6586	III	3-15/16"	4-11/32"	2-47/64"	1-15/16"
8897A	3-1/4"	6586	III	4-1/16"	3-7/32"	3-7/32"	2"
8898	3-3/8"	6586	III	4-3/16"	3-1/4"	3-1/4"	2"
8899	3-1/2"	6586	III	4-5/16"	3-1/4"	3-1/4"	2-13/64"
88116	3-5/8"	6587	III	4-3/4"	4-7/8"	3-1/4"	2-1/2"
88120	3-3/4"	6587	III	5"	4-63/64"	3-1/4"	2-1/2"
88124	3-7/8"	6587	III	5-1/4"	5-7/64"	3-1/4"	2-1/2"
88128	4"	6587	III	5-3/8"	5-1/4"	3-1/4"	2-1/2"
88132	4-1/8"	6587	III	5-3/8"	5-25/64"	3-1/4"	2-19/32"
88136	4-1/4"	6587	III	5-1/2"	5-17/32"	3-1/4"	2-3/4"
88144	4-1/2"	6587	III	5-5/8"	5-13/16"	3-1/4"	2-27/32"

Meets or exceeds ASME B107.110. Refer to reference diagrams on page 243.

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

WARNING: ALWAYS USE A RET RING® WHEN WORKING WITH IMPACT PRODUCTS

Impact Sockets
1” Drive

MADE IN USA

WRIGHT



6 PT. DEEP IMPACT SOCKETS

6

PART NUMBER	NOM. SIZE	RET RING	SHAPE	L	DS	DD	BD
8924	3/4"	6583	I	4"	1-7/16"	2"	7/16"
8926	13/16"	6583	I	4"	1-7/16"	2"	29/64"
8928	7/8"	6583	I	4"	1-17/32"	2"	1/2"
8930	15/16"	6583	I	4"	1-9/16"	2"	1/2"
8932	1"	6583	I	4"	1-21/32"	2"	35/64"
8933	1-1/16"	6583	I	4"	1-3/4"	2"	5/8"
8936	1-1/8"	6583	I	4"	1-13/16"	2"	21/32"
8938	1-3/16"	6583	I	4"	1-31/32"	2-1/16"	21/32"
8939	1-1/4"	6583	II	4"	2-1/16"	2-1/16"	3/4"
8942	1-5/16"	6583	II	4"	2-1/16"	2-1/16"	49/64"
8944	1-3/8"	6581A	III	4"	2-5/32"	2-1/8"	25/32"
8946	1-7/16"	6581A	III	4"	2-1/4"	2-1/8"	7/8"
8948	1-1/2"	6581A	III	4"	2-1/4"	2-1/8"	55/64"
8950	1-9/16"	6584	III	4"	2-1/2"	2-1/4"	55/64"
8952	1-5/8"	6584	III	4"	2-1/2"	2-1/4"	1"
8954	1-11/16"	6584	III	4"	2-1/2"	2-1/4"	1"
8956	1-3/4"	6585	III	4-1/16"	2-3/4"	2-7/16"	1-3/32"
8958	1-13/16"	6585	III	4-1/8"	2-3/4"	2-7/16"	1-1/8"
8960	1-7/8"	6585	III	4-3/16"	2-3/4"	2-7/16"	1-1/8"
8962	1-15/16"	6585	III	4-1/4"	2-63/64"	2-7/16"	1-1/8"
8964	2"	6585	III	4-5/16"	2-63/64"	2-7/16"	1-7/32"
8966	2-1/16"	6585	III	4-3/8"	2-63/64"	2-7/16"	1-7/32"
8968	2-1/8"	6585	III	4-7/16"	3-5/32"	2-7/16"	1-7/32"
8970	2-3/16"	6585	III	4-1/2"	3-1/4"	2-7/16"	1-3/8"
8972	2-1/4"	6585	III	4-21/32"	3-1/4"	2-7/16"	1-3/8"
8974	2-5/16"	6585	III	4-23/32"	3-13/32"	2-7/16"	1-3/8"
8976	2-3/8"	6585	III	4-3/4"	3-1/2"	2-7/16"	1-3/8"
8978	2-7/16"	6585	III	4-3/4"	3-17/32"	2-27/64"	1-3/8"
8980	2-1/2"	6585	III	4-7/8"	3-19/32"	2-7/16"	1-3/8"
8981	2-9/16"	6586	III	4-7/8"	3-23/32"	2-3/4"	1-3/8"
8984	2-5/8"	6586	III	4-7/8"	3-3/4"	2-3/4"	1-1/2"
8988	2-3/4"	6586	III	5"	3-53/64"	2-3/4"	1-3/4"
8990	2-13/16"	6586	III	5"	4"	2-3/4"	1-3/4"
8992	2-7/8"	6586	III	5"	4"	2-3/4"	1-3/4"
8994	2-15/16"	6586	III	5"	4"	2-3/4"	1-3/4"
8996	3"	6586	III	5"	4-3/16"	2-3/4"	2"
89100	3-1/8"	6586	III	5-1/2"	4-3/16"	2-3/4"	1-15/16"
89104	3-1/4"	6586	III	5-5/8"	4-17/32"	2-3/4"	2"
89108	3-3/8"	6586	III	5-3/4"	4-17/32"	2-3/4"	2"
89112	3-1/2"	6586	III	6"	4-3/4"	2-3/4"	2-13/64"
89116	3-5/8"	6587	III	6-1/8"	4-55/64"	3-1/4"	2-1/2"
89120	3-3/4"	6587	III	6-1/4"	5"	3-1/4"	2-1/2"
89124	3-7/8"	6587	III	6-3/8"	5-7/64"	3-1/4"	2-1/2"
89128	4"	6587	III	6-1/2"	5-1/4"	3-1/4"	2-1/2"
89132	4-1/8"	6587	III	6-3/4"	5-3/8"	3-1/4"	2-19/32"
89136	4-1/4"	6587	III	7"	5-17/32"	3-1/4"	2-3/4"
89144	4-1/2"	6587	III	7-1/4"	5-13/16"	3-1/4"	2-27/32"

Meets or exceeds ASME B107.110. Refer to reference diagrams on page 248.

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

WARNING: ALWAYS USE A RET RING® WHEN WORKING WITH IMPACT PRODUCTS

Impact Sockets
1-1/2” Drive

MADE IN USA

WRIGHT

6 PT. STANDARD IMPACT SOCKETS

6

PART NUMBER	NOM. SIZE	RET RING	SHAPE	L	OS	DD	BD
84821	1-5/16"	84575	I	3-5/32"	2-3/4"	3-1/4"	3/4"
84822	1-3/8"	84575	I	3-5/32"	2-3/4"	3-1/4"	25/32"
84823	1-7/16"	84575	I	3-3/16"	2-3/4"	3-1/4"	7/8"
84824	1-1/2"	84575	I	3-1/4"	2-7/8"	3-1/4"	15/16"
84825	1-9/16"	84575	I	3-1/4"	2-7/8"	3-1/4"	1"
84826	1-5/8"	84575	I	3-5/16"	3"	3-1/4"	1-1/16"
84827	1-11/16"	84575	I	3-5/16"	3"	3-1/4"	1-1/16"
84828	1-3/4"	84575	I	3-3/8"	3-1/8"	3-1/4"	1-1/8"
84829	1-13/16"	84575	I	3-7/16"	3-1/8"	3-1/4"	1-5/32"
84830	1-7/8"	84575	I	3-5/8"	3-1/8"	3-1/4"	1-3/16"
84831	1-15/16"	84575	I	3-5/8"	3-1/8"	3-1/4"	1-7/32"
84832	2"	84575	II	3-3/4"	3-9/32"	3-9/32"	1-1/4"
84833	2-1/16"	84575	II	3-3/4"	3-11/40"	3-11/40"	1-5/16"
84834	2-1/8"	84575	II	3-13/16"	3-1/2"	3-1/2"	1-11/32"
84835	2-3/16"	84575	II	3-13/16"	3-1/2"	3-1/2"	1-3/8"
84836	2-1/4"	84576	II	3-7/8 "	3-3/4"	3-3/4"	1-13/32"
84837	2-5/16"	84576	II	3-15/16"	3-3/4"	3-3/4"	1-15/32"
84838	2-3/8"	84576	II	4"	3-3/4"	3-3/4"	1-1/2"
84839	2-7/16"	84576	III	4-3/32"	3-7/8"	3-3/4"	1-9/16"
84840	2-1/2"	84576	III	4-1/8"	3-7/8"	3-3/4"	1-19/32"
84841	2-9/16"	84576	III	4-3/16"	4"	3-3/4"	1-5/8"
84842	2-5/8"	84576	III	4-1/4"	4"	3-3/4"	1-21/32"
84843	2-11/16"	84576	III	4-5/16"	4-3/32"	3-3/4"	1-11/16"
84844	2-3/4"	84576	III	4-3/8"	4-7/32"	3-3/4"	1-3/4"
84845	2-13/16"	84576	III	4-7/16"	4-7/32"	3-3/4"	1-25/32"
84846	2-7/8"	84576	III	4-9/20"	4-31/64"	3-3/4"	1-13/16"
84847	2-15/16"	84576	III	4-17/32"	4-31/64"	3-3/4"	1-27/32"
84848	3"	84576	III	4-5/8"	4-23/32"	3-3/4"	2"
84849	3-1/16"	84576	III	411/16"	4-23/32"	3-3/4"	2"
84850	3-1/8"	84576	III	4-3/4"	4-23/32"	3-3/4"	2"
84851	3-3/16"	84576	III	4-3/4"	4-51/64"	3-3/4"	2"
84852	3-1/4"	84576	III	4-27/32"	4-63/64"	3-3/4"	2-1/16"
84853	3-5/16"	84576	III	4-29/32"	4-63/64"	3-3/4"	2-3/32"
84854	3-3/8"	84576	III	4-15/16"	4-63/64"	3-3/4"	2-7/32"
84855	3-7/16"	84576	III	5"	5-3/64"	3-3/4"	2-7/32"
84856	3-1/2"	84576	III	5-1/8"	5-3/32"	3-3/4"	2-1/4"
84857	3-9/16"	84576	III	5-1/8"	5-5/32"	3-3/4"	2-1/4"
84858	3-5/8"	84576	III	5-3/16"	5-13/64"	3-3/4"	2-9/32"
84859	3-11/16"	84576	III	5-1/4"	5-9/32"	3-3/4"	2-11/32"
84860	3-3/4"	84576	III	5-5/16"	5-15/32"	3-51/64"	2-3/8"
84861	3-13/16"	84576	III	5-13/32"	5-35/64"	3-3/4"	2-7/16"
84862	3-7/8"	84576	III	5-13/32"	5-5/8"	3-3/4"	2-1/2"
84863	3-15/16"	84576	III	5-1/2"	5-3/4"	3-3/4"	2-1/2"
84864	4"	84576	III	5-1/2"	5-51/64"	3-3/4"	2-1/2
84865	4-1/16"	84578	III	5-9/16"	5-7/8"	3-3/4"	2-5/8"
84866	4-1/8"	84578	III	5-5/8"	6"	5"	2-5/8"
84867	4-3/16"	84578	III	5-5/8"	6"	5"	2-5/8"
84868	4-1/4"	84578	III	5-25/32"	6-1/16"	5"	2-3/4"
84869	4-5/16"	84578	III	5-25/32"	6-1/8"	5"	2-3/4"
84870	4-3/8"	84578	III	5-25/32"	6-13/64"	5"	2-3/4"
84871	4-7/16"	84578	III	5-7/8"	6-13/64"	5"	2-7/8"
84872	4-1/2"	84578	III	5-15/16"	6-1/4"	5"	2-7/8"
84874	4-5/8"	84578	III	6-3/16"	6-3/8"	5"	3"
84876	4-3/4"	84578	III	6-3/16"	6-31/64"	5"	3"
84878	4-7/8"	84578	III	6-1/4"	6-5/8"	5"	3"
84880	5"	84578	III	6-1/4"	6-49/64"	5"	3"
84882	5-1/8"	84578	III	6-3/8"	6-59/64"	5"	3"
84884	5-1/4"	84578	III	6-1/2"	7-1/16"	5"	3-1/8"
84886	5-3/8"	84578	III	6-1/2"	7-13/64"	5"	3-1/8"
84888	5-1/2"	84578	III	6-5/8"	7-11/32"	5"	3-1/4"
84896	6"	85578* 85579••	III	6-7/8"	7-15/16"	6"	3-1/2"
848104	6-1/2"	85578* 85579••	III	7"	8-33/64"	6"	3-5/8"

Meets or exceeds ASME B107.110. Refer to reference diagrams on page 253. *Uses "O"Ring. **Uses Pin.



WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

WARNING: ALWAYS USE A RET RING® WHEN WORKING WITH IMPACT PRODUCTS

Impact Sockets
1-1/2” Drive

MADE IN USA

WRIGHT

6 PT. DEEP IMPACT SOCKETS

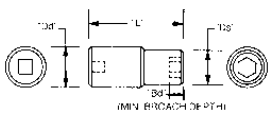
6

PART NUMBER	NOM. SIZE	RET RING	SHAPE	L	DS	DD	BD
84921	1-5/16"	84575	I	5-11/16"	2-3/4"	3-1/4"	3/4"
84922	1-3/8"	84575	I	5-11/16"	2-3/4"	3-1/4"	13/16"
84923	1-7/16"	84575	I	5-11/16"	2-3/4"	3-1/4"	7/8"
84924	1-1/2"	84575	I	5-11/16"	2-7/8"	3-1/4"	7/8"
84925	1-9/16"	84575	I	5-11/16"	2-7/8"	3-1/4"	1"
84926	1-5/8"	84575	I	5-11/16"	3"	3-1/4"	1-1/16"
84927	1-11/16"	84575	I	5-11/16"	3"	3-1/4"	1-1/16"
84928	1-3/4"	84575	I	5-11/16"	3-1/8"	3-1/4"	1-1/8"
84929	1-13/16"	84575	I	5-11/16"	3-1/8"	3-1/4"	1-1/8"
84930	1-7/8"	84575	I	5-11/16"	3-1/8"	3-1/4"	1-3/16"
84931	1-15/16"	84575	I	5-11/16"	3-1/8"	3-1/4"	1-7/32"
84932	2"	84575	II	5-11/16"	3-9/32"	3-9/32"	1-1/4"
84933	2-1/16"	84575	II	5-11/16"	3-9/32"	3-9/32"	1-5/16"
84934	2-1/8"	84575	II	5-11/16"	3-1/2"	3-1/2"	1-3/8"
84935	2-3/16"	84575	II	5-11/16"	3-1/2"	3-1/2"	1-3/8"
84936	2-1/4"	84576	II	6-1/16"	3-3/4"	3-3/4"	1-7/16"
84937	2-5/16"	84576	II	6-1/16"	3-3/4"	3-3/4"	1-15/32"
84938	2-3/8"	84576	II	6-1/16"	3-3/4"	3-3/4"	1-1/2"
84939	2-7/16"	84576	III	6-1/16"	3-7/8"	3-3/4"	1-9/16"
84940	2-1/2"	84576	III	6-1/16"	3-7/8"	3-3/4"	1-19/32"
84941	2-9/16"	84576	III	6-1/16"	4"	3-3/4"	1-5/8"
84942	2-5/8"	84576	III	6-1/16"	4"	3-3/4"	1-11/16"
84943	2-11/16"	84576	III	6-1/16"	4-1/8"	3-3/4"	1-11/16"
84944	2-3/4"	84576	III	6-1/16"	4-7/32"	3-3/4"	1-3/4"
84945	2-13/16"	84576	III	6-5/16"	4-7/32"	3-3/4"	1-25/32"
84946	2-7/8"	84576	III	6-5/16"	4-15/32"	3-3/4"	1-13/16"
84947	2 15/16"	84576	III	6-5/16"	4-15/32"	3-3/4"	1-27/32"
84948	3"	84576	III	6-5/16"	4-23/32"	3-3/4"	2"
84949	3-1/16"	84576	III	6-5/16"	4-23/32"	3-3/4"	2"
84950	3-1/8"	84576	III	6-5/16"	4-23/32"	3-3/4"	2"
84951	3-3/16"	84576	III	6-7/16"	4-23/32"	3-3/4"	2"
84952	3-1/4"	84576	III	6-7/16"	4-31/32"	3-3/4"	2-1/16"
84953	3-5/16"	84576	III	6-7/16"	4-31/32"	3-3/4"	2-3/32"
84954	3-3/8"	84576	III	6-7/16"	4-31/32"	3-3/4"	2-1/8"
84955	3-7/16"	84576	III	6-7/16"	4-31/32"	3-3/4"	2-5/32"
84956	3-1/2"	84576	III	6-7/16"	5-7/64"	3-3/4"	2-1/4"
84957	3-9/16"	84576	III	6-7/16"	5-7/64"	3-3/4"	2-1/4"
84958	3-5/8"	84576	III	6-13/16"	5-13/64"	3-3/4"	2-9/32"
84959	3-11/16"	84576	III	6-13/16"	5-13/64"	3-3/4"	2-11/32"
84960	3-3/4"	84576	III	6-13/16"	5-15/32"	3-3/4"	2-3/8"
84961	3-13/16"	84576	III	6-13/16"	5-1/2"	3-3/4"	2-13/32"
84962	3-7/8"	84576	III	7-1/16"	5-1/2"	3-3/4"	2-1/2"
84963	3-15/16"	84576	III	7-1/16"	5-3/4"	3-3/4"	2-1/2"
84964	4"	84576	III	7-1/16"	5-3/4"	3-3/4"	2-1/2"
84965	4-1/16"	84578	III	7-1/16"	5-3/4"	5"	2-5/8"
84966	4-1/8"	84578	III	7-13/16"	6"	5"	2-5/8"
84967	4-3/16"	84578	III	7-13/16"	6"	5"	2-5/8"
84968	4-1/4"	84578	III	7-13/16"	6"	5"	2-3/4"
84969	4-5/16"	84578	III	7-13/16"	6"	5"	2-3/4"
84970	4-3/8"	84578	III	7-13/16"	6-7/32"	5"	2-3/4"
84971	4-7/16"	84578	III	7-13/16"	6-7/32"	5"	2-7/8"
84972	4-1/2"	84578	III	7-13/16"	6-7/32"	5"	2-7/8"
84974	4-5/8"	84578	III	7-13/16"	6-3/8"	5"	3"
84976	4-3/4"	84578	III	7-13/16"	6-3/8"	5"	3"
84980	5"	84578	III	7-13/16"	6-49/64"	5"	3"

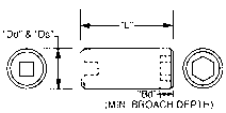
Meets or exceeds ASME B107.110. Note: Limited Quantities, call Wright Tool for delivery.



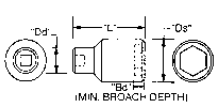
REFERENCE DIAGRAMS



SHAPE I



SHAPE II



SHAPE III

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

WARNING: ALWAYS USE A RET RING® WHEN WORKING WITH IMPACT PRODUCTS

Torque Wrenches
Click Type Micro-Adjustable

MADE IN USA

WRIGHT

MICRO-ADJUSTABLE "CLICK TYPE" METAL HANDLE TORQUE WRENCHES

Use only with hand sockets. Accurate, ± 4% clockwise, ± 6% counterclockwise @ 20% of the scale. Easy to operate. Rugged. Durable. All parts made from alloy tool steel for long life accuracy. Accuracy meets or exceeds all applicable government specifications. Exposed scale. Positive lock with spring loaded pull down lock ring. Super rugged knurled metal for industrial use. Pull lock ring down and turn handle to adjust reading. Positive locking device cannot be jarred into unlock position. All wrenches meet or exceed ASME B107.300, whichever applies. Ratchet head models are 24 tooth industrial grade ratchets designed for industrial use. Feature a push button socket "quick release" mechanism (except 6448, 8447 and 8448). All wrenches feature English scales primary and metric secondary. Micrometer "clicker" torque wrenches feature a distinct breaking action when the set torque is reached. The breaking action and clicking noise is greatest at the upper part of the scale. All wrenches will be shipped in fitted blow mold plastic storage boxes, except the 8447 and 8448, which will be shipped in a metal box. All wrenches include a "Certificate of Calibration."

PART NUMBER	DRIVE SIZE	TORQUE RANGE ENGLISH	INCR.	TORQUE RANGE METRIC	INCR. (NM)	HEAD STYLE	LENGTH INCHES	WT. LBS.	RATCHET REPAIR KIT #
		INCH POUNDS							
2477	1/4"	20-150 in. lbs.	1	2.8-16.4	.12	Ratchet	10.15"	.90	61-100-8RKTONY
3478	3/8"	30-200 in. lbs.	1	3.9-22.0	.12	Ratchet	10.15"	.85	61-100-10RKTONY
3479	3/8"	150-1,000 in. lbs.	5	19.8-110.2	.6	Ratchet	15.75"	2.5	46-500-12RKTONY
4476	1/2"	700-1,600 in. lbs.	10	84.4-175.2	1.4	Ratchet	18"	3.0	96-500-8RKTONY
4479	1/2"	300-2,500 in. lbs.	10	39.6-276.8	1.4	Ratchet	18"	3.0	96-500-8RKTONY
		FOOT POUNDS							
3447	3/8"	5-75 ft. lbs.	.5	10.2-98.3	.7	Ratchet	15.5"	2.5	46-500-12RKTONY
3477	3/8"	10-100 ft. lbs.	.5	16.9-132.2	.7	Ratchet	15.5"	2.5	46-500-12RKTONY
4477	1/2"	20-150 ft. lbs.	1	34-197	1.5	Ratchet	19"	3.15	96-500-8RKTONY
4478	1/2"	50-250 ft. lbs.	1	47-332	1.5	Ratchet	24.4"	3.15	96-500-8RKTONY
6448	3/4"	100-600 ft. lbs.	5	169-779	7	Ratchet	42"	17.0	9610-0112RK
8447	1"	200-1,000 ft. lbs.	5	305-1,320	7	Ratchet	70"	40.0	9610-0111RK
8448	1"	200-1,000 ft. lbs.	5	305-1,320	7	Fixed Head Non-Ratcheting	69"	24.5	N/A
8449	1"	300-2,000 ft. lbs.	10	480-2,700	13.5	Fixed Head Non-Ratcheting	108-1/2"	48.75	N/A

Contact customer service at (800) 321-2902 for Torque Wrench repair kits.



4476, 4479, 4477, 4478, 6448



2477, 3478



8448



3447, 3477, 3479



8447



8449

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

Torque Wrenches
Dial Type

MADE IN USA

WRIGHT

DIAL TYPE TORQUE WRENCHES

All dial torque wrenches are “State-of-the-Art” torque wrenches. Exclusive torsion beam design provides long life and accuracy. Exclusive bi-polar dual scales, English and Metric, permits accurate reading of both scales, with follower needle. Equally accurate in both left and right hand direction. Torsion drive design. Large easy-to-read dial. User assured of long life and reliability. Accurate, ± 4% both ways at 20-100% of full scale. Meets and/or exceeds requirements of ASME B107.300. Calibration traceable to National Institute of Standards and Technology (NIST). All wrenches shipped in plastic storage box or metal case (except 2,000 ft. lbs.), which will be shipped in a cardboard carton. Follower Needle. All wrenches include a “Certificate of Calibration.”

PART NUMBER	DRIVE	TORQUE RANGE ENGLISH	GRADS. ENGLISH	TORQUE RANGE METRIC	GRADS. METRIC	LENGTH	NUMBER OF EXT. HANDLES	WT. LBS.
		INCH POUNDS						
2470	1/4"	0-30 in. lbs.	.5 in. lbs.	0-3.5 Nm	.1 Nm	10"	—	1
2471	1/4"	0-75 in. lbs.	1 in. lbs.	0-9 Nm	.2 Nm	10"	—	1
3470	3/8"	0-150 in. lbs.	2 in. lbs.	0-18 Nm	.5 Nm	10"	—	1
3471	3/8"	0-250 in. lbs.	5 in. lbs.	0-30 Nm	.5 Nm	10"	—	1
3472	3/8"	0-600 in. lbs.	10 in. lbs.	0-70 Nm	2 Nm	14-7/8"	—	1-3/4
		FOOT POUNDS						
3473	3/8"	0-50 ft. lbs.	1 ft. lbs.	0-70 Nm	2 Nm	14-7/8"	—	1-3/4
4470	1/2"	0-175 ft. lbs.	5 ft. lbs.	0-240 Nm	5 Nm	21-1/2"	—	2-3/4
4471	1/2"	0-250 ft. lbs.	5 ft. lbs.	0-350 Nm	10 Nm	21-1/2"	—	2-3/4
6471	3/4"	0-350 ft. lbs.	10 ft. lbs.	0-480 Nm	10 Nm	27-7/8"	—	5-3/4
6470	3/4"	0-600 ft. lbs.	10 ft. lbs.	0-800 Nm	20 Nm	46-1/2"	1	9-1/4
8470	1"	0-1,000 ft. lbs.	20 ft. lbs.	0-1,400 Nm	25 Nm	74"	1	18-1/2



3472



6470

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

Torque Multipliers
Reaction Bar Style

MADE IN USA

WRIGHT

TORQUE MULTIPLIERS 9S290P, 9S291, 9S391 & 9S292

Compact. Low cost. Light weight. Rugged construction.

PART NUMBER	INPUT INTERNAL DRIVE	INPUT CAPACITY (FT-LBS)	OUTPUT EXTERNAL DRIVE	OUTPUT CAPACITY (FT-LBS)	TORQUE RATIO	ANGLE OF TURN PROTRACTOR	REPLACEABLE SQUARE	A-LENGTH	B-HEAD DIAMETER	C-HEIGHT	PACKAGED WEIGHT (LBS)	PART WEIGHT (LBS)
9S290P*	1/2" SQ	250	3/4" SQ	750	3.0:1	No	No	8-1/2"	2-13/16"	3-1/4"	4.9	4.0
9S291	1/2" SQ	333	3/4" SQ	1,000	3.0:1	No	No	17-1/16"	2-13/16"	3-1/4"	5.7	5.5
9S391*	1/2" SQ	200	3/4" SQ	1,200	6.0:1	Yes	9S391RS	19-9/16"	4"	4"	13.8	9.1
9S292	3/4" SQ	533	1" SQ	2,000	3.75:1	No	No	19-1/2"	4-1/2"	3-3/4"	13.9	12.0

*Packaged in red, molded plastic box. Example: 9S392B Ratio is 13.6 For every 1 ft. lb. input, the output is 13.6 ft. lbs. If the customer needs 1,400 ft. lbs. of torque: 1,400/13.6=103 ft. lbs. of input torque. So the torque wrench needs to be set for 103 ft. lbs. When 103 is achieved multiplier will be sending out 1,400 ft. lbs. to the socket. There is a sticker on the handle of the multiplier to give the user the correct settings in ft. lbs. and Nm (Newton meters). It has the input and output ranges.


9S290P


9S291


9S391


9S292

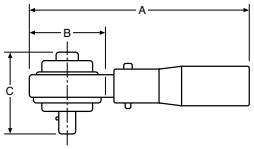
TORQUE MULTIPLIERS 9S392B & 9S393A

Low input torque. Needle bearings for high efficiency. Input torque holding ratchet – holds multiplier in place during torquing. ±5% accuracy – closer accuracy and torque certificates available. 1/2" square female input. Shearable output squares – drive shear at 3-10% overload to protect tool. A replacement drive included, is easily installed. Angle or turn protractor.

PART NUMBER	INPUT INTERNAL DRIVE	INPUT CAPACITY (FT-LBS)	OUTPUT EXTERNAL DRIVE	OUTPUT CAPACITY (FT-LBS)	TORQUE RATIO	ANGLE OF TURN PROTRACTOR	REPLACEABLE SQUARE	A-LENGTH	B-HEAD DIAMETER	C-HEIGHT	PACKAGED WEIGHT (LBS)	PART WEIGHT (LBS)
9S392B*	1/2" SQ	162	1" SQ	2,200	13.6:1	Yes	9S392RS	19-9/16"	4-1/16"	5-3/4"	20.2	15.2
9S393A*	1/2" SQ	173	1" SQ	3,200	18.5:1	Yes	9S393RS	19-9/16"	4-1/16"	6-1/2"	22.2	18.3

*Packaged in red, molded plastic box.


9S392B, 9S393A





REPLACEMENT OUTPUT SQUARES FOR TORQUE MULTIPLIERS

PART NUMBER	DESCRIPTION
9S391RS	3/4" Replacement Square for Multiplier 9S391
9S392RS	1" Replacement Square for Multiplier 9S392B & 9S492
9S393RS	1" Replacement Square for Multiplier 9S393A
9S394RS	1-1/2" Replacement Square for Multiplier 9S394
9S395RS	1-1/2" Replacement Square for Multiplier 9S395

Square shears at 3% - 10% overload to protect tool. Guarantee does not apply.

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

Torque Multipliers
Plate Reaction Style

MADE IN USA

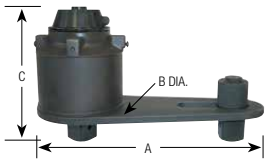
WRIGHT

TORQUE MULTIPLIERS—PLATE REACTION STYLE

PART NUMBER	INPUT INTERNAL DRIVE	INPUT CAPACITY (FT-LBS)	OUTPUT EXTERNAL DRIVE	OUTPUT CAPACITY (FT-LBS)	TORQUE RATIO	ANGLE OF TURN PROTRACTOR	REPLACEABLE SQUARE	A LENGTH	B HEAD DIAMETER	C HEIGHT	PACKAGED WEIGHT (LBS)	PART WEIGHT (LBS)
9S492	1/2" SQ	162	1" SQ	2,200	13.6:1	No	9S392RS	14"	4-7/8"	5-1/2"	19.2	17.2
9S394	1/2" SQ	189	1-1/2" SQ	5,000	26.5:1	No	9S394RS	14-7/8"	5-9/16"	8-3/4"	42.5	34.0
9S395	1/2" SQ	154	1-1/2" SQ	8,000	52.0:1	No	9S395RS	15-1/4"	5-13/16"	10-3/4"	56.8	50.3



9S492



9S394



AIR MOTOR FOR TORQUE MULTIPLIERS

Output Drive: 1/2" Sq. Maximum output torque: 200 ft. lbs. Maximum running air pressure: 60 PSI. Free speed (reversible): 70 RPM. Overall length: 16.25 in.

PART NUMBER	DRIVE SIZE	DESCRIPTION
9S3900A	1/2" Square	Air Motor for Torque Multiplier

Not for use on: 9S290P, 9S291 and 9S292.

WHAT'S THE DIFFERENTIATOR

WHY USE A TORQUE MULTIPLIER?

A torque multiplier is used to reduce the effort needed to tighten or loosen a fastener. By using a torque multiplier, thousands of foot pounds of torque can be accurately applied with a standard 250 foot pound torque wrench.

Wright Tool offers a complete line torque multipliers. These tools offer a simple, inexpensive solution to common bolting challenges. Our multipliers ranging in output torque from 750 ft. lbs. to 8,000 ft. lbs. typically require a maximum input torque of only 200 ft. lbs. or less. All of our tools can be operated with any standard torque wrench and will "multiply" the torque to achieve significantly higher torque outputs. We offer both reaction bar multipliers, which will typically react against a flange, as well as reaction plate multipliers designed to react against an adjacent bolt. Other features of these tools include:

Safe, Light—Our unique one-piece construction requires use of just one tool. A single tool is easier to handle and safer to operate vs. stacking a number of multipliers. Single piece construction also makes the package smaller and lighter.

Accurate—Use of needle roller bearings produces more efficient and repeatable output torque (all except 9S290P, 9S291 and 9S292). All models except the 9S292 have a torque accuracy of +/-5%.

Fast—Our input torque holding ratchet assists in holding our multiplier in place while applying torque to fastener, making fastening safer and faster. This feature is standard on all models except 9S290P, 9S291, 9S292 and 9S391.

Easy To Use—Our low input torque requirement makes our tools easy to use. Most tools require less than 200 ft. lbs. input to obtain the multipliers maximum output torque.

Service & Support—Excellent application assistance and product support is always available.

Simple—A torque conversion chart is attached directly on top of each tool to show the operator the torque input required for a given torque output.

Precise—An angle of turn protractor included on our 9S391, 9S392 and 9S393 models allows the user to use torque/angle of turn method to tighten fasteners more accurately.

WARNING: WEAR SAFETY GOGGLES USER AND BYSTANDER

WARNING: COMFORT OR PLASTIC GRIPS DO NOT PROTECT AGAINST ELECTRIC SHOCK

Torque Wrenches
Pneumatic, PTW-Series

ENERPAC

▼ Shown: **PTW1000**



Continuous Rotation Controlled Torque

Productivity
- **High speed continuous rotation for constant torque output**
- **Low friction planetary gearbox design minimizes wear and extends uptime**

Safety
- **Ergonomic, low vibration design reduces fatigue and the risk of vibration related injuries for the operator**
- **Low noise air motor provides quiet, consistent performance for indoor and outdoor applications**

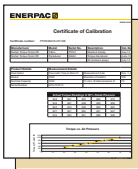
Convenience
- **Provided with standard reaction arm; wide assortment of custom arms and accessories are available**
- **Available with or without Filter-Regulator-Lubricator (FRL)**
- **Unique calibration certificate provided with each tool**

Typical Pneumatic Torque Wrench Applications

Mining
- Track maintenance
- Undercarriage maintenance
- Wheel maintenance
- Shovel maintenance

Power Generation
- Turbine bolts
- Tower segments
- Turbine casings

Oil and Gas
- Pipe flanges
- Valves
- Manway covers
- Pressure vessels



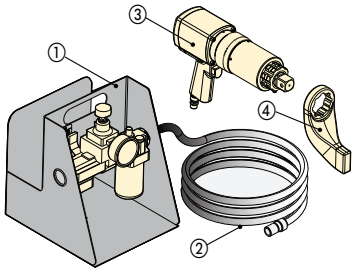
Calibration Certificate

All PTW tools are CE declared and are shipped complete with a calibration certificate.

CE

Torque Wrenches
Pneumatic

ENERPAC



① Filter-Regulator-Lubricator
② Hose
③ PTW Torque Wrench
④ Reaction Arm

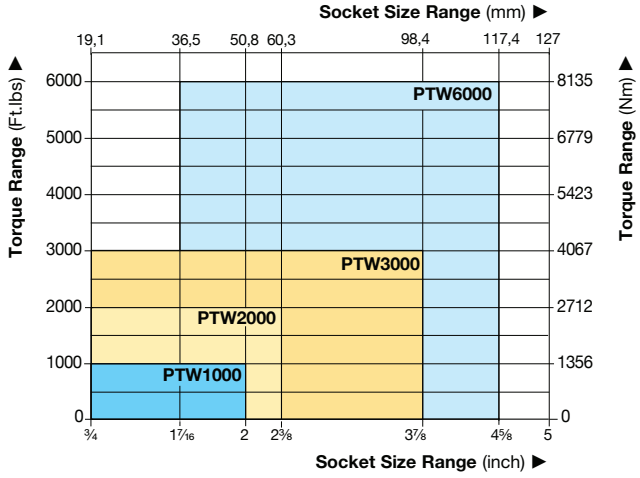
PTW Series



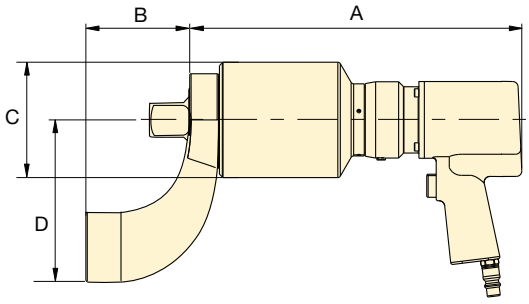
Nominal Output Torque:
6000 Ft.lbs

Square Drive Range:
1 - 1½ inch

***TORQUE WRENCH SELECTION**



*Socket size recommendations are based on torque output of tool and socket size range. Additional socket sizes available on request.



All tools are shipped complete with standard reaction arm and FRL*.



Pneumatic Torque Wrench Accessories

Enerpac offers a full line of accessories including a range of reaction arms and drives.



Filter-Regulator-Lubricator

Recommended for use with all PTW pneumatic torque wrenches.
Provides clean, lubricated air and allows for air pressure adjustment.

Order model number	FRL120C



BSH-Series Sockets

Heavy-Duty Impact Sockets for power driven torquing equipment.



Hydraulic Torque Wrenches

Enerpac offers a complete range of square drive and hexagon cassette torque wrenches.

▼ SELECTION CHART

Minimum Torque (ft-lbs)	Minimum Torque (Nm)	Maximum Torque (ft-lbs)	Maximum Torque (Nm)	Square Drive (in)	Model Number*	RPM	Dimensions (in) A	B	C	D	Weight** (lbs)
300	407	1000	1356	1	PTW1000C	12.6	10.70	3.27	2.83	5.12	18
500	678	2000	2712	1	PTW2000C	8.0	11.26	3.27	3.11	5.24	19.5
900	1220	3000	4067	1	PTW3000C	3.1	13.50	3.27	3.74	5.24	23
1300	1763	6000	8135	1½	PTW6000C	2.5	14.40	4.49	5.00	7.00	39

* To order without FRL and hose, remove "C" Suffix (e.g. PTW3000).
** Weight does not include reaction arm. Reaction arm weight for PTW1000, PTW2000, PTW3000 is 2.9 lbs. and PTW6000 is 7.75 lbs.

Electric Torque Wrenches
ETW-Series

ENERPAC

▼ Shown: **ETW1000**



Performance
- **High speed continuous rotation gets the job done faster**
- **Torque and angle functionality allows input of nominal torque value followed by a specific angle of rotation**
- **Pass/Fail LED indicator on back of tool verifies fastening has been completed according to specified input**

Simplicity
- **Control box with large seven-inch touchscreen simplifies tool operation**
- **Controls on back of wrench enable operator to monitor and manage the fastening process without returning to the control box**
- **Brightly lit three line LED display on wrench is easy to read in any environment, even in bright sunlight**

Traceability
- **Fastening record can be viewed on-screen and transferred through standard USB connection on the control box**
- **Each tool is performance tested and shipped complete with a factory calibration certificate**

Safety
- **Lift points on wrench enable use with positioning handle or lifting device for greater handling safety**
- **Ground fault detector protects operator in the event of insufficient grounding**

Your Simple Solution for Smart Bolting



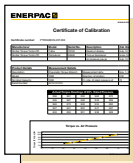
Touchscreen Control Box

ETW tools feature an easy to use, interactive touch-screen control box, which helps make even the most complex jobs simple to complete.



Easy Access to Controls

Controls on back of wrench with LED display allow user to directly input desired torque, change direction of rotation, and monitor the fastening process.



Certifications, Declarations

All ETW tools:

- Are shipped complete with a calibration certificate
- Are certified for North American Electrical Safety by CSA International
- Carry a CSA US and Canada mark
- Are CE declared

Electric Torque Wrenches

ETW Series

ENERPAC

ETW-Series Electric Torque Wrenches

Enerpac ETW-Series Electric Torque Wrenches are particularly well suited to complex jobs which demand precision and traceability. The tools feature an automatic mode, which helps simplify and automate complex jobs, including those with torque and angle specifications, through the creation of presets.

Using the touchscreen, simply input the number of fasteners and desired torque value for each fastening step, followed by the required angle of turn. This sequence may then be saved as an automatic preset for future use.

For simpler jobs, torque values may be input with a digital slider on the touchscreen, or directly into the rear control panel of the wrench.

Once the input torque is achieved, the tool stalls, and a pass/fail indicator verifies that it is ready to move on to the next fastener.

When the job is completed, the fastening record can be viewed on the touch screen, or exported to a computer via a USB connection on the control box.

ETW Series



Maximum Output Torque:
6000 Ft.lbs

Square Drive Range:
1 - 1½ inch



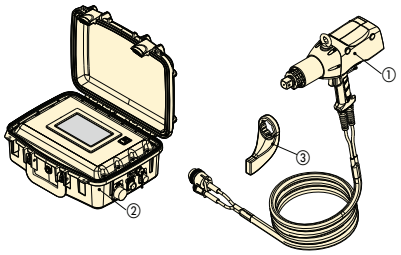
Torque Wrench Accessories

Enerpac offers a full line of accessories including a wide range of reaction arms and drives.

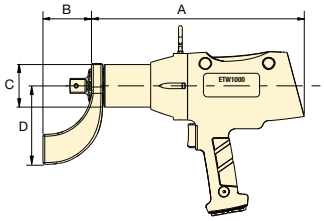


BSH-Series Sockets

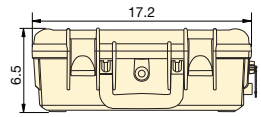
Heavy-Duty Impact Sockets for power driven torquing equipment.



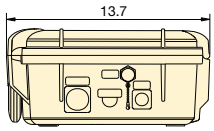
① ETW Torque Wrench
② Control Box
③ Reaction Arm



Front View



Side View



Voltage: (Model No. ending with suffix)

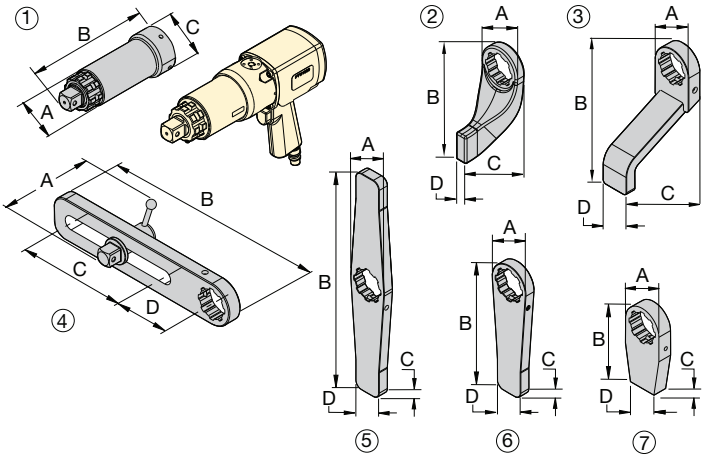
B = 115V, 60 Hz
I = 230V, 60 Hz (with NEMA 6-15 plug)
E = 230V, 50 Hz (with commonly used European (SCHUKO) plug)

Minimum Torque (Ft.lbs)	Minimum Torque (Nm)	Maximum Torque (Ft.lbs)	Maximum Torque (Nm)	Square Drive (in)	Model Number	Voltage	RPMs	Dimensions (in) A	B	C	D	Wrench Weight* (lbs)
200	270	1000	1355	1.0	**ETW1000B**	115V 60 Hz	9.8	14.4	3.3	2.8	5.2	18.1
200	270	1000	1355	1.0	**ETW1000I**	230V 60 Hz	15.2	14.4	3.3	2.8	5.2	18.1
200	270	1000	1355	1.0	**ETW1000E**	230V 50 Hz	15.2	14.4	3.3	2.8	5.2	18.1
400	540	2000	2710	1.0	**ETW2000B**	115V 60 Hz	5.8	15.0	3.3	3.1	5.2	19.7
400	540	2000	2710	1.0	**ETW2000I**	230V 60 Hz	9.0	15.0	3.3	3.1	5.2	19.7
400	540	2000	2710	1.0	**ETW2000E**	230V 50 Hz	9.0	15.0	3.3	3.1	5.2	19.7
600	810	3000	4065	1.0	**ETW3000B**	115V 60 Hz	2.8	17.1	3.3	3.7	5.2	26.3
600	810	3000	4065	1.0	**ETW3000I**	230V 60 Hz	4.3	17.1	3.3	3.7	5.2	26.3
600	810	3000	4065	1.0	**ETW3000E**	230V 50 Hz	4.3	17.1	3.3	3.7	5.2	26.3
1200	1625	6000	8135	1.5	**ETW6000B**	115V 60 Hz	1.9	17.8	4.5	5.0	7.0	42.1
1200	1625	6000	8135	1.5	**ETW6000I**	230V 60 Hz	2.9	17.8	4.5	5.0	7.0	42.1
1200	1625	6000	8135	1.5	**ETW6000E**	230V 50 Hz	2.9	17.8	4.5	5.0	7.0	42.1

* Weight of wrench only without reaction arm. Reaction arm weight for ETW1000, ETW2000, ETW3000 is 2.9 lbs. and for the ETW6000 is 7.75 lbs. Weight of control box is 20 lbs.

Torque Wrench Accessories
PTW, ETW-Series

ENERPAC



PTW, ETW Series



Maximum Output Torque:
6000 Ft.lbs

Square Drive Range:
1 - 1½ inches

No.	Description	Model No.	Application	Dimensions in inches A	B	C	D
▼ **Optional accessories for use with PTW1000, ETW1000, PTW2000, ETW2000, PTW3000, ETW3000 models**							
1	Extended Drive, 6 inch (152 mm)	**ED6TWS**	Nose extension, primarily for truck wheel bolts	2.44	8.11	2.87	—
1	Extended Drive, 12 inch (305 mm)	**ED12TWS**		2.44	15.12	2.87	—
1	Extended Drive, 18 inch (457 mm)	**ED18TWS**		2.44	20.12	2.87	—
2	Standard Reaction Arm	**RATWS**	Standard arm included with PTW/ETW model	2.99	6.77	4.02	0.83
3	Extended Reaction Arm	**ERATWS**	Long plate for use with deep well sockets	2.87	5.91	7.95	2.01
4	Sliding Reaction Arm	**SLRATWS**	For widely spaced and uneven bolt centers	4.41	15.00	7.99	4.02
5	Double Straight Reaction Arm	**DSATWS**	Reduces time to reposition arm *	2.87	15.98	0.75	4.02
6	Straight Reaction Arm	**SRATWS**	Long plate for wide spaced reaction points	2.87	9.45	0.75	2.01
7	Blank Reaction Arm **	**BLTWS**	Weldable blank for custom applications **	2.83	5.94	0.98	2.01
▼ **For use with PTW6000, ETW6000 models**							
1	Extended Drive 6 inch (152 mm)	**ED6TWL**	Nose extension, primarily for truck wheel bolts	3.31	9.13	4.02	—
1	Extended Drive 12 inch (305 mm)	**ED12TWL**		3.31	15.12	4.02	—
2	Standard Reaction Arm	**RATWL**	Standard arm included with PTW/ETW model	4.02	9.02	5.75	1.26
3	Extended Reaction Arm	**ERATWL**	Long plate for use with deep well sockets	4.02	10.00	7.24	2.52
4	Sliding Reaction Arm	**SLRATWL**	For widely spaced and uneven bolt centers	5.98	16.50	7.48	4.49
5	Double Straight Arm	**DSATWL**	Reduces time to reposition arm *	4.02	20.00	1.26	2.24
6	Straight Reaction Arm	**SRATWL**	Long plate for wide spaced reaction points	4.02	12.01	1.26	2.24
7	Blank Reaction Arm **	**BLTWL**	Weldable blank for custom applications **	4.02	5.98	1.26	2.24

* Time to reposition arm when repeatedly moving from tightening to loosening.

** ⚠ WARNING: Blank reaction arms must be heat treated to HRc 38-42 prior to use.

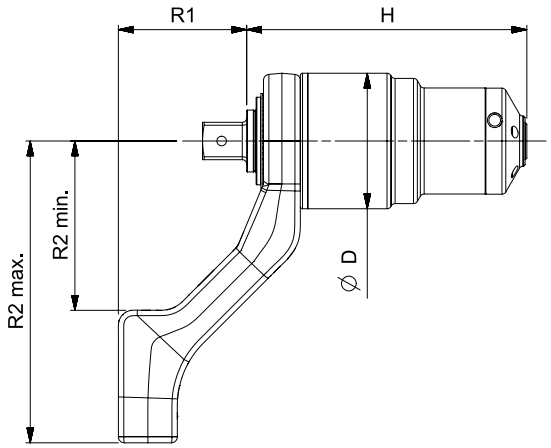
Torque Multipliers
Reaction Arm Style



Sockets not included



- Compact dimensions allow excellent access to applications and easy, safe handling
- Lightweight for torque capacity
- Supplied as standard with an aluminium reaction arm (steel reactions for HT-52). Other options are available on request, including customised reactions
- Torque multiplication accuracy ±4%
- Robust, 48 tooth Anti Wind-Up Ratchet (AWUR) contains the forces generated during tightening for safe and easy operation
- Each multiplier is supplied with its own unique calibration certificate allowing the accurate calculation of input torque for critical applications



4	COMPACT SERIES
180200	HT-52/4.7 1,000 N·m ½" in ¾" out
180201	HT-52/22.2 1,000 N·m ⅜" in ¾" out
180202	HT-52/22.2 1,000 N·m ½" in ¾" out
180203	HT-52/22.2 1,000 N·m ⅜"in ¾" out AWUR
180204	HT-52/22.2 1,000 N·m ½" in ¾" out AWUR
180205	HT-52/22.2 1,000 N·m ⅜" in 1" out AWUR
180206	HT-52/22.2 1,000 N·m ½" in 1" out AWUR
180208	HT-72/5.2 1,500 N·m ½" in 1" out
180209	HT-72/5.2 1,000 N·m ¾" in ¾" out
180210	HT-72/5.2 2,000 N·m ¾" in 1" out
180212	HT-72/27 2,000 N·m ½" in 1" out
180214	HT-72/27 2,000 N·m ½" in 1" out AWUR
180215	HT-92/25 4,000 N·m ½" in 1" out AWUR
180216	HT-119/25.5 7,000 N·m ½" in 1½" out AWUR



11	NOSE EXTENSIONS FOR 72 SERIES
18349.006	6" long, SPM/SPF
18349.009	9" long, SPM/SPF
18349.012	12" long, SPM/SPF
18349.015	15" long, SPM/SPF
18349.018	18" long, SPM/SPF
18330.50	Telescopic Nose Assembly

Note: Square drive fitted from existing tool. SPM = Spline Male. SPF = Spline Female.

Model		HT-52/4.7	HT-52/22.2	HT52/22.2 AWUR	HT-72/5.2	HT-72/5.2	HT-72/27	HT-72/27 AWUR	HT-92/25 AWUR	HT-119/25.5 AWUR
Part Number		180200	180201 180202	180203 180204 180205 180206	180208 180209	180210	180212	180214	180215	180216
Multiplication Ratio		4.7:1	22.2:1	22.2:1	5.2:1	5.2:1	27:1	27:1	25:1	25.5:1
Dimensions (mm)	ØD	52	52	52	72	72	72	72	92	119
	H	91	116	130	140	135	137	154	190	212
	R1	58	58	58	67	72	72	72	87	117
	R2 min.	71	71	71	91	91	91	91	115	151
	R2 max.	131	131	131	166	166	166	166	205	199
Tool Weight (kg)		1.0	1.3	1.4	2.7	2.7	2.7	3.2	5.4	9.3
Reaction Weight (kg)		0.9	0.9	0.9	0.7	0.7	0.7	0.7	1.4	2.1

Hydraulic Torque Wrenches
Square Drive

ENERPAC

▼ Shown: **S3000X**



Safety and Performance
- **Compact, high-strength uni-body construction provides a small operating radius without sacrificing endurance**
- **35° rotation angle and rapid return stroke for fast operation**
- **Tough manifold design with added safety feature for enhanced operator safety**

Simplicity
- **360° click-on reaction arm with quick release lever provides easier handling, even when wearing gloves**
- **Includes robust handle which mounts on both sides of tool for extra maneuverability**
- **Push button square drive release for quickly reversing the square drive for tightening or loosening**

Versatility
- **Available with optional enhanced tilt and swivel TSP300 manifold for horizontal and vertical maneuverability, with greater durability***

Accuracy
- **Constant torque output provides accuracy of +/-3% across full stroke**
- **Optional Angle-of-Turn Indicator provides measurement of rotation**

* TSP300 is designed for X-Edition tools only, and is not compatible with standard edition tools. For replacement components for existing tools, refer to repair sheet on www.enerpac.com

Setting New Standards in Safety, Simplicity and Performance



Two Handle Styles

Robust angled positioning handles come standard with every S-Series (X-Edition) tool. Straight positioning handles are available as accessories.

Compatible S-Series (X-Edition) wrenches	Angled positioning handles (standard)	Straight positioning handles (optional)
S1500X, S3000X	SWH6A	SWH6S
S6000X, S11000X	SWH10A	SWH10S
S25000X	Supplied with an eyebolt handle (SWH10EA)	



TSP - Pro Series Swivel

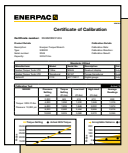
The optional **TSP300** tilt and swivel manifold with robust interlocking design provides 360° X-axis rotation and 160° Y-axis rotation.

How to Order*

Factory fitted to S-Series (X-Edition) wrenches: Insert a "P" prior to the "X" in the tool designation, e.g.: **S1500PX**.

Order as an accessory using the part number: **TSP300**, which can be fitted to existing S-Series (X-Edition) wrenches.

* Includes male and female couplers.



Calibration Certificate

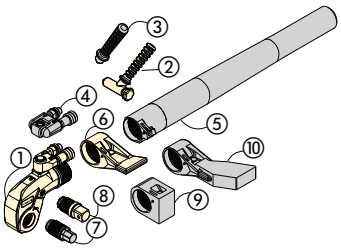
All X-Edition tools are CE-ATEX declared, factory calibrated and are shipped complete with a calibration certificate.

CE Ex II 2 GD ck T4
CSA/SIRA 15XT072

Torque Wrenches

Square Drive, S-Series, X-Edition

ENERPAC



① Drive Unit
② Angeled Positioning Handle
③ Straight Positioning Handle (optional)
④ Pro Series Swivel (optional)
⑤ Reaction Tube Extension (optional)
⑥ Standard Reaction Arm
⑦ Allen Drive (optional)
⑧ Square Drive
⑨ Short Reaction Arm (optional)
⑩ Extended Reaction Arm (optional)

Select the Right Torque

Choose your Enerpac Torque Wrench using the untightening rule of thumb: Loosening torque equals about 250% of tightening torque.

S Series (X-Edition)



Nominal Torque at 10,000 psi:
26,150 Ft.lbs

Square Drive Range:
¾-2½ inch

Nose Radius:
.98-2.52 inch

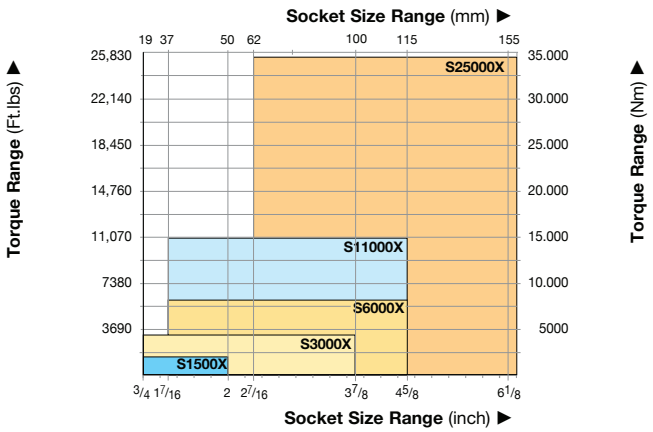
Maximum Operating Pressure:
10,000 psi



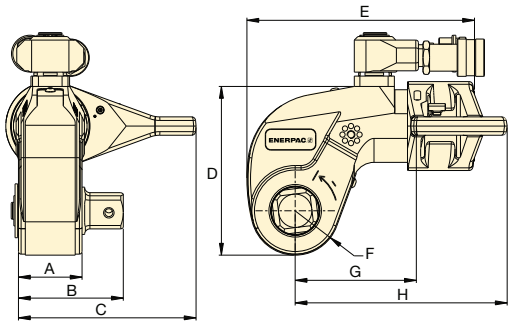
Accessory Options

A full list of optional accessories can be found on page 9.

***TORQUE WRENCH SELECTION (based on socket size range)**



*Additional socket sizes available upon request. See page 10 for BSH-Sockets.



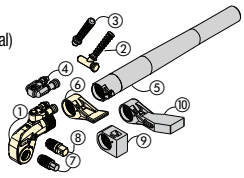
Nominal Torque at 10,000 psi (Ft.lbs)	Nominal Torque at 10,000 psi (Nm)	Minimum Torque (Ft.lbs)	Minimum Torque (Nm)	Square Drive Size (in)	Square Drive Model No. (included with wrench)	Angle-of-Turn Model No. (optional)	Torque Wrench Model No.*	Dimensions (in) A	B	C	D	E	F	G	H	Wt. (lbs)
1440	1952	144	195	¾"	SD15–012	AOT15	**S1500X**	1.54	2.56	4.25	3.82	5.35	0.98	2.76	5.08	7.0
3225	4373	323	438	1"	SD30–100	AOT30	**S3000X**	1.89	3.15	5.31	5.04	6.81	1.30	3.54	6.34	12.3
6150	8338	615	834	1½"	SD60–108	AOT60	**S6000X**	2.17	3.62	6.65	6.18	7.56	1.57	4.33	7.40	20.2
11,175	15.151	1,118	1.516	1½"	SD110–108	AOT110	**S11000X**	2.83	4.49	7.76	7.48	8.98	1.95	5.24	9.02	34.7
26,150	35.455	2,615	3.545	2½"	SD250–208	AOT250	**S25000X**	3.50	5.63	9.69	9.61	11.30	2.52	7.17	11.61	70.8

* To order a S-series (X-Edition) wrench fitted with the TSP swivel, insert a "P" prior to the "X" in the tool designation. e.g., **S1500PX**.

Allen Drives
SDA-Series

ENERPAC

① Drive Unit
② Angeled Positioning Handle
③ Straight Positioning Handle (optional)
④ Pro Series Swivel (optional)
⑤ Reaction Tube Extension (optional)
⑥ Standard Reaction Arm
⑦ Allen Drive (optional)
⑧ Square Drive
⑨ Short Reaction Arm (optional)
⑩ Extended Reaction Arm (optional)



Nominal Torque at 10,000 psi:
26,150 Ft.lbs.

Hexagon Size Allen Drive:
½-2¼ in. (14-85 mm)

For S Series (X-Edition)



TORQUE WRENCH	OPTIONAL ALLEN DRIVES, IMPERIAL				OPTIONAL ALLEN DRIVES, METRIC				SHORT REACTION ARM FOR ALLEN DRIVES	
										
Model Number	Hexagon Size (in)	Maximum Torque (Ft.Lbs)	Model Number	Dim. B1 (in)	Hexagon Size (mm)	Maximum Torque (Ft.lbs)	Model Number	Dim. B1 (in)	Model Number	Dimensions (in) C1	H1
S1500X (1440 Ft-lbs)	½	355	SDA15-008	2.6	14	475	SDA15-14	2.60	SRA15X	2.66	2.56
	⅝	690	SDA15-010	2.6	17	850	SDA15-17	2.68			
	¾	1195	SDA15-012	2.8	19	1185	SDA15-19	2.76			
	⅞	1400	SDA15-014	2.9	22	1400	SDA15-22	2.87			
	1	1400	SDA15-100	3.0	24	1400	SDA15-24	2.91			
S3000X (3225 Ft-lbs)	⅝	690	SDA30-010	3.0	17	850	SDA30-17	3.03	SRA30X	3.15	2.91
	¾	1195	SDA30-012	3.1	19	1185	SDA30-19	3.11			
	⅞	1895	SDA30-014	3.3	22	1835	SDA30-22	3.23			
	1	2825	SDA30-100	3.4	24	2385	SDA30-24	3.31			
	1⅛	3200	SDA30-102	3.5	27	3200	SDA30-27	3.35			
	1¼	3200	SDA30-104	3.5	30	3200	SDA30-30	3.43			
	–	–	–	–	32	3200	SDA30-32	3.46			
S6000X (6050 Ft-lbs)	⅝	690	SDA60-010	3.3	17	850	SDA60-17	3.39	SRA60X	3.60	3.50
	¾	1195	SDA60-012	3.5	19	1185	SDA60-19	3.46			
	⅞	1895	SDA60-014	3.6	22	1835	SDA60-22	3.58			
	1	2825	SDA60-100	3.7	24	2385	SDA60-24	3.66			
	1⅛	4025	SDA60-102	3.8	27	3395	SDA60-27	3.70			
	1¼	5520	SDA60-104	3.9	30	4655	SDA60-30	3.78			
	–	–	–	–	32	5650	SDA60-32	3.82			
S11000X (11,175 Ft-lbs)	1¼	5520	SDA110-104	4.5	30	4655	SDA110-30	4.41	SRA110X	5.02	4.17
	1⅜	7345	SDA110-106	4.6	32	5650	SDA110-32	4.49			
	1½	9535	SDA110-108	4.6	36	8040	SDA110-36	4.61			
	1⅝	11,000	SDA110-110	4.8	41	11,000	SDA110-41	4.76			
	1¾	11,000	SDA110-112	4.9	46	11,000	SDA110-46	5.00			
S25000X (26,150 Ft-lbs)	1½	9535	SDA250-108	5.5	36	8040	SDA250-36	5.51	SRA250X	6.24	5.31
	1⅝	12,120	SDA250-110	5.7	41	11,880	SDA250-41	5.67			
	1¾	15,135	SDA250-112	5.8	46	16,775	SDA250-46	5.83			
	1⅞	18,620	SDA250-114	5.9	50	21,545	SDA250-50	5.94			
	2	22,595	SDA250-200	5.9	55	26,150	SDA250-55	6.06			
	2¼	26,150	SDA250-204	6.0	60	26,150	SDA250-60	6.22			
	–	–	–	–	65	26,150	SDA250-65	6.34			
	–	–	–	–	70	26,150	SDA250-70	6.46			
	–	–	–	–	75	26,150	SDA250-75	6.61			
	–	–	–	–	85	26,150	SDA250-85	6.89			

Torque Wrenches

Accessories for S-Series, X-Edition

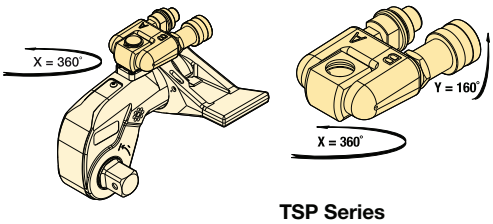
ENERPAC

TSP-Series, Pro Series Swivels

- Robust interlocking design
- 360° X-axis and 160° Y-axis rotation
- Increases tool fit in restricted access areas
- Simplifies hose placement
- Includes male and female couplers

TSP
RTEX
SRSX
Series



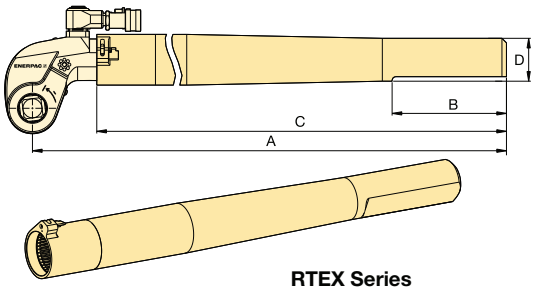


TSP Series

Torque Wrench Model Number	Model Number	Maximum Pressure (psi)	Wt. (lbs)
S1500X, S3000X, S6000X, S11000X, S25000X	TSP300*	10,000	0.44

Note: To order a S-series (X-Edition) wrench fitted with the TSP swivel, insert a "P" prior to the "X" in the tool designation, e.g., **S1500PX.**
* TSP300 is designed for X-Edition tools only, and is not compatible with standard edition tools. For replacement components for existing tools, refer to repair sheet on www.enerpac.com

RTEX-Series, Reaction Tube Extensions



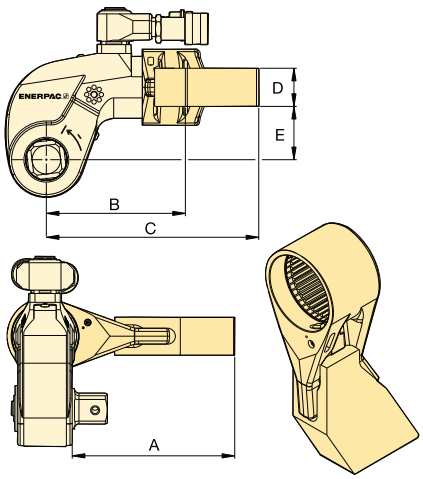
RTEX Series

- Full torque rated
- Increases tool fit in restricted access areas

Torque Wrench Model Number	Model Number	Dimensions (in)				Wt. (lbs)*
		A	B	C	D	
S1500X	RTE15X	27.80	5.98	25.04	2.28	10.1
S3000X	RTE30X	28.86	5.98	25.47	2.24	12.1
S6000X	RTE60X	29.41	5.98	25.94	2.56	17.0
S11000X	RTE110X	30.28	5.98	26.57	2.99	24.7
S25000X	RTE250X	32.01	5.98	26.97	3.94	38.1

* Weights indicated are for the accessories only and do not include the wrench.

SRSX-Series, Extended Reaction Arms



SRSX Series

- Lightweight interchangeable design

Wrench Model	Max. Torque (Ft-lbs)	Model Number	Dimensions (in)					Wt. (lbs)*
			A	B	C	D	E	
S1500X	1328	SRS151X	3.70	3.39	5.00	0.94	1.34	1.8
	1210	SRS152X	4.69	3.82	5.43	0.94	1.34	2.2
	1131	SRS153X	5.71	4.29	5.83	0.94	1.34	2.6
S3000X	2890	SRS301X	4.37	4.17	6.61	1.34	1.89	3.5
	2739	SRS302X	5.39	4.61	7.17	1.34	1.89	4.4
	2638	SRS303X	6.38	5.20	7.80	1.34	1.89	5.5
S6000X	5784	SRS601X	5.43	5.04	7.56	1.54	2.44	5.1
	5501	SRS602X	6.42	5.67	8.15	1.54	2.44	6.0
	5295	SRS603X	7.44	6.26	8.74	1.54	2.44	7.5
S11000X	10,812	SRS1101X	5.87	6.18	9.13	1.81	2.99	9.7
	10,300	SRS1102X	6.89	6.77	9.72	1.81	2.99	11.2
	9883	SRS1103X	7.87	7.36	10.28	1.81	2.99	12.8
S25000X	24,751	SRS2501X	7.20	8.23	11.61	1.97	3.94	16.8
	23,652	SRS2502X	8.19	8.74	12.20	1.97	3.94	18.5
	22,694	SRS2503X	9.17	9.29	12.83	1.97	3.94	22.0

* Weights indicated are for the accessories only and do not include the wrench.

Low Profile Hexagon Wrenches
W-Series

ENERPAC

▼ Shown: **W4206X cassette with W4000X drive unit**
(Rear model shows optional straight handle)



Setting New Standards in Safety, Simplicity and Performance

Safety and Performance

- **Superior strength to size ratio provides easy access to difficult to reach applications without sacrificing endurance**
- **30° rotation angle and rapid return stroke provide fast operation**
- **Tough manifold design with added safety feature for enhanced operator safety**

Simplicity

- **Fast release drive unit enables rapid exchange of cassettes, no tools required and no pins to lose**
- **Includes robust handles which mount on both sides, and the tops of cassettes to allow for extra maneuverability**
- **Quick and easy disassembly for maintenance without special tools**

Versatility

- **Available with optional enhanced tilt and swivel TSP300 manifold for horizontal and vertical maneuverability, with greater durability***
- **X-Edition drive units, cassettes and most accessories are compatible with standard edition tools***
- **Drive unit compatible with UltraSlim and WCR-Series cassettes**

Accuracy

- **Constant torque output provides accuracy of +/-3% across full stroke**

* TSP300 is designed for X-Edition tools only, and is not compatible with standard edition tools. For replacement components for existing tools, refer to repair sheet on www.enerpac.com



Two Handle Styles

Robust angled positioning handles come standard with every W-Series (X-Edition) tool. Straight positioning handles designed for extreme limited access applications are available as accessories.

Compatible W-Series (X-Edition) wrenches	Angled positioning handles (standard)	Straight positioning handles (optional)
W2000X, W4000X	SWH6A	SWH6S
W8000X, W15000X	SWH10A	SWH10S
W22000X, W35000X	Supplied with an eyebolt handle (SWH10EA)	



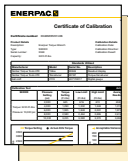
TSP - Pro Series Swivel

The optional TSP300 tilt and swivel manifold with robust interlocking design provides 360° X-axis rotation and 160° Y-axis rotation.

How to Order

Factory fitted to new W-Series (X-Edition) wrenches: Insert a "P" prior to the "X" in the tool designation, e.g.: **W2000PX**.

Order as an accessory using the part number: **TSP300**, which can be fitted to existing W-Series (X-Edition) wrenches.



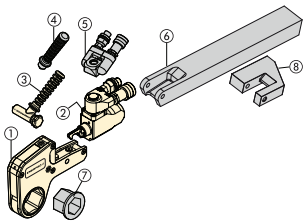
Calibration Certificate

All X-Edition tools are CE-ATEX declared, factory calibrated and are shipped complete with a calibration certificate.

CE Ex II 2 GD ck T4
CSA/SIRA 15XT072

Hexagon Wrenches
W-Series, X-Edition

ENERPAC



① Hexagon Cassette
② Drive Unit
③ Angled Positioning Handle
④ Straight Positioning Handle (optional)
⑤ Pro Series Swivel (optional)
⑥ Extended Reaction Arm (optional)
⑦ Reducer Insert (optional)
⑧ Reaction Paddle (optional)



Hexagon Cassettes and Reducer Inserts

Full range of interchangeable hexagon cassettes and reducing inserts provides maximum versatility. Details available at www.enerpac.com

W Series (X-Edition)



Nominal Torque at 10,000 psi:
35,000 Ft.lbs

Hexagon Range:
1 1/16 -6 1/8 inch

Nose Radius:
1.22-4.52 inch

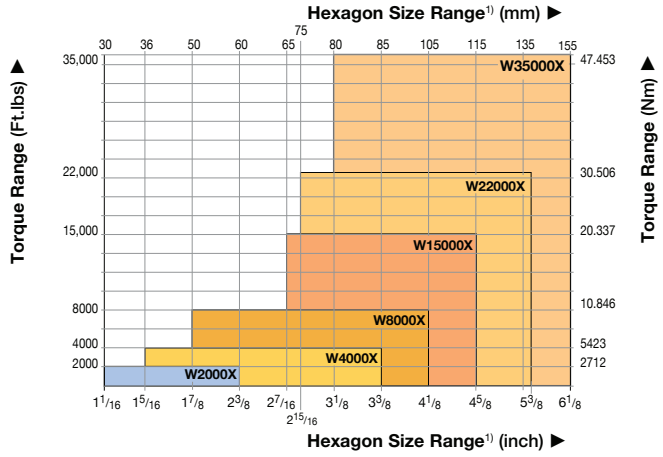
Maximum Operating Pressure:
10,000 psi



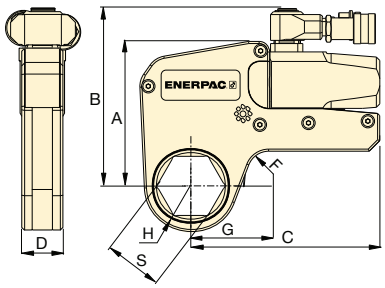
Torque Wrench Pump Selection Matrix

For optimum speed and performance see the torque wrench and pump matrix.

DRIVE UNIT AND INTERCHANGEABLE CASSETTE SELECTION



[1] See page 80 for table of hexagon sizes of bolts, nuts and related thread diameters.



▼ SELECTION CHART

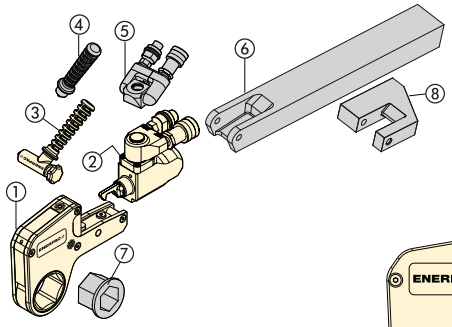
Hexagon Range *		Nominal Torque at 10,000 psi		Drive Unit Model Number **	Minimum Torque		Dimensions (see pages 14-21 for dimensions H, G, and S) (in)					Weight (Drive unit without hexagon cassette)
Page: 14												
(in)	(mm)	(Ft.lbs)	(Nm)		(Ft.lbs)	(Nm)	A	B	C	D	F	(lbs)
1 1/16 - 2 3/8	30 - 60	2040	2766	W2000X	204	277	4.29	5.55	5.83	1.26	.79	3.04
1 5/16 - 3 3/8	36 - 85	4175	5661	W4000X	418	566	5.35	6.57	7.01	1.61	.79	4.44
1 7/8 - 4 1/8	50 - 105	8470	11.484	W8000X	847	1148	6.77	8.07	8.19	2.07	.98	6.59
2 7/16 - 4 5/8	65 - 115	15,330	20.785	W15000X	1533	2079	8.15	9.45	9.96	2.48	.79	10.72
2 15/16 - 5 3/8	75 - 135	22,500	30.506	W22000X	2250	3050	8.94	10.46	11.68	3.03	1.38	16.98
3 1/8 - 6 1/8	80-155	35,000	47.453	W35000X	3500	4745	10.54	11.94	13.60	3.57	1.98	26.40

* With in-line reaction foot.
** To order a W-series (X-Edition) wrench fitted with the TSP swivel, insert a "P" prior to the "X" in the tool designation. e.g., **W2000PX**.

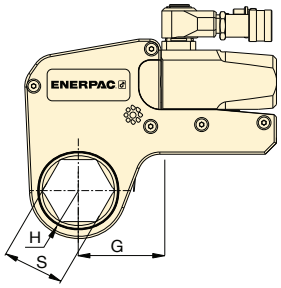
Imperial Cassettes & Reducer Inserts

W-Series,-X-Edition

ENERPAC



① Hexagon Cassette
② Drive Unit
③ Angled Positioning Handle
④ Straight Positioning Handle (optional)
⑤ Pro Series Swivel (optional)
⑥ Extended Reaction Arm (optional)
⑦ Reducer Insert (optional)
⑧ Reaction Paddle (optional)



W Series (X-Edition)



Nominal Torque at 10,000 psi:
2040 Ft.lbs

Hexagon Range:
1 1/16 - 2 3/8 inch

Maximum Operating Pressure:
10,000 psi



Metric Sizes
For metric sizes of hexagon cassettes and reducer inserts see:

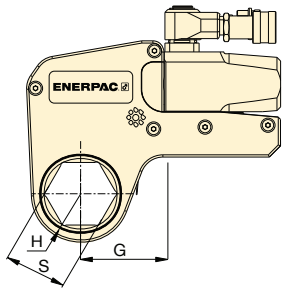
▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W2000X	1 1/16	1.22	2.11	W2101X	4.19	–	–	–	–	–	–
	1 1/8	1.22	2.11	W2102X	4.19	–	–	–	–	–	–
	1 3/16	1.22	2.11	W2103X	4.19	–	–	–	–	–	–
	1 1/4	1.22	2.11	W2104X	4.19	–	–	–	–	–	–
	1 5/16	1.22	2.11	W2105X	4.48	–	–	–	–	–	–
	1 3/8	1.22	2.11	W2106X	4.43	–	–	–	–	–	–
	1 7/16	1.22	2.11	W2107X	4.37	1 7/16 - 1 1/8	W2107R102	–	–	–	–
	1 1/2	1.32	2.29	W2108X	4.51	–	–	–	–	–	–
	1 9/16	1.32	2.29	W2109X	4.44	–	–	–	–	–	–
	1 5/8	1.32	2.29	W2110X	4.38	1 5/8 - 1 1/4	W2110R104	1 5/8 - 1 3/16	W2110R103	–	–
	1 11/16	1.44	2.38	W2111X	4.63	–	–	–	–	–	–
	1 3/4	1.44	2.38	W2112X	4.57	–	–	–	–	–	–
	1 13/16	1.44	2.38	W2113X	4.46	1 13/16 - 1 7/16	W2113R107	1 13/16 - 1 1/4	W2113R104	–	–
	1 7/8	1.54	2.48	W2114X	4.69	–	–	–	–	–	–
	1 15/16	1.54	2.48	W2115X	4.64	–	–	–	–	–	–
	2	1.54	2.48	W2200X	4.54	2 - 1 5/8	W2200R110	2 - 1 7/16	W2200R107	–	–
	2 1/16	1.65	2.70	W2201X	4.83	–	–	–	–	–	–
	2 1/8	1.65	2.70	W2202X	4.74	–	–	–	–	–	–
	2 3/16	1.65	2.70	W2203X	4.64	2 3/16 - 1 13/16	W2203R113	2 3/16 - 1 5/8	W2203R110	2 3/16 - 1 7/16	W2203R107
	2 1/4	1.75	2.55	W2204X	4.94	–	–	–	–	–	–
	2 5/16	1.75	2.55	W2205X	4.84	–	–	–	–	–	–
	2 3/8	1.75	2.55	W2206X	4.72	2 3/8 - 2	W2206R200	2 3/8 - 1 7/8	W2206R114	2 3/8 - 1 13/16	W2206R113
	–	–	–	–	–	2 3/8 - 1 1/2	W2206R108	2 3/8 - 1 7/16	W2206R107	2 3/8 - 1 5/8	W2206R110

Imperial Cassettes & Reducer Inserts

W-Series, X-Edition

ENERPAC



Nominal Torque at 10,000 psi:
4175 Ft.lbs

Hexagon Range:
1 5/16-3 3/8 inch

Maximum Operating Pressure:
10,000 psi

W Series (X-Edition)



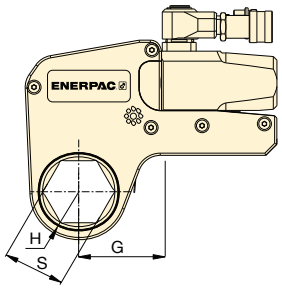
▼ SELECTION CHART

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W4000X	1 5/16	1.46	2.40	W4105X	8.15	–	–	–	–	–	–
	1 3/8	1.46	2.40	W4106X	8.15	–	–	–	–	–	–
	1 7/16	1.46	2.40	W4107X	8.15	–	–	–	–	–	–
	1 1/2	1.46	2.40	W4108X	8.31	–	–	–	–	–	–
	1 9/16	1.46	2.40	W4109X	8.22	–	–	–	–	–	–
	1 5/8	1.46	2.40	W4110X	8.15	–	–	–	–	–	–
	1 11/16	1.56	2.52	W4111X	8.43	–	–	–	–	–	–
	1 3/4	1.56	2.52	W4112X	8.35	–	–	–	–	–	–
	1 13/16	1.56	2.52	W4113X	8.25	–		–	–	–	–
	1 7/8	1.63	2.63	W4114X	8.45	–	–	–	–	–	–
	1 15/16	1.63	2.63	W4115X	8.39	–	–	–	–	–	–
	2	1.63	2.63	W4200X	8.28	2 - 1 7/16	W4200R107	–	–	–	
	2 1/16	1.73	2.89	W4201X	8.65	–	–	–	–	–	–
	2 1/8	1.73	2.89	W4202X	8.53	–	–	–	–	–	–
	2 3/16	1.73	2.89	W4203X	8.42	2 3/16 - 1 5/8	W4203R110	2 3/16 - 1 7/16	W4203R107	2 3/16 - 1 1/4	W4203R104
	2 1/4	1.83	2.78	W4204X	8.73	–	–	–	–	–	–
	2 5/16	1.83	2.78	W4205X	8.61	–	–	–	–	–	–
	2 3/8	1.83	2.78	W4206X	8.47	2 3/8 - 2	W4206R200	2 3/8 - 1 13/16	W4206R113	2 3/8 - 1 7/16	W4206R107
	–	–	–	–	–	2 3/8 - 1 3/8	W4206R106	–	–	–	–
	2 7/16	1.95	3.00	W4207X	8.96	2 7/16 - 2	W4207R200	–	–	–	–
	2 1/2	1.95	3.00	W4208X	8.86	2 1/2 - 2	W4208R200	2 1/2 - 1 13/16	W4208R113	2 1/2 - 2 1/16	W4208R201
	2 9/16	1.95	3.00	W4209X	8.67	2 9/16 - 2 3/16	W4209R203	2 9/16 - 2 1/8	W4209R202	–	–
	–	–	–	–	–	2 9/16 - 2	W4209R200	2 9/16 - 1 13/16	W4209R113	–	–
	2 5/8	2.07	3.08	W4210X	9.14	–	–	–	–	–	–
	2 11/16	2.07	3.08	W4211X	9.03	–	–	–	–	–	–
	2 3/4	2.07	3.08	W4212X	8.84	2 3/4 - 2 3/8	W4212R206	2 3/4 - 2 3/16	W4212R203	2 3/4 - 2 1/8	W4212R202
	2 13/16	2.18	3.21	W4213X	9.32	–	–	–	–	–	–
	2 7/8	2.18	3.21	W4214X	9.17	–	–	–	–	–	–
	2 15/16	2.18	3.21	W4215X	8.96	2 15/16 - 2 9/16	W4215R209	2 15/16 - 2 3/8	W4215R206	2 15/16 - 2 3/16	W4215R203
	–	–	–	–	–	2 15/16 - 2	W4215R200	–	–	–	–
	3	2.30	3.29	W4300X	9.51	3 - 2 3/16	W4300R203	–	–	–	–
	3 1/16	2.30	3.29	W4301X	9.42	–	–	–	–	–	–
	3 1/8	2.30	3.29	W4302X	9.16	–	–	3 1/8 - 2 3/4	W4302R212	3 1/8 - 2 9/16	W4302R209
	–	–	–	–	–	3 1/8 - 2 3/8	W4302R206	3 1/8 - 2 5/16	W4302R205	3 1/8 - 2 1/4	W4302R204
	–	–	–	–	–	3 1/8 - 2 3/16	W4302R203	3 1/8 - 2 1/8	W4302R202	3 1/8 - 2	W4302R200
	3 3/16	2.44	3.37	W4303X	9.92	–	–	–	–	–	–
	3 1/4	2.44	3.37	W4304X	9.92	–	–	–	–	–	–
	3 5/16	2.44	3.37	W4305X	9.92	–	–	–	–	–	–
	3 3/8	2.44	3.37	W4306X	9.92	–	–	–	–	–	–

Imperial Cassettes & Reducer Inserts

W-Series, X-Edition

ENERPAC



Nominal Torque at 10,000 psi:
8470 Ft.lbs

Hexagon Range:
1⅞ -4⅛ inch

Maximum Operating Pressure:
10,000 psi

W Series (X-Edition)



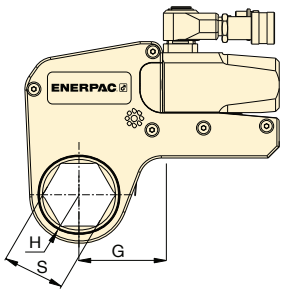
▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W8000X	1⅞	1.77	3.08	W8114X	17.97	–	–	–	–	–	–
	1 15/16	1.77	3.08	W8115X	17.89	–	–	–	–	–	–
	2	1.77	3.08	W8200X	17.75	–	–	–	–	–	–
	2 1/16	1.89	3.15	W8201X	17.52	–	–	–	–	–	–
	2⅛	1.89	3.15	W8202X	17.36	–	–	–	–	–	–
	2 3/16	1.89	3.15	W8203X	17.22	–	–	–	–	–	–
	2¼	2.01	3.25	W8204X	17.92	–	–	–	–	–	–
	2 5/16	2.01	3.25	W8205X	17.76	–	–	–	–	–	–
	2⅜	2.01	3.25	W8206X	17.59	–	–	–	–	–	–
	2 7/16	2.07	3.38	W8207X	17.65	–	–	–	–	–	–
	2½	2.07	3.38	W8208X	17.52	–	–	–	–	–	–
	2 9/16	2.07	3.38	W8209X	17.29	2 9/16 - 2	W8209R200		–		–
	2⅝	2.20	3.34	W8210X	17.50	–	–	–	–	–	–
	2 11/16	2.20	3.34	W8211X	17.36	–	–	–	–	–	–
	2¾	2.20	3.34	W8212X	17.12	2¾ - 2 3/16	W8212R203		–		–
	2 13/16	2.28	3.35	W8213X	17.57	–	–	–	–	–	–
	2⅞	2.28	3.35	W8214X	17.38	–	–	–	–	–	–
	2 15/16	2.28	3.35	W8215X	17.11	2 15/16 - 2⅜	W8215R206	2 15/16 - 2 3/16	W8215R203	–	–
	3	2.38	3.52	W8300X	17.77	–	–	–	–	–	–
	3 1/16	2.38	3.52	W8301X	17.65	–	–	–	–	–	–
	3⅛	2.38	3.52	W8302X	17.33	3⅛ - 2 9/16	W8302R209	3⅛ - 2⅜	W8302R206	3⅛ - 2 3/16	W8302R203
	–	–	–	–	–	3⅛ - 2	W8302R200	–	–	–	–
	3 3/16	2.60	3.63	W8303X	18.99	–	–	–	–	–	–
	3¼	2.60	3.63	W8304X	18.72	–	–	–	–	–	–
	3 5/16	2.60	3.63	W8305X	18.54	–	–	–	–	–	–
	3⅜	2.60	3.63	W8306X	18.36	–	–	–	–	–	–
	3 7/16	2.60	3.63	W8307IX	18.11	–	–	–	–	–	–
	3½	2.60	3.63	W8308X	17.81	3½ - 3	W8308R300	3½ - 2 15/16	W8308R215	3½ - 2¾	W8308R212
	3 9/16	2.91	4.05	W8309X	20.36	–	–	–	–	–	–
	3⅝	2.91	4.05	W8310X	20.18	–	–	–	–	–	–
	3 11/16	2.91	4.05	W8311X	19.93	–	–	–	–	–	–
	3¾	2.91	4.05	W8312X	19.71	3¾ - 3⅛	W8312R302	3¾ - 2 15/16	W8312R215	3¾ - 2¾	W8312R212
	3 13/16	2.91	4.05	W8313X	19.46	–	–	–	–	–	–
	3⅞	2.91	4.05	W8314X	19.10	3⅞ - 3⅛	W8314R302	3⅞ - 2 15/16	W8314R215	–	–
	3 15/16	3.13	4.33	W8315X	20.31	–	–	–	–	–	–
	4	3.13	4.33	W8400X	20.04	–	–	–	–	–	–
	4 1/16	3.13	4.33	W8401IX	19.80	–	–	–	–	–	–
	4⅛	3.13	4.33	W8402X	19.39	–	–	–	–	–	–

Imperial Cassettes & Reducer Inserts

W-Series, X-Edition

ENERPAC



Nominal Torque at 10,000 psi:
15,330 Ft.lbs

Hexagon Range:
2 7/16-4 5/8 inch

Maximum Operating Pressure:
10,000 psi

W Series (X-Edition)



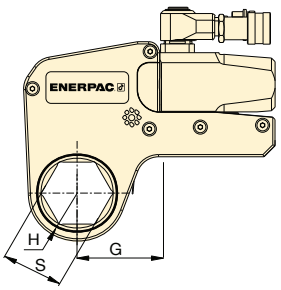
▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W15000X	2 7/16	2.32	3.49	W15207X	30.72	–	–	–	–	–	–
	2 1/2	2.32	3.49	W15208X	30.72	–	–	–	–	–	–
	2 9/16	2.32	3.49	W15209X	30.72	–	–	–	–	–	–
	2 5/8	2.32	3.49	W15210X	30.72	–	–	–	–	–	–
	2 11/16	2.32	3.49	W15211X	30.72	–	–	–	–	–	–
	2 3/4	2.32	3.49	W15212X	30.72	–	–	–	–	–	–
	2 13/16	2.44	3.56	W15213X	30.62	–	–	–	–	–	–
	2 7/8	2.44	3.56	W15214X	30.39	–	–	–	–	–	–
	2 15/16	2.44	3.56	W15215X	30.08	–	–	–	–	–	–
	3	2.54	3.66	W15300X	30.86	3 - 2 1/8	W15300R202	–	–	–	–
	3 1/16	2.54	3.66	W15301X	30.71	–	–	–	–	–	–
	3 1/8	2.54	3.66	W15302X	30.34	3 1/8 - 2 9/16	W15302R209		–		
	3 3/16	2.74	3.80	W15303X	32.38	–	–	–	–	–	–
	3 1/4	2.74	3.80	W15304X	32.07	–	–	–	–	–	–
	3 5/16	2.74	3.80	W15305X	31.85	–	–	–	–	–	–
	3 3/8	2.74	3.80	W15306X	31.63	–	–	–	–	–	–
	3 7/16	2.74	3.80	W15307IX	31.32	–	–	–	–	–	–
	3 1/2	2.74	3.80	W15308X	30.98	3 1/2 - 2 15/16	W15308R215	3 1/2 - 2 3/4	W15308R212		–
	3 9/16	2.95	4.01	W15309X	31.70	–	–	–	–	–	–
	3 5/8	2.95	4.01	W15310X	31.70	–	–	–	–	–	–
	3 11/16	2.95	4.01	W15311X	31.70	–	–	–	–	–	–
	3 3/4	2.95	4.01	W15312X	31.70	3 3/4 - 3 1/8	W15312R302	3 3/4 - 2 15/16	W15312R215		–
	3 13/16	2.95	4.01	W15313X	31.70	–	–	–	–	–	–
	3 7/8	2.95	4.01	W15314X	31.70	3 7/8 - 3 1/8	W15314R302	3 7/8 - 2 15/16	W15314R215	–	–
	3 15/16	3.17	4.06	W15315X	34.02	–	–	–	–	–	–
	4	3.17	4.06	W15400X	33.70	–	–	–	–	–	–
	4 1/16	3.17	4.06	W15401IX	33.41	–	–	–	–	–	–
	4 1/8	3.17	4.06	W15402X	33.09	4 1/8 - 3 1/2	W15402R308	4 1/8 - 3 5/16	W15402R305	4 1/8 - 3 1/4	W15402R304
	4 3/16	3.17	4.06	W15403IX	32.81	–	–	–	–	–	–
	4 1/4	3.17	4.06	W15404X	32.29	4 1/4 - 3 1/2	W15404R308	4 1/4 - 3 1/8	W15404R302	–	–
	4 5/16	3.44	4.52	W15405X	35.61	–	–	–	–	–	–
	4 3/8	3.44	4.52	W15406X	35.32	–	–	–	–	–	–
	4 7/16	3.44	4.52	W15407X	34.99	–	–	–	–	–	–
	4 1/2	3.44	4.52	W15408IX	34.63	–	–	–	–	–	–
	4 9/16	3.44	4.52	W15409IX	34.28	–	–	–	–	–	–
	4 5/8	3.44	4.52	W15410IX	33.72	4 5/8 - 3 15/16	W15410R315	4 5/8 - 3 7/8	W15410R314	4 5/8 - 3 3/4	W15410R312
	–	–	–	–	–	4 5/8 - 3 1/2	W15410R308	–	–	–	–

Imperial Cassettes & Reducer Inserts

W-Series, X-Edition

ENERPAC



Nominal Torque at 10,000 psi:
22,500 Ft.lbs

Hexagon Range:
2 15/16 - 5 3/8 inch

Maximum Operating Pressure:
10,000 psi

W Series (X-Edition)



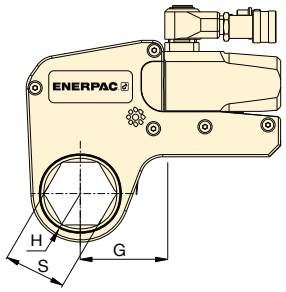
▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number	Hexagon Reducer (in)	Model Number
W2000X	2 15/16	2.64	4.02	W22215X	48.72	–	–	–	–	–	–
	3	2.64	4.02	W22300X	48.40	–	–	–	–	–	–
	3 1/16	2.64	4.02	W22301X	48.22	–	–	–	–	–	–
	3 1/8	2.64	4.02	W22302X	47.78	3 1/8 - 2 3/8	W22302R206	3 1/8 - 2 3/16	W22302R203	–	–
	3 3/16	2.85	4.23	W22303X	50.58	–	–	–	–	–	–
	3 1/4	2.85	4.23	W22304X	50.19	–	–	–	–	–	–
	3 5/16	2.85	4.23	W22305X	49.92	–	–	–	–	–	–
	3 3/8	2.85	4.23	W22306X	49.66	–	–	–	–	–	–
	3 7/16	2.85	4.23	W22307X	50.29	–	–	–	–	–	–
	3 1/2	2.85	4.23	W22308X	48.87	3 1/2 - 2 3/4	W22308R212	3 1/2 - 2 9/16	W22308R209	3 1/2 - 2 3/8	W22308R206
	3 9/16	3.07	4.45	W22309X	51.58	–	–	–	–	–	–
	3 5/8	3.07	4.45	W22310X	51.30	–	–	–	–	–	–
	3 11/16	3.07	4.45	W22311X	50.93	–	–	–	–	–	–
	3 3/4	3.07	4.45	W22312X	50.62	3 3/4 - 2 15/16	W22312R215	–	–	–	–
	3 13/16	3.07	4.45	W22313X	50.24	–	–	–	–	–	–
	3 7/8	3.07	4.45	W22314X	49.77	3 7/8 - 3 1/8	W22314R302	3 7/8 - 2 15/16	W22314R215	3 7/8 - 2 3/4	W22314R212
	3 15/16	3.35	4.72	W22315X	53.57	–	–	–	–	–	–
	4	3.35	4.72	W22400X	53.19	–	–	–	–	–	–
	4 1/16	3.35	4.72	W22401IX	52.82	–	–	–	–	–	–
	4 1/8	3.35	4.72	W22402X	52.43	–	–	–	–	–	–
	4 3/16	3.35	4.72	W22403X	52.09	–	–	–	–	–	–
	4 1/4	3.35	4.72	W22404X	51.48	4 1/4 - 3 1/2	W22404R308	4 1/4 - 3 1/8	W22404R302	4 1/4 - 2 15/16	W22404R215
	4 5/16	3.54	4.92	W22405X	54.26	–	–	–	–	–	–
	4 3/8	3.54	4.92	W22406X	53.91	–	–	–	–	–	–
	4 7/16	3.54	4.92	W22407X	53.50	–	–	–	–	–	–
	4 1/2	3.54	4.92	W22408IX	53.06	–	–	–	–	–	–
	4 9/16	3.54	4.92	W22409X	52.64	–	–	–	–	–	–
	4 5/8	3.54	4.92	W22410IX	51.99	4 5/8 - 3 7/8	W22410R314	4 5/8 - 3 3/4	W22410R312	4 5/8 - 3 1/2	W22410R308
	4 3/4	3.74	5.12	W22412X	54.54		–	–	–	–	–
	4 7/8	3.74	5.12	W22414X	53.60	–	–	–	–	–	–
	5	3.74	5.12	W22500X	52.37	5 - 4 1/4	W22500R404	5 - 4 1/8	W22500R402	5 - 3 7/8	W22500R314
	5 1/8	3.94	5.31	W22502X	55.10	–	–	–	–	–	–
	5 3/16	3.94	5.31	W22503X	54.71	–	–	–	–	–	–
	5 1/4	3.94	5.31	W22504X	54.05	–	–	–	–	–	–
	5 3/8	3.94	5.31	W22506X	52.77	5 3/8 - 4 5/8	W22506R410	5 3/8 - 4 1/4	W22506R404	5 3/8 - 4 1/8	W22506R402
	–	–	–	W22506X	52.77	5 3/8 - 3 7/8	W22506R314	–	–	–	–

Imperial Cassettes & Reducer Inserts

W-Series, X-Edition

ENERPAC



Nominal Torque at 10,000 psi:
35,000 Ft.lbs

Hexagon Range:
3⅛-6⅛ inches

Maximum Operating Pressure:
10,000 psi

W Series (X-Edition)



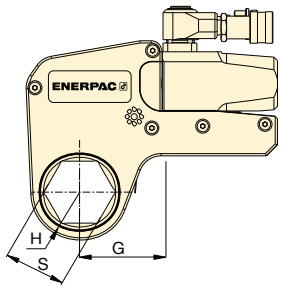
▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (in)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (in)	Model Number
W35000X	3⅛	3.02	4.99	W35302X	72.30	3⅛ – 2	W35302R200
	3⅜	3.02	4.99	W35303X	72.10	–	–
	3¼	3.02	4.99	W35304X	71.70	–	–
	3⅝	3.02	4.99	W35305X	71.40	–	–
	3⅜	3.02	4.99	W35306X	71.00	–	–
	3⅞	3.02	4.99	W35307IX	70.50	–	–
	3½	3.02	4.99	W35308X	70.10	3½ - 2⅝	W35308R205
	3⅝	3.23	5.22	W35309X	71.40	–	–
	3⅝	3.23	5.22	W35310X	73.40	–	–
	3⅞	3.23	5.22	W35311X	73.00	–	–
	3¾	3.23	5.22	W35312X	72.50	–	–
	3⅞	3.23	5.22	W35313X	72.10	–	–
	3⅞	3.23	5.22	W35314X	71.40	3⅞ - 2⅞	W35314R211
	3⅝	3.45	5.39	W35315X	70.80	3⅝ - 2⅞	W35315R213
	4	3.45	5.39	W35400X	74.70		–
	4⅛	3.45	5.39	W35401X	74.30	–	–
	4⅛	3.45	5.39	W35402X	73.90	–	–
	4⅜	3.45	5.39	W35403X	73.40	–	–
	4¼	3.45	5.39	W35404X	72.80	4¼ - 3⅛	W35404R301
	4⅝	3.69	5.63	W35405X	76.90	–	–
	4⅜	3.69	5.63	W35406X	76.50	–	–
	4⅞	3.69	5.63	W35407X	76.10	–	–
	4½	3.69	5.63	W35408X	75.60	–	–
	4⅝	3.69	5.63	W35409IX	75.20	–	–
	4⅝	3.69	5.63	W35410IX	74.50	4⅝ - 3⅝	W35410R310
	4¾	3.91	5.85	W35412X	78.50	4¾ - 3¾	W35412R312
	4⅞	3.91	5.85	W35414X	76.90	–	–
	5	3.91	5.85	W35500X	75.60	5 - 4	W35500R400
	5⅛	4.09	6.02	W35502X	78.90	5⅛ - 4⅛	W35502R402
	5⅜	4.09	6.02	W35503X	78.50	–	–
	5¼	4.09	6.02	W35504X	77.60	–	–
	5⅜	4.09	6.02	W35506X	76.30	5⅜ - 4⅝	W35506R405
	5½	4.31	6.24	W35508X	79.80	–	–
	5⅝	4.31	6.24	W35509X	79.40	–	–
	5⅝	4.31	6.24	W35510X	78.50	–	–
	5¾	4.31	6.24	W35512X	76.90	5¾ - 4¾	W35512R412
	5⅞	4.52	6.46	W35514X	80.90	5⅞ - 4⅞	W35514R414
	6	4.52	6.46	W35600X	79.60	–	
	6⅛	4.52	6.46	W35602X	77.80	6⅛ - 5⅛	W35602R502

Metric Cassettes & Reducer Inserts

W Series, X-Edition

ENERPAC



Hexagon Range:
30-105 mm

Maximum Operating Pressure:
10,000 psi (690 bar)

W Series (X-Edition)



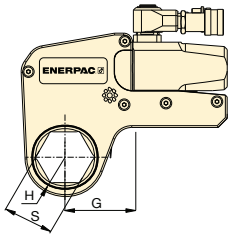
▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (mm)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (mm)	Model Number	Hexagon Reducer (mm)	Model Number	Hexagon Reducer (mm)	Model Number
W2000X	30	1.22	2.11	W2103X	4.19	–	–	–	–	–	–
	32	1.22	2.11	W2104X	4.19	–	–	–	–	–	–
	36	1.22	2.11	W2107X	4.19	–	–	–	–	–	–
	38	1.32	2.29	W2108X	4.51	–	–	–	–	–	–
	41	1.32	2.29	W2110X	4.38	41 - 32	W2110R104	41 - 30	W2110R103	41 - 24	W2110R024M
	46	1.44	2.38	W2113X	4.69	46 - 36	W2113R107	46 - 32	W2113R104	–	–
	50	1.54	2.48	W2200X	4.54	50 - 41	W2200R110	50 - 36	W2200R107	–	–
	55	1.65	2.70	W2203X	4.64	55 - 46	W2203R113	55 - 41	W2203R110	55 - 36	W2203R107
	60	1.75	2.55	W2206X	4.72	60 - 50	W2206R200	60 - 46	W2206R113	60 - 41	W2206R110
	–	–	–	–	–	60 - 36	W2206R107	–	–	–	–
W4000X	36	1.46	2.40	W4107X	7.72	–	–	–	–	–	–
	41	1.46	2.40	W4110X	7.72	–	–	–	–	–	–
	46	1.56	2.52	W4113X	7.94	–	–	–	–	–	–
	50	1.63	2.63	W4200X	8.28	50 - 36	W4200R107	–	–	–	–
	55	1.73	2.89	W4203X	8.42	55 - 41	W4203R110	55 - 36	W4203R107	55 - 32	W4203R104
	60	1.83	2.78	W4206X	8.47	60 - 50	W4206R200	60 - 46	W4206R113	60 - 36	W4206R107
	65	1.95	3.00	W4209X	8.67	65 - 55	W4209R203	65 - 50	W4209R200	65 - 46	W4209R113
	70	2.07	3.08	W4212X	8.84	70 - 60	W4212R206	70 - 55	W4212R203	–	–
	75	2.18	3.21	W4215X	8.96	75 - 65	W4215R209	75 - 60	W4215R206	–	–
	–	–	–		–	75 - 55	W4215R203	75 - 50	W4215R200	–	–
	80	2.30	3.29	W4302X	9.16	80 - 75	W4302R215	80 - 70	W4302R212	80 - 65	W4302R209
	–	–	–		–	80 - 55	W4302R203	80 - 50	W4302R200		–
	85	2.44	3.37	W4085MX	9.48	–	–	–	–	–	–
W8000X	50	1.77	3.08	W8200X	17.75	–	–	–	–	–	–
	55	1.89	3.15	W8203X	17.22	–	–	–	–	–	–
	60	2.01	3.25	W8206X	17.59	–	–	–	–	–	–
	65	2.07	3.38	W8209X	17.29	65 - 50	W8209R200	–	–	–	–
	70	2.07	3.34	W8212X	17.12	70 - 55	W8212R203	–	–	–	–
	75	2.28	3.35	W8215X	17.11	75 - 60	W8215R206	75 - 55	W8215R203	–	–
	80	2.38	3.52	W8302X	17.33	80 - 65	W8302R209	80 - 60	W8302R206	80 - 55	W8302R203
	–	–	–	–	–	80 - 50	W8302R200		–	–	–
	85	2.60	3.63	W8085MX	18.42	85 - 70	W8085R070M	85 - 65	W8085R065M	85 - 60	W8085R060M
	–	–	–	–	–	85 - 55	W8085R055M	–	–	–	–
	90	2.91	4.05	W8090MX	20.46	90 - 75	W8090R075M	–	–	–	–
	95	2.91	4.05	W8312X	19.71	95 - 80	W8312R302	95 - 75	W8312R215	–	–
	100	3.13	4.33	W8315X	20.31	–	–	–	–	–	–
	105	3.13	4.33	W8402X	19.39	–	–	–	–	–	–

Metric Cassettes & Reducer Inserts

W Series, X-Edition

ENERPAC



Hexagon Range:
65-155 mm

Maximum Operating Pressure:
10,000 psi (690 bar)

W Series (X-Edition)



▼ **SELECTION CHART**

Drive Unit Model Number	Hexagon Size S (mm)	Nose Radius H (in)	Dim. G (in)	Model Number	Weight (lbs)	Hexagon Reducer (mm)	Model Number	Hexagon Reducer (mm)	Model Number
W15000X	65	2.32	3.49	W15209X	30.72	–	–	–	–
	70	2.32	3.49	W15212X	30.72	–	–	–	–
	75	2.44	3.56	W15215X	30.08	–	–	–	–
	80	2.54	3.66	W15302X	30.34	80-65	W15302R209	–	–
	85	2.74	3.80	W15085MX	31.70	85-70	W15085R070M	–	
	90	2.95	4.01	W15090MX	33.32	90-75	W15090R075M	–	–
	95	2.95	4.01	W15312X	31.70	95-80	W15312R302	95 - 75	W15312R215
	100	3.17	4.06	W15315X	34.02	–	–	–	–
	105	3.17	4.06	W15402X	33.09	105-90	W15402R090M	–	–
	110	3.44	4.52	W15405X	35.61	110-95	W15110R095M	–	–
	115	3.44	4.52	W15115MX	34.48	115-100	W15115R100M	–	–
W22000X	75	2.64	4.02	W22215X	48.72	–	–	–	
	80	2.64	4.02	W22302X	47.78	80-60	W22302R206	80 - 55	W22302R203
	85	2.85	4.23	W22085MX	49.74	85-65	W22085MR209	85 - 60	W22085MR206
	90	3.07	4.45	W22090MX	51.72	90-70	W22090M212	90 - 60	W22090MR206
	95	3.07	4.45	W22312X	50.62	95-75	W22312R215	–	–
	100	3.35	4.72	W22315X	53.57	–	–	–	–
	105	3.35	4.72	W22402X	52.09	–	–	–	–
	110	3.54	4.92	W22404X	51.48	–	–	–	–
	115	3.54	4.92	W22115MX	52.88	–	–	–	–
	120	3.74	5.12	W22412X	54.54	–	–	–	–
	123	3.74	5.12	W22123MX	53.80	–	–	–	–
	130	3.94	5.31	W22502X	55.10	–	–	–	–
	135	3.94	5.31	W22506X	52.77	135 - 105	W22506R402	–	–
W35000X	80	3.02	5.08	W35302X	72.30	80-50	W35302R200	–	–
	85	3.02	5.08	W35085MX	33.10	–	–	–	
	90	3.23	5.33	W35090MX	34.30	90-60	W35090R206	–	–
	95	3.23	5.30	W35312X	72.50	–	–	–	–
	100	3.45	5.48	W35315X	70.80	–	–	–	–
	105	3.45	5.48	W35402X	73.90	–	–	–	–
	110	3.69	5.75	W35405X	76.90	110-85	W35405R085M	–	–
	115	3.69	5.75	W35115MX	77.10	–	–	–	–
	120	3.91	6.01	W35412X	78.50	120-95	W35412R312	–	–
	123	3.91	6.01	W35123MX	78.90	–	–	–	–
	130	4.09	6.30	W35502X	78.90	130-105	W35502R402	–	–
	135	4.09	6.30	W35506X	76.30	135-110	W35506R405	–	–
	140	4.31	6.43	W35508X	79.80	140-115	W35508R115M	–	–
	145	4.31	6.43	W35512X	76.90	145-120	W35512R412	–	–
	150	4.52	6.67	W35514X	80.90	–	–	–	–
	151	4.52	6.67	W35151MX	82.10	–	–	–	–
	155	4.52	6.67	W35602X	77.80	155-130	W35602R502	–	–

Ultra Slim Stepped-Width Cassettes
W-Series

ENERPAC

▼ Shown: **W4206SL stepped-width cassette with W4000X drive unit**



Versatility
- **Lean, stepped width design allows tool to be mounted over bolts where other tools won't fit**
- **Bi-Hexagonal cassette allows twice as many positioning points on nut or bolt**
- **Uses same drive unit as standard W-series hexagon cassettes**
- **Robust top mounted handle stays out of the way, providing safe fastening in hard to reach areas**

Performance
- **Premium components provide best-in-class endurance**

Ease of Use
- **Few moving parts are easily accessible for quick field maintenance**
- **Fast release drive unit enables rapid exchange of cassettes, no tools required and no pins to lose**
- **Uses same drive unit as standard and X-Edition cassettes**

Accuracy
- **Constant torque output provides accuracy of +/- 3% across the full stroke**

Your easy and long lasting solution to difficult access bolting applications



Designed for Tight Spots
Stepped width design provides easy access in confined areas. UltraSlim cassettes fit where standard solutions won't.

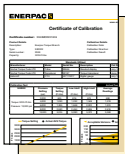


Built to Outperform
High endurance components keep working when others fail.



Top Mounted Handles
Standard top mounted handles provide safety and versatility; optional angled handles are also available.

Replacement handle (straight)	**SWH6S**
Angled handle (optional)	**SWH6A**



Calibration Certificate
All **UltraSlim Series** cassettes are CE - ATEX declared, factory calibrated and are shipped complete with a calibration certificate.

CE Ex II 2 GD ck T4
CSA/SIRA 15XT072

Ultra Slim Stepped-Width Cassettes

W-Series

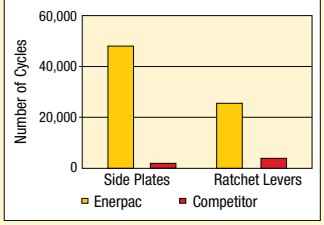
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UltraSlim Stepped-Width Cassettes

Accessing narrow spaces normally requires significantly reducing the width of the torque wrench. For the tool operator, this has always meant vastly reduced tool durability, and/or reduced torque output.

By using the highest grade materials, perfecting the geometry, and placing the positioning handle on top of the tool, Enerpac UltraSlim cassettes are able to provide greater torque, get into tighter spaces, and vastly outperform the competition in product durability.*

Durability of Key Components*



Average test results, whereby three Enerpac 1 13/16" UltraSlim cassettes and three competitor 1 13/16" cassettes were tested at 4000 ft-lbs for 50,000 cycles. The Enerpac sideplates never broke for the full duration of the test.

W Series Ultra-Slim



Nominal Torque at 10,000 psi:
4360 Ft.lbs.

Hexagon Range:
1 13/16 -2 15/16 inches

Maximum Operating Pressure:
10,000 psi



Torque Wrench Pumps

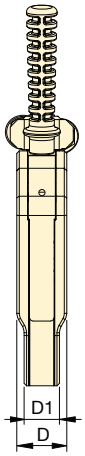
Visit enerpac.com for system matched air and electric torque wrench pumps that are ideal for use with hydraulic torque wrenches.

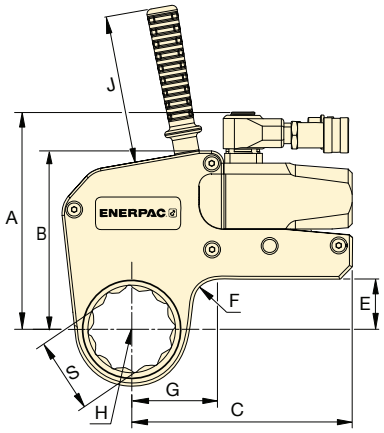


Torque Wrench Hoses

Use Enerpac THQ-700 Series hoses with W-Series torque wrenches to ensure the integrity of your hydraulic system.

19.5 feet long, 2 hoses	**THQ-706T**
39 feet long, 2 hoses	**THQ-712T**





▼ **SELECTION CHART**

Hexagon Size S (in)	Nominal Torque @ 10,000 psi (Ft.lbs)	Cassette Model Number	Minimum Torque @ 1000 psi (Ft.lbs)	Nose Radius H (in)	Dimensions (in) G	A	B	C	D	D1	E	F (radius)	J	Weight (lbs)	Drive Unit Model* (sold separately)
1 13/16	1980	**W2113SL**	200	1.44	2.35	5.54	4.30	5.81	1.28	1.00	0.94	0.79	4.72	4.87	**W2000X**
2 3/16	1980	**W2203SL**	200	1.63	2.49									4.87	
2 3/8	1980	**W2206SL**	200	1.75	2.56									4.88	
2 3/16	4360	**W4203SL**	430	1.73	2.70	6.91	5.69	7.03	1.59	1.13	1.61	0.79	4.72	10.15	**W4000X**
2 3/8	4360	**W4206SL**	430	1.89	2.82									10.36	
2 9/16	4360	**W4209SL**	430	1.99	2.92									10.37	
2 3/4	4360	**W4212SL**	430	2.11	2.98									10.42	
2 15/16	4360	**W4215SL**	430	2.20	2.99									10.37	

* May also be used with **W2000PX** and **W4000PX** drive units, featuring double-swivel manifolds.

Torque Wrench Pumps

Battery Pump

ENERPAC

▼ Shown: **XC1502TB**



- **Ideal for maintenance bolting applications requiring portability and convenience**
- **Interactive pendant provides visual and vibratory feedback of pump operation**
- **Superior run-time with 5Ah, 28V battery**
- **20-foot detachable pendant control**
- **4-inch glycerin-filled gauge for easy viewing**
- **Bladder reservoir allows pump to be used in any position**
- **High-strength fiberglass reinforced composite housing provides superior durability in demanding job site environments**
- **Integrated handle and carrying strap for portability**

Portable Battery Pump for Torque Applications



28-Volt Battery

The XC28V5 with Lithium-Ion technology for maximum battery performance.



Battery Charger

1-hour quick charger.

XC115VC	115 VAC
XC230VC	230 VAC



Roll Cage

Roll cage accessory option for both XC-TW and XC pump. Please order model No. XCRCTK.



Torque Wrenches

The following wrenches are ideal for use with the XC Cordless Torque Wrench Pump:

S-Series	W-Series
S1500X	W2000X
S3000X	W4000X

Larger wrenches will work with the pump, battery run time and application speed will be impacted.

Torque Wrench Pumps

Battery Pump

ENERPAC

The XC-Series Cordless Torque Wrench pump is ideal for maintenance applications in the PowerGen, Oil & Gas and MRO markets. This portable pump is perfect for remote locations, sites that do not have access to power or where trip hazards are a concern.

The interactive pendant allows the user to set and clear pressure and operate in manual or auto-cycle mode.

The pump has an easily accessible user adjustable valve for precise pressure control.

Fasteners Torqued On One Charge

Torque Wrench	Nut AF	Stud	PSI	Ft. Lbs.	Fasteners Torqued
S3000	2⅜"	1½"	4800	1500	32
W2000	2⅜"	1½"	5000	1000	52

XC Series

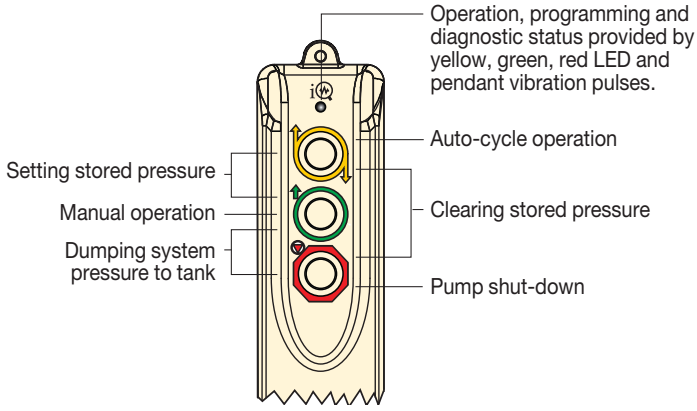


Useable Oil Capacity:
120 in³

Flow at Rated Pressure:
15 in³/min.

Motor Size:
.5 hp

Maximum Operating Pressure:
10,000 psi

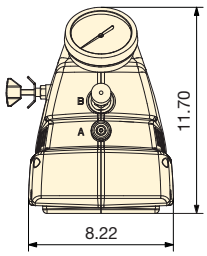


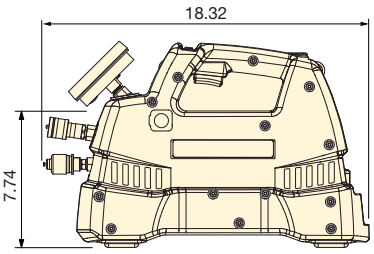


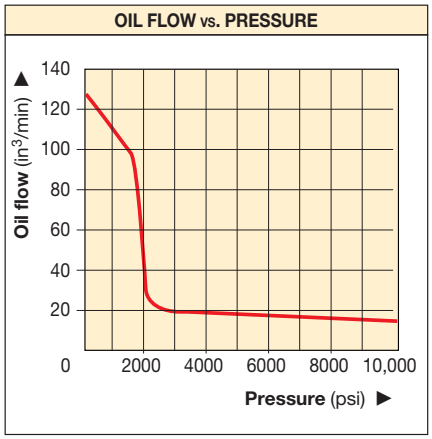
Twin Torque Wrench Hoses

Use Enerpac THQ700 series twin hoses with 10,000 psi pumps.

19.5 feet long, 2 hoses	THQ706T
39 feet long, 2 hoses	THQ712T







Pump Type	Useable Oil Capacity (in³)	Model Number	Output Flow Rate (in³/min) No Load	Output Flow Rate (in³/min) 2000 psi	Output Flow Rate (in³/min) 10,000 psi	Included with Pump	Weight (includes oil, no battery*) (lbs)
Cordless Pump Kit	120	XC1502TB	125	30	15	2 batteries and 115V charger	26.6
Cordless Pump Kit	120	XC1502TE	125	30	15	2 batteries and 230V charger	26.6
Cordless Pump	120	XC1502T	125	30	15	No batteries or charger	26.6

* Battery weight: 2.4 lbs

Torque Wrench Pumps
Electric, ZU4 Series

ENERPAC

▼ Shown: **ZU4204TB-Q and ZU4204BB-Q**



- **Features *Z-Class* high-efficiency pump design; higher oil flow and bypass pressure, cooler running and requires 18% less current draw than comparable pumps**
- **Powerful 1.7 hp universal electric motor provides high power-to-weight ratio and excellent low-voltage operating characteristics**
- **High-strength, molded composite shroud protects motor and electrical components, while providing an ergonomic, non-conductive handle for easy transport**
- **Low-voltage pendant provides additional safety for the operator**
- **Valve technology reduces oil operating temperatures and withstands contaminants to increase pump reliability**

Pro-Series

- **LCD readout provides pressure and torque display and a number of diagnostic and readout capabilities never before offered on a portable electric pump**
- **Auto cycle feature provides continuous cycle operation of the torque wrench as long as the advance button is pressed. (Pump can be used with or without auto cycle feature)**

▼ **COMMON PUMP MODELS**

	For Use With Torque Wrenches	Model Number [1) 4)]	Motor Electrical Specification	Usable Oil Capacity (gal)	Weight with Oil (lbs)
Pro Series	All wrenches	**ZU4204TB-Q**	115 V-1 ph	1.0	70
		ZU4208TB-Q	115 V-1 ph	1.75	76
		ZU4204TE-Q[2)]	208-240 V-1 ph	1.0	70
		ZU4208TE-Q[2)]	208-240 V-1 ph	1.75	76
		ZU4204TI-Q[3)]	208-240 V-1 ph	1.0	70
		ZU4208TI-Q[3)]	208-240 V-1 ph	1.75	76
Classic	All wrenches	**ZU4204BB-QH**	115 V-1 ph	1.0	82
		ZU4204BB-Q	115 V-1 ph	1.0	73
		ZU4208BE-QH[2)]	208-240 V-1 ph	1.75	83
		ZU4204BE-Q[2)]	208-240 V-1 ph	1.0	74
		ZU4208BI-QH[3)]	208-240 V-1 ph	1.75	88
		ZU4208BI-Q[3)]	208-240 V-1 ph	1.75	79

1) All models meet CE safety requirements and all TÜV requirements
2) European plug and CE EMC directive compliant
3) With NEMA 6-15 plug
4) Replace the Q- suffix with an -E suffix for Enerpac SQD and HXD 11,600 psi torque wrench pumps

ZU4T Series



Reservoir Capacity:
1 and 1.75 gal.

Flow at 10,000 psi:
60 in³/min.

Motor Size:
1.7 hp

Maximum Operating Pressure:
10,000 psi



Classic Electrical

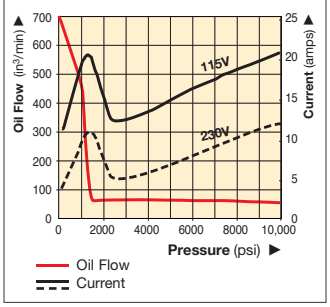
Basic electrical package includes mechanical contactor, ON/OFF toggle switch, pendant with electro-mechanical pushbuttons, 24V transformer timer and operator accessible circuit breaker.



Back-lit LCD Display for Pro Series

- Digital pressure or torque read-out
- Programmable "Auto-Cycle" setting
- "Auto-Cycle" setting easily programmable
- Torque wrench model is selectable
- Display torque in Nm or Ft.lbs
- Pump usage information, hour and cycle counts
- Low-voltage warning and recording
- Self-test and diagnostic capabilities
- Information can be displayed in English, French, German, Italian, Spanish and Portuguese
- Pressure transducer is more accurate and durable than analog gauges

OIL FLOW AND CURRENT vs PRESSURE



Torque Wrench Pumps

Ordering Matrix & Specifications, ZU4T

ENERPAC

▼ **This is how a ZU4 Series pump model number is built up:**

Z	U	4	2	08	T	E	-	Q	H	M
1 Product Type	2 Motor Type	3 Flow Group	4 Valve Type	5 Reservoir Size	6 Valve Operation	7 Voltage		8 Must be E or Q	8 Options	8 Options

1 Product Type

Z = Pump series

2 Motor Type

U = Universal electric motor

3 Flow Group

4 = 60 in^3/min @ 10,000 psi

4 Valve Type

2 = Torque wrench valve

5 Reservoir Size (useable capacity)

04 = 1.0 gallon
08 = 1.75 gallons

6 Valve Operation

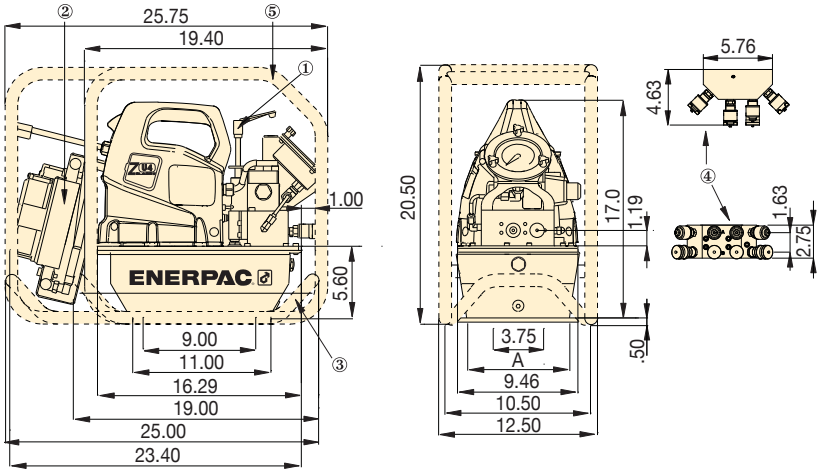
T = Solenoid valve with pendant, LCD Electric and pressure transducer.
B = Solenoid valve with pendant, classic electrical

7 Voltage

B = 115V, 1 ph, 50/60 Hz
E = 208-240V, 1 ph, 50/60 Hz (with European plug CE RF compliant)
I = 208-240V, 1 ph, 50/60 Hz (with NEMA 6-15 plug)

8 Factory installed features and options

E = 11,600 coupler for use with HXD-, SQD-Series or other wrenches
Q = 10,000 coupler for use with S- and W-Series or other wrenches
H = Heat exchanger
K = Skidbar
M = 4-wrench manifold
R = Roll cage



ZU4-Series Torque Wrench Pumps

Reservoir Size (useable gallons)	A (in)
1	6.0
1.75	8.1

Dimensions shown in inches
① User adjustable relief valve
② Heat exchanger (optional)
③ Skidbar (optional)
④ 4-wrench manifold (optional)
⑤ Roll cage (optional)

Torque Wrench Pumps
Electric, TQ-700 Series

ENERPAC

▼ Shown: **TQ-700E**



- **Optimized flow technology three stage pump maximizes productivity of the pump and tool while minimizing heat build-up and downtime**
- **Heat exchanger is standard**
- **A quiet (<85 dBA), lightweight pump with a compact footprint — easy to move around**
- **Durable roll cage with an ergonomically sized handle and shielded gauge**
- **Maintenance made simple with a brushless motor designed for continuous usage**
- **Straightforward operation with a simple pressure set and convenient to use 20 ft. pendant cord**
- **IP55 Rating for superior dust and water protection**
- **Transparent gauge overlays in Ft.lbs and Nm for all Enerpac S and W-Series torque wrenches provide a quick torque reference**

Lightweight Torque Wrench Pump



Optimized for S-Series and W-series Hydraulic Torque Wrenches

Enerpac offers a complete range of square drive and hexagon cassette torque wrenches.



Pendant Control

The **TQ-700** comes equipped with a 20-foot pendant cord which allows the user to pressurize the pump from a distance increasing productivity and speed of setup.



Four Port Manifold

The **TQ-700** Classic offers an optional four wrench manifold as an accessory (TQM) factory installed. (Add suffix "M" at the end of the model number. For example: **TQ700EM)**



Twin Torque Wrench Hoses

Use Enerpac **THQ-700** series twin hoses with 10,000 psi pumps.

10,000 psi	
19.5 feet long, 2 hoses	**THQ-706T**
39 feet long, 2 hoses	**THQ-712T**

Torque Wrench Pumps
Electric, TQ-700 Series

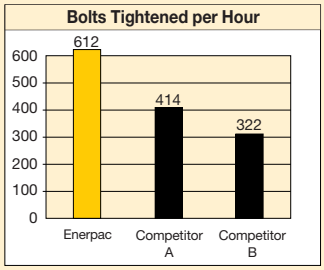
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TQ-700 Series Pump Applications

The **TQ-700 Series** pump is ideal for powering hydraulic wrenches for the Power Generation and Wind Markets.

The **TQ-700** has been engineered with **Optimized Flow Technology** to deliver up to 50% faster bolt tightening than competing pumps.

Bolting speed is more complex than how much flow per minute the pump produces. The key is optimizing the flow rate across the entire bolting cycle. With more oil flowing at the right time and at the right volume, you achieve the optimized flow for a hydraulic bolting system. The result of this optimized flow is more bolts tightened faster and a more productive work team.



Internal laboratory testing based on standard torquing procedure on a pipe flange with 14, 1⅞" bolts.

TQ Series



Reservoir Capacity:
1 gallon

Maximum Operating Pressure:
10,000 psi

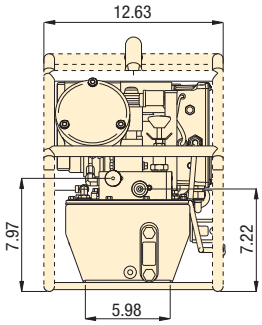


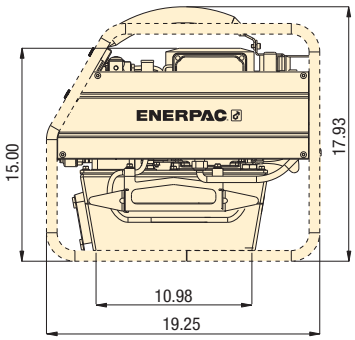
FS-Series Spreaders
FS-Series Flange Spreaders provide quick and easy joint separation using hydraulic or mechanical force.



Nut Splitters / Nut Cutters
Remove rusted or corroded nuts easily with Enerpac Nut Cutters. Hexagon nut capacities up to 5.38 inches AF.

Dimensions shown in inches.





Performance	For Use with Torque Wrenches		Pressure Rating (psi)	Model Number[1]	Motor Electrical Specification	Usable Oil Capacity (gal)	Weight (no oil) (lbs)
Optimal	S1500X S3000X S6000X	W2000X W4000X W8000X	10,000	TQ-700B	115V-1 ph, 50 / 60 Hz	1	68
				TQ-700E[2]	230V-1 ph, 50 Hz		66
Acceptable	S11000X S25000X	W15000X W22000X W35000X		TQ-700I[3]	230V-1 ph, 60 Hz		66

1) All models meet CE safety requirements and all TÜV requirements
2) European plug and CE EMC directive compliant
3) With NEMA 6-15 plug

IP55 Rating for Superior Dust and Water Protection

The IP Code (or Ingress Protection Rating) classifies and rates the degrees of protection provided against the intrusion of solid objects and water in mechanical casings and electrical enclosures.

An IP55 rating means the TQ-700 offers complete protection against contact with mechanical and electrical components, and that dust will not enter in a sufficient quantity to interfere with the operation of the equipment.

The IP55 rating also means water jets sprayed against the TQ-700 from any direction will not have any harmful effects.

Hydraulic Nut Cutters
NC-Series

ENERPAC

▼ Shown from left to right: **NC-3241, NC-1319, NC-1924**



- **Compact and ergonomic design, easy to use**
- **Unique angled head allows flush access**
- **Single-acting, spring return cylinder**
- **Heavy-duty chisels can be reground**
- **Applications include servicing trucks, piping industry, tank cleaning, petrochemical, steel construction and mining**

NC, STN Series

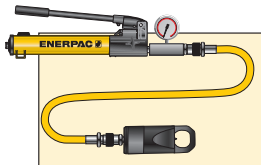
Capacity:
5-90 tons

Hexagon Nut Range:
0.5-2.88 inches

Maximum Operating Pressure:
10,000 psi

Enerpac Nut Cutters

Nut Cutters include a spare chisel, a spare set screw and the wrench used to secure the chisel. A CR-400 coupler is standard.



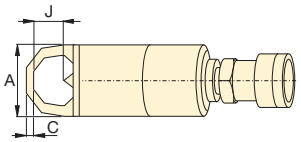
Nut Cutter Sets

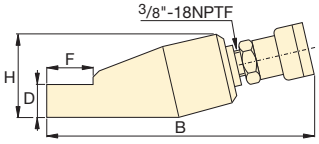
Hydraulic Nut Cutters are available as sets (pump, tool, gauge, adaptor and hose).

Set Model Number	Splitter Model Number	Pump Model Number
STN-1924H	NC-1924	P-392
STN-2432H	NC-2432	P-392
STN-3241H	NC-3241	P-392



◀ *Easily removing rusty nuts during railroad construction is just one of many application examples for the Enerpac Nut Cutters.*





Hexagon Nut Range (in)	Bolt Range (in)	Capacity (ton)	Oil Capacity (in^3)	Model Number	Dimensions (in)							Weight (lbs)	Replacement Chisel Model Number
					A	B	C	D	F	H	J		
.50-.75	.31-.50	5	.92	**NC-1319**	1.57	7.87	.24	.75	1.10	1.89	.83	1.8	**NCB-1319**
.75-.94	.50-.63	10	1.22	**NC-1924***	2.17	8.94	.32	.98	1.50	2.80	1.00	4.4	**NCB-1924**
.94-1.13	.63-.88	15	3.66	**NC-2432***	2.60	10.24	.39	1.22	1.93	2.99	1.30	6.6	**NCB-2432**
1.13-1.56	.88-1.13	20	4.88	**NC-3241***	2.95	11.26	.59	1.38	2.60	3.50	1.69	9.7	**NCB-3241**
1.56-2.00	1.13-1.38	35	9.46	**NC-4150**	3.78	12.80	.83	1.77	2.87	4.29	2.13	18.0	**NCB-4150**
2.00-2.25	1.38-1.50	50	14.64	**NC-5060**	4.17	14.41	1.06	2.13	3.63	4.96	2.38	26.0	**NCB-5060**
2.38-2.88	1.50-1.88	90	30.00	**NC-6075**	6.14	14.43	1.06	2.95	4.33	7.09	3.07	75.1	**NCB-6075**

Ordering Notes: Maximum allowable hardness to split is HRc-44. Not to be used on square nuts. Larger sizes available upon request.
* Available as Tool-Pump set, see note on this page.

Hydraulic Nut Splitters
NS-Series

ENERPAC

▼ Shown: **NS-7080, NS-70105**



Capacity:
103.2-192.5 tons

Hexagon Nut Range:
2.75-5.38 inches

Maximum Operating Pressure:
10,000 psi

- **Specially designed to suit standard ANSI B16.5 / BS1560 flanges**
- **Single-acting, spring return cylinder**
- **Tri-blade technology provides three cutting surfaces on a single blade**
- **Interchangeable heads provide maximum nut range flexibility**
- **Preset scale allows controlled blade extension, which avoids damage to bolt threads**
- **Grip tape and handle included for more secure maneuverability**
- **Nickel-plated cylinder body for excellent corrosion protection and improved durability in harsh environments**
- **Internal Pressure Relief Valve for overload protection**

SET SELECTION:

1. Select your Nut Splitter
2. Select your pump type

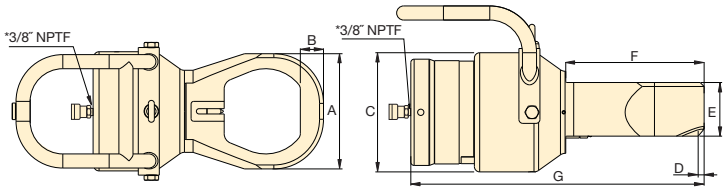
Set Model Number	1 Nut Splitter Model Number	2 Pump Options			Accessories Included			
		Hand Pump Model No.	Air Pump Model No.	Electric Pump Model No.	Gauge Adaptor Model No.	Gauge Model No.	Hose Model No.	Storage Case Model No.
								
NS-70105SH	NS-70105	P392	–	–	GA-2	GP-10S	HC-7206	CM-4
NS-70105SA	NS-70105	–	XA-11G*	–	–	integrated*	HC-7206	CM-4
NS-70105SE	NS-70105	–	–	PUD-1100B	GA-2	GP-10S	HC-7206	CM-7
NS-110130SH	NS-110130	P802	–	–	GA-2	GP-10S	HC-7206	CM-4
NS-110130SA	NS-110130	–	XA-11G*	–	–	integrated*	HC-7206	CM-4
NS-110130SE	NS-110130	–	–	PUD-1100B	GA-2	GP-10S	HC-7206	CM-7

*XA-11G air pump features an integrated pressure gauge.

Nut Splitter Sets

To provide maximum flexibility, NS-Series Nut Splitters can also be ordered in sets (NS-xxxSy). Select Nut Splitter size and pump style from the chart below.

To order additional Cutting Heads (NSH-xxxxxx), Cylinders (NSC-xxx) or Replacement Blades (NSB-xxx), see Selection Chart below.



▼ **SELECTION CHART**

Hexagon Nut Range** (in)	Bolt Range (in)	Cap. (ton)	Oil Cap. (in^3)	Model Number* 	Dimensions (in) A	B	C	D	E	F	G	Weight (lbs)	NS Cylinder 	NS Cutting Head 	Replacement Blade 
2.75-3.13	1.75-2.00	103.2	23.0	**NS-7080**	5.2	1.1	7.1	0.3	3.2	7.3	16.2	81.4	NSC-70	NSH-7080	NSB-70
2.75-3.50	1.75-2.25	103.2	23.0	**NS-7085**	5.7	1.2	7.1	0.3	3.2	7.7	16.6	82.7	NSC-70	NSH-7085	NSB-70
2.75-3.88	1.75-2.50	103.2	23.0	**NS-7095**	6.3	1.3	7.1	0.3	3.2	7.9	17	84.9	NSC-70	NSH-7095	NSB-70
2.75-4.25	1.75-2.75	103.2	23.0	**NS-70105**	6.9	1.4	7.1	0.4	3.2	8.2	17.5	87.1	NSC-70	NSH-70105	NSB-70
4.25-4.63	2.75-3.00	192.5	50.0	**NS-110115**	7.4	1.4	9.2	0.1	4.4	9.2	18.6	151.6	NSC-110	NSH-110115	NSB-110
4.25-5.38	2.75-3.50	192.5	50.0	**NS-110130**	8.6	1.6	9.2	0.1	4.4	9.5	19.4	158.3	NSC-110	NSH-110130	NSB-110

* NS-Series Nut Splitters ship in two cases: One containing the NSC Cylinder and one containing the NSH Cutting Head. Assembly required.
** Maximum allowable hardness to split is HRc-44.

Manual Torque Multipliers
E-Series

ENERPAC

▼ Shown from left to right: **E291, E393, E494**



- **High-efficiency planetary gear sets achieve high output torque from low input torque**
- **Most models operator protected by anti-backlash device**
- **Multiplier output accuracy ± 5% of input torque**
- **Reversible, tighten or loosen bolts**
- **Reaction bar or reaction plate type**
- **Angle-of-turn protractor standard on E300 series models**
- **Reaction plate models offer increased versatility with reaction point locations**
- **E300 and E400 series replaceable shear drives provide overload protection of internal power train (one replacement shear drive is included)**

Accurate, Efficient Torque Multiplication

When accurate make-up or break-out of stubborn fasteners requires high torque

Typical Torque Multiplier Applications

- Locomotives
- Power plants
- Pulp and paper mills
- Refineries
- Chemical plants
- Mining and construction
- Off-road equipment
- Shipyards
- Cranes

▼ **SELECTION CHART**

Torque Multiplier Type	Output Torque Capacity (Ft.lbs)	Output Torque Capacity (Nm)	Model Number
Reaction Bar Multiplier	750	1015	E290PLUS
	1000	1355	E291
	1200	1625	E391
	2200	2980	E392
	3200	4340	E393
Reaction Plate Multiplier	2200	2980	E492
	3200	4340	E493
	5000	6780	E494
	8000	10845	E495

Manual Torque Multipliers
E-Series

ENERPAC

Manual Torque Multipliers

Enerpac manual torque multipliers provide efficient torque multiplication in wide clearance applications and when external power sources are not available.
Manual torque multipliers are used in most industrial, construction, and equipment maintenance applications. Hydraulic torque wrenches are better suited for tight tolerance, flange and repetitious bolting applications.

Use Reaction Bar Models:
- where space is limited
- where multiple reaction points are available
- when portability is desirable

Use Reaction Plate Models:
- above 3200 Ft-lbs. output torque
- on flanges and applications where neighboring bolt or nut is available to react against
- when extreme reaction forces are generated

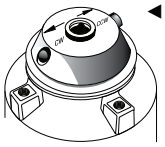
E Series



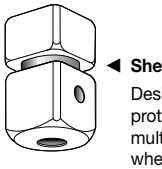
Nominal Output Torque:
750-8000 Ft.lbs

Torque Ratio:
3:1-52:1

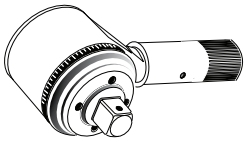
Multiplier Output Ratio Accuracy:
± 5 %



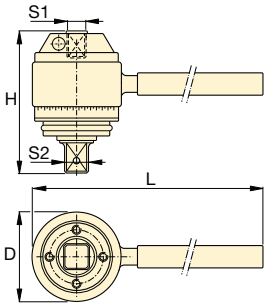
◀ **Selector Pawl**
Models with anti-backlash protection have directional selector pawls. Set the pawl for clockwise or counter-clockwise rotation.



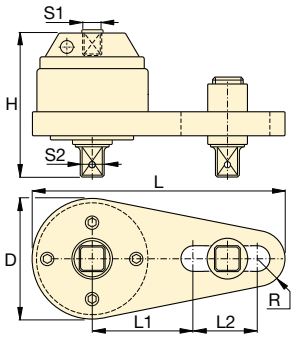
◀ **Shearable Square Drive**
Designed to provide overload protection on E300- and E400-series multiplier power train by shearing when excess input torque is applied. Internal shear pin prevents tool from falling off bolt.



▲ **Angle-of-Turn Protractor**
E391, E392 and E393 models include an angle-of-turn protractor (scale) to tighten fasteners using a "torque turn" method. Allows accurate measuring a specific number of degrees of rotation.



Reaction Bar Type [1]



Reaction Plate Type [1]

CAUTION!
Never use impact type air tools for power driving torque multipliers. Torque multiplier drive train damage will occur.



Hydraulic Torque Wrenches
Enerpac offers a complete range of square drive and hexagon cassette torque wrenches.



BSH-Series Sockets
Heavy-Duty Impact Sockets for power driven torquing equipment.

Input Torque (Ft.lbs)	Input Torque (Nm)	Torque Ratio	Input Female Square Drive S1 (in)	Output Male Square Drive S2 (in)	Output Male Square Drive Replaceable Shear Drive Model No.	Over-load Protec-tion	Anti-Back-lash	Dimensions (in) D	H	L	L1	L2	R	Wt. (lbs)	Model Number
250	338	3 : 1	½	¾	–	No	No	2.8	3.3	8.6	–	–	–	4.0	**E290PLUS**
333	451	3 : 1	½	¾	–	No	No	2.8	3.3	17.4	–	–	–	5.5	**E291**
200	271	6 : 1	½	¾	E391SDK	Yes	No	3.9	4.0	19.6	–	–	–	13.8	**E391**
162	219	13.6 : 1	½	1	E392SDK	Yes	Yes	4.1	5.7	19.6	–	–	–	18.3	**E392**
173	234	18.5 : 1	½	1	E393SDK	Yes	Yes	4.1	6.5	19.6	–	–	–	15.2	**E393**
162	219	13.6 : 1	½	1	E392SDK	Yes	Yes	4.9	5.5	14.0	5.5	4.9	1.3	17.2	**E492**
173	234	18.5 : 1	½	1	E393SDK	Yes	Yes	4.9	6.4	14.0	5.5	4.9	1.3	23.4	**E493**
189	256	26.5 : 1	½	1½	E494SDK	Yes	Yes	5.6	8.7	14.9	7.0	3.5	1.7	34.0	**E494**
154	208	52 : 1	½	1½	E495SDK	Yes	Yes	5.8	10.7	15.2	7.0	3.5	1.9	50.3	**E495**

[1] E200 and E400-series do not have an Angle-of-Turn Protractor (scale).
User must verify manual torque wrench accuracy prior to use to ensure accurate final output torque.

Hydraulic Torque Wrench

Pressure vs Torque Conversion

ENERPAC



Convert Pressure into Torque

The function of a hydraulic Torque Wrench, is to convert hydraulic pressure into torque. This chart is a "quick-reference" to help in determining what this conversion factor is. If you do not find your torque and pressure values in the chart, then the following conversion formulas can be used to find your theoretical torque value. The actual value may vary due to wrench condition and age.

$T = P \times T_F$

$P = T / T_F$

Where: T = target torque

P = pressure

T_F = theoretical applied torque

Bolting Integrity Software

A comprehensive on-line software solution for Bolted Joint Integrity.

Integral databases hold data for:

- BS1560, MSS SP44, API 6A and 17D flanged joints
- Common gasket materials and configurations
- Comprehensive range of bolt materials
- Comprehensive range of lubricants
- Enerpac's Controlled Bolting Equipment including: Torque Multipliers, Hydraulic Wrenches and Bolt Tensioning tools

Custom Joint information can also be entered.

The software offers Tool selection, Bolt Load calculations and Tool pressure settings, as well as, a combined Application data sheet and Joint completion report.

▼ **S-Series (X-Edition)**

Pressure vs. Torque – S-Series Torque Wrench Imperial Table					
Pump Pressure	S1500X Torque Output (T_F 0.144)	S3000X Torque Output (T_F 0.3225)	S6000X Torque Output (T_F 0.615)	S11000X Torque Output (T_F 1.1175)	S25000X Torque Output (T_F 2.515)
(psi)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)
1000	144	323	615	1118	2515
1200	173	387	738	1341	3018
1400	202	452	861	1565	3521
1600	230	516	984	1788	4024
1800	259	581	1107	2012	4527
2000	288	645	1230	2235	5030
2200	317	710	1353	2459	5533
2400	346	774	1476	2682	6036
2600	374	839	1599	2906	6539
2800	403	903	1722	3129	7042
3000	432	968	1845	3353	7545
3200	461	1032	1968	3576	8048
3400	490	1097	2091	3800	8551
3600	518	1161	2214	4023	9054
3800	547	1226	2337	4247	9557
4000	576	1290	2460	4470	10,060
4200	605	1355	2583	4694	10,563
4400	634	1419	2706	4917	11,066
4600	662	1484	2829	5141	11,569
4800	691	1548	2952	5364	12,072
5000	720	1613	3075	5588	12,575
5200	749	1677	3198	5811	13,078
5400	778	1742	3321	6035	13,581
5600	806	1806	3444	6258	14,084
5800	835	1871	3567	6482	14,587
6000	864	1935	3690	6705	15,090
6200	893	2000	3813	6929	15,593
6400	922	2064	3936	7152	16,096
6600	950	2129	4059	7376	16,599
6800	979	2193	4182	7599	17,102
7000	1008	2258	4305	7823	17,605
7200	1037	2322	4428	8046	18,108
7400	1066	2387	4551	8270	18,611
7600	1094	2451	4674	8493	19,114
7800	1123	2516	4797	8717	19,617
8000	1152	2580	4920	8940	20,120
8200	1181	2645	5043	9164	20,623
8400	1210	2709	5166	9387	21,126
8600	1238	2774	5289	9611	21,629
8800	1267	2838	5412	9834	22,132
9000	1296	2903	5535	10,058	22,635
9200	1325	2967	5658	10,281	23,138
9400	1354	3032	5781	10,505	23,641
9600	1382	3096	5904	10,728	24,144
9800	1411	3161	6027	10,952	24,647
10,000	1440	3225	6150	11,175	26,150

Hydraulic Torque Wrench

Pressure vs Torque Conversion

ENERPAC

▼ W-Series (X-Edition)

Pressure vs. Torque – W-Series Torque Wrench Imperial Table

Pump Pressure	W2000X Torque Output	W4000X Torque Output	W8000X Torque Output	W15000X Torque Output	W22000X Torque Output	W35000X Torque Output
	(T_F 0.204)	(T_F 0.4175)	(T_F 0.847)	(T_F 1.533)	(T_F 2.25)	(T_F 3.50)
(psi)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)	(ft-lbs)
1000	204	418	847	1533	2250	3500
1200	245	501	1016	1840	2700	4200
1400	286	585	1186	2146	3150	4900
1600	326	668	1355	2453	3600	5600
1800	367	752	1525	2759	4050	6300
2000	408	835	1694	3066	4500	7000
2200	449	919	1863	3373	4950	7700
2400	490	1002	2033	3679	5400	8400
2600	530	1086	2202	3986	5850	9100
2800	571	1169	2372	4292	6300	9800
3000	612	1253	2541	4599	6750	10500
3200	653	1336	2710	4906	7200	11200
3400	694	1420	2880	5212	7650	11900
3600	734	1503	3049	5519	8100	12600
3800	775	1587	3219	5825	8550	13300
4000	816	1670	3388	6132	9000	14000
4200	857	1754	3557	6439	9450	14700
4400	898	1837	3727	6745	9900	15400
4600	938	1921	3896	7052	10350	16100
4800	979	2004	4066	7358	10800	16800
5000	1020	2088	4235	7665	11250	17500
5200	1061	2171	4404	7972	11700	18200
5400	1102	2255	4574	8278	12150	18900
5600	1142	2338	4743	8585	12600	19600
5800	1183	2422	4913	8891	13050	20300
6000	1224	2505	5082	9198	13500	21000
6200	1265	2589	5251	9505	13950	21700
6400	1306	2672	5421	9811	14400	22400
6600	1346	2756	5590	10118	14850	23100
6800	1387	2839	5760	10424	15300	23800
7000	1428	2923	5929	10731	15750	24500
7200	1469	3006	6098	11038	16200	25200
7400	1510	3090	6268	11344	16650	25900
7600	1550	3173	6437	11651	17100	26600
7800	1591	3257	6607	11957	17550	27300
8000	1632	3340	6776	12264	18000	28000
8200	1673	3424	6945	12571	18450	28700
8400	1714	3507	7115	12877	18900	29400
8600	1754	3591	7284	13184	19350	30100
8800	1795	3674	7454	13490	19800	30800
9000	1836	3758	7623	13797	20250	31500
9200	1877	3841	7792	14104	20700	32200
9400	1918	3925	7962	14410	21150	32900
9600	1958	4008	8131	14717	21600	33600
9800	1999	4092	8301	15023	22050	34300
10,000	2040	4175	8470	15330	22500	35000



Convert Pressure into Torque

The function of a hydraulic Torque Wrench, is to convert hydraulic pressure into torque. This chart is a "quick-reference" to help in determining what this conversion factor is. If you do not find your torque and pressure values in the chart, then the following conversion formulas can be used to find your theoretical torque value. The actual value may vary due to wrench condition and age.

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$P = T / T_F$

Where: T = target torque
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Bolting Tools
Safety Instructions

ENERPAC

THINK SAFETY

When used correctly, hydraulic power is one of the safest methods of applying force to your work. And to that end we offer some DO's and DON'Ts, simple common sense points which apply to practically all Enerpac hydraulic products.

- **Lift slowly and check the load often**
- **Avoid standing in the line of force**
- **Anticipate possible problems and take steps to avoid them.**

The line drawings and application photos of Enerpac products throughout this catalog are used to portray how some of our customers have used hydraulics in industry.

In designing similar systems, care must be taken to select the proper components that provide safe operation and fit your needs.

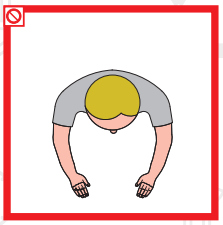
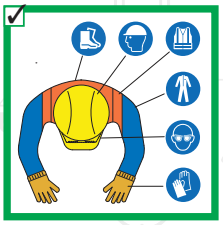
Check to see if all safety measures have been taken to avoid the risk of injury and property damage from your application or system.

Enerpac can not be held responsible for damage or injury, caused by unsafe use, maintenance or application of its products.

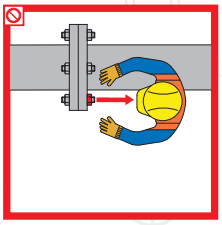
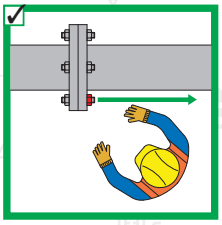
Please contact the Enerpac office or a representative for guidance when you are in doubt as to the proper safety precautions to be taken in designing and setting up your particular system.

In addition to these tips, every Enerpac product comes with instructions spelling out specific safety information. Please read them carefully.

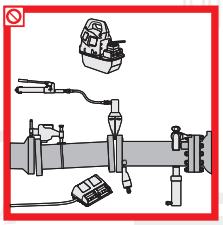
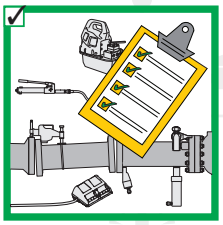
Bolting Tools

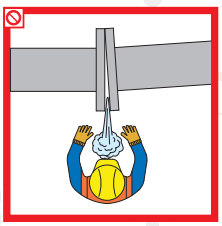
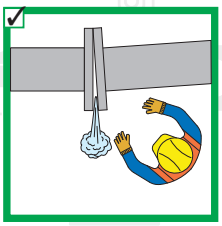
◀ **Always use the proper personal protection equipment (PPE).**

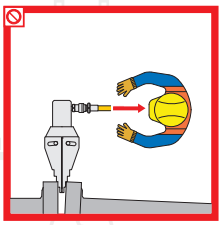
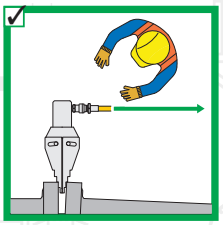
◀ **Never stand in-line with the bolt axis.**

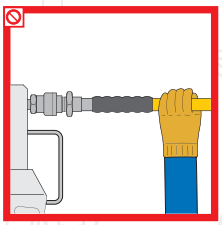
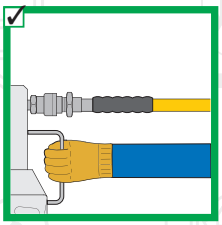
◀ **Always check your system set-up and follow the correct bolting procedures.**

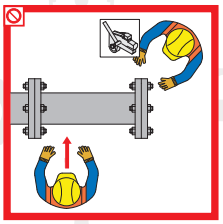
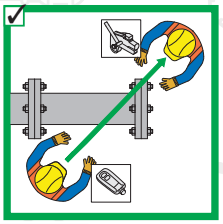
◀ **Never stand in-line with the flange or pipe opening.**

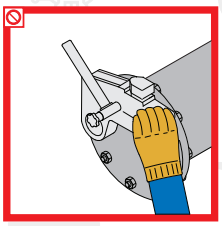
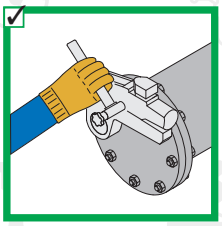
◀ **Never stand in-line with the pressure, couplers or hoses.**

◀ **Never hold pressurized hoses.**

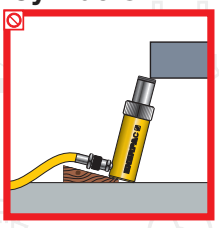
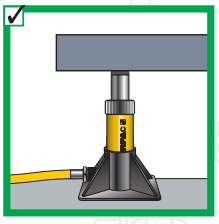



◀ **The torque wrench (or tool) operator is always in charge.**

◀ **Hold torque wrench (or tool) at handle only. Do not place any part of body between wrench and reaction point.**

Cylinders

◀ **Provide a solid support for the entire cylinder base area. Use cylinder base attachment for more stability.**




◀ **As with jacks, never place any part of your body under the load. Load must be on cribbing before venturing under.**

Rigging Section

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Synthetic Slings
Web Slings

MADE IN USA

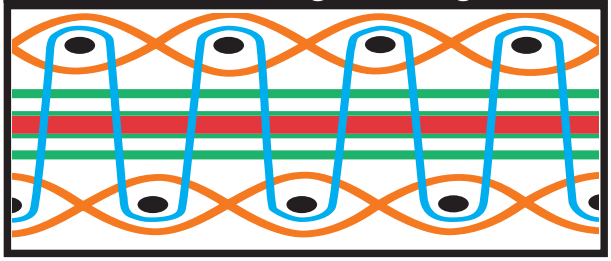
LiftAll
PRODUCTS FOR BETTER LIFTING

WHY *LIFT-ALL* WEB SLINGS?

***Lift-All* web slings meet or exceed OSHA, ASME B30.9 and WSTDA standards and regulations**

All sling webbing contained in this catalog is recommended for general purpose lifting. Sling webbing has surface yarns connected from side to side, which not only protect the core yarns, but position surface and tensile yarns to work together to support the load. Wear or damage to sling webbing face yarns cause an immediate strength loss. Sling webbing has red core yarns to visually reveal damage which is one indicator for sling rejection. Please read warning sheet provided with each sling for additional details.

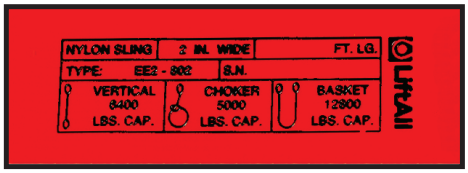
Lift-All Sling Webbing



- Transverse pick yarns inter-relate with binder/surface yarns.
- Woven surface yarns cover each side and carry a portion of the load.
- Strip of longitudinal core yarns bears majority of load.
- Binder yarns secure the surface yarns to web core yarns.
- Red core warning yarns.

Tuff-Tag™

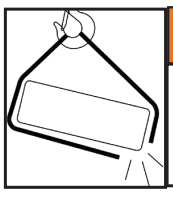
OSHA requires all web slings to show rated capacities and type of material. The *Lift-All Tuff-Tag* is made from an abrasion resistant polymer that will remain legible far longer than any leather or vinyl tag. In fact, *Tuff-Tags* will consistently outlast the useful life of slings.



Safety Bulletin

A safety bulletin is packaged with every web sling from *Lift-All.* The bulletin includes:

- Inspection and removal from service criteria.
- Environmental considerations.
- Inspection frequency.
- Effect of angles.
- Rigging configuration.
- Sling protection.
- Exposure of slings to edges.

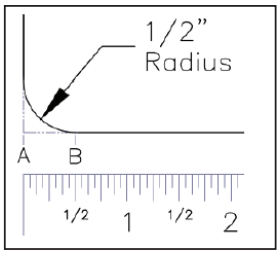


⚠ WARNING

Exposure of web slings to edges with a radius that is too small can cause sling failure and loss of load

Edges do not need to be sharp to cause failure of the sling. The table shows the minimum allowable edge radii suitable for contact with unprotected webbing slings. Chamfering or cutting off edges is not an acceptable substitute for fully rounding the edges to the minimum radius. Slings can also be damaged from contact with the edges or burrs at the sling connections.

Measure the edge radius. The radius is equal to the distance between points A and B.



Minimum edge radii suitable for contact with unprotected web slings.

Vertical Rated Capacity	Minimum Edge Radii (in.)	
1 Ply	.18	3/16
2 Plies	.50	1/2
3 Plies	.75	3/4
4 Plies	1.00	1

For further information on minimum edge radii, contact *Lift-All*.

Synthetic Slings
Web Slings

MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

WEBMASTER 1600 NYLON AND POLYESTER SLINGS
The Traditional Standard for Heavy Duty Slings

Webmaster 1600 is our most popular web due to strength and service life. This versatile workhorse can be designed in many configurations for a wide variety of lifting applications. Many industries appreciate the value versus strength capabilities of this product line, making it the go-to solution.

Features and Benefits

Promotes Safety

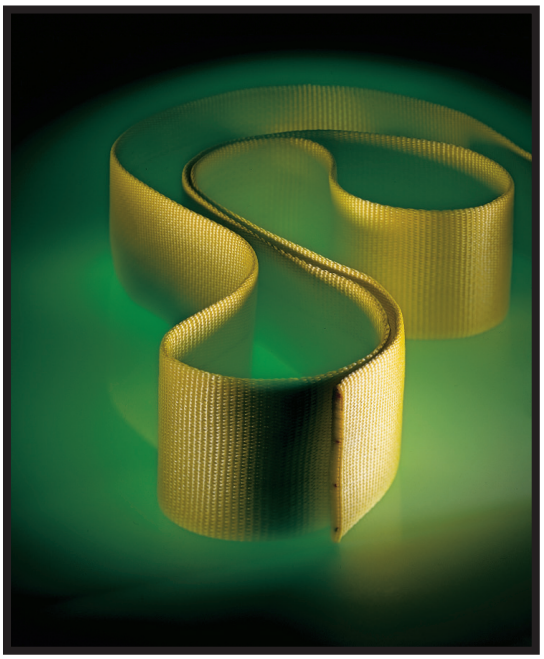
- Red core yarn warning system aids in the inspection process.
- *Tuff-Tag* provides serial numbered identification for traceability.
- Proven reliability.

Saves Money

- Yellow treatment for abrasion resistance and extended sling life.
- *Tuff-Tag* provides required OSHA information for the life of the sling.

Saves Time

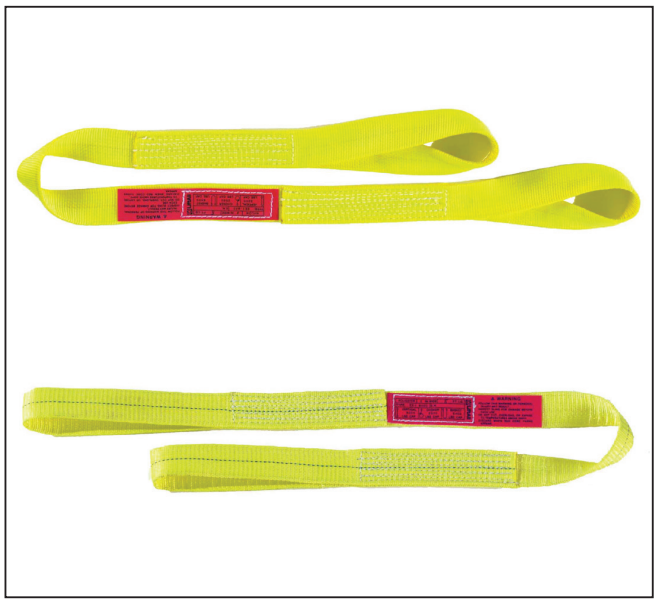
- Polyester web is identified by single blue surface stripe.



Always protect synthetic slings from being cut or damaged by corners, edges and protrusions using protection sufficient for each application.



Refer to Sling Protection section in this catalog.



For details on characteristics of nylon versus polyester webbing, see 'Environmental Considerations' in this section.

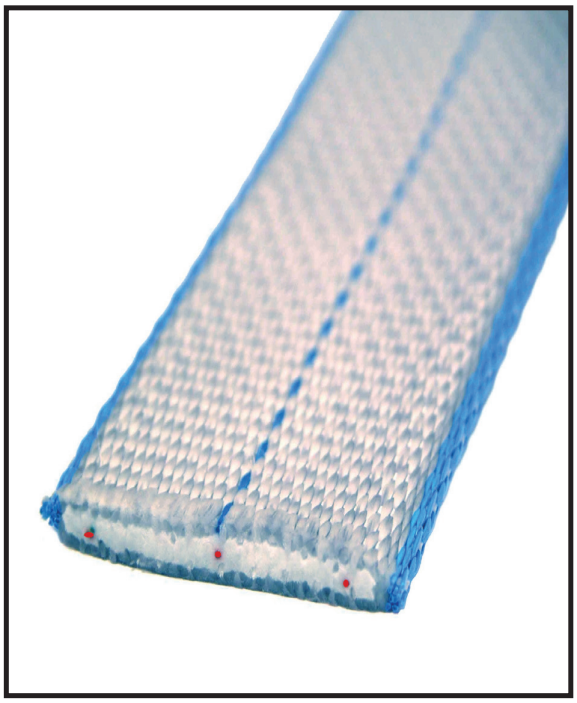
Synthetic Slings
Web Slings

MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

TUFF-EDGE II®

Tuff-Edge II Polyester Webbing



2X Stronger After Abrasion
2X Better Edge Cut Resistance

You can expect longer sling life and lower overall costs when you switch to ***Tuff-Edge II***. Resistance to abrasion and edge cutting is greatly improved over nylon and polyester webbing.

Using Federal Test Method 191A, ***Tuff-Edge II*** webbing was tested against standard yellow polyester webbing. After being subjected to the same number of hex bar abrasion cycles, the ***Tuff-Edge II*** treated webbing, achieved average break strengths that were twice that of the standard yellow webbing!

In a test developed to measure edge cutting properties, the cut depth on the ***Tuff-Edge II*** webbing with special polymer edge yarns cut less than half the depth of the standard yellow polyester.

Although you should **always** pad and protect synthetic slings from load edges, normal wear and tear will be greatly reduced when using ***Tuff-Edge II***, giving you longer sling life, reucing your overall costs.

Always protect synthetic slings from being cut or damaged by corners, edges and protrusions using protection sufficient for each application.



Refer to Sling Protection section in this catalog.

Features and Benefits

Promotes Safety

- Red Core yarn warning system aids in the inspection process.
- *Tuff-Tag* provides serial numbered identification for traceability.
- Special polymer coated edge yarns reduce edge cutting and abrasion.

Saves Money

- Web treatment fights abrasion for additional sling life.
- *Tuff-Tag* provides required OSHA information for the life of the sling.

Saves Time

- Easy identification; silver body, blue edges, and blue center stripe.

Synthetic Slings
Web Slings

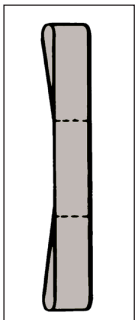
MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

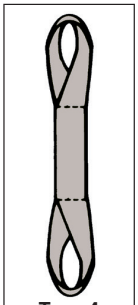
TUFF-EDGE AND *WEBMASTER* 1600 POLYESTER SLINGS

Eye and Eye Slings

	Tuff-Edge II Part No.**	Web Width (in.)	Rated Capacity* (lbs.)			*Webmaster* 1600 Part No.***
			Vertical	Choker	V. Basket	
One Ply	EE1801TF	1	1,600	1,280	3,200	EE1801DF
	EE1802TF	2	3,200	2,500	6,400	EE1802DF
	EE1803TF	3	4,800	3,800	9,600	EE1803DF
	EE1804TF	4	6,400	5,000	12,800	EE1804DF
	EE1806TF	6	9,600	7,700	19,200	EE1806DF
	EE1808TF	8	12,800	10,200	25,600	EE1808DF
	EE1810TF	10	16,000	12,800	32,000	EE1810DF
	EE1812TF	12	19,200	15,400	38,400	EE1812DF
Two Ply	EE2801TF	1	3,200	2,500	6,400	EE2801DF
	EE2802TF	2	6,400	5,000	12,800	EE2802DF
	EE2803TF	3	8,800	7,040	17,600	EE2803DF
	EE2804TF	4	11,500	9,200	23,000	EE2804DF
	EE2806TF	6	16,500	13,200	33,000	EE2806DF
	EE2808TF	8	19,200	15,400	38,400	EE2808DF
	EE2810TF	10	22,400	17,900	44,800	EE2810DF
	EE2812TF	12	26,900	21,500	53,800	EE2812DF
Three Ply	EE3801TF	1	4,100	3,300	8,200	EE3801DF
	EE3802TF	2	8,300	6,600	16,600	EE3802DF
	EE3803TF	3	12,500	10,000	25,000	EE3803DF
	EE3804TF	4	16,000	12,800	32,000	EE3804DF
	EE3806TF	6	23,000	18,400	46,000	EE3806DF
	EE3808TF	8	30,700	24,500	61,400	EE3808DF
	EE3810TF	10	36,800	29,400	73,600	EE3810DF
	EE3812TF	12	44,000	35,200	88,000	EE3812DF
Four Ply	EE4801TF	1	5,000	4,000	10,000	EE4801DF
	EE4802TF	2	10,000	8,000	20,000	EE4802DF
	EE4803TF	3	14,900	11,900	29,800	EE4803DF
	EE4804TF	4	19,800	15,800	39,600	EE4804DF
	EE4806TF	6	29,800	23,800	59,600	EE4806DF
	EE4808TF	8	39,700	31,700	79,400	EE4808DF
	EE4810TF	10	49,600	39,600	99,200	EE4810DF
	EE4812TF	12	59,500	47,600	119,000	EE4812DF



Type 3 Flat Eye (F)



Type 4 Twisted Eye (T)

** Replace the "F" with a "T" for Twisted Eyes.

*** Replace the "D" with an "N" to order nylon.

Eyes on Type 3 and Type 4 slings are tapered at 3" and wider, unless otherwise specified.

Eye Length - Applies to all Web Slings

Plies of Web	Sling Width (in.)							
	1	2	3	4	6	8	10	12
1	8.5	10	11	12	16	20	24	24
2	8.5	10	11	12	16	20	24	24
3	10.0	12	14	16	18	24	24	24
4	10.0	12	14	16	18	24	24	24

* **⚠ WARNING** Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the HELP section.

Synthetic Slings
Web Slings

MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

TUFF-EDGE AND *WEBMASTER* 1600 POLYESTER SLINGS

Endless

	Tuff-Edge II Part No.	Web Width (in.)	Rated Capacity* (lbs.)			*Webmaster* 1600 Part No.**
			Vertical	Choker	V. Basket	
One Ply	EN1801T	1	3,200	2,500	6,400	EN1801D
	EN1802T	2	6,400	5,000	12,800	EN1802D
	EN1803T	3	8,800	7,040	17,600	EN1803D
	EN1804T	4	11,500	9,200	23,000	EN1804D
	EN1806T	6	16,500	13,200	33,000	EN1806D
	EN1808T	8	19,200	15,400	38,400	EN1808D
	EN1810T	10	22,400	17,900	44,800	EN1810D
	EN1812T	12	26,900	21,500	53,800	EN1812D
Two Ply	EN2801T	1	6,200	4,900	12,400	EN2801D
	EN2802T	2	12,400	9,900	24,800	EN2802D
	EN2803T	3	16,300	13,000	32,600	EN2803D
	EN2804T	4	20,700	16,500	41,400	EN2804D
	EN2806T	6	28,600	23,000	57,200	EN2806D
	EN2808T	8	30,700	24,500	61,400	EN2808D
	EN2810T	10	33,600	26,800	67,200	EN2810D
	EN2812T	12	37,600	30,000	75,200	EN2812D
Three Ply	EN3801T	1	8,000	6,400	16,000	EN3801D
	EN3802T	2	16,000	12,800	32,000	EN3802D
	EN3803T	3	21,500	17,200	43,000	EN3803D
	EN3804T	4	28,700	23,000	57,400	EN3804D
	EN3806T	6	40,700	32,500	81,400	EN3806D
	EN3808T	8	46,000	36,800	92,000	EN3808D
	EN3810T	10	51,500	41,200	103,000	EN3810D
	EN3812T	12	59,200	47,300	118,400	EN3812D
Four Ply	EN4801T	1	10,000	8,000	20,000	EN4801D
	EN4802T	2	19,800	15,800	39,600	EN4802D
	EN4803T	3	26,700	21,300	53,400	EN4803D
	EN4804T	4	35,600	28,400	71,200	EN4804D
	EN4806T	6	50,500	40,400	101,000	EN4806D
	EN4808T	8	57,600	46,000	115,200	EN4808D
	EN4810T	10	67,200	53,700	134,400	EN4810D
	EN4812T	12	80,700	64,500	161,400	EN4812D

** Replace the "D" with an "N" to order nylon.
Note: Type 5 (Endless) slings are not tapered unless specified.

Tuflex is an Alternative …

For 3-Ply and 4-Ply slings wider than 6", _Tuflex Roundslings_ should be seriously considered.

Tuflex offers increased flexibility, ease of use and lower cost.

* **⚠ WARNING** Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart in HELP section.

Synthetic Slings
Web Slings

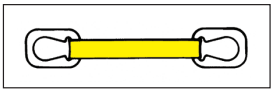
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LiftAll
PRODUCTS FOR BETTER LIFTING

TUFF-EDGE AND *WEBMASTER* 1600 POLYESTER SLINGS

Type U *Unilink* Hardware Slings

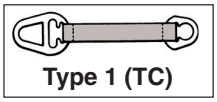


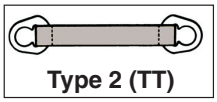


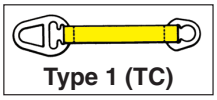
	Tuff-Edge II Part Number+	Web Width (in.)	Rated Capacity* (lbs.)			*Webmaster* 1600 Part Number****+
			Vertical	Choker	V. Basket	
One Ply	UU1802T UU1803T UU1804T	2 3 4	3,200 4,800 6,400	2,500 3,800 5,000	6,400 9,600 12,800	UU1802D UU1803D UU1804D
Two Ply	UU2802T UU2803T UU2804T	2 3 4	6,400 8,800 11,500	5,000 7,040 9,200	12,800 17,600 23,000	UU2802D UU2803D UU2804D

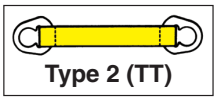
+Replace the UU with TT or TC in part number above if Type 1 or Type 2 is required.

Type 1 (TC) and Type 2 (TT) *Web-Trap* Hardware Slings


Type 1 (TC)


Type 2 (TT)


Type 1 (TC)


Type 2 (TT)

	Tuff-Edge II Part Number		Web Width (in.)	Rated Capacity* (lbs.)			*Webmaster* 1600 Part Number***	
	Type 1	Type 2**		Vertical	Choker	V. Basket	Type 1	Type 2**
One Ply	TC1806T TC1808T	TT1806T TT1808T	6 8	9,600 12,800	7,700 10,200	19,200 25,600	TC1806D TC1808D	TT1806D TT1808D
	TC1810T TC1812T TC1816T	TT1810T TT1812T TT1816T	10 12 16	16,000 19,200 25,500	12,800 15,400 20,400	32,000 38,400 51,000	TC1810D TC1812D TC1816D	TT1810D TT1812D TT1816D
Two Ply	TC2806T TC2808T	TT2806T TT2808T	6 8	16,800 22,400	13,400 17,900	33,600 44,800	TC2806D TC2808D	TT2806D TT2808D
	TC2810T TC2812T TC2816T	TT2810T TT2812T TT2816T	10 12 16	28,000 33,600 44,800	22,400 26,800 35,800	56,000 67,200 89,600	TC2810D TC2812D TC2816D	TT2810D TT2812D TT2816D

** Type 2 (TT) cannot be used in a choker hitch.
*** To order nylon, replace the "D" with an "N".
Custom configurations available.

* **⚠ WARNING** Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the HELP section.

Synthetic Slings
Web Slings

MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

REVERSE EYE SLINGS

Reverse Eye (RE) Slings

The Reverse Eye Sling is a modified endless sling, reinforced and protected on all sides. It's the most rugged and versatile of all web slings. The sling incorporates premium wear-resistant material for protection on all surfaces.

Features and Benefits

Promotes Safety

- Superior choke hitch performance grips load securely.
- Reinforced eyes improve strength.
- The red core yarn warning system aids in the inspection process.
- *Tuff-Tag* provides serial numbered identification for traceability.

Saves Money

- An additional wear-resistant layer offers superior abrasion resistance.
- Reversible eyes reduce wear and increase sling life.
- Top grade slings using *Tuff-Edge* webbing are armored on all four sides resulting in the toughest web sling available.

Saves Time

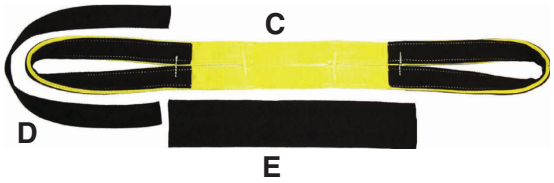
- Eyes nest well on crane hook for easy rigging.
- Flat eye construction is available to facilitate removal from under loads.

The Reverse Eye sling is not just an endless sling with wear pads.



Single Ply Endless with Reinforced Eyes

A. Extended web length makes 2-Ply eyes.
B. Reinforcing web piece sewn-on to make 2-Ply eye.



Add wear pads to both sides of body and eyes

C. Single Ply Endless sling with butted sides.
D. Texturized wear pads on both sides of eyes.
E. Texturized wear pads sewn on both sides of body.



Completed RE sling may be a 1, 2 or 3 ply endless sling with reinforcing webbing for each loop, and texturized wear pad on each side of eyes and sling body.

Heavy Duty RE Slings: *Tuff-Edge* Web								Standard Duty RE Slings: *Webmaster* 1200				
	Part Number	Rated Capacity* (lbs.)			Sling Thickness (in.)	Sling Width (in.)	Eye Length (in.)	Part Number	Rated Capacity* (lbs.)			Sling Thickness (in.)
		Vertical	Choker	V. Basket					Vertical	Choker	V. Basket	
One Ply	RE1802T	4,500	3,600	9,000	5/16	2	9	RE1602N	3,600	2,900	7,200	1/4
	RE1804T	7,700	6,200	15,400	5/16	4	12	RE1604N	6,800	5,400	13,600	1/4
	RE1806T	11,000	8,800	22,000	5/16	6	15	RE1606N	8,000	6,400	16,000	1/4
Two Ply	RE2802T	6,500	5,200	13,000	1/2	2	9	RE2602N	5,200	4,200	10,400	3/8
	RE2804T	13,000	10,400	26,000	1/2	4	12	RE2604N	10,500	8,400	21,000	3/8
	RE2806T	20,000	16,000	40,000	1/2	6	15	RE2606N	14,400	11,500	28,800	3/8
Three Ply	RE3804T	16,400	13,100	32,800	11/16	4	14	RE3604N	14,000	11,200	28,000	1/2
	RE3806T	25,500	20,400	51,000	11/16	6	18	RE3606N	20,000	16,000	40,000	1/2

Reverse eye slings using *Webmaster* 1600 webbing are available by special order.

* **⚠ WARNING** Do not exceed rated capacities. Sling tension increases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the HELP section of this catalog.

Synthetic Slings
Polyester Round Slings

MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

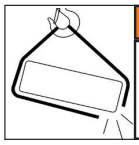
USING *TUFLEX™* ROUNDSLINGS

Protect Sling from Damage

ALWAYS protect roundslings from being cut or damaged by corners, edges and protrusions using protection sufficient for each application.

Do not ignore warning signs of misuse. **Cut marks detected during any sling inspection serve as a clear indication that cut protection is needed.** Refer to Sling Protection section of our catalog.

Exposure of slings to edges

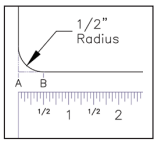


⚠ WARNING

Exposure of roundslings to edges with a radius that is too small can cause sling failure and loss of load

Edges do not need to be sharp to cause failure of the sling. The following table shows the minimum allowable edge radii suitable for contact with unprotected roundslings. Chamfering or cutting off edges is not an acceptable substitute for fully rounding the edges to the minimum radius. Slings can also be damaged from contact with edges or burrs at the sling connection.

Measure the edge radius. The radius is equal to the distance between points A and B.



Minimum Edge Radii suitable for contact with unprotected polyester roundslings

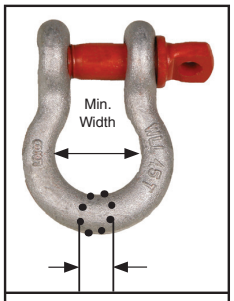
Rated Capacity Vertical (lbs.)	Minimum* Edge Radii (in.)	Sling Width At Load (in.)
EN30	3/16	1.00
EN60	1/4	1.38
EN90	5/16	1.75
EN120	5/16	1.88
EN150	3/8	2.00
EN180	7/16	2.13
EN240	7/16	2.63
EN360	1/2	3.25
EN600	11/16	4.00
EN800	3/4	4.63
EN1000	7/8	5.25

*For further information on minimum edge radii, contact *Lift-All* or see WSTDA-RS-1.

Sling Hardware and Connections

Connection surfaces must be smooth to avoid abrading or cutting slings. Roundslings can be damaged or weakened by excessive compression between the sling and the connection points. Select and use proper connection hardware that conforms to the size requirements listed for choker, vertical, or basket hitches in the charts below.

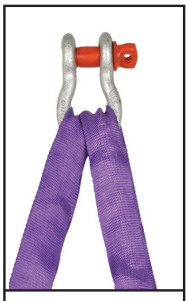
Contact *Lift-All* (or see WSTDA-RS-1), for information about how to calculate whether a smaller connection size is allowable when tension on a roundsling is less than its capacity.



Min. Stock Diameter or Thickness



Single Part (Vertical)



Double Part (Basket)**

Minimum hardware dimensions suitable for use with *Tuflex* Roundslings

Tuflex Size	Single Part		Double Part**	
	Min. Stock Diameter (in.)	Min. Width (in.)	Min. Stock Diameter (in.)	Min. Width (in.)
EN30	7/16	1.00	9/16	1.38
EN60	5/8	1.38	7/8	1.88
EN90	3/4	1.75	1-1/16	2.38
EN120	7/8	1.88	1-1/4	2.50
EN150	1	2.00	1-3/8	2.88
EN180	1-1/8	2.13	1-5/8	3.00
EN240	1-3/16	2.63	1-5/8	3.75
EN360	1-1/2	3.25	2	4.50
EN600	2	4.00	2-3/4	5.63
EN800	2-1/8	4.63	3	6.50
EN1000	2-1/2	5.25	3-1/2	7.38

**For hardware connected to the body of Eye/Eye Tuflex Roundslings, use the double part columns.

For Temperature and Chemical Information refer to the 'Environmental Consideration' page in the WEB section in this catalog.

Synthetic Slings
Polyester Round Slings

MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

TUFLEX™ ENDLESS ROUNDSLINGS

Tuflex Endless
The Most Versatile *Tuflex* Roundsling

Features and Benefits

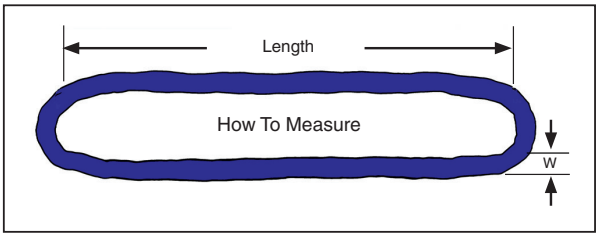
Maintains all the basic *Tuflex* features plus...

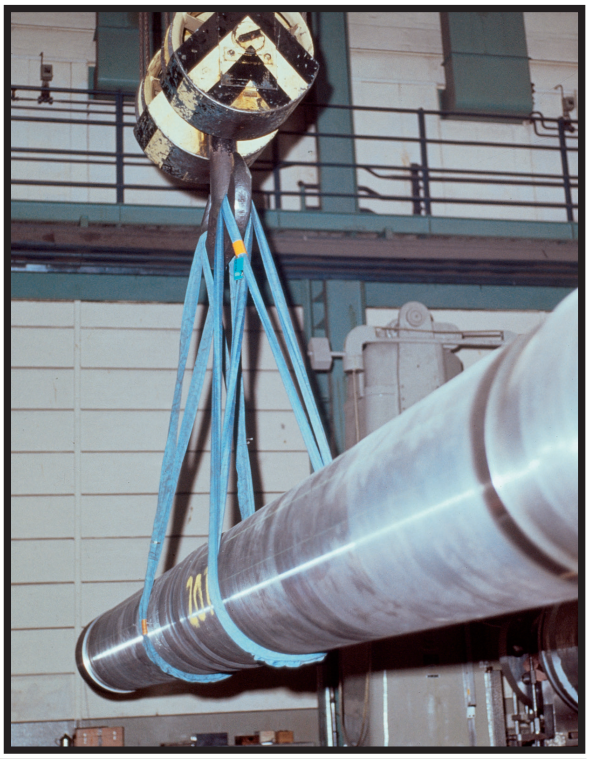
Promotes Safety

- Load stability and balance can be achieved by spreading sling legs.

Saves Money

- Wear points can be shifted to extend sling life.
- The most flexible style of sling.





TUFLEX ENDLESS ROUNDSLINGS

Part Number	Color	Rated Capacity* (lbs.) Vertical	Choker	Basket @ 90°	Basket @ 45°	Minimum Length (ft.)	Approximate Measurements Weight (lbs. / ft.)	Body Diameter Relaxed (in.)	Body Width at Load (W) (in.)	Minimum Hardware Dia.** (in.)
EN30	Purple	2,600	2,100	5,200	3,600	1.50	.2	0.63	1.00	0.44
EN60	Green	5,300	4,200	10,600	7,400	1.50	.3	0.88	1.38	0.63
EN90	Yellow	8,400	6,700	16,800	11,800	3.00	.5	1.13	1.75	0.75
EN120	Tan	10,600	8,500	21,200	14,000	3.00	.6	1.13	1.88	0.88
EN150	Red	13,200	10,600	26,400	18,000	3.00	.8	1.38	2.00	1.00
EN180	White	16,800	13,400	33,600	23,000	3.00	.9	1.38	2.13	1.13
EN240	Blue	21,200	17,000	42,400	29,000	3.00	1.3	1.75	2.63	1.19
EN360	Gray	31,000	24,800	62,000	43,000	3.00	1.7	2.25	3.25	1.50
EN600	Brown	53,000	42,400	106,000	74,000	8.00	2.8	2.75	4.00	2.00
EN800	Olive	66,000	52,800	132,000	93,000	8.00	3.4	3.13	4.63	2.13
EN1000	Black	90,000	72,000	180,000	127,000	8.00	4.3	3.63	5.25	2.50

** This is the minimum recommended diameter for the connection hardware to be used for a vertical hitch.

* ⚠ WARNING — Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the HELP section of this catalog.

Synthetic Slings
Polyester Round Slings

MADE IN USA

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PRODUCTS FOR BETTER LIFTING

TUFLEX™ EYE AND EYE

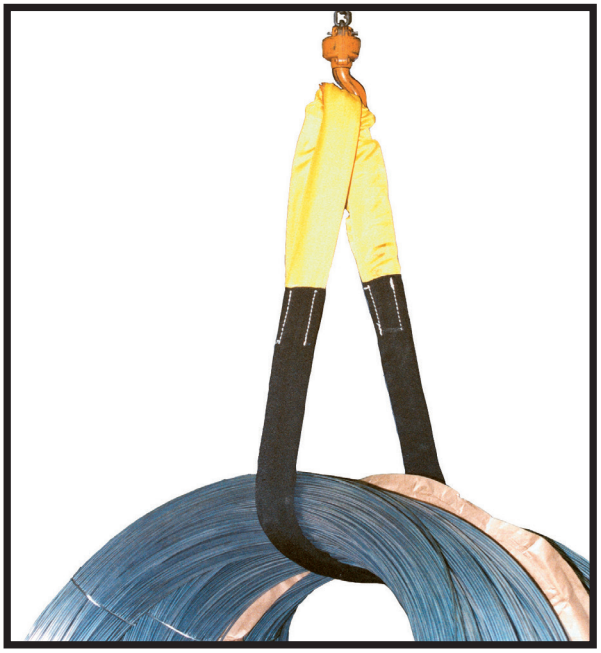
A More Rugged and Durable ***Tuflex*** Roundsling

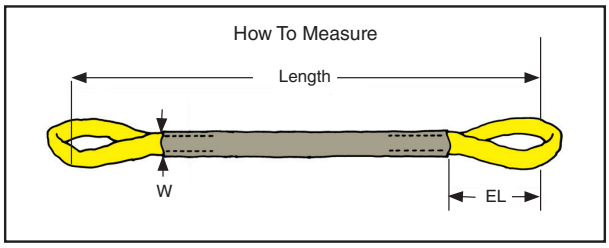
The Eye and Eye Advantage

An additional jacket of texturized and abrasion resistant nylon covers the *Tuflex* body forming two color-coded lifting eyes.

Maintains all the basic *Tuflex* features plus ...

- Saves money by extending sling life in abrasive environments.





TUFLEX EYE & EYE ROUNDSLINGS

Part Number	Eye Color	Rated Capacity (lbs.)* Vertical	Choker	Basket @ 90°	Basket @ 45°	Minimum Length+	Approximate Measurements Weight (lbs./ft.) (ft.)	Body Width at Load (W) (in.)	Standard Eye Length* (EL) (in.)	Minimum Hardware Dia** (in.)
EE30	Purple	2,600	2,100	5,200	3,600	4	0.25	2.25	10	0.44
EE60	Green	5,300	4,200	10,600	7,400	4	0.36	2.50	10	0.63
EE90	Yellow	8,400	6,700	16,800	11,800	4	0.50	2.50	12	0.75
EE120	Tan	10,600	8,500	21,200	14,000	5	0.60	3.50	12	0.88
EE150	Red	13,200	10,600	26,400	18,000	5	0.84	3.50	14	1.00
EE180	White	16,800	13.400	33,600	23,000	7	0.96	3.50	16	1.13
EE240	Blue	21,200	17,000	42,400	29,000	7	1.50	3.50	16	1.19
EE360	Gray	31,000	24,800	62,000	43,000	7	1.80	6.00	20	1.50
EE600	Brown	53,000	42,400	106,000	74,000	8	2.70	7.00	24	2.00
EE800	Olive	66,000	52,800	132,000	93,300	10	3.30	8.00	30	2.13
EE1000	Black	90,000	72,000	180,000	127,000	12	4.40	9.00	36	2.50

** This is the minimum recommended diameter for the connection hardware to be used for a vertical hitch.
+ Shorter lengths available using reduced eye lengths.

* **⚠ WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the HELP section of this catalog.

Synthetic Slings
Round Slings-Accessories

MADE IN USA

LiftAll® PRODUCTS FOR BETTER LIFTING

DIRECT CONNECT HOOKS

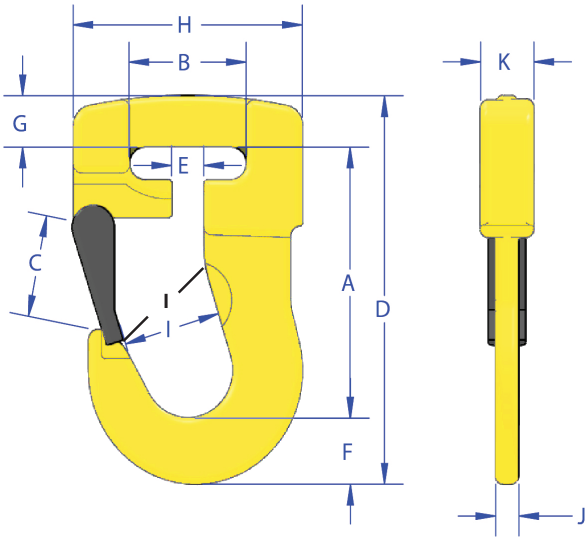
Direct Connect hooks are the quickest and easiest way to add hooks to *Tuflex* roundslings and web slings at your job site. No tools or extra parts are needed.

For *Tuflex* slings, just match the color-coded hook to the same color *Tuflex* sling, and you're ready to go. Rated capacities are the same for both the hook and the *Tuflex* roundsling.



Features and Benefits

- Rugged: The alloy steel hook and latch are forged for superior toughness.
- Color-coded hook matches *Tuflex* color and capacity.
- Web-Trap design keeps sling in place, ready to use.
- Four hook sizes to match *Tuflex* sizes EN30 (Purple), EN60 (Green), EN90 (Yellow) and EN150 (Red).
- Can be used with 1" and 2" web slings.
- Quick connections with no tools needed.
- Increases the life of the sling by reducing wear at the bearing point.



Part No.*	Color	Rated Capacity (lbs.)	Tuflex	Web Slings		A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	I (in.)	J (in.)	K (in.)	Weight (lbs.)
				Width	Plies												
DCH1	Purple	2,600	EN30	1	1	3.38	1.56	0.91	4.84	0.47	0.81	.67	3.07	1.22	0.70	1.13	1.54
DCH2	Green	5,300	EN60	1	2	4.00	1.75	1.28	5.83	0.75	1.07	.83	3.58	1.57	0.88	1.39	2.65
DCH3	Yellow	8,400	EN90	2	1 & 2	4.63	2.13	1.40	6.89	0.83	1.26	.98	4.45	1.97	1.00	1.76	4.85
DCH4	Red	13,200	EN150	—	—	5.75	2.34	1.83	8.78	1.63	1.60	1.42	5.21	2.34	1.23	2.21	9.90

***Add 'L' to end of part number to order a latch with the hook.**

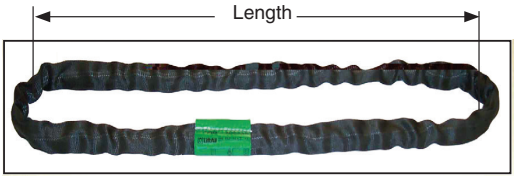
Synthetic Slings
Round Slings Staging

MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

Tuflex™ POLYESTER STAGE SLINGS

These lightweight roundslings are ideal for easy and inconspicuous suspension of stage sound and lighting equipment. Black sleeve material helps sling blend into the surroundings. *Lift-All* stage slings include the *Tuflex* features and benefits except that the color coding of the slings is achieved by using a color-coded identification tag. Double-wall sleeve material is standard.



Part Number	Rated Capacity (lbs.)*			Minimum Length (ft.)	Approximate Measurements			
	Vertical	Choker	Basket		Weight (lbs. / ft.)	Body Diameter Relaxed (in.)	Width at Load (in.)	Minimum Hardware Diameter (in.)
BSEN30	2,600	2,100	5,200	1-1/2	.2	5/8	1-1/8	7/16
BSEN60	5,300	4,200	10,600	1-1/2	.3	7/8	1-1/2	5/8
BSEN90	8,400	6,700	16,800	3	.4	1-1/8	1-7/8	3/4

TUFLEX WIDE-LIFT

Wide Load Support and Balance

Tuflex wide-lift slings distribute the load over a wide area and offer better balance of larger loads - whether heavy or light.



Note:
Wide-lift slings should only be used in basket hitch.

Consult *Lift-All* for special requirements.

Features and Benefits

Maintains all the basic *Tuflex* features plus ...

Promotes Safety

- Wide body distributes load over wide area and offers improved stability.

Saves Money

- Bearing point of eyes can be shifted to prolong sling life.
- Custom sizes available to fit your needs.

Saves Time

- Standard eye length is 12", making hook-up easy and fast.
- Standard body width is 12", making load balancing easier.

Code	Color of Eyes	Vertical Basket Hitch Rated Capacity* (lbs.)
WL30	Purple	5,200
WL60	Green	10,600
WL90	Yellow	16,800
WL120	Tan	21,200

* **⚠ WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the HELP section of this catalog.

Synthetic Slings
Wear Pads

MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

WEAR PADS

The Importance of Wear Protection

Wear Protection products like wear pads extend the life of slings by reducing exposure to abrasion and other similar forms of damage. Wear pads also help protect load surfaces from damage along points of contact, particularly when used with steel slings. **Always inspect slings by following the safety bulletin provided with each sling.**

Features and Benefits

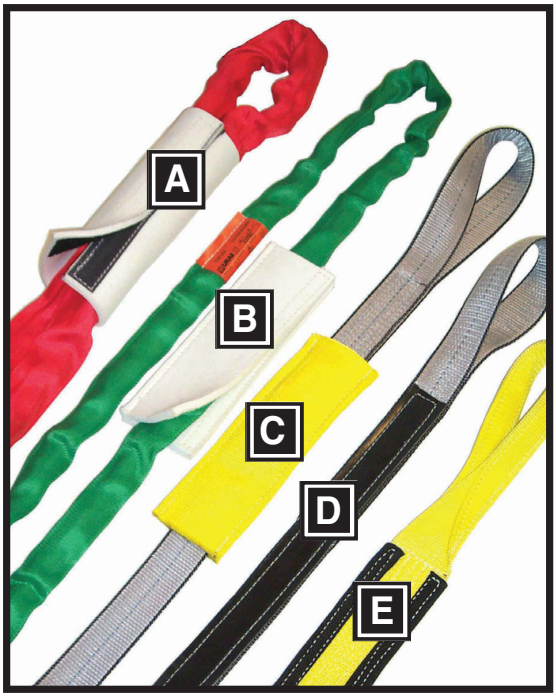
Sling and Load Damage Protection: Wear Protection can help to protect both the sling and the load from wear damage.

Construction Materials: A variety of padding materials are available to best suit the needs of each application.

Ease of Attachment: Some styles use hook and loop fastening to allow quick attachment and to help keep the position on the sling.

Ease of Sling Inspection: Length selection and other pad options are available that allow easy access to slings for frequent inspections.

Available Sizes: Available in a variety of lengths and widths.



A: Tubular Quick Sleeve – Pukka Pad Material
B: Flat Quick Sleeve – Pukka Pad Material
C: Flat Sewn Sleeve – *Webmaster* 1600
D: Sewn-On Wear Pad *Sling Shield*s PVC
E: Edge Guard – Texturized Nylon





Synthetic Slings
High Performance

CORTLAND







High Performance Round Slings
for challenging lifts and heavy payloads

The use of high performance synthetic fiber round slings, as an alternative to traditional wire rope, is growing in popularity for challenging lifting situations. High performance synthetic round slings are as strong as steel, yet light weight, and are safer and less labor intensive. Even the heaviest of loads can be quickly and safely rigged and lifted, minimizing downtime.

Unlike synthetic lines, a common problem with steel wire is weight. At times, personnel need the support of lifting gear to handle it safely and efficiently. There are also risks of recoil and maintenance requirements due to corrosion or fish hooks. Synthetics are not only safer, but they offer greater flexibility both in design and use, and can be moved faster with less manpower.

High performance round slings from Cortland feature an endless loop construction of HMPE materials, enabling these slings to be manufactured with very low elongation under load; and at very high strength. They are available in short lengths, with vertical capacities from 40,000 to 500,000 lbs as standard. To protect potential chafe areas from abrasion, cutting, or snagging, the core material is encased in a tough protective nylon jacket to ensure a durable and long-lasting lift solution.

Their light weight design and equal strength-to-size profile vs wire rope make these high performance synthetic round slings ideal tools for heavy lifts.

Features
- Stronger, safer, and easier to handle than steel
- Lightweight and flexible
- Short lengths available
- Matched slings are easily achieved
- Vertical capacities from 40,000 to 500,000 lbs as standard
- Friendly on painted surfaces or sensitive equipment
- Durable construction
- Repairable or replaceable jacket

Cortland high performance round slings in photos above feature special-design wear protection



Synthetic Slings
High Performance

CORTLAND

High Performance Round Slings

Specifications

materials: HMPE
construction: parallel laid endless filaments
jacket: double layer nylon durable jacket with wear indicator; optional special-design wear protection in critical areas is available
capacity: 40,000 lbs (18.2Te) to 500,000 lbs (226.8Te) higher capacities are available upon request
length: 5ft (1.524 m) to 72 ft (22 m); longer lengths available upon request
length tolerance: +/- 0.25% of nominal length, +/- 0.394 inches (10 mm) between matched sets



The below slings are available as standard, in lengths varying from a short 5 ft (1.524 m) up to 72 ft (22 m); please specify length at time of order. Higher capacities and custom designs are available upon request. **All Cortland high performance round slings are proof loaded and length verified and supplied with a proof loading certificate; third party witnessing is available upon request.**

High Performance Round Slings

Vertical Lift Rating to ASME B30.9 (5:1 WLL)

Part No	Rated Capacity						Sling Details							
	Vertical		Choker		Basket		Approximate Diameter		Weight per foot	Weight per meter	Minimum Bending Diameter		Minimum Width	
	lbs	Te	lbs	Te	lbs	Te	inch	mm	lbs/ft	kg/m	inch	mm	inch	mm
SRS-40	40,000	18.2	32,000	14.5	80,000	36.4	1.97	50	0.85	1.26	1.95	49	2.56	65
SRS-50	50,000	22.8	40,000	18.2	100,000	45.6	2.22	56	1.05	1.56	2.14	54	2.89	73
SRS-60	60,000	27.4	48,000	21.9	120,000	54.8	2.42	61	1.21	1.80	2.33	59	3.15	79
SRS-70	70,000	31.8	56,000	25.4	140,000	63.6	2.64	67	1.42	2.11	2.51	64	3.43	87
SRS-85	85,000	38.6	68,000	30.8	170,000	77.2	2.93	74	1.71	2.54	2.78	71	3.81	96
SRS-100	100,000	45.4	80,000	36.3	200,000	90.8	3.17	80	1.97	2.93	3.05	77	4.12	104
SRS-125	125,000	56.8	100,000	45.4	250,000	113.6	3.59	91	2.47	3.68	3.50	89	4.67	118
SRS-150	150,000	68.2	120,000	54.5	300,000	136.4	3.94	100	2.94	4.38	3.93	100	5.12	130
SRS-175	175,000	79.4	140,000	63.5	350,000	158.8	4.29	109	3.43	5.10	4.35	110	5.58	142
SRS-200	200,000	90.8	160,000	72.6	400,000	181.6	4.64	118	3.96	5.89	4.76	121	6.03	153
SRS-250	250,000	113.4	200,000	90.7	500,000	226.8	5.22	133	4.94	7.35	5.56	141	6.79	173
SRS-275	275,000	124.8	220,000	99.8	550,000	249.6	5.49	139	5.43	8.08	5.94	151	7.14	181
SRS-300	300,000	136.2	240,000	108.9	600,000	272.4	5.72	145	5.88	8.75	6.31	160	7.44	189
SRS-400	400,000	181.6	320,000	145.2	800,000	363.2	6.72	171	7.97	11.86	7.70	196	8.74	222
SRS-500	500,000	226.8	400,000	181.4	1,000,000	453.6	7.62	193	10.12	15.06	8.92	227	9.91	251

Email cortland@cortlandcompany.com for an initial discussion, or visit us online at cortlandcompany.com.

Synthetic Slings
Wear Pads

MADE IN USA

LiftAll
PRODUCTS FOR BETTER LIFTING

WEAR PAD STYLES

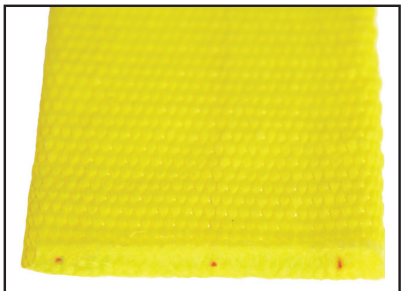
SLEEVE TYPE Preferred for slings that are used in a variety of lifting situations. Easily repositioned along sling body to accommodate loads of various sizes. Sleeve allows sling to adjust to lift without movement against load edge.		
Tubular Quick Sleeve	Use with: Tuflex Roundslings Chain & Wire Rope Available Materials: All (except PVC)	High strength hook & loop sleeve for secure positioning. Tubular design gives maximum usable surface and maximum pad life.
Flat Quick Sleeve	Use with: All Slings Available Materials: All (except PVC)	Hook & loop sleeve allow easy installation and removal. Friction keeps sleeve in place when rigging.
Flat Sewn Sleeve	Use with: All Slings Available materials: All (except PVC)	Preferred for long-term use on single sling. May be repositioned as needed along sling length. May require factory installation for slings with hardware and single leg Tuflex.
Poly Pads	Use with: Web Slings Available Materials: PVC	Slides easily along sling length for convenient sling protection. Must be installed at factory for web slings with hardware.
SEWN-ON TYPE For use on web slings where repetitive lifting situations expose the sling to damage. Eliminates the need to position pad before each lift.		
Sewn-On Wear Pad	Use with: Web slings only Available Materials: All except ballistic nylon	For sling protection at expected wear points. Can be sewn anywhere on the sling, be any length and be on one or both sides.
Edge Guard	Use with: Web slings only Available Materials: Texturized nylon Light leather	Helps protect both edges of the sling. Placement on the sling per customer requirement.

WEAR PAD MATERIALS



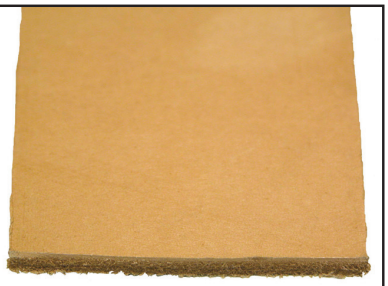
Pukka-Pads (P)

A high density polyester felt.



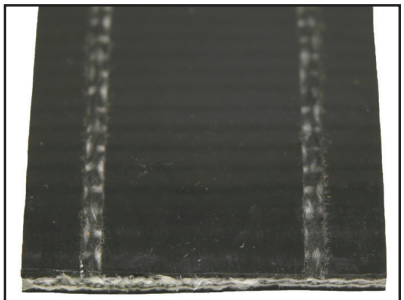
***Webmaster* 1600**

Polyester or Nylon



Heavy Leather (HL)

Genuine top-grain cowhide
May require multiple pieces.



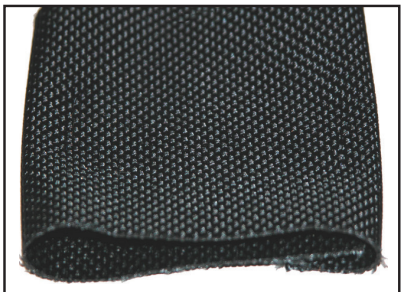
PVC Belting (PVC)

Non-absorbent conveyor type belting.



Texturized Buffer (TN)

A bulked fiber is used to produce a thin webbing with good abrasion resistance.



Ballistic Nylon (BN)

A 2-ply wear resistant fabric made of bulked nylon fiber, appropriate for wider sleeves.

Synthetic Slings
Drum Handling Slings

MADE IN USA

LiftAll® PRODUCTS FOR BETTER LIFTING

DRUM HANDLING SLINGS

Lift-All drum handling slings provide an easy, inexpensive way to handle steel drums. Available in two styles to suit your needs for handling drums in the vertical or horizontal position.

Vertical Drum Handling Slings

Easily lift standing drums for transport. Tilt suspended drums to pour from open top or spigot. For use with ribbed steel drums, the ratcheting belly band tightens securely below the first rib.

Lightweight version (**DSV601D**) uses 1" polyester sling webbing and is rated for 300-lbs.

Heavyweight version (**DSV602D**) uses 2" polyester sling webbing and is rated for 850-lbs.

Promotes Safety

- A wear pad is sewn on he inside of the lifting strap to prevent damage.
- Ratchet tightens locks securely.

Saves Time

- The free end of ratchet strap is sewn to stay properly threaded.
- Vertical legs are sewn to an adjustable belly band to maintain proper position.

Vertical



To order specify Part No. and Drum diameter in inches. (DSV602DX24)

Note: The standard 55 gal. drum has a 24" diameter.

Horizontal



To order specify Part Number DSH601D

Horizontal Drum Handling Slings

Ideal for the quick and easy lifting of steel drums in the horizontal position.

Part No. **DSH601D** uses 1" polyester sling webbing and is rated for 1,500 lbs.

Promotes Safety

- Strong 1" polyester webbing pulls drum hooks securely into rims at both ends of the drum during the lift.

Saves Time

- One sling fits multiple size drums.
- Easy to hook-up and disconnect.
- Uses 1/2" diameter oblong link at top for easy connection to hook.

Note: If used in a chemical environment, contact *Lift-All* for sling material options.

Synthetic Slings
Inspection Criteria

LiftAll®
PRODUCTS FOR BETTER LIFTING

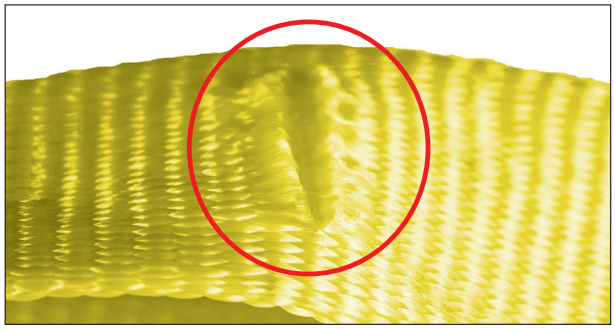
INSPECTION CRITERIA FOR WEB SLINGS

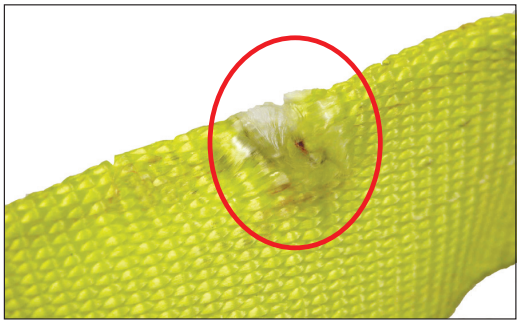
The following photos illustrate some of the common damages that occur to web slings, indicating that the sling should be taken out of service. For inspection frequency requirements, see the HELP section of this catalog and the safety bulletin provided with each sling.

SURFACE AND EDGE CUTS

WHAT TO LOOK FOR: ***Broken fibers*** of equal length indicate that the sling has been cut by an edge. **Red core warning yarns may or may not be visible and are not required to show before removing slings from service.** It is important to realize that all of the fibers in web slings contribute to the strength of that sling.

TO PREVENT: Always protect synthetic slings from being cut by corners and edges by using cut protection. See the Sling Protection section in this catalog.

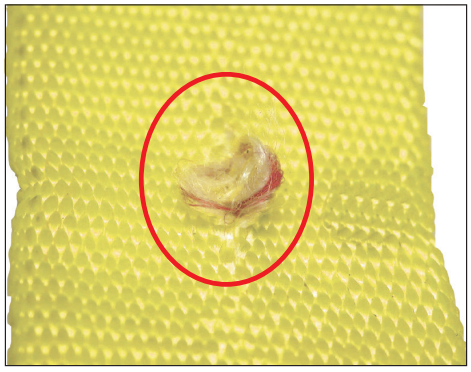




HOLES, SNAGS & PULLS

WHAT TO LOOK FOR: ***Punctures or areas*** where fibers stand out from the rest of the sling surface.

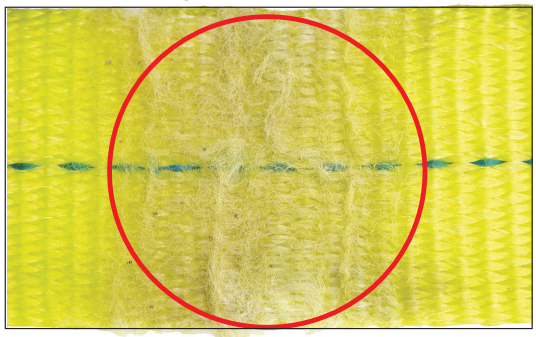
TO PREVENT: Avoid sling contact with protrusions, both during lifts and while transporting or storing. See the Sling Protection section in this catalog.



ABRASION

WHAT TO LOOK FOR: Areas of the sling that look and feel **fuzzy** indicate that the fibers have been broken by being subject to contact and movement against a rough surface. Affected areas are usually stained.

TO PREVENT: Never drag slings along the ground. Never pull slings from under loads that are resting on the sling. Use wear pads between slings and rough surface loads. See the Sling Protection section in this catalog.



Synthetic Slings
Inspection Criteria

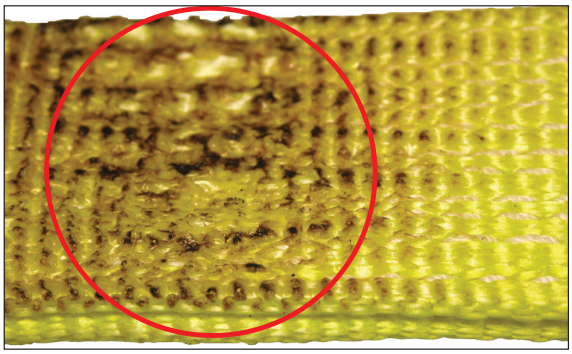
LiftAll
PRODUCTS FOR BETTER LIFTING

INSPECTION CRITERIA FOR WEB SLINGS

HEAT / CHEMICAL

WHAT TO LOOK FOR: Melted or charred fibers anywhere along the sling. Heat and chemical damage can look similar and they both have the effect of damaging sling fibers and compromising the sling's strength. Look for discoloration and/or fibers that have been fused together and often feel hard or crunchy.

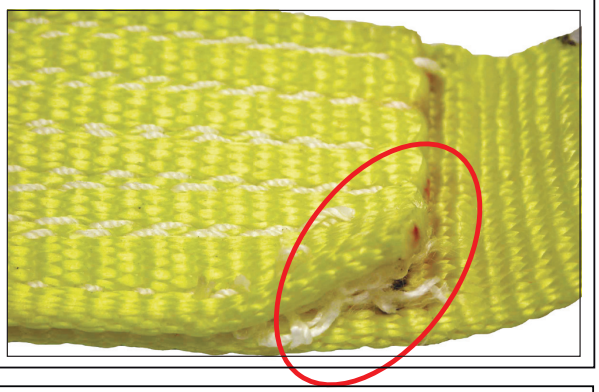
TO PREVENT: Never use nylon or polyester slings where they can be exposed to temperatures in excess of 200°F. Never use nylon or polyester slings in or around chemicals without confirming that the sling material is compatible with the chemicals being used.



BROKEN / WORN STITCHING

WHAT TO LOOK FOR: Loose or broken threads in the main stitch patterns. The stitch patterns in web slings have been engineered to produce the most strength out of the webbing. If the stitching is not fully intact, the strength of the sling may be affected.

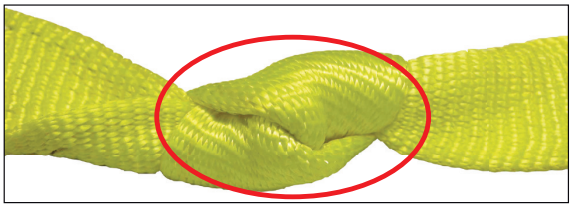
TO PREVENT: Never pull slings from beneath loads where stitch patterns can get hung up or snagged. Never overload the slings or allow the load edge to directly contact the stitch pattern while lifting. Never place a sling eye over a hook or other attachment whose width/diameter exceeds 1/3 of the eye length.



KNOTS

WHAT TO LOOK FOR: Knots are rather obvious problems as shown below. Knots compromise the strength of slings by not allowing all fibers to contribute to the lift as designed. Knots may reduce sling strength by up to 50%.

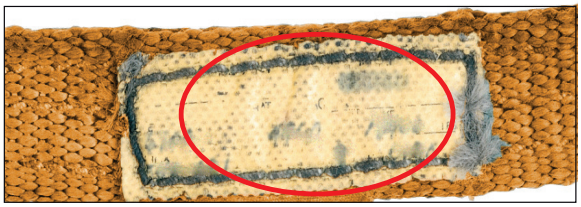
TO PREVENT: Never tie knots in slings and never use slings that are knotted.



ILLEGIBLE OR MISSING TAGS

WHAT TO LOOK FOR: If you cannot find or read all of the information on a sling tag, OSHA requires that the sling shall be taken out of service.

TO PREVENT: Never set loads down on top of slings or pull sling from beneath loads if there is any resistance. Load edges should never contact sling tags during the lift. Avoid paint or chemical contact with tags.



Red Core Yarns are an **additional** aid to warn of dangerous sling damage. All standard *Lift-All* Web Slings have this warning feature. The red core yarns become exposed when the sling surface is cut or worn through the woven face yarns. When red yarns are visible, the sling should be removed from service immediately. For other inspection criteria see OSHA/Manufacturer regulations in the HELP section of this catalog and the safety bulletin provided with each sling.

Wire Rope Slings
Inspection Criteria

LiftAll
PRODUCTS FOR BETTER LIFTING

INSPECTION CRITERIA FOR WIRE ROPE SLINGS

CAUTION
Never inspect a sling by passing bare hands over the wire rope.

Remove slings from service when:

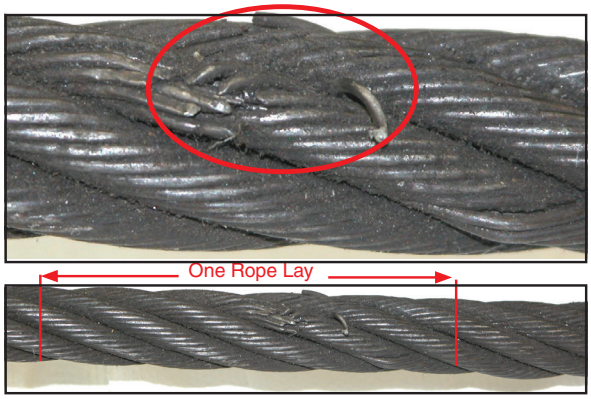
- Capacity information is missing or illegible.
- End attachments are cracked, deformed, or obviously worn.
- Hook is twisted out of plane by more than 10%.
- Hook throat opening is increased more than 15%.

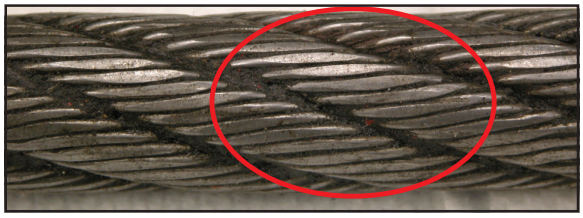
For inspection frequency of slings, refer to the Help section in this catalog.

BROKEN WIRES

WHAT TO LOOK FOR: The individual wires that make up the strands in a wire rope can break for various reasons, including fatigue and overload. Wire rope slings must be taken out of service when you find 10 or more broken wires in one rope lay, or 5 or more broken wires in one strand of one rope lay.

TO PREVENT: Avoid pulling the rope across edges or protrusions.





WEAR

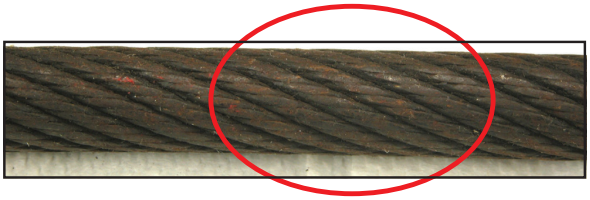
WHAT TO LOOK FOR: Flat areas on the individual wires. When wires have lost one third or more of their original diameter, the sling must be taken out of service.

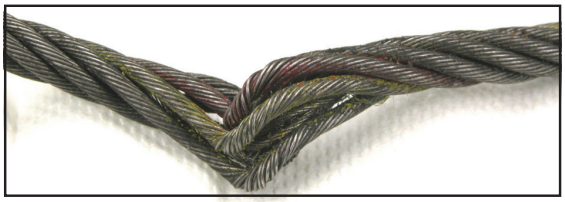
TO PREVENT: Do not drag sling on the ground and do not drag loads over slings. Pad high wear areas.

CORROSION / HEAT DAMAGE

WHAT TO LOOK FOR: Absence of lubrication and discoloration of rope.

TO PREVENT: Hang slings for storage away from moisture. Do not use wire core slings above 400°F or fiber core slings above 180°F.





KINKING AND / OR BIRD CAGING

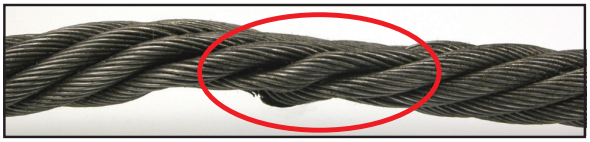
WHAT TO LOOK FOR: Bent strands of wire or strands standing out from their regular position in the body of the sling.

TO PREVENT: Protect rope from sharp edges of the load by pads or other means. Do not shock load slings.

CRUSHING

WHAT TO LOOK FOR: A section of rope that is flattened, where the cross section is no longer round.

TO PREVENT: Never allow loads to sit on top of slings.

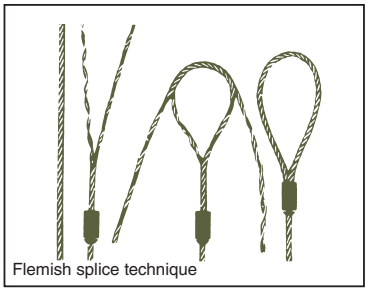


Note: OSHA requires wire rope slings to have "permanently affixed and legible identification markings."

Wire Rope Slings
Eye & Eye

ACCURATE
RIGGING & FABRICATION
A CHICAGO JACK COMPANY

Accurate Rigging slings are made using the flemish splice technique to form the eyes. Unlike the simple return loop method that places 100% of its strength on the swaged sleeve, our slings have reserve strength should the sleeve become damaged in use.


Flemish splice technique

Features and Benefits

Maintains all the basic wire rope sling features plus ...

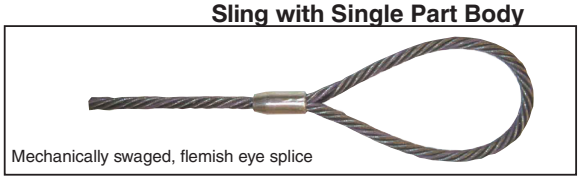
Promotes Safety

- Reserve strength: Integrity of eyes not solely dependent upon steel sleeves.
- IWRC resists crushing better than FC ropes.

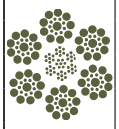
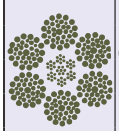
Saves Money

- When specified, thimble eyes protect wire rope from wear for increased life.
- Good abrasion resistance for longer life.

Sling with Single Part Body


Mechanically swaged, flemish eye splice

IWRC (Independent Wire Rope Core) — **Fiber core available at reduced capacities**

Wire Rope Class		Rope Dia. (in.)	EIPS IWRC Rated Capacity* (tons) Vertical	Choker	Vertical Basket	[1]Min. Sling Length	Standard Eye Size W X L (in.)	Thimbled Eye Size W X L (in.)	Eye Hook Cap. (tons)	Crescent Thimble Eye Size W X L (in.)	Slip Thru Thimble Eye Size W X L (in.)	Sliding Choker Hook ** (in.)
	6X19 EIPS IWRC	1/4	.65	.48	1.3	1'-6"	2 X 4	0.88 X 1.63	1	2 X 4	2.13 X 4.13	3/8
		5/16	1.0	.74	2.0	1'-9"	2.5 X 5	1.06 X 1.88	1	2 X 4	2.50 X 4.13	3/8
		3/8	1.4	1.1	2.9	2'-0"	3 X 6	1.13 X 2.13	1.5	2 X 4	2.50 X 4.13	3/8
		7/16	1.9	1.4	3.9	2'-3"	3.5 X 7	1.25 X 2.25	2	2 X 5	2.38 X 4.38	1/2
		1/2	2.5	1.9	5.1	2'-6"	4 X 8	1.5 X 2.75	3	2.25 X 6	2.38 X 4.38	1/2**
		9/16	3.2	2.4	6.4	2'-9"	4.5 X 9	1.5 X 2.75	4.5	2.25 X 7	2.38 X 4.38	5/8
		5/8	3.9	2.9	7.8	3'-0"	5 X 10	1.75 X 3.25	4.5	2.75 X 7	3.38 X 6.63	5/8**
		3/4	5.6	4.1	11	3'-6"	6 X 12	2 X 3.75	7	3.25 X 8.5	3.38 X 6.63	3/4**
		7/8	7.6	5.6	15	4'-0"	7 X 14	2.25 X 4.25	11	4.5 X 10	3.75 X 7.13	7/8
		1	9.8	7.2	20	4'-6"	8 X 16	2 X 4.5	11	4.5 X 11.5	3.75 X 7.13	1
		1-1/8	12	9.1	24	5'-0"	9 X 18	2.88 X 5.13	15	4.88 X 13	4.38 X 8.38	1-1/8
	6X37 EIPS IWRC	1-1/4	15	11	30	5'-6"	10 X 20	3.5 X 6.5	15	5.5 X 14.5	4.38 X 8.38	1-1/4
		1-3/8	18	13	36	6'-0"	11 X 22	3.5 X 6.25	22	6 X 16	5 X 9.5	1-3/8
		1-1/2	21	16	42	7'-0"	12 X 24	3.5 X 6.25	22	6 X 17.5	5 X 9.5	1-1/2**
		1-3/4	28	21	57	8'-0"	14 X 28	4.5 X 9	30	7 X 20	6.75 X 11.75	–
		2	37	28	73	9'-0"	16 X 32	6 X 12	37	7.X 23.5	8 X 14.5	–
		2-1/4	44	35	89	10'-0"	18 X 36	7 X 14	45	8.5 X 26	8 X 15.5	–
		2-1/2	54	42	109	11'-0"	20 X 40	–	–	8.5 X 29.5	–	–

Note: Larger diameter slings available. Basket ratings are based on a minimum D/d of 25.
[1] Minimum sling length when using standard eyes.

Length Tolerances (Single Part Wire Rope Slings): Standard length tolerance is plus or minus two rope diameters, **OR** plus or minus 0.5% of the sling length, whichever is greater.
** See Sliding Choker Hook capacities in HARDWARE section when using these hooks.

* **WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the HELP section of this catalog.

Wire Rope Slings
Bridles

ACCURATE
RIGGING & FABRICATION
A CHICAGO JACK COMPANY

Features and Benefits

Maintains all the basic wire rope sling features plus ...

Promotes Safety

- Bridles provide better load control and balance.
- Independent wire rope core resists crushing.

Saves Money

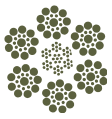
- Alloy steel hardware assures long life.
- Thimble eyes protect wire rope from wear for increased life.
- Reduces load damage by using fixed points on load.

Saves Time

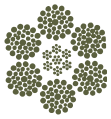
- Easier rigging provided when hooking into fixed lifting points.

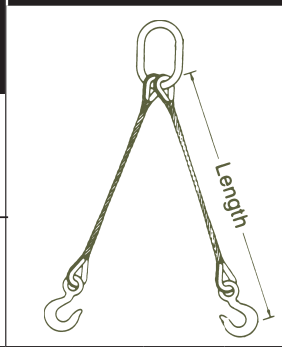
Bridle Slings
(With Single Part Body)

6X19

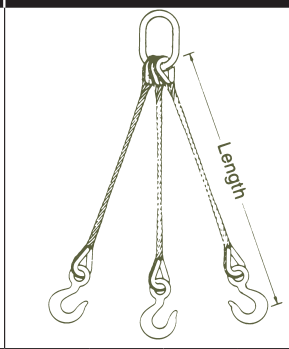


6X37

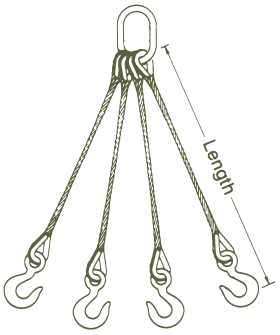




2-Leg Bridle



3-Leg Bridle



4-Leg Bridle

	Rope Dia. (in.)	[1]Min. Sling Length	Eye Hook Cap. (tons)	2-Leg Bridle Rated Capacity* (tons) 60°	45°	30°	2-Leg Bridle Oblong Link Stock Dia. (in.)	3-Leg Bridle Rated Capacity* (tons) 60°	45°	30°	3-Leg Bridle Oblong Link Stock Dia. (in.)	4-Leg Bridle Rated Capacity* (tons) 60°	45°	30°	4-Leg Bridle Oblong Link Stock Dia. (in.)
6X19 EIPS IWRC	1/4	1'-3"	1	1.1	.91	.65	1/2	1.7	1.4	.97	1/2	2.2	1.8	1.3	1/2
	5/16	1'-6"	1	1.7	1.4	1.0	1/2	2.6	2.1	1.5	1/2	3.5	2.8	2.0	3/4
	3/8	1'-8"	1-1/2	2.5	2.0	1.4	1/2	3.7	3.0	2.2	3/4	5.0	4.1	2.9	3/4
	7/16	1'-10"	2	3.4	2.7	1.9	3/4	5.0	4.1	2.9	3/4	6.7	5.5	3.9	1
	1/2	2'-0"	3	4.4	3.6	2.5	3/4	6.6	5.4	3.8	1	8.8	7.1	5.1	1
	9/16	2'-2"	4-1/2	5.5	4.5	3.2	3/4	8.3	6.8	4.8	1	11	9.0	6.4	1-1/4
	5/8	2'-4"	4-1/2	6.8	5.5	3.9	1	10	8.3	5.9	1-1/4	14	11	7.8	1-1/2
	3/4	2'-9"	7	9.7	7.9	5.6	1-1/4	15	12	8.4	1-1/2	19	16	11	1-3/4
	7/8	3'-3"	11	13	11	7.6	1-1/4	20	16	11	1-1/2	26	21	15	2
	1	3'-6"	11	17	14	9.8	1-1/2	26	21	15	1-3/4	34	28	20	2-1/4
	1-1/8	4'-0"	15	21	17	12	1-1/2	31	26	18	1-3/4	42	34	24	2-3/4
6X37 EIPS IWRC	1-1/4	4'-6"	15	26	21	15	1-3/4	38	31	22	2	51	42	30	2-3/4
	1-3/8	5'-0"	22	31	25	18	1-3/4	46	38	27	2-1/4	–	–	–	–
	1-1/2	5'-6"	22	37	30	21	2	55	45	32	2-1/4	–	–	–	–
	1-3/4	6'-6"	30	49	40	28	2-1/4	–	-	–	–	–	–	–	–
	2	8'-0"	37	63	52	37	2-3/4	–	–	–	–	–	–	–	–

Length Tolerances (Single Part Wire Rope Slings): Standard length tolerance is plus or minus two rope diameters, **OR** plus or minus 0.5% of the sling length, whichever is greater. The legs of bridle slings, or matched slings are normally held to within one rope diameter.

Other fittings and latches are available upon request.
[1] Minimum length based on thimbled eye and eye.

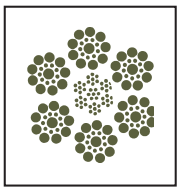
* **WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the Effect of Angle chart in the HELP section of this catalog.

Wire Rope Slings
Hand Spliced Slings-Hidden Tuck

ACCURATE RIGGING & FABRICATION
A CHICAGO JACK COMPANY

Features and Benefits

Maintains all the basic wire rope sling features plus ...

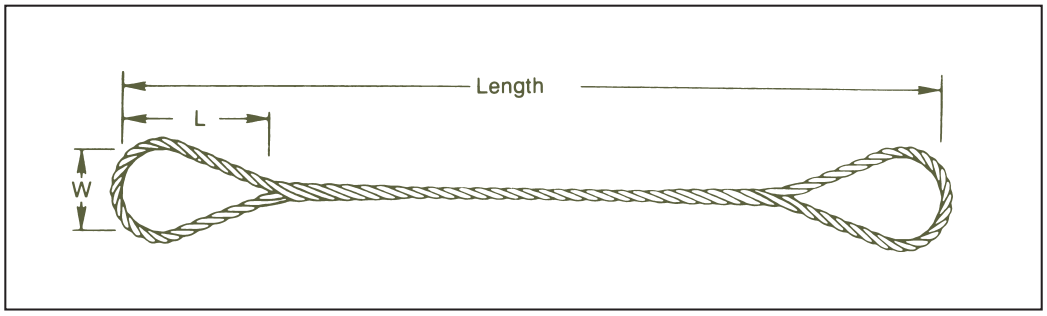


Promotes Safety

- Hidden Tuck buries wire ends to avoid snags and injuries.

Saves Time

- No steel sleeves to catch under load.



Hidden Tuck Hand Spliced Fiber Core

	Rope Dia. (in.)	EIPS FC Rated Capacity* (tons) Vertical	Choker	Vertical Basket	Min. Sling Length	Standard Eye Size W x L (in.)
6X19 EIPS FC	1/4	.54	.42	1.1	2'-0"	3 X 6
	5/16	.83	.66	1.7	2'-3"	3 X 6
	3/8	1.2	.94	2.4	2'-6"	3 X 6
	7/16	1.6	1.3	3.2	2'-9"	3.5 X 7
	1/2	2.0	1.6	4.0	3'-0"	4 X 8
	9/16	2.5	2.1	5.0	3'-6"	4.5 X 9
	5/8	3.1	2.6	6.2	4'-0"	5 X 10
	3/4	4.3	3.7	8.6	4'-6"	6 X 12
	7/8	5.7	5.0	11	5'-6"	7 X 14
	1	7.4	6.4	15	6'-0"	8 X 16

Basket ratings are based on a minimum D/d of 15.

Wire Rope Slings Assemblies
Swage Sockets

ACCURATE RIGGING & FABRICATION
A CHICAGO JACK COMPANY

SWAGED SOCKET ASSEMBLIES

Features and Benefits

Promotes Safety

- Achieves 100% of nominal rope breaking strength.
- All assemblies are proof-tested before shipment to customer.

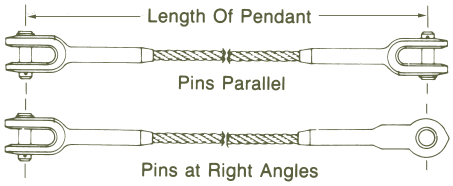
Saves Money

- Custom engineered assemblies are available for specific rigging needs.

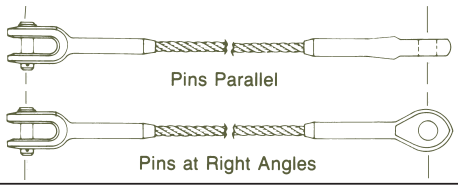
Rope Diameter (in.)	Minimum Pendant Length	Vertical Capacity* (tons)
1/4	11-0"	0.68
5/16	1'-3"	1.1
3/8	1'-3"	1.5
7/16	1'-8"	2.0
1/2	1'-8"	2.7
9/16	2'-0"	3.4
5/8	2'-0"	4.1
3/4	2'-5"	5.9
7/8	2'-10"	8.0
1	3'-2"	10
1-1/8	3'-7"	13
1-1/4	4'-0"	16

* Values given apply to 6X19 or 6X37 IWRC EIPS rope when pendants are used for slings. If used as boom suspension system or other applications, contact us for ratings.

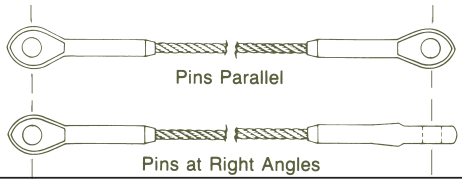
Open Swaged Sockets



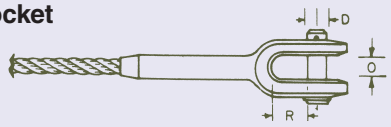
Open & Closed Swaged Sockets

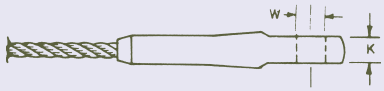


Closed Swaged Sockets



Swage Socket Dimensions (Forged Steel)





Rope Dia. (.in.)	Open Socket R (in.)	Open Socket O (in.)	Open Socket D (in.)	Open Socket Weight (lbs.)	Closed Socket W (in.)	Closed Socket K (in.)	Closed Socket Weight (lbs.)
1/4	1.16	0.69	0.69	0.52	0.75	0.50	0.38
5/16	1.34	0.82	0.82	1.12	0.88	0.69	0.77
3/8	1.34	0.82	0.82	1.25	0.88	0.69	0.72
7/16	1.50	1.00	1.00	2.08	1.06	0.88	1.42
1/2	1.50	1.00	1.00	2.08	1.06	0.88	1.35
9/16	1.63	1.25	1.19	4.48	1.25	1.13	2.92
5/8	1.63	1.25	1.19	4.75	1.25	1.13	2.85
3/4	2.00	1.50	1.38	7.97	1.44	1.31	4.90
7/8	2.38	1.75	1.63	11.30	1.69	1.50	6.63
1	2.75	2.00	2.00	17.80	2.06	1.75	10.30
1-1/8	3.13	2.25	2.25	27.50	2.31	2.00	14.50
1-1/4	3.50	2.50	2.50	35.75	2.56	2.25	20.75

Wire Rope Assemblies
Winch Lines & Hoist Lines

ACCURATE
RIGGING & FABRICATION
A CHICAGO JACK COMPANY

WINCH LINES, HOIST LINES, AND BUTTONS

Winch and Hoist Line Cables

Winch and hoist lines are made using 6X19 IWRC wire core ropes for better resistance to abrasion and crushing. Available with carbon hooks for large throat openings, or alloy hooks for longer life.

Features and Benefits

- Flemish eye splice for high strength efficiency.
- Meets OSHA 1910.184 and ASME B30.9.

Saves Money

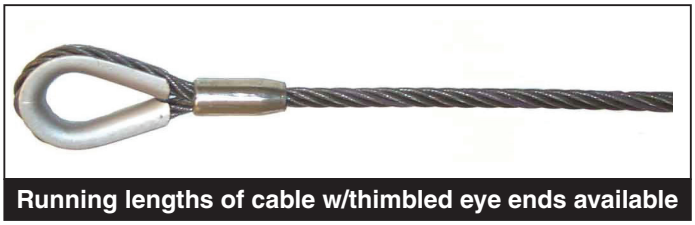
- Heavy-duty thimble in eye extends useful life.
- Economical custom assemblies.

Saves Time

- No assembly time - ready to install.
- Stainless steel latch keeps hook in proper place.



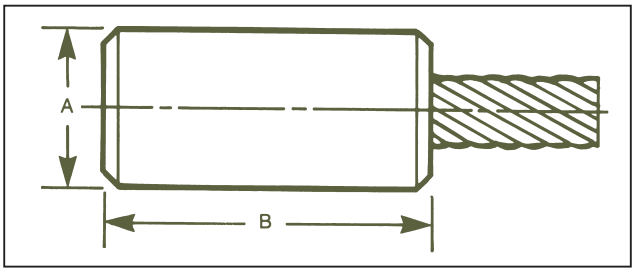
Winch and Hoist Line Cables



Running lengths of cable w/thimbled eye ends available

Swaged Steel Buttons

Swaged steel buttons are designed for use as end stops on drum winding equipment such as hoists and winches.



After Swage Dimensions

Rope Diameter (in.)	A (approx.)	B (approx.)
1/4	0.63	1.13
5/16	0.75	1.50
3/8	0.88	1.75
7/16	1.00	2.00
1/2	1.13	2.38
9/16	1.25	2.63
5/8	1.38	2.88
3/4	1.50	3.50
7/8	1.75	4.13
1	2.00	4.75
1-1/8	2.25	5.25
1-1/4	2.50	5.88
1-3/8	2.75	6.50
1-1/2	3.00	7.13

Non-Standard Buttons are available.

6X19 Class - Bright (Uncoated)

Diameter (in.)	Break Strength IWRC
3/8	14,000-lbs.
7/16	19,000-lbs.
1/2	25,000-lbs.
9/16	32,000-lbs.
5/8	39,000-lbs.

Chain Slings

LiftAll
PRODUCTS FOR BETTER LIFTING

LiftAlloy CHAIN SLING BASICS

***Lift-All* chain slings meet or exceed all OSHA, ASME B30.9 and NACM standards and regulations**

Chain slings, available in grade 100 for 7/32" through 3/4", and grade 80 for 7/8" up to 1-1/4" are recommended for rugged industrial applications in harsh environments where flexibility, abrasion resistance, and long life are required. OSHA required annual inspections can be performed by trained personnel.

Features and Benefits

Promotes Safety

- Permanent steel capacity tag is serialized for identification.
- Welded slings offer the security of tamper-proof assemblies.

Saves Money

- Alloy Steel construction assures long life.
- Can be repaired, proof-tested, and re-certified

Saves Time

- Easy to inspect for damage.
- Stores easily.

Use of Chain Under Heat Conditions

When the chain itself is heated to temperatures shown below, the Working Load Limit (Rated Capacity) should be reduced as indicated.

Temperature of Chain (°F)	Reduction of Working Load Limit While at Temperature		Permanent Reduction of Working Load Limit After Exposure to Temperature	
	Grade 80	Grade 100	Grade 80	Grade 100
Below -40	Do Not Use	Do Not Use	None	None
Below -20	None	Do Not Use	None	None
400	10%	15%	None	None
500	15%	25%	None	5%
600	20%	30%	5%	15%
700	30%	40%	10%	20%
800	40%	50%	15%	25%
900	50%	60%	20%	30%
1000	60%	70%	25%	35%
Over 1000	**REMOVE FROM SERVICE**			

Consult *us* about galvanized chain

Consult *us* about chain to be used in pickling operations

HOW TO ORDER CHAIN SLINGS

Define Chain Diameter
9/32" shown in example

932 D O S W 10 X 12

Sling Reach (ft.)
Refer to drawings on following pages on how to measure.

'X'

Number of Chain Legs or Other Style
Single – ***S***
Double – ***D***
Triple – ***T***
Quad – ***Q***
Choker – ***C***
Endless – ***E***
(w/o oblong)

Master Link or Specials
Oblong – **O**
Basket – **B**
Adjustable – **A**
Endless:
with oblong – **E**
w/o oblong – **N**

Bottom Attachments
Sling Hook – **S**
Grab Hook – **G**
Foundry Hook – **F**
Latchlok Eye Hook – **L**
Adjustable Slings:
Loop Style A – **A**
Loop Style B – **B**
Style A – **SA**
Style B – **SB**
Endless – Leave Blank

Chain Grade
Grade 80 – **8**
Grade 100 – **10**

Welded or Mechanical
Welded couplers – **W**
Mechanical couplers – **M**

Chain Slings
Grade 80 - Grade 100

LiftAll®
PRODUCTS FOR BETTER LIFTING

LiftAlloy CHAIN SLING BASICS

LiftAlloy Grade 100

- Available in sizes 7/32" through 3/4".
- Higher capacity per chain size can be used as an increased safety factor.
- Higher capacity may allow use of smaller diameter chain for your lifts, reducing sling weight and cost.
- Extreme abrasion resistance - more durable.
- Powder-coated attachments for corrosion resistance.

LiftAlloy Grade 80

- Available in sizes 7/8" through 1-1/4".
- Greater temperature tolerance.

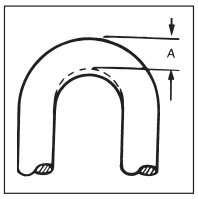
All *LiftAlloy* Slings

- Meet or exceed all OSHA, ASTM and NACM standards.
- Welded or mechanically assembled.

Chain Wear Allowance

Determine wear by measuring cross section at link ends. If worn to less than the minimum thickness allowable, chain should be removed from service.

Chain Size (in.)	Chain Size	Minimum Allowable Thickness - A (in.)
7/32	.219	.189
9/32	.281	.239
3/8	.375	.342
1/2	.500	.443
5/8	.625	.546
3/4	.750	.687
7/8	.875	.750
1	1.00	.887
1-1/4	1.25	1.091



Minimum thickness based on OSHA recommendations.

[1]Rated Capacity For *LiftAlloy* Chain Slings

Size of Chain			90°	60°	45°	30°	60°	45°	30°	Nominal Dimensions (in.)		Approx. No. of Links per ft.	Approx. Weight per 100 ft. (lbs.)
Grade	(in.)	(mm)	Single Chain @ 90° (lbs.)	Double Chain Slings* (lbs.)			Triple & Quad Chain Slings* (lbs.)**			Inside Length	Inside Width		
100	7/32	5.5	2,700	4,700	3,800	2,700	7,000	5,700	4,000	0.676	0.312	17.8	44
100	9/32	7.0	4,300	7,400	6,100	4,300	11,200	9,100	6,400	0.883	0.395	13.6	73
100	3/8	10.0	8,800	15,200	12,400	8,800	22,900	18,700	13,200	1.247	0.574	9.6	144
100	1/2	13.0	15,000	26,000	21,200	15,000	39,000	31,800	22,500	1.559	0.734	7.7	246
100	5/8	16.0	22,600	39,100	32,000	22,600	58,700	47,900	33,900	1.916	0.855	6.3	370
100	3/4	20.0	35,300	61,100	49,900	35,300	91,700	74,900	53,000	2.397	1.070	5.0	580
80	7/8	22.0	34,200	59,200	48,400	34,200	88,900	72,500	51,300	2.250	1.137	5.3	776
80	1	26.0	47,700	82,600	67,400	47,700	123,900	101,200	71,500	2.664	1.348	4.5	995
80	1-1/4	32.0	72,300	125,200	102,200	72,300	187,800	153,400	108,400	3.250	1.656	3.7	1,571

[1]**Rated Capacity** also referred to as "Working Load Limit."

****A ***Quad Chain Sling*** is usually not sustaining the load evenly on each of its' four legs, especially when used on a load of rigid structure. The maximum working load limits are therefore set at the same values as the ***Triple Chain Slings*** of equal quality and size, and used with branches at the same angle of inclinations.

* **⚠ WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the chain chart on this page and the Effect of Angle chart in the HELP section of this catalog.

Chain Slings Assemblies
Types

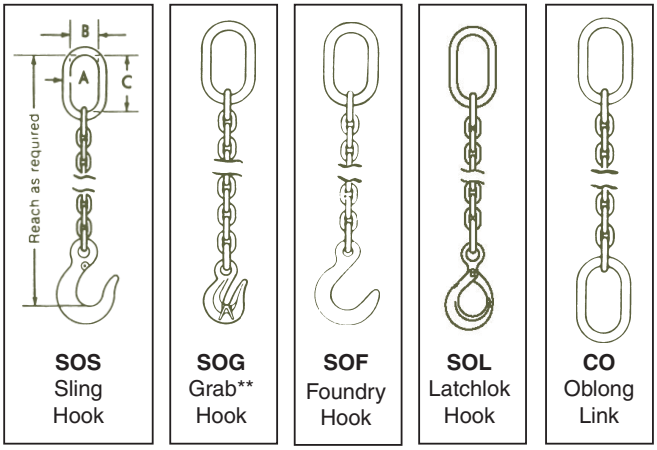
LiftAll®
PRODUCTS FOR BETTER LIFTING

LiftAlloy CHAIN SLINGS

LiftAlloy SINGLE CHAIN SLINGS

Grade	Chain Size (in.)	[1]Rated Capacity* Vertical (lbs.)	Approx. Weight 5-foot Reach Type SOS (lbs.)
100	7/32	2,700	4
100	9/32	4,300	5
100	3/8	8,800	10
100	1/2	15,000	18
100	5/8	22,600	27
100	3/4	35,300	44
80	7/8	34,200	58
80	1	47,700	79
80	1-1/4	72,300	121

[1]**Rated Capacity** also referred to as "Working Load Limit."



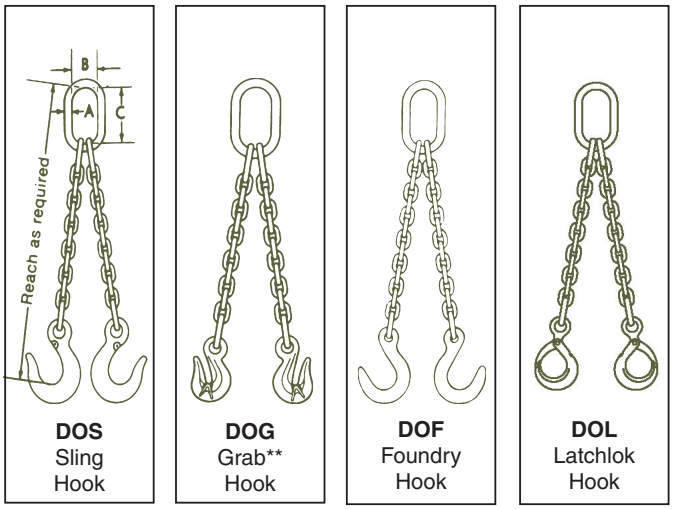
SOS Sling Hook | **SOG** Grab** Hook | **SOF** Foundry Hook | **SOL** Latchlok Hook | **CO** Oblong Link

**Cradle grab hooks are standard, non-cradle hooks available on request.

LiftAlloy DOUBLE CHAIN SLINGS

Grade	Chain Size (in.)	[1]Rated Capacity* @ 60° (lbs.)	Approx. Weight 5-ft. Reach Type DOS (lbs.)
100	7/32	4,700	8
100	9/32	7,400	10
100	3/8	15,200	17
100	1/2	26,000	32
100	5/8	39,100	51
100	3/4	61,100	74
80	7/8	59,200	99
80	1	82,600	134
80	1-1/4	125,200	211

[1]**Rated Capacity** also referred to as "Working Load Limit."



DOS Sling Hook | **DOG** Grab** Hook | **DOF** Foundry Hook | **DOL** Latchlok Hook

**Cradle grab hooks are standard, non-cradle hooks available on request.

* **⚠ WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to chain chart on previous page and Effect of Angle chart in the HELP section of this catalog.

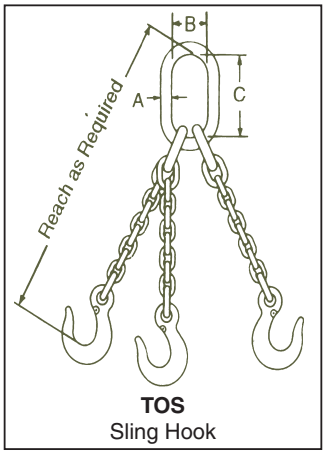
Chain Slings
Types

LiftAll®
PRODUCTS FOR BETTER LIFTING

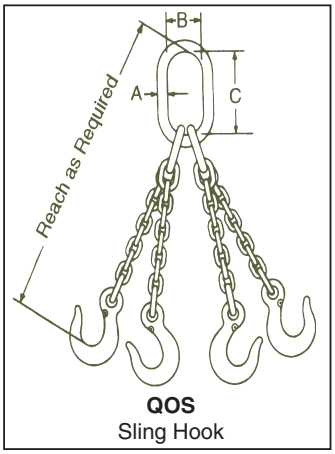
LiftAlloy CHAIN SLINGS

LiftAlloy TRIPLE and QUAD CHAIN SLINGS

Grade	Chain Size (in.)	[1]Rated Capacity* @ 60° (lbs.)	Approx. Weight 5-ft. Reach Type TOS (lbs.)	Approx. Weight 5-ft. Reach Type QOS (lbs.)
100	7/32	7,000	12	16
100	9/32	11,200	16	19
100	3/8	22,900	28	36
100	1/2	39,000	53	63
100	5/8	58,700	81	100
100	3/4	91,700	116	140
80	7/8	88,900	154	187
80	1	123,900	209	250
80	1-1/4	187,800	358	406



TOS
Sling Hook

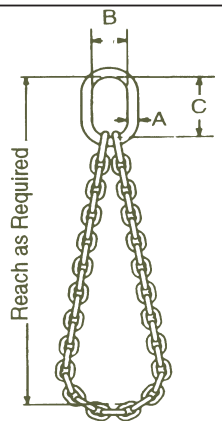


QOS
Sling Hook

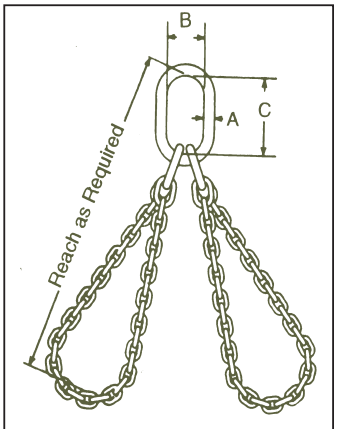
[1] **Rated Capacity** also referred to as "Working Load Limit"

LiftAlloy BASKET TYPE CHAIN SLINGS

Grade	Chain Size (in.)	[1]Rated Capacity* @ 60° (lbs.)	
		Single	Double
100	7/32	4,700	7,000
100	9/32	7,400	11,200
100	3/8	15,200	22,900
100	1/2	26,000	39,000
100	5/8	39,100	58,700
100	3/4	61,100	91,700
80	7/8	59,200	88,900
80	1	82,600	123,900
80	1-1/4	125,200	187,800



SB
Single Basket Type



DB
Double Basket Type

[1]**Rated Capacity** also referred to as "Working Load Limit."

* **⚠ WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to chain chart on previous page and Effect of Angle chart in the HELP section of this catalog.

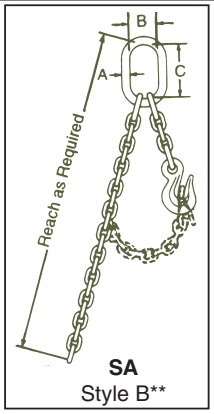
Chain Slings
Types

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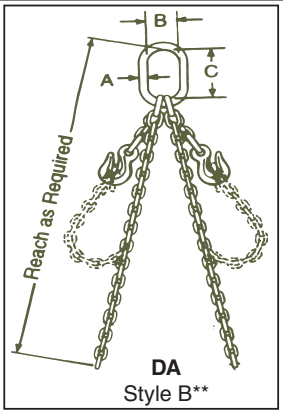
LiftAlloy ADJUSTABLE CHAIN SLINGS

LiftAlloy ADJUSTABLE LOOP CHAIN SLINGS***

Grade	Chain Size (in.)	[1]Rated Capacity*@ 60° (lbs.)	
		Single	Double
100	7/32	4,700	7,000
100	9/32	7,400	11,200
100	3/8	15,200	22,900
100	1/2	26,000	39,400
100	5/8	39,100	58,700
100	3/4	61,100	91,700
80	7/8	59,200	88,900
80	1	82,600	123,900
80	1-1/4	125,200	187,800



SA
Style B**



DA
Style B**



Style A

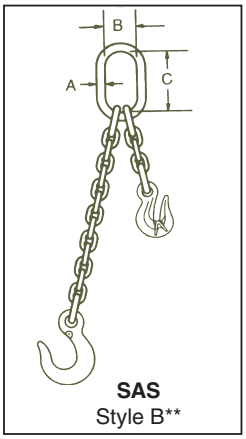
Hook is attached directly to the master link with a coupling link.

*** Cradle grab hooks standard; non-cradle hooks available on request.

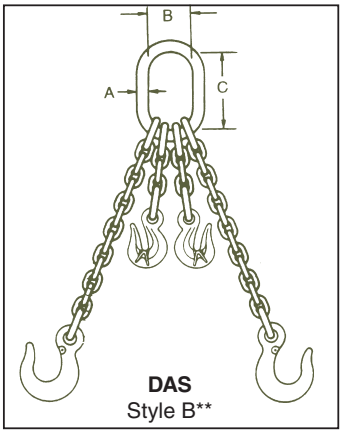
** Style B slings are furnished with approximately one foot of chain.

LiftAlloy ADJUSTABLE CHAIN SLINGS***

Grade	Chain Size (in.)	[1]Rated Capacity* (lbs.)	
		Single @90°	Double @ 60°
100	7/32	2,700	4,700
100	9/32	4,300	7,400
100	3/8	8,800	15,200
100	1/2	15,000	26,000
100	5/8	22,600	39,100
100	3/4	35,300	61,100
80	7/8	34,200	59,200
80	1	47,700	82,600
80	1-1/4	72,300	125,200



SAS
Style B**



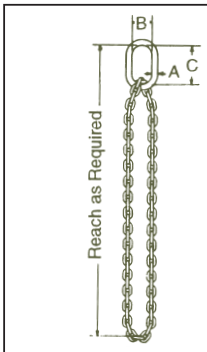
DAS
Style B**

*** Cradle grab hooks standard; non-cradle hooks available on request.

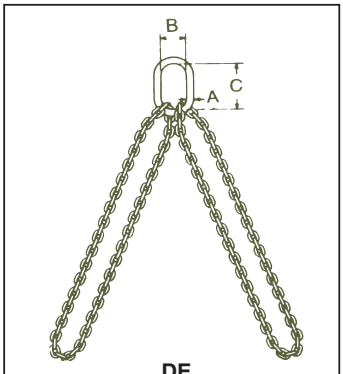
** Style B slings are furnished with approximately one foot of chain.

LiftAlloy ENDLESS BASKET CHAIN SLINGS

Grade	Chain Size (in.)	[1]Rated Capacity* (lbs.)	
		Single @90°	Double @ 60°
100	7/32	2,700	4,700
100	9/32	4,300	7,400
100	3/8	8,800	15,200
100	1/2	15,000	26,000
100	5/8	22,600	39,100
100	3/4	35,300	61,100
80	7/8	34,200	59,200
80	1	47,700	82,600
80	1-1/4	72,300	125,200



SE
Single Endless



DE
Double Endless

[1] **Rated Capacity** also referred to as "Working Load Limit"

* **WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to chain chart page 99 and Effect of Angle chart in HELP section of this catalog.

Chain Slings
Adjust-A-Link

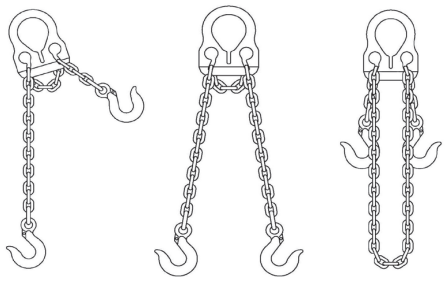
LiftAll®
PRODUCTS FOR BETTER LIFTING

ADJUST-A-LINK GRADE 100 CHAIN SLINGS

The most versatile adjustable chain sling available

Features and Benefits

- Alloy steel master control link for strength and reliability.
- Chain cannot be removed from the master control plate.
- Easily adjustable to accommodate a wide range of applications.
- Each assembly serialized for traceability.
- Complies with OSHA – proof-tested and certified.
- Versatile – one sling does many jobs.
- Yellow powder-coating on master plate and hooks prevents rust.
- Compact plate design fits larger hooks for easier rigging.
- Less bulk than typical double adjustable chain slings.
- High visibility yellow fittings.



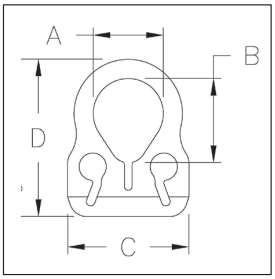
Single Double Basket

Chain Size (in.)	Rated Capacity* (lbs.)		6-ft. Length		10-ft. Length		14-ft. Length	
	Single @ 90°	Double @ 60°	Part Number	Wgt. (lbs.)	Part Number	Wgt. (lbs.)	Part Number	Wgt. (lbs.)
7/32	2,700	4,700	**30001G10**	4.2	**30002G10**	6.2	–	–
9/32	4,300	7,400	**30003G10**	7.5	**30004G10**	10.5	–	–
3/8	8,800	15,200	–	–	**30005G10**	18.5	**30006G10**	24.5
1/2⁺	12,000	20,800	–	–	**30007**	42	**30008**	52

⁺ 1/2" size master link is flame cut, not forged; uses G80 capacity ratings.

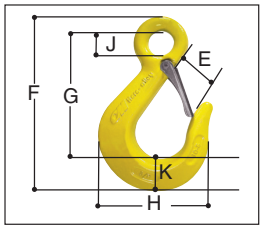


Master Plate Dimensions (in.)				
Chain Size (in.)	Eye Width A	Eye Height B	Overall Width C	Overall Length D
7/32	2.19	2.69	3.94	5.13
9/32	2.88	3.19	5.06	6.50
3/8	3.75	4.13	6.75	8.69
1/2⁺	4.38	4.38	9.75	12.75





Chain must be seated at the base of adjusting slot of the Master Control Link.



Hook Dimensions (in.)						
Chain Size	E	F	G	H	J	K
7/32	0.85	3.49	2.62	2.69	0.55	.872
9/32	1.01	4.04	3.01	3.19	0.64	1.03
3/8	1.44	6.07	4.77	4.33	0.91	1.30
1/2	1.78	7.63	5.69	5.50	1.13	1.94

Note: To order sling with latches, add an "L" after the first 5 numbers in the part number. Example: 30005LG10.

* **⚠ WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to the chain chart in the front of this section and the Effect of Angle chart in HELP section.

Chain Slings
Inspection Criteria

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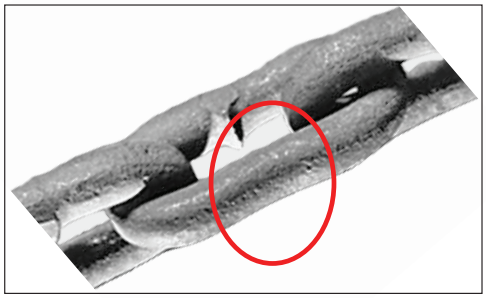
INSPECTION CRITERIA FOR CHAIN

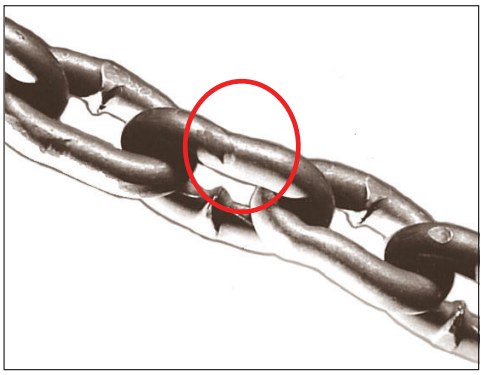
The following photos illustrate some of the common damage that occurs, indicating that the sling must be taken out of service. For inspection frequency requirements, see HELP section in this catalog.

STRETCHED CHAIN LINKS

WHAT TO LOOK FOR: Lengthening of the links and narrowing of the link width. Links that do not hinge freely with adjacent links are stretched and must be taken our of service; however, stretch **can** occur without this indicator. This damage indicates the sling has been extremely overloaded or subjected to shock loading.

TO PREVENT: Avoid overloading and shock loading.





BENT LINKS

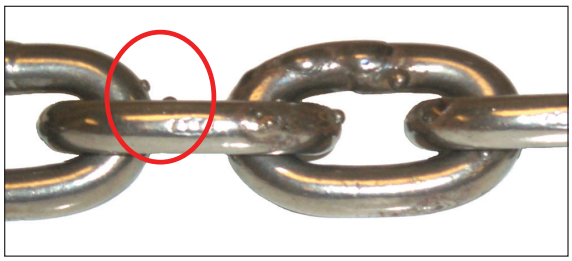
WHAT TO LOOK FOR: Bending usually occurs in only one or two adjacent links. Links will have an irregular shape when compared to other links.

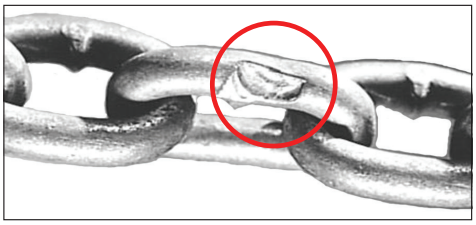
TO PREVENT: Bent links are usually the result of the chain going around the sharp edge of a load during a lift. Load edges must be padded to protect both chain and load.

WELD SPATTER

WHAT TO LOOK FOR: Metallic bumps on any link of chain.

TO PREVENT: The heat from weld spatter can adversely affect the strength of a chain link. Slings must be shielded from welding operations.





GOUGED LINKS

WHAT TO LOOK FOR: Indentations on an otherwise smooth link surface.

TO PREVENT: Gouging of links is usually caused by heavy loads being dragged over or dropped onto the chain. Protect sling from these situations.

Chain Slings
Inspection Criteria

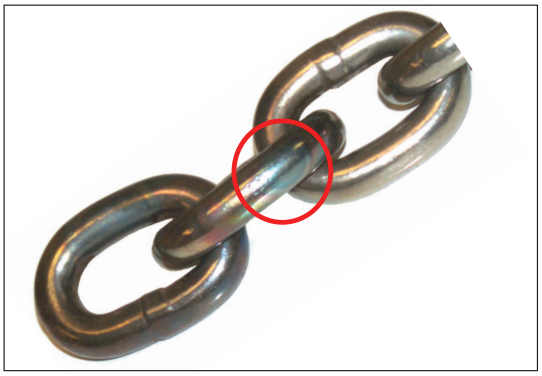
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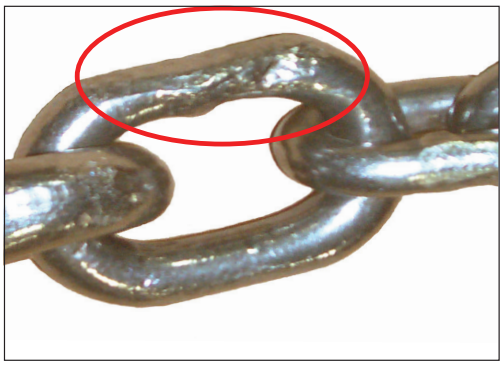
INSPECTION CRITERIA FOR CHAIN

HEAT DAMAGE

WHAT TO LOOK FOR: Discolored areas of chain

TO PREVENT: High temperatures begin to affect alloy chain strength at 400°F. When using chain slings at elevated temperatures, refer to the *Lift-All* temperature chart for working load reductions.





WORN LINKS

WHAT TO LOOK FOR: Excessive wear and a reduction of the material diameter, especially at the bearing points. Refer to *Lift-All* Wear Allowance Table for minimum allowable link thickness.

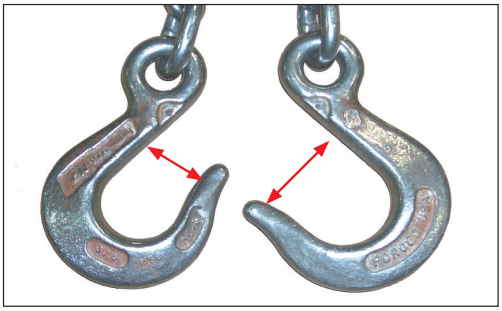
TO PREVENT: Wear is a natural result of sling use. Keeping load weights within the ratings of the slings being used will give the maximum sling wear life.

DAMAGED HARDWARE

WHAT TO LOOK FOR: Hooks and other fittings usually show wear at the bearing points. Hooks bent more than 10° from the plane or opened more than 15% of the normal throat opening.

TO PREVENT: Never tip load hooks or lift with hardware on a load edge.





Slings
Safe, Care & Use

LiftAll
PRODUCTS FOR BETTER LIFTING

GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS
Safe Operating Practices

1. ***Sling users must be trained*** in operating practices; including sling selection, use, inspection, rigging practices, cautions to personnel and effects of the environment.
2. ***Inspect sling before each use*** and remove from service if damaged.
3. ***Protect sling from being cut or damaged*** by corners, protrusions, or from contact with edges that are not well rounded, using material of sufficient strength, thickness and construction to prevent damage.
4. ***Use sling properly.*** Do not exceed a sling's rated capacities and always consider how the sling angle affects the amount of tension on the sling.
5. ***Stand clear of the load.*** Do not stand on, under, or near a load, and be alert to dangers from falling and moving loads, and the potential for snagging.
6. ***Maintain and store sling properly.*** The sling should be protected from mechanical, chemical and environmental damage.

1. TRAINING

Sling Users must be Trained and Knowledgeable

Sling users must be knowledgeable about the safe and proper use of slings and be aware of their responsibilities as outlined in all applicable standards and regulations.

ASME B30.9 states, "Sling users shall be trained in the selection, inspection, cautions to personnel, effects of the environment and rigging practices."

OSHA Sling Regulation 29 CFR 1910.184 states that a qualified person is one *"who, by possession of a recognized degree or certificate of professional standing in an applicable field, or who, by extensive knowledge, training, and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter and work."*

If you are unsure whether you are properly trained and knowledgeable, or if you are unsure of what the standards and regulations require of you, ask your employer for information and /or training — **DO NOT** use slings if you are unsure of what you are doing. Lack of skill, knowledge or care can result in severe **INJURY** or **DEATH** to you and others.

2. INSPECTIONS

Damaged or defective slings shall be immediately removed from service.

Inspection Frequency

Initial Inspection — Each new sling must be inspected by a designated person to help ensure that the correct sling has been received, is undamaged and meets applicable requirements for its intended use.

Frequent Inspection — Slings must be inspected for damage before each use by the user or other designated person. Refer to safety bulletin provided with each sling.

Periodic Inspection — Every sling must be inspected periodically. The designated person should be someone other than the person performing the frequent inspection.

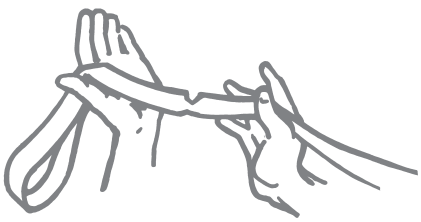
The frequency of periodic inspections should be based on the sling's actual or expected use, the severity of service and experience gained during the inspection of other slings used in similar circumstances, but must not exceed a one-year interval. General guidelines for the frequency of periodic inspections are:

- Normal service — yearly
- Severe service — monthly to quarterly
- Special service — as recommended

A written record of the most recent periodic inspection must be maintained. See WSTDA WS-1 for definitions of service conditions.

For specific inspection criteria, see the information at the end of each product section.

All sling users must read and understand the safety bulletin provided with each sling.



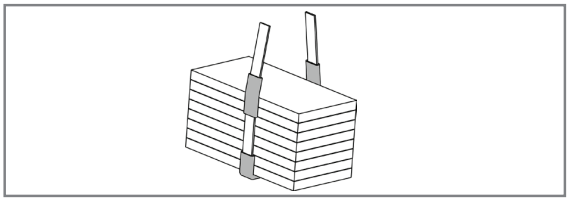
The Safety Bulletin that accompanies each sling must be read and understood by all sling users. See sling abuse illustrations in their respective section of this catalog. Damaged slings should never be used. It is possible (in some instances), to repair slings, proof-test and return them to service. Damaged components and sections of chain or wire mesh can be replaced. Hooks, links and other components that are in good condition can be salvaged from a damaged web or round sling; then re-webbed and proof-tested by *Lift-All* and returned to service.

Slings
Safe, Care & Use

LiftAll
PRODUCTS FOR BETTER LIFTING

GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS

3. PROTECT SLINGS



The cutting of synthetic slings is the primary cause of sling failure, usually caused by a sharp or small diameter load edge against the sling. Proper protection must be used to avoid cutting. (See Sling Protection section).

Heavy abrasion will seriously degrade sling strength. Rough load surfaces and dragging slings on the ground will damage all slings, steel or synthetic. Use proper padding between slings and rough loads. Never drag slings on the ground or concrete floors.

Sling Protection

A qualified person must select materials and methods that adequately protect slings from edges or surfaces. The sling protection section of this catalog includes information on available cut protection products and wear pads. No protective device is cut proof.

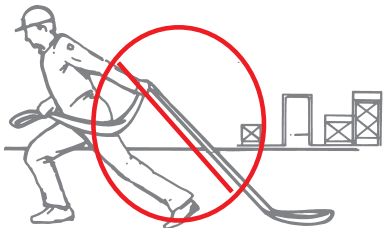
Some protection devices provide abrasion resistance but offer virtually no protection against cuts. Several test lifts (done in a non-consequence setting), may be necessary to determine the suitability of each protection device. After each test list, inspect all slings and protection devices for damage.

Foreign Matter

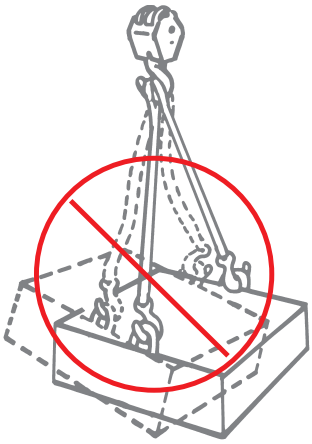
Material such as metal chips and heavy grit can damage slings, both internally and externally. Avoid contact with foreign matter whenever possible.

4. USE SLINGS PROPERLY

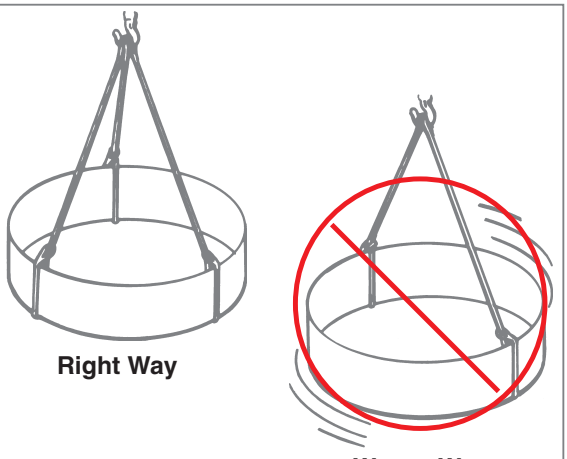
Improper Loading *— Shock Loading, unbalanced loading, overloading and inadequate consideration for the effect of angle factors can adversely affect safety. Make sure the load weight is within the rated capacity of the sling(s) being used for both type of hitch and angle of lift. OSHA wording.*



Slings should not be dragged on floor.



Do not shock load. Jerking the load could overload the sling and cause it to fail.



Right Way

Wrong Way

Lift must be stable and balanced with respect to the center of gravity.

Slings
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GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS

Slings shall not be shortened with knots or bolts or other make-shift devices. OSHA wording.

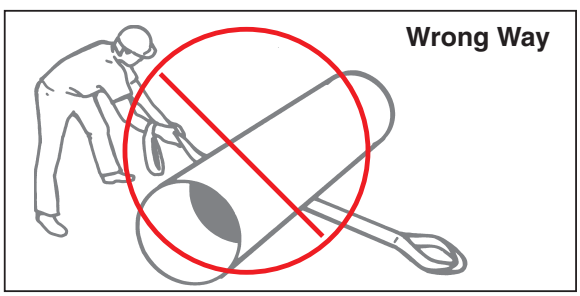


Sling legs shall not be kinked. OSHA wording.



A sling shall not be pulled from under a load when the load is resting on the sling. OSHA wording.



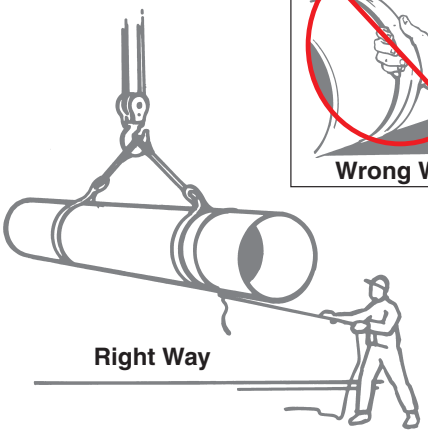


Prior to lifting the load, prepare the area where it is to be put down. Lumber can be used to allow space for removing the sling and prevent shifting.

5. STAND CLEAR OF THE LOAD

Hands or fingers shall not be placed between the sling and its load while the sling is being tightened around the load.
OSHA Wording.





Tag lines may be used to help keep personnel away from the load.

Suspended loads shall be kept clear of all obstructions.

All employees shall be kept clear of loads about to be lifted and of suspended loads. OSHA wording.



Slings
Safe, Care & Use

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PRODUCTS FOR BETTER LIFTING

GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS

6. MAINTAIN & STORE SLINGS PROPERLY

Attempt to keep slings clean and free of dirt, grime, and foreign materials.

When not in use, slings should be stored in an area free from environmental or mechanical sources of damage, such as weld spatter; splinters from grinding or machining; or sources of UV, heat or chemical exposure; etc.



Slings shall be stored in cool, dark, dry areas, preferably on racks.

Additional Factors to consider when handling loads

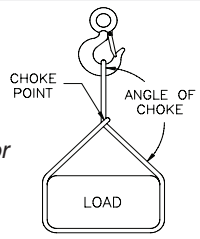
- Integrity of the attachment points.
- Structural stability of the load.
- Loose parts that could fall from load.
- Power lines in the area.
- Secure a clear load path and avoid any contact with objects that would impede load movement.
- Tag lines can often be attached to the load and be used to aid in controlling load position.

CHOKER HITCH ANGLES

Choker Hitch Angles

When a choke hitch is used, and the angle of choke is less than 120°, the sling choker hitch capacity decreases. To determine the actual sling capacity at a given angle of choke, multiply the sling capacity choke rating by the appropriate reduction factor determined from the below.

Adjusted Choker Hitch Capacity = Choker Hitch Capacity X Reduction Factor



Reduction in rated capacity as a function of angle of choke

Synthetic Slings			Wire Rope Slings		
Angle of Choke		Factor	Angle of Choke		Factor
> or =	<		> or =	<	
120	180	1.00	120	180	1.00
105	120	.82	90	120	.87
90	105	.71	60	90	.74
60	90	.58	30	60	.62
0	60	.50	0	30	.49

Sling capacity decreases as choke angle decreases

Lift-All is dedicated to manufacturing and developing products for material handling that meet or exceed current industry and government requirements (OSHA and ASME B30.9). Ultimately, the life and strength of any sling depend on those who inspect, use and maintain it.

The ASME B30.9 Sling Safety Standard can be obtained from:
ASME Customer Service
Phone: 800-843-2763
www.asme.org

Occupational Safety and Health Administration (OSHA) "Industrial Slings" Regulations are published by the Office of the Federal Register, National Archives and Records Administration — Part 29 1910.184
www.osha.gov

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EFFECT OF SLING ANGLE

Using slings at an angle ***can become deadly*** if that angle is not taken into consideration when selecting the sling to be used. The tension on each leg of the sling is increased as the angle of lift, from horizontal, decreases. It is most desirable for a sling to have a larger angle of lift, approaching 90°. Lifts with angles of less than 30° from horizontal are not recommended. If you can measure the angle of lift or the length and height of the sling as rigged, you can determine the properly rated sling for your lift.

INCREASED TENSION
What capacity sling do I need?

1. Determine the load weight (LW).

2. Calculate the tension factor (TF):

a. Determine the sling angle as measured from the horizontal, and the corresponding tension factor (TF) from the effect of angle chart.

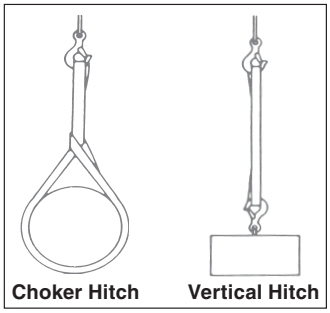
OR

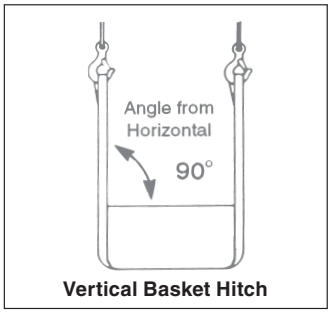
b. Length* (L) divided by height* (H).

3. Determine the share of the load applied to each sling leg (LW).

4. Multiply (LW) by (TF) to determine the sling leg tension. The capacity of the selected sling or sling leg must meet the calculated tension value.

** Measured from a common horizontal plane to the hoisting hook.*





REDUCED CAPACITY
What would be the rating of each sling rigged at this angle?

1. Calculate the reduction factor (RF).

a. Using the angle from horizontal, read across the angle chart to the corresponding number in the Reduction Factor column.

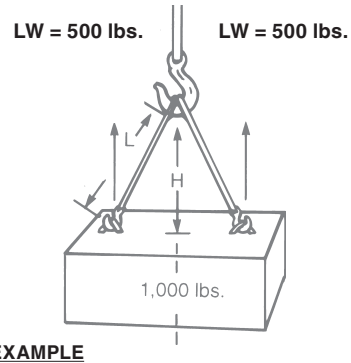
OR

b. Divide sling height* (H) by sling length* (L).

2. Reduction factor (RF) x the sling's rated capacity for the type hitch that will be used = sling's reduced rating.

** Measured from a common horizontal plane to the hoisting hook.*

INCREASED TENSION



EXAMPLE
Load weight: 1,000-lbs.
Rigging: Two slings in vertical hitch
Lifting weight (LW) per sling: 500-lbs.
Measured sling length (L): 10-ft.
Measured Sling Height (H): 5-ft.
Tension factor (TF): 10(L) ÷ 5(H) = 2.0
Minimum vertical rated capacity required for this lift:
500(LW) X 2.0(TF) = 1000-lbs. per sling

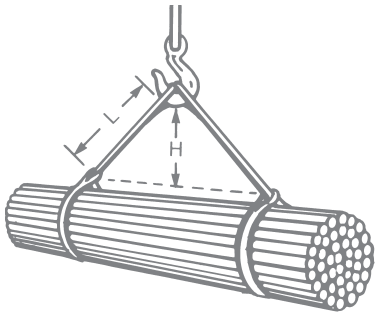
Effect of Angle Chart

Tension Factor (TF)	Angle From Horizontal	Reduction Factor (RF)
1.000	90˚	1.000
1.004	85˚	0.996
1.015	80˚	0.985
1.035	75˚	0.966
1.064	70˚	0.940
1.104	65˚	0.906
1.155	60˚	0.866
1.221	55˚	0.819
1.305	50˚	0.766
1.414	45˚	0.707
1.555	40˚	0.643
1.742	35˚	0.574
2.000	30˚	0.500

Sling capacity decreases as the angle from horizontal decreases.

Sling angles of less than 30° *are not recommended.*

REDUCED CAPACITY



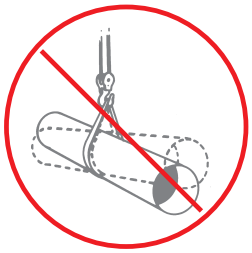
EXAMPLE
Vertical choker rating of ea. sling: 6,000-lbs.
Measured sling length (L): 6-ft.
Measured sling height (H): 4-ft.
Reduction factor (RF): 4(H) ÷ 6(L) = .667
Reduced sling rating in this configuration:
667(RF) X 6,000-lbs. = 4,000-lbs. of lifting capacity per sling

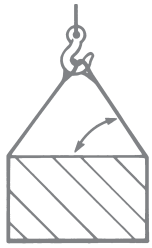
Slings
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GENERAL OSHA & MANUFACTURER REQUIREMENTS FOR ALL SLINGS

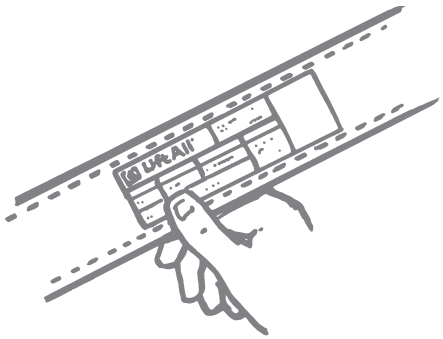
A qualified person must choose the quantity of slings, location of attachments, and the hitch types needed to effectively maintain load control.





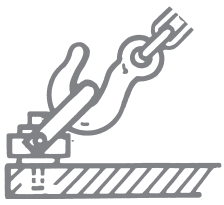
Angle of lift must be considered in all lifts. See Effect of Angle section of this catalog.

Slings shall not be loaded in excess of their rated capacities. OSHA wording.



Rated Capacity (Working Load Limit) must be shown by markings or tags attached to all slings.

Do not point load hooks — center load in base of hook.



Right Way

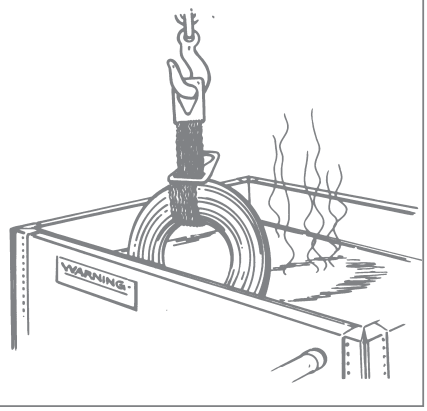


Wrong Way

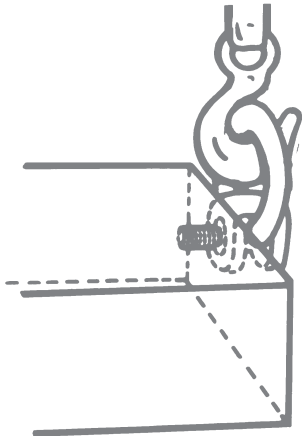
Temperature: Avoid loads and environments where temperatures exceed the limits of the slings being used. All slings can be damaged by excessive heat, including heat from welding torches and weld spatter.

Chemical Environment: Slings exposed to certain chemicals or the vapors of these chemicals can lose some or all of their strength. When using slings in a chemical environment, contact *Lift-All* to ensure sling compatibility.

Temperature and chemical environment must be considered. See specific sling types for data.



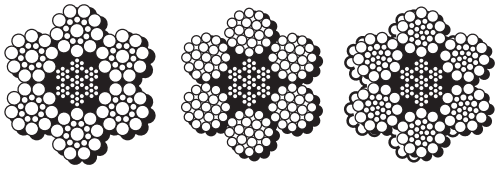
Slings shall be securely attached to their loads. OSHA wording.



Wire Rope
General Purpose

MADE IN USA

WWR
WASHINGTON WIRE ROPE



6 x 19 CLASS BRIGHT IWRC

Nominal Rope Diameter	Approximate Weight per Foot	STEEL CORE (IWRC) Minimum Breaking Force (Fmin)	STEEL CORE (IWRC) Minimum Breaking Force (Fmin)
Size	IWRC	GRADE EIPS	GRADE EEIPS
In	Lb/Ft	Short Tons US	Short Tons US
3/8	0.26	7.55	8.3
7/16	0.35	10.2	11.2
1/2	0.46	13.3	14.6
9/16	0.59	16.8	18.5
5/8	0.72	20.6	22.7
3/4	1.04	29.4	32.4
7/8	1.42	39.8	43.8
1	1.85	51.7	56.9
1 1/8	2.34	65	71.5
1 1/4	2.89	79.9	87.9
1 3/8	3.49	96	106
1 1/2	4.16	114	125
1 5/8	4.88	132	145
1 3/4	5.67	153	168
1 7/8	6.5	174	191
2	7.39	198	217
2 1/8	8.34	221	244
2 1/4	9.36	247	272
2 3/8	10.42	274	301
2 1/2	11.6	302	332

6 x 19S (9/9/1) Seale • 6 x 21F (10/5+5/5/1) Filler • 6 x 26WS (10/5+5/5/1) Warrington Seale

6 x 19 CLASS BRIGHT FIBER CORE

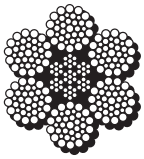
Nominal Rope Diameter	Approximate Weight per Foot	FIBER CORE Minimum Breaking Force (Fmin)
Size	FIBER CORE	GRADE EIPS
In	Lb/Ft	Short Tons US
3/8	0.24	6.72
7/16	0.32	9.1
1/2	0.42	11.8
9/16	0.53	14.9
5/8	0.66	18.3
3/4	0.95	26.2
7/8	1.29	35.4
1	1.68	46
1 1/8	2.13	57.8
1 1/4	2.63	71.1
1 3/8	3.18	85.5
1 1/2	3.78	101
1 5/8	4.44	118
1 3/4	5.15	137
1 7/8	5.91	156
2	6.72	176

6 x 19S (9/9/1) Seale • 6 x 21F (10/5+5/5/1) Filler
6 x 26WS (10/5+5/5/1) Warrington Seale

Wire Rope
General Purpose

MADE IN USA

WWR
WASHINGTON WIRE ROPE



6 x 37 CLASS BRIGHT IWRC

Nominal Rope Diameter	Approximate Weight per Foot	STEEL CORE (IWRC)	STEEL CORE (IWRC)
		Minimum Breaking Force (Fmin)	Minimum Breaking Force (Fmin)
Size	IWRC	GRADE EIPS	GRADE EEIPS
In	Lb/Ft	Short Tons US	Short Tons US
3/8	0.26	7.55	8.3
7/16	0.35	10.2	11.2
1/2	0.46	13.3	14.6
9/16	0.59	16.8	18.5
5/8	0.72	20.6	22.7
3/4	1.04	29.4	32.4
7/8	1.42	39.8	43.8
1	1.85	51.7	56.9
1 1/8	2.34	65	71.5
1 1/4	2.89	79.9	87.9
1 3/8	3.5	96	106
1 1/2	4.16	114	125
1 5/8	4.88	132	146
1 3/4	5.67	153	169
1 7/8	6.5	174	192
2	7.39	198	218
2 1/8	8.35	221	244
2 1/4	9.36	247	272
2 3/8	10.4	274	301
2 1/2	11.6	302	332

6 x 31WS (12/6+6/6&1) Warrington Seale • 6 x 36WS (14/7+7/7/1) Warrington Seale

6 x 37 CLASS BRIGHT FIBER CORE

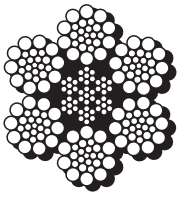
Nominal Rope Diameter	Approximate Weight per Foot	FIBER CORE
		Minimum Breaking Force (Fmin)
Size	FIBER CORE	GRADE EIPS
In	Lb/Ft	Short Tons US
3/8	0.24	6.72
7/16	0.32	9.1
1/2	0.42	11.8
9/16	0.53	14.9
5/8	0.66	18.3
3/4	0.95	26.2
7/8	1.29	35.4
1	1.68	46
1 1/8	2.13	57.8
1 1/4	2.63	71.1
1 3/8	3.18	85.5
1 1/2	3.78	101
1 5/8	4.44	118
1 3/4	5.15	137
1 7/8	5.91	156
2	6.72	176
2 1/8	7.59	197
2 1/4	8.51	220

6 x 31WS (12/6+6/6&1) Warrington Seale • 6 x 36WS (14/7+7/7/1) Warrington Seale

Wire Rope
General Purpose

MADE IN USA

WWR WASHINGTON WIRE ROPE



6 x 19 CLASS GALVANIZED IWRC

Nominal Rope Diameter	Approximate Weight per Foot	STEEL CORE (IWRC)	STEEL CORE (IWRC)
		Minimum Breaking Force (Fmin)	Minimum Breaking Force (Fmin)
Size	IWRC	GRADE EIPS	GRADE EEIPS
In	Lb/Ft	Short Tons US	Short Tons US
3/8	0.26	7.55	8.3
7/16	0.35	10.2	11.2
1/2	0.46	13.3	14.6
9/16	0.59	16.8	18.5
5/8	0.72	20.6	22.7
3/4	1.04	29.4	32.4
7/8	1.42	39.8	43.8
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1 1/8	2.34	65	71.5
1 1/4	2.89	79.9	87.9
1 3/8	3.5	96	106
1 1/2	4.16	114	125
1 5/8	4.88	132	146
1 3/4	5.67	153	169
1 7/8	6.5	174	192
2	7.39	198	217

6x19S (9/9/1) Seale • 6x21F (10/5+5/1) Filler • 6x26WS (10/5+5/5/1) Warrington Seale

6 x 19 CLASS GALVANIZED FIBER CORE

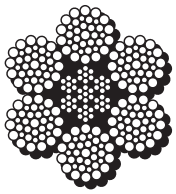
Nominal Rope Diameter	Approximate Weight per Foot	FIBER CORE
		Minimum Breaking Force (Fmin)
Size	FIBER CORE	GRADE EIPS
In	Lb/Ft	Short Tons US
3/8	0.24	6.71
7/16	0.32	9.10
1/2	0.42	11.8
9/16	0.53	14.9
5/8	0.66	18.4
3/4	0.95	26.2
7/8	1.29	35.4
1	1.68	46
1 1/8	2.13	57.9
1 1/4	2.63	71.1

6x19S (9/9/1) Seale • 6x21F (10/5+5/1) Filler
6x26WS (10/5+5/5/1) Warrington Seale

Wire Rope
General Purpose

MADE IN USA

WWR
WASHINGTON WIRE ROPE



6 x 37 CLASS GALVANIZED IWRC

Nominal Rope Diameter	Approximate Weight per Foot	STEEL CORE (IWRC)	STEEL CORE (IWRC)
		Minimum Breaking Force (Fmin)	Minimum Breaking Force (Fmin)
Size	IWRC	GRADE EIPS	GRADE EEIPS
In	Lb/Ft	Short Tons US	Short Tons US
3/8	0.26	7.55	8.3
7/16	0.35	10.2	11.2
1/2	0.46	13.3	14.6
9/16	0.59	16.8	18.5
5/8	0.72	20.6	22.7
3/4	1.04	29.4	32.4
7/8	1.42	39.8	43.8
1	1.85	51.7	56.9
1 1/8	2.34	65	71.5
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1 3/4	5.67	153	169
1 7/8	6.5	174	192
2	7.39	198	217
2 1/8	8.35	221	243
2 1/4	9.36	247	272

6x31WS (12/6+6/6/1) Warrington Seale • 6x36WS (14/7+7/7/1) Warrington Seale

6 x 37 CLASS GALVANIZED FIBER CORE

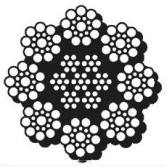
Nominal Rope Diameter	Approximate Weight per Foot	FIBER CORE
		Minimum Breaking Force (Fmin)
Size	FIBER CORE	GRADE EIPS
In	Lb/Ft	Short Tons US
3/8	0.24	6.71
7/16	0.32	9.10
1/2	0.42	11.8
9/16	0.53	14.9
5/8	0.66	18.4
3/4	0.95	26.2
7/8	1.29	35.4
1	1.68	46
1 1/8	2.13	57.9
1 1/4	2.63	71.1

6x31WS (12/6+6/6/1) Warrington Seale
6x36WS (14/7+7/7/1) Warrington Seale

Wire Rope
General Purpose

MADE IN USA

WWR
WASHINGTON WIRE ROPE

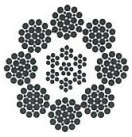


8 x 19 CLASS ROTATION RESISTANT IWRC

Nominal Rope Diameter	Approximate Weight per Foot	STEEL CORE (IWRC) Minimum Breaking Force (Fmin)	STEEL CORE (IWRC) Minimum Breaking Force (Fmin)
Size	IWRC	GRADE EIPS	GRADE EEIPS
In	Lb/Ft	Short Tons US	Short Tons US
1/2	0.48	11.6	12.8
9/16	0.61	14.7	16.2
5/8	0.73	18.1	19.9
3/4	1.06	25.9	28.5
7/8	1.44	35	38.5
1	1.88	45.5	50.1
1 1/8	2.39	57.3	63.0
1 1/4	2.94	70.5	77.6

Wire Rope

General Purpose Non-Domestic

GENERAL CLASSIFICATION	CROSS-SECTION	ACTUAL CONSTRUCTIONS
6 X 19	 6 x 25 Filler Wire*  6 x 21 Filler Wire  6 x 19 Seale*  6 x 26 Warrington Seale	6 strands containing 15 through 26 wires, with a maximum of 12 outside wires. **Construction Count (Inside to Outside)** 6 x 25 (FW): 1 - 6 - (6) - 12 6 x 21 (FW): 1 - 5 - (5) - 10 6 x 19 (S): 1 - 9 - 9 6 x 26 (WS): 1 - 5 - (5+5)-10 *Also available in Fiber Core
6 X 37	 6 x 36 Warrington Seale*  6 x 41 Warrington Seale  6 x 31 Warrington Seale	6 strands containing 27 through 49 wires, with a maximum of 18 outside wires. **Construction Count (Inside to Outside)** 6 x 36 (WS): 1 - 7 - (7+7) - 14 6 x 41 (WS): 1 - 8 - (8+8) - 16 6 x 31 (WS): 1 - 6 - (6+6) - 12 *Also available in Fiber Core
19 X 7 Rotation-Resistant	 19 x 7	19 strands containing 7 wires each. The 7 x 7 core is left lang lay, the 12 outer strands are right regular lay. These directional changes result in a rotation-resistant characteristic.
8 x 19 Rotation-Resistant	 8 x 25 Filler Wire	8 strands containing 15 through 26 wires each. Using a 7 x 7 wire core in left lang lay, coupled with 8 outer strands of right regular lay again promote rotation- resistant properties.

Wire Rope
General Purpose Non-Domestic

General-Purpose Wire Rope

DIA. INCHES	6 x 19 • 6 x 37 CLASS Fibre Core - I.P.S.		6 x 19 • 6 x 37 CLASS Independent Wire Rope Core-E.I.P.S.		
	Weight Lbs./Ft	Nominal Strength Tons-BRT.	Weight Lbs./Ft	Nominal Strength-Tons BRT.	Nominal Strength-Tons GALV.
3/16	.059	1.55	—	—	—
1/4	.105	2.74	.116	3.40	3.06
5/16	.164	4.26	.18	5.27	4.74
3/8	.236	6.10	.26	7.55	6.80
7/16	.32	8.27	.35	10.2	9.18
1/2	.42	10.7	.46	13.3	12.00
9/16	.53	13.5	.59	16.8	—
5/8	.66	16.7	.72	20.6	18.50
3/4	.95	23.8	1.04	29.4	26.50
7/8	1.29	32.2	1.42	39.8	35.80
1	1.68	41.8	1.85	51.7	46.50
1 1/8	2.13	52.6	2.34	65.0	—
1 1/4	2.63	64.6	2.89	79.9	—
1 3/8	—	—	3.50	96.0	—
1 1/2	3.78	92.0	4.16	114.0	—

Rotation Resistant Wire Rope

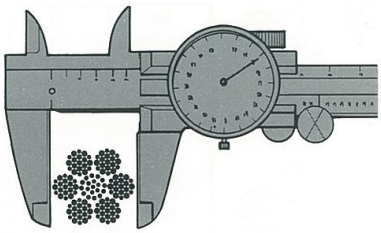
DIA. INCHES	19 x 7 E.I.P.S.		8 x 25 I.W.R.C. • E.I.P.S.	
	Weight Lbs./Ft	Nominal Strength-Tons	Weight Lbs./Ft	Nominal Strength-Tons
3/16	.064	1.57	—	—
1/4	.113	2.77	—	—
5/16	.177	4.30	—	—
3/8	.252	6.15	—	—
7/16	.346	8.33	—	—
1/2	.431	10.8	.47	11.6
9/16	.577	13.6	.60	14.7
5/8	.714	16.8	.73	18.1
3/4	1.02	24.0	1.06	25.9
7/8	1.39	32.5	1.44	35.0
1	1.82	42.2	1.88	45.5
1 1/8	2.30	53.1	—	—

Diameter Tolerance

Nominal Diameter	Tolerance In. (-0)	Maximum Dia.-In.
3/64"	+.008	.055
1/16"	+.010	.073
3/32"	+.012	.106
1/8"	+.014	.139
5/32"	+.016	.172
3/16"	+.018	.206
7/32"	+.018	.237
1/4"	+.015	.265
5/16"	+.015	.328
3/8"	+.019	.394
7/16"	+.021	.459
1/2"	+.025	.525
9/16"	+.028	.591
5/8"	+.031	.656
3/4"	+.038	.788
7/8"	+.044	.919
1"	+.050	1.050
1 1/8"	+.056	1.181
1 1/4"	+.063	1.313
1 3/8"	+.069	1.444
1 1/2"	+.075	1.575

Above tolerances refer to: Aircraft Cable, 3/64" thru 7/32" Wire Rope, 1/4" thru 1 1/2".

HOW TO MEASURE WIRE ROPE



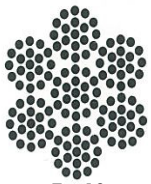
The true diameter of wire rope is measured at it's largest point.

WARNING: The nominal strengths listed throughout this publication are the results of testing under ideal conditions: straight pull, no bending, ambient temperatures, with loading applied at a gradual speed. In most applications, the applied load should not exceed 20% of the nominal strengths.

Wire Rope
AirCraft Cable & Strands

Galvanized Aircraft Cable • Type 304 Stainless-Steel Aircraft Cable

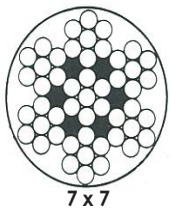

7 x 7

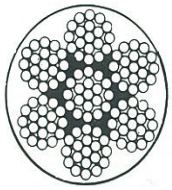

7 x 19

Dia. Inches	7 x 7			7 x 19		
	Weight Lbs./M Ft.	Nominal Strength-Lbs.		Weight Lbs./M Ft.	Nominal Strength-Lbs.	
		GAC	SSAC		GAC	SSAC
1/16	7.5	480	480	—	—	—
3/32	16	920	920	17	1,000	920
1/8	28	1,700	1,700	29	2,000	1,760
5/32	43	2,600	2,400	45	2,800	2,400
3/16	62	3,700	3,700	65	4,200	3,700
7/32	—	—	—	86	5,600	—
1/4	—	—	—	110	7,000	6,400
5/16	—	—	—	173	9,800	9,000
3/8	—	—	—	243	14,400	12,000

Some items also available in Type 316 Stainless Steel

Vinyl Coated G.A.C. (P.V.C.)


7 x 7


7 x 19

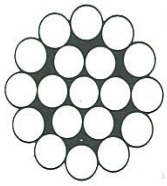
Cable Dia. - O.D.	Construction	Weight Lbs./M Ft.	Nominal Strength/Lbs.
1/16 - 1/8	7 x 7	11.8	480
3/32 - 3/16	7 x 7	25.8	920
1/8 - 3/16	7 x 7	35.2	1,700
1/8 - 3/16	7 x 19	36.2	2,000
3/16 - 1/4	7 x 19	77.5	4,200
7/32 - 9/32	7 x 19	103	5,600
1/4 - 5/16	7 x 19	123	7,000

Standard coating is clear P.V.C. Also available upon request: Nylon coating, colored P.V.C. and Nylon, coated Stainless Steel, other sizes and constructions.

Note: If the full strength of the bare cable is required, plastic must be stripped from cable, with the fittings attached in direct contact with the cable.

Single - Wire Strands • E.H.S. Galvanized • Type 304 Stainless Steel


1 x 7


1 x 19

Dia. Inches	Construction	Weight Lbs./M Ft.	Nominal Strength ~ Lbs.	
			E.H.S. GALV.	Stainless Steel
1/16	1 x 19	8.5	500	500
3/32	1 x 19	20	1,200	1,200
1/8	1 x 19	35	2,100	2,100
5/32	1 x 19	55	—	3,300
3/16	1 x 19	77	—	4,700
3/16	1 x 7	73	3,990	—
1/4	1 x 7	117	6,650	—
5/16	1 x 7	205	11,200	—
3/8	1 x 7	273	15,400	18,000
1/2	1 x 7	517	26,900	—

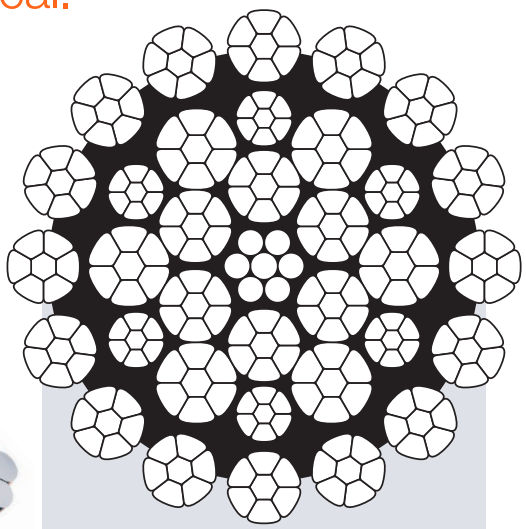
Wire Rope
Rotation Resistant

verope USA rely on

A superior balanced rope when resistance to rotation becomes most critical.

verotop

is a very flexible rotation-resistant rope with compacted strands.





- verotop has a very high breaking strength.
- verotop achieves very good bending fatigue results.
- verotop offers excellent resistance to crushing and abrasion.
- verotop possesses perfect spooling behavior on multilayer drum.
- verotop can be used either with or without swivel.
- verotop is a category 1 rotation-resistant rope in accordance with ASTM A1023.

The rope is fully lubricated. The finish available is either bright or galvanized. • Average fill factor 0.738 • Lay type: Lang Lay Rope Category Number (RCN) to determine the number of visible broken outer wires, signaling discard of rope acc. ISO 4309: RCN = 23-2
Further details: www.verope.com/en/RCN

Wire Rope
Rotation Resistant

verope USA rely on

Nominal rope diameter		Approx mass	Minimum breaking force			
			Rope grade			
			1960		2160	
mm*	Inch	kg/m	kN	t	kN	t
8	5/16	0.313	61.1	6.2	62.7	6.4
9		0.397	77.3	7.9	79.4	8.1
10		0.490	95.4	9.7	98.0	10
11	7/16	0.593	115.5	11.8	118.6	12.1
12		0.705	137.4	14	141.2	14.4
12.7	1/2	0.790	153.9	15.7	158.1	16.1
13		0.828	161.3	16.4	165.7	16.9
14		0.960	187.0	19.1	192.2	19.6
15		1.102	214.7	21.9	220.6	22.5
16	5/8	1.254	244.3	24.9	251.0	25.6
17		1.415	275.8	28.1	283.3	28.9
18		1.587	309.2	31.5	317.7	32.4
19	3/4	1.768	344.5	35.1	353.9	36.1
20		1.959	381.7	38.9	392.2	40
21		2.160	420.8	42.9	432.4	44.1
22		2.371	461.9	47.1	474.5	48.4
22.4		2.458	478.8	48.8	491.9	50.1
23		2.591	504.8	51.4	518.6	52.9
24		2.821	549.7	56	564.7	57.5
25		3.061	596.4	60.8	612.8	62.4
25.4	1	3.160	615.7	62.7	632.5	64.5
26		3.311	645.1	65.7	662.8	67.5
27		3.571	695.7	70.9	714.7	72.8
28		3.840	748.2	76.2	768.7	78.3
28.6	1-1/8	4.006	780.6	79.5	802.0	81.7
29		4.119	802.6	81.8	824.5	84
30		4.408	858.9	87.5	882.4	89.9
31		4.707	917.1	93.4	942.2	96
32	1-1/4	5.015	977.2	99.6	1004	102.3
33		5.334	1039	105.9	1068	108.8
34		5.662	1103	112.4	1133	115.5
35	1-3/8	6.000	1169	119.1	1201	122.4
36		6.348	1237	126	1271	129.5
38	1-1/2	7.072	1378	140.4	1416	144.3
40		7.837	1527	155.6	1569	159.8
41		8.233	1604	163.5	1648	167.9
42		8.640	1683	171.5	1729	176.2
43		9.056	1764	179.8	1813	184.7
44		9.482	1848	188.3	1898	193.4
45	1-3/4	9.918	1932	196.9	1985	202.3
46		10.364	2019	205.8	2075	211.4
48		11.285	2199	224	2259	230.2
50	2	12.245	2386	243.1	2451	249.8
52		13.244	2580	262.9	2651	270.1
54	2-1/8	14.282	2783	283.6		
56		15.360	2993	305		

Nominal rope diameter		Approx mass		Minimum breaking force tons[1] of 2000 lbs	
				Rope grade	
mm*	Inch	lb/ft[1]	kg/ft[1]	1960	2160
8	5/16	0.21	0.1	6.9	7.1
9		0.27	0.12	8.7	8.9
10		0.33	0.15	10.7	11
11	7/16	0.4	0.18	13	13.3
12		0.47	0.22	15.4	15.9
12.7	1/2	0.53	0.24	17.3	17.8
13		0.56	0.25	18.1	18.6
14		0.65	0.29	21	21.6
15		0.74	0.34	24.1	24.8
16	5/8	0.84	0.38	27.5	28.2
17		0.95	0.43	31	31.8
18		1.07	0.48	34.8	35.7
19	3/4	1.19	0.54	38.7	39.8
20		1.32	0.6	42.9	44.1
21		1.45	0.66	47.3	48.6
22		1.59	0.72	51.9	53.3
22.4		1.65	0.75	53.8	55.3
23		1.74	0.79	56.7	58.3
24		1.9	0.86	61.8	63.5
25		2.06	0.93	67	68.9
25.4	1	2.12	0.96	69.2	71.1
26		2.22	1.01	72.5	74.5
27		2.4	1.09	78.2	80.3
28		2.58	1.17	84.1	86.4
28.6	1-1/8	2.69	1.22	87.7	90.1
29		2.77	1.26	90.2	92.7
30		2.96	1.34	96.5	99.2
31		3.16	1.44	103.1	105.9
32	1-1/4	3.37	1.53	109.8	112.8
33		3.58	1.63	116.8	120
34		3.8	1.73	124	127.4
35	1-3/8	4.03	1.83	131.4	135
36		4.27	1.94	139	142.8
38	1-1/2	4.75	2.16	154.9	159.1
40		5.27	2.39	171.6	176.3
41		5.53	2.51	180.3	185.2
42		5.81	2.63	189.2	194.4
43		6.09	2.76	198.3	203.8
44		6.37	2.89	207.7	213.3
45	1-3/4	6.66	3.02	217.2	223.2
46		6.96	3.16	227	233.2
48		7.58	3.44	247.1	253.9
50	2	8.23	3.73	268.2	275.5
52		8.9	4.04	290	298
54		9.6	4.35	312.8	
56		10.32	4.68	336.4	

* Standard tolerance: +2% to +4%, other tolerances possible upon agreement.
Other and special rope diameters are available upon request.

1) The values are indicative only. Authoritative figures remain the metric ones!

Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range.
Subject to modifications, this may change the specifications. Relevant is our website.

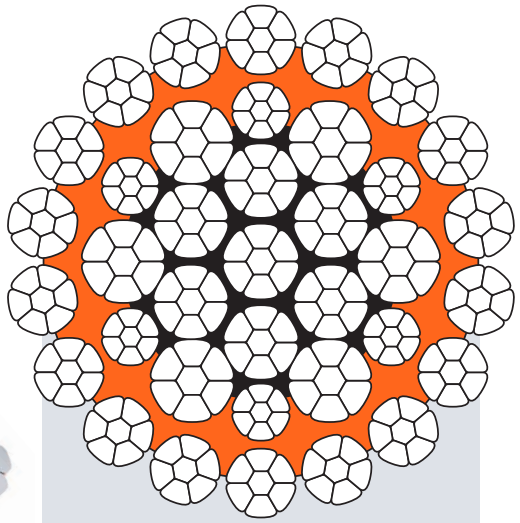
Wire Rope
Rotation Resistant

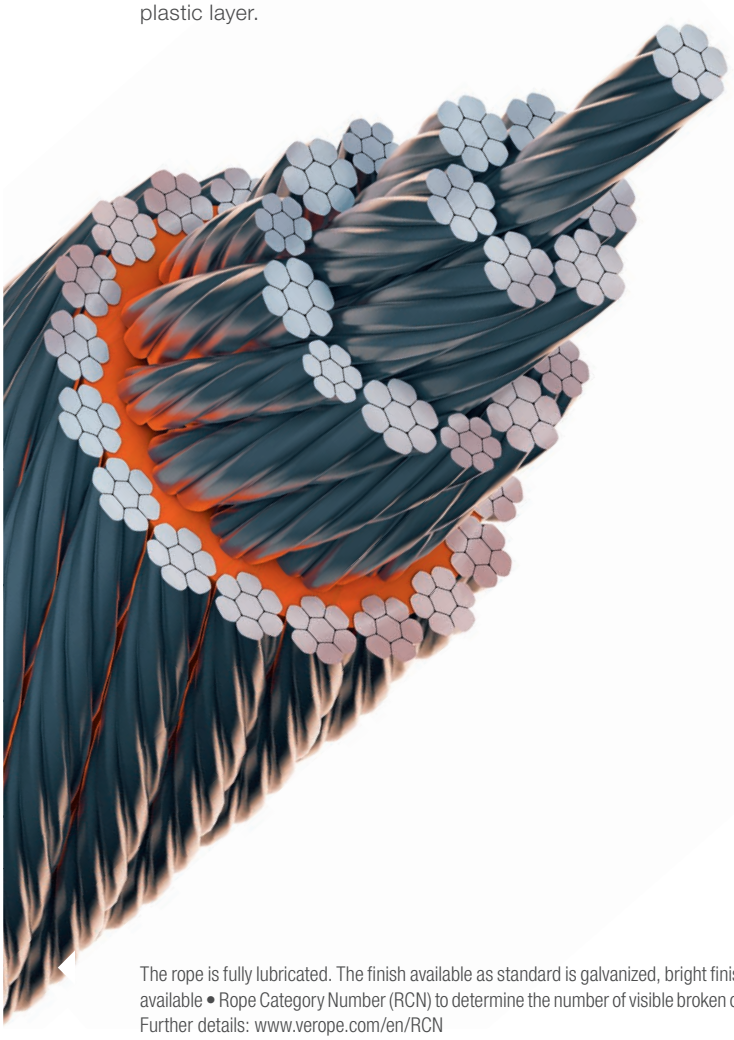
verope USA rely on

Provides a very stable rope structure and achieves excellent bending fatique results.

verotop P

is a rotation-resistant rope with compacted strands and a rope core covered with a plastic layer.





- verotop P has a very high breaking strength.
- verotop P provides a very stable rope structure and achieves excellent bending fatigue results.
- verotop P offers excellent crushing and very good abrasion resistance.
- verotop P possesses perfect spooling behavior on multilayer drum.
- verotop P can be used either with or without swivel.
- verotop P is a category 1 rotation-resistant rope in accordance with ASTM A1023.

The rope is fully lubricated. The finish available as standard is galvanized, bright finish on request. • Average fill factor 0.730 • Ordinary or Lang Lay available • Rope Category Number (RCN) to determine the number of visible broken outer wires, signaling discard of rope acc. ISO 4309: RCN = 23-3
Further details: www.verope.com/en/RCN

Wire Rope
Rotation Resistant

verope USA rely on

Nominal rope diameter		Approx mass	Minimum breaking force			
			Rope grade			
			1960		2160	
mm*	Inch	kg/m	kN	t	kN	t
16	5/8	1.248	241.7	24.6	252.7	25.7
17		1.408	272.8	27.8	285.3	29.1
18		1.579	305.8	31.2	319.8	32.6
19	3/4	1.759	340.8	34.7	356.3	36.3
20		1.949	377.6	38.5	394.8	40.2
21		2.149	416.3	42.4	435.3	44.4
22		2.359	456.9	46.6	477.7	48.7
22.4		2.445	473.6	48.3	495.3	50.5
23		2.578	499.3	50.9	522.2	53.2
24		2.807	543.7	55.4	568.6	57.9
25		3.046	590.0	60.1	616.9	62.9
25.4	1	3.144	609.0	62.1	636.8	64.9
26		3.294	638.1	65	667.3	68
27		3.553	688.1	70.1	719.6	73.3
28		3.821	740.1	75.4	773.9	78.9
28.6	1-1/8	3.986	772.1	78.7	807.4	82.3
29		4.099	793.9	80.9	830.1	84.6
30		4.386	849.6	86.6	888.4	90.5
31		4.683	907.1	92.4	948.6	96.7
32	1-1/4	4.990	966.6	98.5	1011	103
33		5.307	1028	104.7	1075	109.5
34		5.634	1091	111.2	1141	116.3
35	1-3/8	5.970	1156	117.8	1209	123.2
36		6.316	1223	124.7	1279	130.4
38	1-1/2	7.037	1363	138.9	1425	145.2
40		7.797	1510	153.9	1579	160.9
42		8.597	1665	169.7	1741	177.4
43		9.011	1745	177.9	1825	186
44		9.435	1827	186.2	1911	194.7
45	1-3/4	9.869	1911	194.8	1999	203.7
46		10.312	1997	203.5	2089	212.8
48		11.228	2175	221.6	2274	231.7
50	2	12.183	2360	240.5	2468	251.5
52		13.178	2552	260.1	2669	272
54	2-1/8	14.211	2753	280.5	2878	293.3

* Standard tolerance: +2% to +4%, other tolerances possible upon agreement.
Other and special rope diameters are available upon request.

Nominal rope diameter		Approx mass		Minimum breaking force tons[1] of 2000 lbs	
				Rope grade	
mm*	Inch	lb/ft[1]	kg/ft[1]	1960	2160
16	5/8	0.84	0.38	27.2	28.4
17		0.95	0.43	30.7	32.1
18		1.06	0.48	34.4	35.9
19	3/4	1.18	0.54	38.3	40.1
20		1.31	0.59	42.4	44.4
21		1.44	0.66	46.8	48.9
22		1.58	0.72	51.4	53.7
22.4		1.64	0.75	53.2	55.7
23		1.73	0.79	56.1	58.7
24		1.89	0.86	61.1	63.9
25		2.05	0.93	66.3	69.3
25.4	1	2.11	0.96	68.5	71.6
26		2.21	1	71.7	75
27		2.39	1.08	77.3	80.9
28		2.57	1.16	83.2	87
28.6	1-1/8	2.68	1.22	86.8	90.8
29		2.75	1.25	89.2	93.3
30		2.95	1.34	95.5	99.9
31		3.15	1.43	102	106.6
32	1-1/4	3.35	1.52	108.6	113.6
33		3.57	1.62	115.5	120.8
34		3.79	1.72	122.7	128.3
35	1-3/8	4.01	1.82	130	135.9
36		4.24	1.93	137.5	143.8
38	1-1/2	4.73	2.15	153.2	160.2
40		5.24	2.38	169.8	177.5
42		5.78	2.62	187.2	195.7
43		6.06	2.75	196.2	205.1
44		6.34	2.88	205.4	214.8
45	1-3/4	6.63	3.01	214.9	224.7
46		6.93	3.14	224.5	234.8
48		7.55	3.42	244.5	255.6
50	2	8.19	3.71	265.2	277.4
52		8.85	4.02	286.9	300
54		9.55	4.33	309.4	323.5

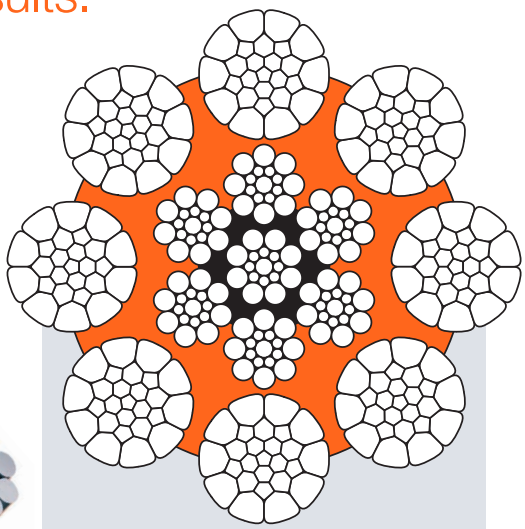
1) The values are indicative only. Authoritative figures remain the metric ones!

Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range.
Subject to modifications, this may change the specifications. Relevant is our website.

Wire Rope
Non-Rotation Resistant

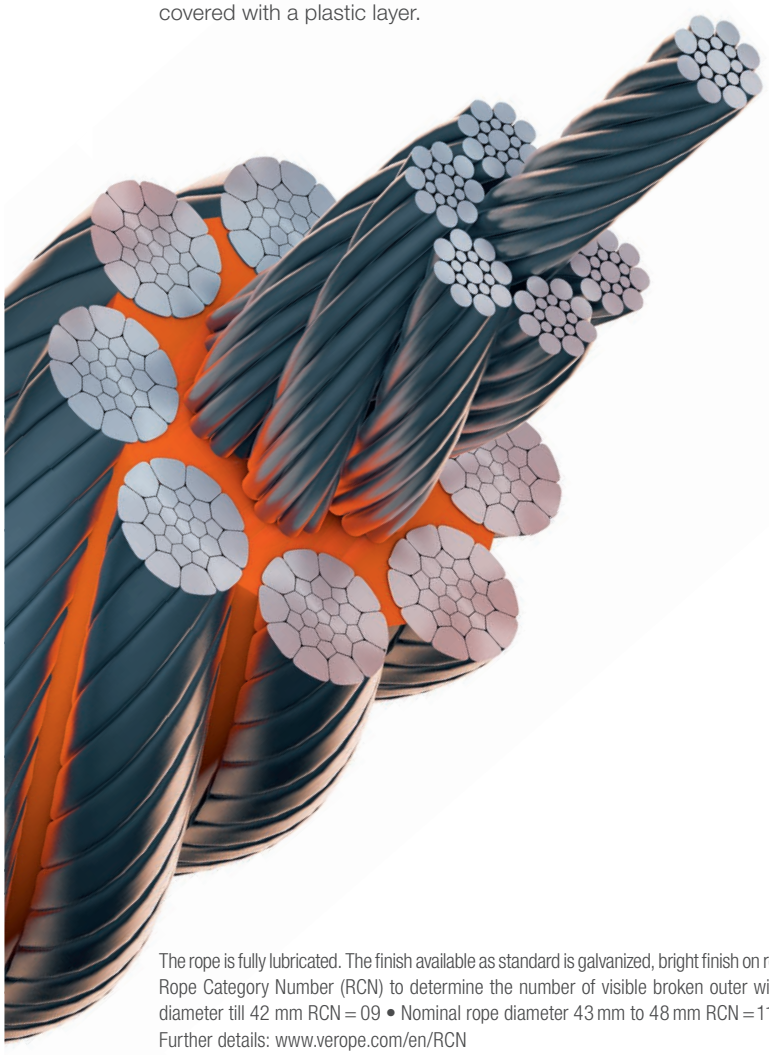
verope USA rely on

Rope with very high structural stability, achieves excellent bending fatigue results.



veropro 8

is an 8-strand, non-rotation-resistant rope with compacted outer strands and a rope core covered with a plastic layer.



- vero**pro 8** has a very high breaking strength.
- vero**pro 8** has a very stable rope structure and achieves excellent bending fatigue results.
- vero**pro 8** offers excellent resistance to crushing and abrasion.
- vero**pro 8** possesses perfect spooling behavior on multilayer drum.
- vero**pro 8** may not be used with a swivel.

The rope is fully lubricated. The finish available as standard is galvanized, bright finish on request. • Average fill factor 0.666 • Ordinary or Lang Lay available Rope Category Number (RCN) to determine the number of visible broken outer wires, signaling discard of rope acc. ISO 4309 • Nominal rope diameter till 42 mm RCN = 09 • Nominal rope diameter 43 mm to 48 mm RCN = 11 • Nominal rope diameter above 48 mm RCN = 13
Further details: www.verope.com/en/RCN

Wire Rope
Non-Rotation Resistant

verope USA rely on

Nominal rope diameter		Approx mass	Minimum breaking force					
			Rope grade					
			1770		1960		2160	
mm*	Inch	kg/m	kN	t	kN	t	kN	t
8	5/16	0.288	52.1	5.3	57.7	5.9	60.6	6.2
9		0.364	66.0	6.7	73.0	7.4	76.7	7.8
10		0.450	81.5	8.3	90.1	9.2	94.7	9.6
11	7/16	0.544	98.6	10	109.1	11.1	114.6	11.7
12		0.648	117.3	12	129.8	13.2	136.3	13.9
12.7	1/2	0.726	131.4	13.4	145.4	14.8	152.7	15.6
13		0.760	137.7	14	152.3	15.5	160.0	16.3
14		0.882	159.7	16.3	176.7	18	185.6	18.9
15		1.012	183.3	18.7	202.8	20.7	213.0	21.7
16	5/8	1.152	208.6	21.3	230.7	23.5	242.4	24.7
17		1.300	235.5	24	260.5	26.5	273.6	27.9
18		1.457	264.0	26.9	292.0	29.8	306.8	31.3
19	3/4	1.624	294.2	30	325.4	33.2	341.8	34.8
20		1.799	325.9	33.2	360.5	36.7	378.7	38.6
21		1.984	359.3	36.6	397.5	40.5	417.5	42.5
22		2.177	394.4	40.2	436.2	44.5	458.3	46.7
22.4		2.257	408.9	41.7	452.2	46.1	475.1	48.4
23		2.380	431.0	43.9	476.8	48.6	500.9	51
24		2.591	469.3	47.8	519.1	52.9	545.4	55.6
25		2.812	509.3	51.9	563.3	57.4	591.8	60.3
25.4	1	2.902	525.7	53.6	581.5	59.3	610.8	62.2
26		3.041	550.8	56.1	609.3	62.1	640.0	65.2
27		3.279	594.0	60.5	657.0	67	690.2	70.3
28		3.527	638.8	65.1	706.6	72	742.3	75.6
28.6	1-1/8	3.680	666.5	67.9	737.2	75.1	774.5	78.9
29		3.783	685.3	69.8	758.0	77.2	796.3	81.1
30		4.049	733.4	74.7	811.1	82.7	852.1	86.8
31		4.323	783.1	79.8	866.1	88.3	909.9	92.7
32	1-1/4	4.606	834.4	85	922.9	94	969.5	98.8
33		4.899	887.4	90.4	981.5	100	1031	105.1
34		5.200	941.9	96	1042	106.2	1095	111.5
35	1-3/8	5.511	998.2	101.7	1104	112.5	1160	118.2
36		5.830	1056	107.6	1168	119	1227	125
38	1-1/2	6.496	1177	119.9	1301	132.6	1367	139.3
40		7.198	1304	132.9	1442	146.9	1515	154.4
41.3	1-5/8	7.673	1390	141.6	1537	156.7	1615	164.6
42		7.935	1437	146.5	1590	162	1670	170.2
44		8.709	1578	160.7	1745	177.8	1833	186.8
45	1-3/4	9.109	1650	168.1	1825	186	1917	195.4
46		9.519	1724	175.7	1907	194.3	2003	204.2
47.5	1-7/8	10.150	1838	187.3	2034	207.2	2136	217.7
48		10.364	1877	191.3	2077	211.6	2181	222.3
50	2	11.246	2037	207.6	2253	229.6	2367	241.2
52		12.164	2203	224.5	2437	248.3	2560	260.9
54	2-1/8	13.117	2376	242.1	2628	267.8	2761	281.3
56		14.107	2555	260.4	2826	288		
58		15.133	2741	279.3	3032	309		
60	2-3/8	16.194	2933	298.9	3245	330.6		

Nominal rope diameter		Approx mass		Minimum breaking force tons[1] of 2000 lbs		
				Rope grade		
mm*	Inch	lb/ft[1]	kg/ft[1]	1770	1960	2160
8	5/16	0.19	0.09	5.9	6.5	6.8
9		0.24	0.11	7.4	8.2	8.6
10		0.3	0.14	9.2	10.1	10.6
11	7/16	0.37	0.17	11.1	12.3	12.9
12		0.44	0.2	13.2	14.6	15.3
12.7	1/2	0.49	0.22	14.8	16.3	17.2
13		0.51	0.23	15.5	17.1	18
14		0.59	0.27	18	19.9	20.9
15		0.68	0.31	20.6	22.8	23.9
16	5/8	0.77	0.35	23.4	25.9	27.2
17		0.87	0.4	26.5	29.3	30.8
18		0.98	0.44	29.7	32.8	34.5
19	3/4	1.09	0.5	33.1	36.6	38.4
20		1.21	0.55	36.6	40.5	42.6
21		1.33	0.6	40.4	44.7	46.9
22		1.46	0.66	44.3	49	51.5
22.4		1.52	0.69	46	50.8	53.4
23		1.6	0.73	48.4	53.6	56.3
24		1.74	0.79	52.8	58.4	61.3
25		1.89	0.86	57.2	63.3	66.5
25.4	1	1.95	0.88	59.1	65.4	68.7
26		2.04	0.93	61.9	68.5	71.9
27		2.2	1	66.8	73.9	77.6
28		2.37	1.08	71.8	79.4	83.4
28.6	1-1/8	2.47	1.12	74.9	82.9	87
29		2.54	1.15	77	85.2	89.5
30		2.72	1.23	82.4	91.2	95.8
31		2.9	1.32	88	97.4	102.3
32	1-1/4	3.1	1.4	93.8	103.7	109
33		3.29	1.49	99.7	110.3	115.9
34		3.49	1.59	105.9	117.1	123
35	1-3/8	3.7	1.68	112.2	124.1	130.4
36		3.92	1.78	118.7	131.3	137.9
38	1-1/2	4.36	1.98	132.3	146.3	153.7
40		4.84	2.19	146.5	162.1	170.3
41.3	1-5/8	5.16	2.34	156.2	172.8	181.5
42		5.33	2.42	161.6	178.7	187.7
44		5.85	2.66	177.3	196.1	206
45	1-3/4	6.12	2.78	185.5	205.1	215.5
46		6.4	2.9	193.8	214.4	225.2
47.5	1-7/8	6.82	3.09	206.6	228.6	240.1
48		6.96	3.16	211	233.4	245.2
50	2	7.56	3.43	229	253.3	266.1
52		8.17	3.71	247.7	273.9	287.8
54	2-1/8	8.81	4	267.1	295.4	310.3
56		9.48	4.3	287.2	317.7	
58		10.17	4.61	308.1	340.8	
60	2-3/8	10.88	4.94	329.7	364.7	

* Standard tolerance: +2% to +4%, other tolerances possible upon agreement.
Other and special rope diameters are available upon request.

1) The values are indicative only. Authoritative figures remain the metric ones!

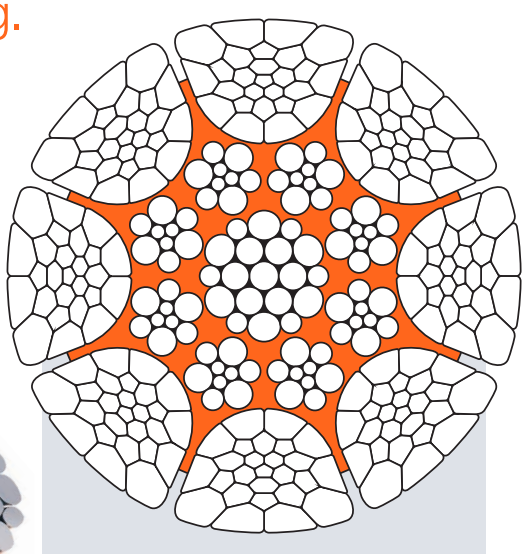
Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range.
Subject to modifications, this may change the specifications. Relevant is our website.

Wire Rope
Non-Rotation Resistant

verope USA rely on

Provides the highest breaking strength of all non-rotation-resistant ropes and offers superior resistance to drum crushing.

veropower 8



is a rotary swaged 8-strand, non-rotation-resistant rope in parallel lay construction with compacted outer strands and a rope core covered with a plastic layer.



- vero**power 8** is the strongest of all non-rotation-resistant ropes.
- vero**power 8** has a very stable rope structure and achieves good bending fatigue results.
- vero**power 8** offers superior crushing resistance and excellent resistance to abrasion.
- vero**power 8** possesses perfect spooling behavior on multilayer drum.
- vero**power 8** may not be used with a swivel.

The rope is fully lubricated. The finish available as standard is galvanized, bright finish on request. • Average fill factor 0.747 • Lay type: Ordinary Lay Rope Category Number (RCN) to determine the number of visible broken outer wires, signaling discard of rope acc. ISO 4309 • Nominal rope diameter till 40 mm RCN = 09 • Nominal rope diameter 41 mm to 46 mm RCN = 11 • Nominal rope diameter above 46 mm RCN = 13
Further details: www.verope.com/en/RCN

Wire Rope

Non-Rotation Resistant

verope USA rely on

Nominal rope diameter		Approx mass	Minimum breaking force			
			Rope grade			
			1960		2160	
mm*	Inch	kg/m	kN	t	kN	t
12		0.717	147.4	15	158.8	16.2
12.7	1/2	0.803	165.1	16.8	177.9	18.1
13		0.842	173.0	17.6	186.4	19
14		0.976	200.6	20.4	216.2	22
15		1.121	230.3	23.5	248.2	25.3
16	5/8	1.275	262.0	26.7	282.3	28.8
17		1.440	295.8	30.1	318.7	32.5
18		1.614	331.6	33.8	357.3	36.4
19	3/4	1.798	369.5	37.6	398.1	40.6
20		1.992	409.4	41.7	441.2	45
21		2.197	451.3	46	486.4	49.6
22		2.411	495.3	50.5	533.8	54.4
22.4		2.499	513.5	52.3	553.4	56.4
23		2.635	541.4	55.2	583.4	59.5
24		2.869	589.5	60.1	635.3	64.7
25		3.113	639.6	65.2	689.3	70.2
25.4	1	3.214	660.3	67.3	711.5	72.5
26		3.367	691.8	70.5	745.6	76
27		3.631	746.1	76	804.0	81.9
28		3.905	802.4	81.8	864.7	88.1
28.6	1-1/8	4.074	837.1	85.3	902.1	91.9
29		4.189	860.7	87.7	927.5	94.5
30		4.483	921.1	93.9	992.6	101.1
31		4.787	983.5	100.2	1060	108
32	1-1/4	5.101	1048	106.8	1129	115.1
33		5.424	1115	113.6	1201	122.4
34		5.758	1183	120.6	1275	129.9
35	1-3/8	6.102	1254	127.8	1351	137.7
36		6.455	1326	135.2	1429	145.7
38	1-1/2	7.193	1478	150.6	1593	162.3
40		7.970	1637	166.9	1765	179.8
41.3	1-5/8	8.496	1746	177.9	1881	191.7
42		8.787	1805	184	1946	198.2
44		9.643	1981	201.9	2135	217.6
45	1-3/4	10.09	2072	211.2	2233	227.6
46		10.54	2166	220.7	2334	237.8
47.5	1-7/8	11.24	2309	235.3	2488	253.6
48		11.48	2358	240.3	2541	258.9

Nominal rope diameter		Approx mass		Minimum breaking force tons[1] of 2000 lbs	
				Rope grade	
mm*	Inch	lb/ft[1]	kg/ft[1]	1960	2160
12		0.48	0.22	16.6	17.9
12.7	1/2	0.54	0.24	18.6	20
13		0.57	0.26	19.4	21
14		0.66	0.3	22.5	24.3
15		0.75	0.34	25.9	27.9
16	5/8	0.86	0.39	29.4	31.7
17		0.97	0.44	33.2	35.8
18		1.08	0.49	37.3	40.2
19	3/4	1.21	0.55	41.5	44.8
20		1.34	0.61	46	49.6
21		1.48	0.67	50.7	54.7
22		1.62	0.74	55.7	60
22.4		1.68	0.76	57.7	62.2
23		1.77	0.8	60.9	65.6
24		1.93	0.87	66.3	71.4
25		2.09	0.95	71.9	77.5
25.4	1	2.16	0.98	74.2	80
26		2.26	1.03	77.8	83.8
27		2.44	1.11	83.9	90.4
28		2.62	1.19	90.2	97.2
28.6	1-1/8	2.74	1.24	94.1	101.4
29		2.81	1.28	96.7	104.3
30		3.01	1.37	103.5	111.6
31		3.22	1.46	110.5	119.1
32	1-1/4	3.43	1.56	117.8	126.9
33		3.64	1.65	125.3	135
34		3.87	1.76	133	143.3
35	1-3/8	4.1	1.86	140.9	151.9
36		4.34	1.97	149.1	160.7
38	1-1/2	4.83	2.19	166.1	179
40		5.36	2.43	184.1	198.3
41.3	1-5/8	5.71	2.59	196.2	211.4
42		5.9	2.68	202.9	218.7
44		6.48	2.94	222.7	240
45	1-3/4	6.78	3.08	232.9	251
46		7.08	3.21	243.4	262.3
47.5	1-7/8	7.55	3.43	259.5	279.7
48		7.71	3.5	265	285.6

* Standard tolerance: +2% to +4%, other tolerances possible upon agreement.
Other and special rope diameters are available upon request.

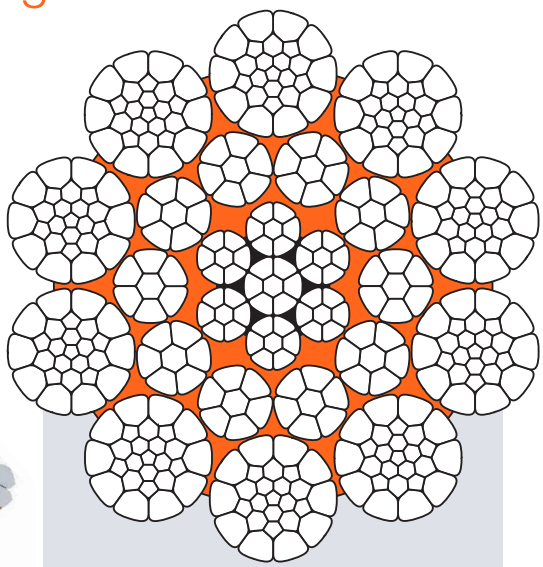
1) The values are indicative only. Authoritative figures remain the metric ones!

Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range.
Subject to modifications, this may change the specifications. Relevant is our website.

Wire Rope
Non-Rotation Resistant

verope USA rely on

Combines unmatched bending fatigue resistance with excellent breaking strength.



verotech 10

is a very flexible 10-strand, non-rotation-resistant rope in parallel lay construction with compacted strands and a rope core covered with a plastic layer.



- verotech 10 provides excellent breaking strength.
- verotech 10 has a very stable rope structure and achieves unmatched bending fatigue resistance.
- verotech 10 offers excellent resistance to crushing and abrasion.
- verotech 10 possesses perfect spooling behavior on multilayer drum.
- verotech 10 may not be used with a swivel.

The rope is fully lubricated. The finish available as standard is galvanized, bright finish on request. • Average fill factor 0.732 • Lay type: Ordinary Lay Rope Category Number (RCN) to determine the number of visible broken outer wires, signaling discard of rope acc. ISO 4309: RCN = 11
Further details: www.verope.com/en/RCN

Wire Rope
Non-Rotation Resistant

verope USA rely on

Nominal rope diameter		Approx mass	Minimum breaking force			
			Rope grade			
			1960		2160	
mm*	Inch	kg/m	kN	t	kN	t
6		0.178	34.9	3.6	38.0	3.9
7		0.242	47.5	4.8	51.7	5.3
8	5/16	0.316	62.0	6.3	67.6	6.9
9		0.400	78.5	8	85.5	8.7
10		0.494	96.9	9.9	105.6	10.8
11	7/16	0.598	117.3	12	127.7	13
12		0.712	139.5	14.2	152.0	15.5
12.7	1/2	0.797	156.3	15.9	170.2	17.3
13		0.836	163.8	16.7	178.4	18.2
14		0.969	189.9	19.4	206.9	21.1
15		1.112	218.0	22.2	237.5	24.2
16	5/8	1.266	248.1	25.3	270.2	27.5
17		1.429	280.1	28.5	305.1	31.1
18		1.602	314.0	32	342.0	34.8
19	3/4	1.785	349.8	35.6	381.0	38.8
20		1.978	387.6	39.5	422.2	43
21		2.180	427.4	43.6	465.5	47.4
22		2.393	469.0	47.8	510.9	52.1
22.4		2.481	486.2	49.5	529.6	54
23		2.616	512.6	52.2	558.4	56.9
24		2.848	558.2	56.9	608.0	62
25		3.090	605.7	61.7	659.7	67.2
25.4	1	3.190	625.2	63.7	681.0	69.4
26		3.342	655.1	66.8	713.5	72.7
27		3.604	706.5	72	769.5	78.4
28		3.876	759.8	77.4	827.5	84.3
28.6	1-1/8	4.044	792.7	80.8	863.4	88
29		4.158	815.0	83	887.7	90.5
30		4.450	872.2	88.9	950.0	96.8
31		4.751	931.3	94.9	1014	103.3
32	1-1/4	5.063	992.3	101.1	1081	110.2
33		5.384	1055	107.5	1149	117.1
34		5.716	1120	114.1	1220	124.3

* Standard tolerance: +2% to +4%, other tolerances possible upon agreement.
Other and special rope diameters are available upon request.

Nominal rope diameter		Approx mass		Minimum breaking force tons[1] of 2000 lbs	
				Rope grade	
mm*	Inch	lb/ft[1]	kg/ft[1]	1960	2160
6		0.12	0.05	3.9	4.3
7		0.16	0.07	5.3	5.8
8	5/16	0.21	0.1	7	7.6
9		0.27	0.12	8.8	9.6
10		0.33	0.15	10.9	11.9
11	7/16	0.4	0.18	13.2	14.4
12		0.48	0.22	15.7	17.1
12.7	1/2	0.54	0.24	17.6	19.1
13		0.56	0.25	18.4	20.1
14		0.65	0.3	21.3	23.3
15		0.75	0.34	24.5	26.7
16	5/8	0.85	0.39	27.9	30.4
17		0.96	0.44	31.5	34.3
18		1.08	0.49	35.3	38.4
19	3/4	1.2	0.54	39.3	42.8
20		1.33	0.6	43.6	47.5
21		1.47	0.66	48	52.3
22		1.61	0.73	52.7	57.4
22.4		1.67	0.76	54.6	59.5
23		1.76	0.8	57.6	62.8
24		1.91	0.87	62.7	68.3
25		2.08	0.94	68.1	74.2
25.4	1	2.14	0.97	70.3	76.5
26		2.25	1.02	73.6	80.2
27		2.42	1.1	79.4	86.5
28		2.6	1.18	85.4	93
28.6	1-1/8	2.72	1.23	89.1	97
29		2.79	1.27	91.6	99.8
30		2.99	1.36	98	106.8
31		3.19	1.45	104.7	114
32	1-1/4	3.4	1.54	111.5	121.5
33		3.62	1.64	118.6	129.1
34		3.84	1.74	125.9	137.1

1) The values are indicative only. Authoritative figures remain the metric ones!

Errors and omissions excepted! The cross-section shows a typical rope diameter and can vary within the range.
Subject to modifications, this may change the specifications. Relevant is our website.

Wire Rope Cutters
Manual Cutters

MORSE STARRETT

Manual Cutters

The original portable tools invented in 1928 by Morse-Starrett to cut wire rope. Actuated by striking with a hammer, they are easy to operate and give superior performance without jamming. They are precision-engineered to deliver a clean cut without affecting the original roundness of the wire rope. The blades and dies are made of the finest tool steel available, heat-treated, and ground to close tolerances.

Click on each model for details.



Model 1
3/4" capacity



Model 1A
1 1/16" capacity



Model 2
1 1/2" capacity

Cordage
3-Strand Twisted

erin rope corporation

3 Strand Natural Fiber Manila Rope



- The strongest of all natural fiber ropes.
- Premium grade with 36 minimum becker value.

Part Number	Diameter in in.	Length in ft.	Package Type	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
TWM080100	1/4	100	Coilette	540	2.0	2.0
TWM080600	1/4	600	Carton	540	2.0	12.0
TWM081200	1/4	1,200	Carton	540	2.0	24.0
TWM100600	5/16	600	Carton	900	2.9	17.4
TWM101200	5/16	1,200	Carton	900	2.9	34.8
TWM120100	3/8	100	Coilette	1,215	4.1	4.1
TWM120600	3/8	600	Carton	1,215	4.1	24.6
TWM121200	3/8	1,200	Carton	1,215	4.1	49.2
TWM160100	1/2	100	Coilette	2,385	7.5	7.5
TWM160600	1/2	600	Carton	2,385	7.5	45.0
TWM161200	1/2	1,200	Carton	2,385	7.5	90.0
TWM200100	5/8	100	Coilette	3,960	13.3	13.3
TWM200600	5/8	600	Carton	3,960	13.3	79.9
TWM201200	5/8	1,200	Carton	3,960	13.3	160.0
TWM240100	3/4	100	Coilette	4,860	16.6	16.6
TWM240600	3/4	600	Carton	4,860	16.6	99.6
TWM241200	3/4	1,200	Coil	4,860	16.6	199.0
TWM280600	7/8	600	Coil	6,930	22.5	135.0
TWM281200	7/8	1,200	Coil	6,930	22.5	270.0
TWM320100	1	100	Coil	8,100	27.0	27.0
TWM320600	1	600	Coil	8,100	27.0	162.0
TWM321200	1	1,200	Coil	8,100	27.0	324.0
TWM400100	1-1/4	100	Coil	12,150	41.8	41.8
TWM400600	1-1/4	600	Coil	12,150	41.8	251.0
TWM480100	1-1/2	100	Coil	16,650	60.0	60.0
TWM480600	1-1/2	600	Coil	16,650	60.0	360.0
TWM640100	2	100	Coil	27,900	107.0	107.0
TWM640600	2	600	Coil	27,900	107.0	642.0
TWM960100	3	100	Reel	57,600	241.0	241.0
TWM960300	3	300	Reel	57,600	241.0	723.0
TWM960600	3	600	Coil	57,600	241.0	1,446.0

3 Strand Poly-Dacron Combination Rope



- High tensity polyester fiber wrapped cover over polyolefin core yarns.
- Good abrasion resistance and strength. 5/8" diameter meets ANSI & OSHA Standards for fall protection ropes.

Part Number	Diameter in in.	Length in ft.	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
PDTW080600	1/4	600	1,300	1.7	10.2
PDTW081200	1/4	1,200	1,300	1.7	20.4
PDTW120600	3/8	600	2,881	3.6	21.6
PDTW121200	3/8	1,200	2,881	3.6	43.2
PDTW160600	1/2	600	4,818	6.5	39.0
PDTW161200	1/2	1,200	4,818	6.5	78.0
PDTW200600	5/8	600	7,214	9.5	57.0
PDTW201200	5/8	1,200	7,214	9.5	114.0
PDTW240600	3/4	600	8,443	12.5	75.0
PDTW241200	3/4	1,200	8,443	12.5	150.0
PDTW320600	1	600	17,000	22.0	132.0
PDTW480600	1-1/2	600	34,000	46.0	276.0
PDTW640600	2	600	62,000	82.0	492.0

Cordage
3-Strand Twisted

erin rope corporation

3 Strand White Polyester Rope



• Filament polyester ropes offer lower stretch than nylon ropes with good abrasion resistance and excellent U.V. resistance.

Part Number	Diameter in in.	Length in ft.	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
TWPS081200	1/4	1,200	1,490	2.0	24.0
TWPS120600	3/8	600	3,340	4.5	27.0
TWPS121200	3/8	1,200	3,340	4.5	54.0
TWPS160600	1/2	600	5,750	8.0	48.0
TWPS161200	1/2	1,200	5,750	8.0	96.0
TWPS200600	5/8	600	9,350	13.0	78.0
TWPS201200	5/8	1,200	9,350	13.0	156.0
TWPS240600	3/4	600	11,300	17.5	105.0
TWPS320600	1	600	19,800	30.4	182.4

3 Strand White Nylon Rope



• One of the strongest synthetic fibers, offering superior elasticity and excellent abrasion resistance.

Part Number	Diameter in in.	Length in ft.	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
TWN080100	1/4	100	1,490	1.5	1.5
TWN080600	1/4	600	1,490	1.5	9.0
TWN081200	1/4	1,200	1,490	1.5	18.0
TWN120100	3/8	100	3,340	3.5	3.5
TWN120600	3/8	600	3,340	3.5	21.0
TWN121200	3/8	1,200	3,340	3.5	42.0
TWN160100	1/2	100	5,750	6.5	6.5
TWN160600	1/2	600	5,750	6.5	39.0
TWN161200	1/2	1,200	5,750	6.5	78.0
TWN200100	5/8	100	9,350	10.5	10.5
TWN200600	5/8	600	9,350	10.5	63.0
TWN201200	5/8	1,200	9,350	10.5	126.0
TWN240100	3/4	100	12,800	14.5	14.5
TWN240600	3/4	600	12,800	14.5	87.0
TWN320600	1	600	22,600	26.4	158.4
TWN400600	1-1/4	600	37,500	40.0	240.0
TWN480600	1-1/2	600	53,000	55.0	330.0
TWN640600	2	600	92,000	95.0	570.0

Cordage
3-Strand Twisted

erin rope corporation

3 Strand Yellow Polypropylene Rope



• Premium grade U.V. stabilized polypropylene fiber: versatile, economical, lightweight, floats.

Part Number	Diameter in in.	Length in ft.	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
TWPY060600	3/16	600	720	1	4.2
TWPY061200	3/16	1200	720	1	8.4
TWPY066000	3/16	6000	720	1	42
TWPY080100	1/4	100	1250	1	1.2
TWPY080300	1/4	300	1250	1	3.6
TWPY080600	1/4	600	1250	1	7.2
TWPY081200	1/4	1200	1250	1	14
TWPY082400	1/4	2400	1250	1	29
TWPY085000	1/4	5000	1250	1	60
TWPY100600	5/16	600	1710	2	11
TWPY101200	5/16	1200	1710	2	22
TWPY120100	3/8	100	2440	3	2.8
TWPY120300	3/8	300	2440	3	8.4
TWPY120600	3/8	600	2440	3	17
TWPY121200	3/8	1200	2440	3	34
TWPY122400	3/8	2400	2440	3	67
TWPY123600	3/8	3600	2440	3	101
TWPY160100	1/2	100	3780	5	4.7
TWPY160300	1/2	300	3780	5	14
TWPY160600	1/2	600	3780	5	28
TWPY161200	1/2	1200	3780	5	56
TWPY162400	1/2	2400	3780	5	113
TWPY200100	5/8	100	5600	8	7.5
TWPY200600	5/8	600	5600	8	45
TWPY201200	5/8	1200	5600	8	90
TWPY202400	5/8	2400	5600	8	180
TWPY240100	3/4	100	7650	11	11
TWPY240300	3/4	300	7650	11	32
TWPY240600	3/4	600	7650	11	64
TWPY241200	3/4	1200	7650	11	128
TWPY320100	1	100	12600	18	18
TWPY320600	1	600	12600	18	108
TWPY321200	1	1200	12600	18	216
TWPY400600	1-1/4	600	18900	27	162
TWPY480600	1-1/2	600	26800	38	230
TWPY640600	2	600	46800	69	414

Cordage
3-Strand Twisted

erin rope corporation

3 Strand White Polypropylene Rope



• Premium grade U.V. stabilized polypropylene fiber: versatile, lightweight, floats.

Part Number	Diameter in in.	Length in ft.	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
TWPW061200	3/16	1,200	720	0.7	8.4
TWPW062400	3/16	2,400	720	0.7	16.8
TWPW081200	1/4	1,200	1,250	1.2	7.2
TWPW082400	1/4	2,400	1,250	1.2	14.4
TWPW100600	5/16	600	1,710	1.8	7.2
TWPW101200	5/16	1,200	1,710	1.8	14.4
TWPW120600	3/8	600	2,440	2.8	16.8
TWPW121200	3/8	1,200	2,440	2.8	33.6
TWPW160600	1/2	600	3,780	4.7	28.2
TWPW161200	1/2	1,200	3,780	4.7	56.4
TWPW200600	5/8	600	5,600	7.5	45.0
TWPW240600	3/4	600	7,650	10.7	64.0

3 Strand Yellow/Yellow/Black Polypropylene Barrier Rope



• Premium grade U.V. stabilized polypropylene fiber: versatile, lightweight, floats.

Part Number	Diameter in in.	Length in ft.	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
TWPW061200	3/16	1,200	720	0.7	8.4
TWPW062400	3/16	2,400	720	0.7	16.8
TWPW081200	1/4	1,200	1,250	1.2	7.2
TWPW082400	1/4	2,400	1,250	1.2	14.4

3 Strand Poly-Random Leaving Line



• Made from varying colors and sizes of yarns.

Part Number	Diameter in in.	Length in ft.	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
TPR480600	1-1/2	600	N/A	33.5	201
TPR640600	2	600	N/A	59.9	359

Cordage
3-Strand Twisted

erin rope corporation

3 Strand Tan/Manila Polypropylene Rope



• Stronger, lighter, and less expensive than natural fiber manila rope; film polypropylene yarn, holds knot well.

Part Number	Diameter in in.	Length in ft.	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
TWPM062400	3/16	2,400	720	0.7	16.8
TWPM080600	1/4	600	1,250	1.2	7.2
TWPM081200	1/4	1,200	1,250	1.2	14.4
TWPM082400	1/4	2,400	1,250	1.2	28.8
TWPM100600	5/16	600	1,710	1.8	10.8
TWPM120600	3/8	600	2,440	2.8	16.8
TWPM160600	1/2	600	3,780	4.7	28.2
TWPM200600	5/8	600	5,600	7.5	45.0
TWPM240600	3/4	600	7,650	10.7	64.2
TWPM320600	1	600	12,600	18.0	108.0
TWPM400600	1-1/4	600	18,900	27.0	162.0
TWPM480600	1-1/2	600	26,800	38.0	230.0
TWPM640600	2	600	46,800	69.0	414.0

3 Strand White/White/Blue Polypropylene Rope



• Premium grade U.V. stabilized fiber: versatile, lightweight, floats.

Part Number	Diameter in in.	Length in ft.	Miniumum Break Strength in lbs.	Approximate Density lbs./100 ft.	Approximate Package Weight
TWPBW080600	1/4	600	1,250	1.2	7.2
TWPBW120600	3/8	600	2,440	2.8	16.8
TWPBW121200	3/8	1,200	2,440	2.8	33.6
TWPBW160600	1/2	600	3,780	4.7	28.2
TWPBW240300	3/4	300	7,650	10.7	32.1
TWPBW240600	3/4	600	7,650	10.7	64.2

Cordage
Double Braid

CORTLAND

TECH SHEET



Nylon Double Braid

Nylon Double Braid is the preferred choice for applications requiring high strength with excellent shock absorbing properties.
Double Braid has good resistance to abrasion, sunlight and chemicals. Due to its high elongation, nylon is almost always used in applications involving shock loading such as anchor lines and mooring lines.

Nylon Double Braid is delivered standard with an overlay marine finish.

Features & Benefits
- High stretch
- High strength
- Excellent shock absorption
- Soft hand
- Torque free
- Meets MIL-DTL-24050E

Applications
- Anchor lines
- Mooring lines
- Shock absorbers
- Pendants
- Towlines
- Towed array stretchers

Type approved product

Nominal Diameter		Size (circ in.)	Approximate Weight		Minimum Tensile Strength	
Inch	MM		Lbs/100ft	Kg/100m	Lbs	kN
1/4	6	3/4	1.7	2.5	1,900	8.5
5/16	8	1	2.6	3.9	2,900	12.9
3/8	9	1-1/8	3.7	5.5	4,200	18.7
7/16	11	1-1/4	5.1	7.6	5,700	25.4
1/2	12	1-1/2	6.6	9.8	7,400	32.9
9/16	14	1-3/4	9.0	13.4	10,200	45.4
ABS and DNV Type Approved Sizes						
5/8	16	2	11.6	17.2	14,800	65.8
3/4	18	2-1/4	14.7	21.9	19,000	84.5
7/8	22	2-3/4	21.8	32.4	28,300	125.9
1	24	3	26.0	38.7	33,500	149.0
1-1/16	26	3-1/4	31.0	46.1	39,000	173.5
1-1/8	28	3-1/2	35.4	52.7	44,900	199.7
1-1/4	30	3-3/4	40.7	60.6	52,300	232.6
1-5/16	32	4	46.3	68.9	58,800	261.6
1-1/2	36	4-1/2	58.4	86.9	74,000	329.2
1-5/8	40	5	72.3	107.6	92,400	411.0
1-3/4	44	5-1/2	87.7	130.5	110,900	493.3
2	48	6	103.9	154.6	131,500	584.9
2-1/8	52	6-1/2	122.0	181.6	152,800	679.7
2-1/4	56	7	141.2	210.1	181,000	805.1
2-1/2	60	7-1/2	162.6	242.0	201,000	894.1
2-5/8	64	8	185.1	275.5	222,000	987.5
2-3/4	68	8-1/2	201.2	299.4	248,000	1103.2
3	72	9	234.3	348.7	277,000	1232.2
3-1/4	80	10	288.9	430.0	341,000	1516.8
3-5/8	88	11	349.9	520.7	409,000	1819.3
4	96	12	416.2	619.4	475,000	2112.9
4-1/4	104	13	481.5	716.6	549,000	2442.1

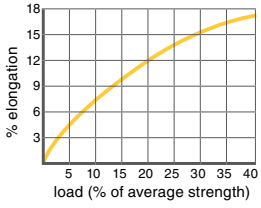
Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d2) plus 4%. See reverse side for application and safety information.

Please note that the Minimum Tensile Strengths of Black Nylon Double Braid products are normally 10% below published specifications. Type Approval of Nylon Double Braid does not apply to Black Nylon Double Braid.

Specific gravity	**1.14***
Melting point	**414°F (212°C)**
Critical temp.	**300°F (149°C)**
Coefficient of friction	**0.12-.15***
Elongation at break	**30%-35%**
Fiber water absorption	**3-4%**
UV resistance	**good**
Wet abrasion	**excellent**
Dry abrasion	**excellent**

* value based on data supplied by the fiber manufacturer for new, dry fiber

Elongation (%)



Cordage
Double Braid

CORTLAND

TECH SHEET



Polyester Double Braid

Polyester Double Braid provides an excellent combination of high strength, low stretch, excellent weathering and easy handling.
Of all the popular fibers polyester has the best weathering characteristics and the best wet abrasion resistance. Polyester Double Braid is identified with one external black marker.

Polyester Double Braid is delivered standard with an overlay marine finish and is available on special order with a spliceable polyurethane finish in clear or any of six colors.

Features & Benefits
- Low stretch
- High strength
- Soft hand
- Torque free
- Excellent wet strength
- Meets MIL-DTL-24677B

Applications
- Winch lines
- Utility pulling lines
- Towing lines
- Offshore anchor and lifting lines
- Arborist bull ropes
- Theatrical rigging lines

Type approved product

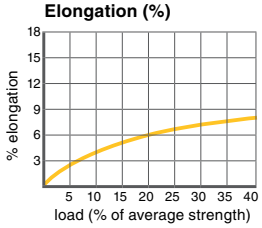
Nominal Diameter		Size (circ in.)	Approximate Weight		Minimum Tensile Strength	
Inch	MM		Lbs/100ft	Kg/100m	Lbs	kN
1/4	6	3/4	2.4	3.6	2,400	10.7
5/16	8	1	3.6	5.4	3,600	16.0
3/8	9	1-1/8	4.8	7.1	4,800	21.4
7/16	11	1-1/4	6.3	9.4	6,300	28.0
1/2	12	1-1/2	8.6	12.8	8,400	37.4
9/16	14	1-3/4	11.1	16.5	10,750	47.8
ABS and DNV Type Approved Sizes						
5/8	16	2	13.1	19.5	12,300	54.7
3/4	18	2-1/4	18.8	28.0	17,400	77.4
7/8	22	2-3/4	25.6	38.1	24,000	106.8
1	24	3	33.5	49.9	31,200	138.8
1-1/8	28	3-1/2	42.4	63.1	39,500	175.7
1-1/4	30	3-3/4	52.3	77.8	48,100	214.0
1-5/16	32	4	57.8	86.0	53,100	236.2
1-1/2	36	4-1/2	75.4	112.2	64,300	286.0
1-5/8	40	5	88.2	131.3	77,800	346.1
1-3/4	44	5-1/2	103.0	153.3	89,200	396.8
2	48	6	134.0	199.4	110,000	489.3
2-1/8	52	6-1/2	151.0	224.7	124,000	551.6
2-1/4	56	7	169.0	251.5	141,000	627.2
2-1/2	60	7-1/2	209.0	311.0	170,000	756.2
2-5/8	64	8	231.0	343.8	186,000	827.4
2-3/4	68	8-1/2	265.0	394.4	206,000	916.3
3	72	9	301.0	447.9	237,000	1054.2
3-1/4	80	10	354.0	526.8	292,000	1298.9
3-5/8	88	11	440.0	654.8	348,000	1548.0
4	96	12	536.0	797.7	401,000	1783.7
4-1/4	104	13	605.0	900.4	454,000	2019.5

Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d2) plus 4%. See reverse side for application and safety information.

Specific gravity	**1.38***
Melting point	**482°F (250°C)**
Critical temp.	**350°F (177°C)**
Coefficient of friction	**0.12-.15***
Elongation at break	**30%-35%**
Fiber water absorption	**12-20%**
UV resistance	**excellent**
Wet abrasion	**excellent**
Dry abrasion	**excellent**

* value based on data supplied by the fiber manufacturer for new, dry fiber

Elongation (%)



Cordage
High Performance Double Braid

CORTLAND



TECH SHEET

D/S Composite Double Braid

D/S Composite is a double braided rope with the inner core made of Spectra® and the outer sleeve of polyester. D/S Composite has very low elongation, high strength and the feel and handling of polyester double braid. It is identified with two external black markers.

D/S Composite is delivered standard with an overlay marine finish and is available on special order with a spliceable polyurethane finish in clear or any of six colors.

Features & Benefits
- High strength
- Low stretch
- Soft hand
- Torque free
- Easy splicing

Applications
- Utility winch lines
- Utility pulling lines
- Crane lines
- Vessel mooring lines
- Theatrical rigging

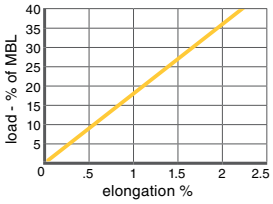
Nominal Diameter		Size (circ in.)	Approximate Weight		Minimum Tensile Strength	
Inch	MM		Lbs/100ft	Kg/100m	Lbs	kN
7/16	11	**1-1/4**	**6.1**	9.0	**9,900**	44.0
1/2	12	**1-1/2**	**8.3**	12.3	**13,950**	62.0
9/16	14	**1-3/4**	**10.1**	15.0	**18,800**	83.6
5/8	16	**2**	**12.5**	18.6	**24,600**	109.4
3/4	18	**2-1/4**	**15.9**	23.7	**31,500**	140.1
7/8	22	**2-3/4**	**24.9**	37.1	**44,800**	199.3
1	24	**3**	**30.8**	45.8	**51,600**	229.5
1-1/8	28	**3-1/2**	**36.8**	54.8	**65,500**	291.4
1-1/4	30	**3-3/4**	**42.6**	63.4	**72,700**	323.4
1-5/16	32	**4**	**49.7**	74.0	**79,500**	353.6
1-1/2	36	**4-1/2**	**64.0**	95.2	**100,000**	444.8
1-5/8	40	**5**	**76.0**	113.1	**120,000**	533.8
1-3/4	44	**5-1/2**	**89.8**	133.6	**139,000**	618.3
2	48	**6**	**107.0**	159.2	**165,000**	734.0
2-1/8	52	**6-1/2**	**125**	186	**183,000**	814.0
2-1/4	56	**7**	**141**	209.8	**215,000**	956.4
2-1/2	64	**7-1/2**	**174**	258.9	**236,000**	1049.8

Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d²) plus 4%. See reverse side for application and safety information.

Specific gravity	**1.20***
Melting point	**284°F (140°C)**
Critical temp.	**150°F (65°C)**
Coefficient of friction	**0.12-.15***
Elongation at break	**6%-8%**
Fiber water absorption	**0-1%**
UV resistance	**excellent**
Wet abrasion	**excellent**
Dry abrasion	**excellent**

* value based on data supplied by the fiber manufacturer for new, dry fiber

Elongation (%)



Cordage
High Performance Double Braid

CORTLAND



TECH SHEET

G/T Composite Double Braid

G/T Composite ropes provide high strength, low stretch, and superior abrasion resistance in a firm round jacketed construction. The ropes are constructed with a braided Plasma® core. This core is encased in a tightly braided jacket of a new generation HMPE fiber which offers the highest abrasion resistance and durability.

G/T Composite ropes can be used in mooring applications where a very high strength, firm, round, torque free rope is desired, and in commercial fishing as wire rope replacement and helicopter longlines. These ropes are available with a polyurethane finish in clear or any of six colors, and are designed to withstand drum compression on mooring winches.

Features & Benefits
- Highest strength
- Lowest stretch
- Low creep
- Firm hand
- Torque free

Applications
- Commercial fishing lines
- Helicopter longlines
- Vessel mooring lines

Nominal Diameter		Size Number (circ)	Approximate Weight		Minimum Tensile Strength	
Inch	MM		Lbs/100ft	Kg/100m	Pounds	kN
3/4	18	**2-1/4**	**16.3**	24.2	**58,000**	258.0
7/8	22	**2-3/4**	**20.4**	30.4	**70,900**	315.4
1	24	**3**	**24.5**	36.4	**75,600**	336.3
1-1/8	28	**3-1/2**	**33.1**	49.3	**95,000**	422.6
1-1/4	30	**4**	**36.0**	53.6	**113,000**	502.7
1-3/8	34	**4-1/4**	**49.1**	73.1	**157,000**	698.4
1-1/2	36	**4-1/2**	**55.7**	82.9	**183,400**	815.8
1-5/8	40	**5**	**64.2**	95.5	**201,000**	894.1
1-3/4	44	**5-1/2**	**79.5**	118.3	**228,000**	1014.2
2	48	**6**	**88.9**	132.3	**242,400**	1078.3

Tensile strengths are determined in accordance with Cordage Institute 1500-97, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload ($200D^2$) plus 4%.

Specific gravity	**.98**
Melting point	**284°F (140°C)**
Critical temp.	**150°F (66°C)**
Coefficient of friction	**0.12-0.15**
Elongation at break	**4%-5%**
Fiber water absorption	**0%-1%**
UV resistance	**excellent**
Wet abrasion	**superior**
Dry abrasion	**superior**

Cordage
12-Strand

CORTLAND



TECH SHEET

Nylon 12 Plait

Nylon 12 Plait provides high strength, high elongation and excellent abrasion resistance in a single braid construction. Nylon 12 Plait is easily spliced using a standard tuck splice and is 25% stronger than three strand or 8 plait nylon. Its torque free braided construction provides easy handling and prevents kinks and hockles.

Nylon 12 Plait is available standard with an overlay marine finish.

Features & Benefits
- High stretch
- High strength
- Excellent shock absorption
- Soft hand
- Torque free
- Easy splicing

Applications
- Mooring lines
- Anchor lines
- KERR towing Lines
- Tug hawsers and stretchers
- Commercial fishing nets
- Security barriers

Type approved product

Nominal Diameter		Size Number (circ)	Approximate Weight		Minimum Tensile Strength	
Inch	MM		Lbs/100ft	Kg/100m	Pounds	kN
5/8	16	**2**	**11.0**	16.4	**13,900**	61.8
3/4	18	**2-1/4**	**15.0**	22.3	**17,900**	79.6
7/8	22	**2-3/4**	**22.6**	33.6	**26,200**	116.5
1	24	**3**	**26.3**	39.1	**30,100**	133.9
1-1/8	28	**3-1/2**	**33.8**	50.3	**39,400**	175.3
1-1/4	30	**3-3/4**	**39.5**	58.8	**45,400**	201.9
1-5/16	32	**4**	**45.1**	67.1	**51,200**	227.7
1-1/2	36	**4-1/2**	**56.4**	83.9	**64,800**	288.2
1-5/8	40	**5**	**67.7**	100.8	**76,300**	339.4
1-3/4	44	**5-1/2**	**79.0**	117.6	**92,100**	409.7
2	48	**6**	**95.9**	142.7	**106,500**	473.7
2-1/8	52	**6-1/2**	**113**	168.2	**128,000**	569.4
2-1/4	56	**7**	**135**	200.9	**152,000**	676.1
2-1/2	60	**7-1/2**	**152**	226.2	**170,000**	756.2
2-5/8	64	**8**	**169**	251.5	**189,000**	840.7
2-3/4	68	**8-1/2**	**192**	285.7	**214,000**	951.9
3	72	**9**	**222**	330.4	**245,000**	1089.8
3-1/4	80	**10**	**271**	403.3	**288,000**	1281.1
3-5/8	88	**11**	**321**	477.7	**338,000**	1503.5
4	96	**12**	**389**	578.9	**418,000**	1859.4

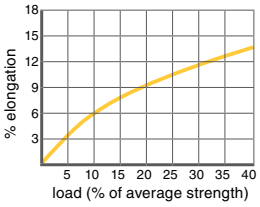
Tensile Strengths are determined In accordance with Cordage Institute 1500, Test Methods for Fiber Rope. With extended immersion in water, all nylon ropes will lose up to 10% of their strength. Weights are calculated at linear density under standard preload ($200d^2$) plus 7%. See reverse side for application and safety information.

Please note that the Minimum Tensile Strengths of Black Nylon 12 Plait products are normally 15% below published specifications. Type approval of Nylon 12 Plait does not apply to Black Nylon 12 Plait.

Specific gravity	**1.14***
Melting point	**414°F (212°C)***
Critical temp.	**300°F (149°C)***
Coefficient of friction	**0.12-0.15***
Elongation at break	**30%-35%**
Fiber water absorption	**3%-5%**
UV resistance	**good**
Wet abrasion	**excellent**
Dry abrasion	**excellent**

* value based on data supplied by the fiber manufacturer for new, dry fiber

Elongation (%)



Cordage

HIgh Performance 12-Strand

CORTLAND

TECH SHEET



Plasma® 12 Strand

Plasma® 12 strand is the highest strength synthetic rope available. Plasma® 12 strand is manufactured from High Modulus Polyethylene (HMPE) that has been enhanced by Cortland's patented recrystallization process. This process is especially effective in medium to large diameter ropes where strengths are over 50% higher and creep is significantly less than that of standard Spectra® 12 strand.

Plasma® 12 strand is delivered standard with a polyurethane finish and is easily spliced using a simple lockstitch type splice, 4-3-2 or 5-4-3 Tuck Splice. Its soft, torque free braided construction provides easy handling.

Features & Benefits

- Highest strength
- Lowest stretch
- Low creep
- Soft hand
- Torque-free
- Easy splicing
- Floats

Applications

- Replacement for wire rope
- Vessel mooring lines
- Inland river barge lines
- Lifting slings
- Recreational vehicle winch lines
- Utility winch and pulling lines
- Theatrical rigging

Type approved product

ABS

DNV

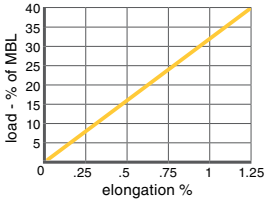
	Nominal Diameter		Size (circ in.)	Approximate Weight		Minimum Tensile Strength	
	Inch	MM		Lbs/100ft	K g/100m	Lbs	Te (tonnes)
12 Strand	0.04	1	0.12	0.05	0.1	270	0.1
	0.05	1.25	0.15	0.07	0.1	390	0.2
	0.06	1.5	0.18	0.1	0.1	475	0.2
	0.07	1.75	0.21	0.14	0.2	750	0.3
	0.1	2.5	0.3	0.27	0.4	1,400	0.6
	1/8	3	3/8	0.54	0.8	2,800	1.3
	3/16	5	9/16	1.12	1.7	5,500	2.5
	1/4	6	3/4	1.6	2.4	8,000	3.6
	5/16	8	15/16	2.5	3.7	11,700	5.3
	3/8	9	1-1/8	3.7	5.5	17,500	7.9
	ABS and DNV Type Approved Sizes						
12 Strand	7/16	11	1-1/4	4.2	6.3	21,000	9.5
	1/2	12	1-1/2	6.4	9.5	31,300	14.2
	9/16	14	1-3/4	7.9	11.8	37,900	17.2
	5/8	16	2	10.6	15.8	51,400	23.3
	3/4	18	2-1/4	13.3	19.8	68,500	31.1
	13/16	20	2-1/2	15.9	23.7	74,000	33.6
	7/8	22	2-3/4	19.6	29.2	92,600	42.0
	1	24	3	23.4	34.8	110,000	49.9
	1-1/16	26	3-1/4	27.5	40.9	129,200	58.6
	1-1/8	28	3-1/2	31.9	47.5	147,000	66.7
	1-1/4	30	3-3/4	36.2	53.9	165,000	74.9
	1-5/16	32	4	41.7	62.1	196,000	88.9
	1-1/2	36	4-1/2	51.7	76.9	221,000	100.3

Tensile Strengths are determined in accordance with Cordage Institute 1500.2. Test Methods for Fiber Rope. Minimum Tensile Strength (MTS) published assumes spliced eye terminations at each end of the rope. Weights actually calculated at linear density under stated preload (200d2) plus 4%. Diameter and circumference size published is nominal and reflects rope size after loading (10 cycles) to 50% of MTS. See reverse side for application and safety information. Spectra® is a Trademark of Honeywell.

Specific gravity	.98*
Melting point	284°F (140°C)
Critical temp.	150°F (65°C)
Coefficient of friction	0.09-.012*
Elongation at break	4%-5%
Fiber water absorption	0%
UV resistance	moderate
Wet abrasion	superior
Dry abrasion	superior

* value based on data supplied by the fiber manufacturer for new, dry fiber

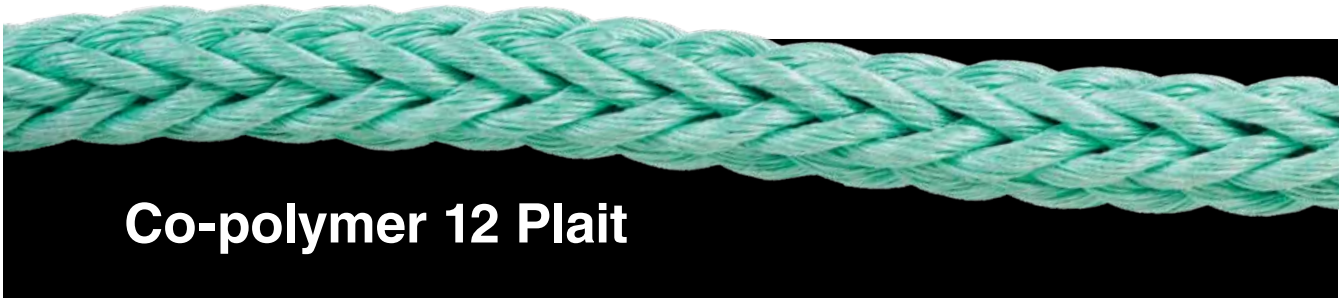
Elongation (%)



Cordage
High Performance 12-Strand

CORTLAND

TECH SHEET



Co-polymer 12 Plait

Co-polymer Olefin 12 plait provides high strength, light weight and excellent abrasion resistance in a single braid construction.
Co-polymer Olefin 12 Plait is easily spliced using a standard Tuck Splice and is 40% stronger than three strand or 8 plait polypropylene. Its torque free braided construction provides easy handling and prevents kinks and hockles.

Features & Benefits
- Floats
- High strength
- Excellent abrasion resistance
- Torque free
- Easy splicing
- Excellent UV resistance

Applications
- Floating mooring lines for barges/vessels
- Floating winch lines
- Subsea buoy moorings
- Lashings

Type approved product

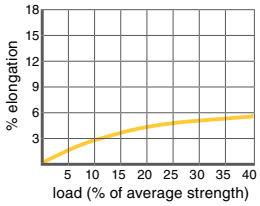
Nominal Diameter		Size (circ in.)	Approximate Weight		Minimum Tensile Strength	
Inch	MM		Lbs/100ft	Kg/100m	Lbs	Kn
5/8	16	**2**	**8.6**	12.8	**9,500**	42.3
3/4	18	**2-1/4**	**10.8**	16.1	**11,900**	52.9
7/8	22	**2-3/4**	**14.0**	20.8	**15,400**	68.5
1	24	**3**	**20.3**	30.2	**22,300**	99.2
1-1/8	28	**3-1/2**	**24.5**	36.5	**26,900**	119.7
1-1/4	30	**3-3/4**	**27.0**	40.2	**29,700**	132.1
1-5/16	32	**4**	**31.9**	47.5	**34,000**	151.2
1-1/2	36	**4-1/2**	**39.2**	58.3	**41,000**	182.4
1-5/8	40	**5**	**50.4**	75.0	**54,000**	240.2
1-3/4	44	**5-1/2**	**58.8**	87.5	**62,000**	275.8
2	48	**6**	**71.4**	106.3	**76,000**	338.1
2-1/8	52	**6-1/2**	**84.0**	125.0	**90,000**	400.3
2-1/4	56	**7**	**96.6**	143.8	**103,000**	458.2
2-1/2	60	**7-1/2**	**109.0**	162.2	**115,000**	511.5
2-5/8	64	**8**	**126.0**	187.5	**132,000**	587.2
2-3/4	68	**8-1/2**	**132.0**	196.4	**141,000**	627.2
3	72	**9**	**160.0**	238.1	**170,000**	756.2
3-1/4	80	**10**	**193.0**	287.2	**210,000**	934.1
3-5/8	88	**11**	**238.0**	354.2	**250,000**	1112.1
4	96	**12**	**280.0**	416.7	**295,000**	1312.1

Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d2) plus 4%. See reverse side for application and safety information.

Specific gravity	**0.94***
Melting point	**279°F (137°C)**
Critical temp.	**140°F (60°C)**
Coefficient of friction	**0.16-.018***
Elongation at break	**20%-25%**
Fiber water absorption	**0% - 1%**
UV resistance	**excellent**
Wet abrasion	**very good**
Dry abrasion	**excellent**

* value based on data supplied by the fiber manufacturer for new, dry fiber

Elongation (%)



Cordage
High Performance 12-Strand

CORTLAND

TECH SHEET



Spectra® 12 Strand & 12x12

Spectra® 12 strand provides very high strength, low stretch and excellent abrasion resistance in a single braid construction. The equivalent weight rope is more than 3 times as strong as polyester and has less than one half of the elongation.

Spectra® 12 strand is delivered standard with a polyurethane finish and is easily spliced using a simple lockstitch type splice, 4-3-2 or 5-4-3 Tuck Splice. Its soft, torque free braided construction provides easy handling.

Features & Benefits
- Very low stretch
- Very high strength
- Soft hand
- Torque free
- Easy splicing
- Floats

Applications
- Vessel mooring lines
- Tug winch lines
- Emergency towlines
- Utility winch and pulling lines
- Recreational vehicle winch lines
- Theatrical rigging lines

Type approved product

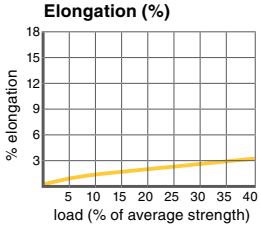
	Nominal Diameter		Size (circ in.)	Approximate Weight		Minimum Tensile Strength	
	Inch	MM		Lbs/100ft	Kg/100m	Lbs	kN
12 Strand	7/64	2.5	5/16	.33	0.5	1,125	5.0
	1/8	3	3/8	.53	0.8	1,800	8.0
	3/16	5	9/16	1.0	1.5	3,600	16.0
	1/4	6	3/4	1.6	2.4	6,000	26.7
	5/16	8	15/16	2.6	3.9	9,000	40.0
	ABS and DNV Type Approved Sizes						
12 Strand	3/8	9	1-1/8	3.7	5.5	13,900	61.8
	7/16	11	1-1/4	4.2	6.3	14,800	65.8
	1/2	12	1-1/2	6.4	9.5	22,500	100.1
	9/16	14	1-3/4	7.9	11.8	27,700	123.2
	5/8	16	2	10.6	15.8	36,600	162.8
	3/4	18	2-1/4	13.3	19.8	43,200	192.2
	7/8	22	2-3/4	19.6	29.2	61,000	271.3
	1	24	3	23.4	34.8	72,000	320.3
	1-1/16	26	3-1/4	27.6	41.1	81,000	360.3
	1-1/8	28	3-1/2	31.9	47.5	91,800	408.3
	1-1/4	30	3-3/4	36.2	53.9	102,600	456.4
	1-5/16	32	4	41.7	62.1	114,300	508.4
	1-1/2	36	4-1/2	51.7	76.9	141,300	628.5
	1-5/8	40	5	65.7	97.8	167,400	744.6
	1-3/4	44	5-1/2	78.4	116.7	198,000	880.7
12x12 Strand	2	48	6	91.4	136.0	225,000	1000.8
	2-1/8	52	6-1/2	109.0	162.2	270,000	1201.0
	2-1/4	56	7	122.0	181.6	317,700	1413.2
	2-1/2	60	7-1/2	148.0	220.3	360,000	1601.4
	2-5/8	64	8	167.0	248.5	370,800	1649.4
	2-3/4	68	8-1/2	187.0	278.3	405,000	1801.5
	3	72	9	214.0	318.5	508,500	2261.9
	3-1/4	80	10	261.0	388.4	616,500	2742.3
	3-5/8	88	11	324.0	482.2	765,000	3402.9
	4	96	12	394.0	586.4	900,000	4003.4

Sizes available up to 8-1/4" diameter (200mm). Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d2) plus 4%. See reverse side for application and safety information.

Specific gravity	**0.98***
Melting point	**284°F (140°C)**
Critical temp.	**150°F (65°C)**
Coefficient of friction	**0.09-.12***
Elongation at break	**6%-8%**
Fiber water absorption	**0%**
UV resistance	**moderate**
Wet abrasion	**superior**
Dry abrasion	**superior**

* value based on data supplied by the fiber manufacturer for new, dry fiber

Elongation (%)



Cordage
High Performance 12-Strand

CORTLAND

TECH SHEET



Technora® 12 Strand & 12x12

Technora® 12 Strand is made with high strength light weight Technora® fiber. The 12 strand braided construction is torque free, and easy to splice. Technora® 12 is extremely heat and flex fatigue resistant. It has no creep making it a good choice for applications with high static loads including mooring cables, hoisting cables, and tower guy wires. Technora® 12 Strand is delivered standard with a black polyurethane coating.

Features & Benefits
- Very high heat resistance
- Zero creep
- Very low stretch
- Very high strength
- Soft hand
- Torque free
- Easy splicing

Applications
- Theatrical rigging lines
- Utility winch and pulling lines
- Recreational vehicle winch lines
- Tower guy wires

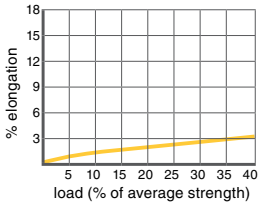
Nominal Diameter		Size (circ in.)	Approximate Weight		Minimum Tensile Strength	
Inch	MM		Lbs/100ft	Kg/100m	Lbs	Kg
1/8	3	**3/8**	**.6**	0.9	**2,520**	1,140
3/16	5	**9/16**	**1.3**	1.9	**5,040**	2,285
1/4	6	**3/4**	**1.9**	2.8	**7,335**	3,320
5/16	8	**15/16**	**3.2**	4.8	**11,700**	5,305
3/8	9	**1-1/8**	**4.3**	6.4	**16,200**	7,350
7/16	11	**1-1/4**	**6.7**	10.0	**25,200**	11,430
1/2	12	**1-1/2**	**8.3**	12.4	**29,700**	13,470
5/8	16	**1-3/4**	**13.5**	20.1	**45,000**	20,410
3/4	18	**2-1/4**	**19.3**	28.7	**59,000**	26,770
7/8	22	**2-3/4**	**25.3**	37.7	**76,000**	34,483
1	24	**3**	**31.1**	46.3	**92,000**	41,742
1-1/8	28	**3-1/2**	**42.3**	63.0	**123,000**	55,800
1-1/4	30	**3-3/4**	**48.1**	71.6	**139,400**	63,250

Sizes available up to 8-1/4" diameter (200mm) and 4,900,000 lbs strength. Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d2) plus 4%. See reverse side for application and safety information.

Specific gravity	**1.39***
Thermal decomposition	**932°F (500°C)**
Elongation at break	**4%-5%**
Fiber water absorption	**0%**
UV resistance	**moderate**
Abrasion resistance	**good**

* value based on data supplied by the fiber manufacturer for new, dry fiber

Elongation (%)



Cordage
Definitions & Specifications

CORTLAND

TECH SHEET

Rope Specifications and Requirements

Rope Specifications

Minimum Tensile Strength Minimum Tensile Strengths shown are for new (unused) rope and will decrease after use. All tests are performed in accordance with Cordage Institute Standard CI 1500-2. The rope strength will be reduced after use due to heat, abrasion, ultraviolet or chemical exposure. The tensile strengths may be further reduced by up to 50% as a result of knots or kinks. Minimum Tensile Strengths are defined as two standard deviations (typical about 10%) below the average.

Maximum Working Loads Maximum Working Loads are determined by dividing the tensile strength by the safety factor. The safety factor is a function of the physical properties of the rope, the age and history of the rope, the type of service it will be subjected to and the risks involved if failure occurs. For a rope manufacturer to give blanket working load recommendations would be like a car manufacturer giving the “safe driving speed” of their cars. Obviously the conditions of use far outweigh the design characteristics of the rope. Typically safety factors vary from 3:1 (for new rope used in applications with uniform loading and where failure would cause little or no risk to equipment or personnel) to 20:1 (for conditions involving moderate shock loading, possibility of snags or kinks or where failure could cause severe risk to equipment or personnel).

Rope Weights Rope Weights shown are average and may vary plus or minus 5%.

Working Elongation Working Elongation is shown from a preload tension of 200 times the diameter squared per the Cordage Institute Standard.

Special Requirements

Factory Splicing Various types are available for all of our ropes. Splices can be provided with various types of chafe protection or coatings.

Custom Lengths Special constructions are available on request.

Rope Terminations Cortland can provide custom terminations such as thimbles, links, rings and custom hardware. Terminations are available in plastic, bronze, stainless steel and galvanized steel. Please call or fax your requirements for a quotation.

Special Coatings Coatings such as polyurethane, polyethylene and vinylesters may be applied to any of the synthetic ropes to improve snag resistance, sunlight resistance or for color coding. Cortland can provide ropes with a variety of finishes to meet your needs.

Commercial and Military Specifications Certificates of compliance are supplied at no charge if requested when placing the order. Certified test reports can be provided at an additional charge when requested at the time of the order.

Chain
Grade 30, 43, 70

MADE IN USA

LACLEDE LC CHAIN

PROOF COIL CHAIN
• GRADE 30 •

DESCRIPTION
- A GENERAL LIGHT PURPOSE CHAIN IDEAL FOR APPLICATIONS REQUIRING A LIGHT DUTY STEEL CHAIN
- AVAILABLE IN SELF COLORED, ELECTRO-GALVANIZED, HOT GALVANIZED, AND POWDER COATED (BY SPECIAL ORDER)



CHAIN SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	WEIGHT PER 100 FT. (LBS.)	MATERIAL DIAMETER (IN.)	INSIDE LENGTH (IN.)	INSIDE WIDTH (IN.)	LONG LINK?
1/8	400	21	0.160	0.90	0.27	
3/16	800	38	0.210	0.95	0.39	
1/4	1,300	59.3	0.275	1.02	0.50	
1/4	1,300	55	0.257	1.24	0.46	✓
5/16	1,900	100	0.330	1.15	0.49	
5/16	1,900	79	0.310	1.30	0.49	✓
3/8	2,650	145	0.397	1.30	0.60	
3/8	2,650	115	0.369	1.45	0.60	✓
1/2	4,500	264	0.486	1.56	0.81	
5/8	6,900	393	0.630	1.87	1.00	
3/4*	10,600	628	0.780	2.71	1.04	

*** = IMPORTED**

• NOT TO BE USED FOR OVERHEAD LIFTING

HIGH TEST CHAIN
• GRADE 43 •

DESCRIPTION
- LOW CARBON STEEL CHAIN IDEAL FOR TIE DOWN APPLICATIONS
- ELECTRICALLY WELDED AND PROOF TESTED
- AVAILABLE AS SELF COLORED, ELECTRO GALVANIZED OR HOT GALVANIZED FINISHES



CHAIN SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	WEIGHT PER 100 FT. (LBS.)	MATERIAL DIAMETER (IN.)	INSIDE LENGTH (IN.)	INSIDE WIDTH (IN.)
1/4	2,600	65	0.267	1.02	0.50
5/16	3,900	93	0.319	1.15	0.49
3/8	5,400	136	0.385	1.30	0.60
1/2	9,200	264	0.496	1.56	0.81
5/8	13,000	393	0.630	1.87	1.00
3/4	20,200	560	0.787	2.76	0.98

• NOT TO BE USED FOR OVERHEAD LIFTING

TRANSPORT CHAIN
• GRADE 70 GOLD CHROMATE •

DESCRIPTION
- ELECTRICALLY WELDED AND HEAT TREATED
- HIGHER STRENGTH TO WEIGHT RATIO
- EASILY RECOGNIZED GOLD CHROMATE FINISH



CHAIN SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	WEIGHT PER 100 FT. (LBS.)	MATERIAL DIAMETER (IN.)	INSIDE LENGTH (IN.)	INSIDE WIDTH (IN.)
1/4	3,150	59	0.267	1.24	0.46
5/16	4,700	93	0.319	1.15	0.49
3/8	6,600	131	0.378	1.30	0.60
7/16	8,750	209	0.458	1.37	0.67
1/2	11,300	240	0.496	1.56	0.81
5/8	15,800	341	0.608	1.93	0.92

• NOT TO BE USED FOR OVERHEAD LIFTING

Sling Chain
Grade 80 & 100

MADE IN USA

LACLEDE CHAIN

OVERHEAD LIFTING CHAIN – ALLOY

LACLEDALLOY CHAIN

• GRADE 100 & GRADE 80 •

DESCRIPTION

LACLEDE'S AMERICAN MADE ALLOY CHAIN IS PRODUCED FROM THE HIGHEST QUALITY DOMESTIC STEEL.



GRADE 100 SPECIFICATIONS

CHAIN SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	WEIGHT PER 100 FT. (LBS.)	MATERIAL DIAMETER (IN.)	INSIDE LENGTH (IN.)	INSIDE WIDTH (IN.)
9/32	4,300	72	0.275	0.88	0.41
5/16	5,700	106	0.330	1.02	0.49
3/8	8,800	150	0.397	1.22	0.57
1/2	15,000	261	0.520	1.56	0.75
5/8	22,600	366	0.630	1.93	0.92
3/4	35,300	638	0.787	2.29	1.02
7/8	42,700	764	0.870	2.25	1.12

GRADE 80 SPECIFICATIONS

CHAIN SIZE (IN.)	WORKING LOAD LIMIT (LBS.)	WEIGHT PER 100 FT. (LBS.)	MATERIAL DIAMETER (IN.)	INSIDE LENGTH (IN.)	INSIDE WIDTH (IN.)
7/32	2,100	46	0.217	0.67	0.32
9/32	3,500	72	0.275	0.88	0.41
5/16	4,500	106	0.330	1.02	0.48
3/8	7,100	150	0.397	1.22	0.57
1/2	12,000	261	0.520	1.56	0.75
5/8	18,100	361	0.630	1.93	0.92
3/4	28,300	598	0.790	2.36	1.02
7/8	34,200	724	0.870	2.60	1.14
1	47,700	1011	1.020	3.07	1.34
1 1/4	72,300	1,579	1.250	3.78	1.63
1 1/2	112,800	1,985	1.500	4.72	2.05

Non-Lifting Chain
Stainless Steel Chain

MADE IN USA

PEERLESS INDUSTRIAL GROUP KITO

Stainless Steel Chain

A316 is a non-magnetic alloy chain, composed of Manganese, Chromium, Nickel and Molybdenum, made to ASTM 80 specifications. It is highly resistant to salt water and chemicals and will not spark. Its uses include food processing, marine, fishing and industrial applications when high corrosion resistance is required.

A304 is a longer pitch link made to NACM specifications and the alloying components exclude the use of Molybdenum. It has lower Working Load Limits than A316 and is used mainly for decorative and low load applications. Order unit is foot.
NOT FOR OVERHEAD LIFTING.

A316 Stainless Steel Chain - Half Drum

Stock #	Trade Size		Wire Dia. (In.)	Inside Link Dim. (Inches)		Ft. Per Drum	Net Wt. (Lbs.)	Working Load Limit	
Stainless	In.	MM		Length (Nominal)	Width (Min.)			Lbs.	Kgs.
H1014-0340	3/16	5.5	0.218	0.950	0.400	750	300	1,200	544
H1014-0440	1/4	7.0	0.276	1.010	0.480	400	288	2,000	907
H1014-0540	5/16	8.0	0.343	1.120	0.490	275	289	2,850	1,293
H1014-0640	3/8	10.0	0.394	1.200	0.570	200	308	3,800	1,724
H1014-0840	1/2	13.5	0.531	1.600	0.730	100	276	6,500	2,949

A304 Stainless Steel Chain - Half Drum

Stock #	Trade Size		Wire Dia. (In.)	Inside Link Dim. (Inches)		Ft. Per Drum	Net Wt. (Lbs.)	Working Load Limit	
Stainless	In.	MM		Length (Nominal)	Width (Min.)			Lbs.	Kgs.
H1214-0340	3/16	5.5	0.217	0.980	0.400	750	300	800	363
H1214-0440	1/4	7.0	0.275	1.240	0.430	400	264	1,300	590
H1214-0540	5/16	8.0	0.315	1.290	0.490	275	237	1,900	862
H1214-0640	3/8	10.0	0.397	1.380	0.570	200	284	2,650	1,202
H1214-0840	1/2	13.0	0.512	1.750	0.750	100	243	4,500	2,042





Non-Lifting Chain
Coil Chain

MADE IN USA

PEERLESS INDUSTRIAL GROUP KITO



Straight Link Coil Chain

Straight link coil chain is a welded chain easily identified by its link design. The link is long and relatively narrow in proportion. It's an excellent choice for tailgates, trailer safety chain and barrier chain. Order unit is foot. **NOT FOR OVERHEAD LIFTING.**

Pails & Drums

Stock # Zinc	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (In.) Length	Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	WLL Lbs.	Kgs.
8605951	4	0.119	1.120	0.220	Drum	1000	103	205	93
5360235	2	0.147	1.180	0.270	Pail	400	62	310	141
8606374	2	0.147	1.180	0.270	Drum	2500	385	310	141
5361035	1/0	0.175	1.240	0.320	Pail	250	56	440	200
8605310	1/0	0.175	1.240	0.320	Drum	2000	450	440	200
5362035	2/0	0.190	1.310	0.340	Pail	250	68	520	236
H0810-2111	2/0	0.190	1.310	0.340	Pail	350	101	520	236
8605739	2/0	0.190	1.310	0.340	Drum	1000	281	520	236
5364035	4/0	0.217	1.390	0.410	Pail	200	73	670	304
6044033	4/0	0.217	1.390	0.410	Drum	1000	364	670	304
5365035	5/0	0.247	1.520	0.480	Pail	150	74	880	399
6045033	5/0	0.247	1.520	0.480	Drum	1000	490	880	399
5367035	7/0	0.311	1.850	0.560	Pail	100	75	1,375	623
8610818	7/0	0.311	1.850	0.560	Drum	500	375	1,375	623

Reels & Cartons

Stock # Zinc	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (In.) Length	Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	WLL Lbs.	Kgs.
6040450	4	0.119	1.120	0.220	Reel	65	7	205	93
6040432	4	0.119	1.120	0.220	Carton	100	10	205	93
6040250	2	0.147	1.180	0.270	Reel	65	10	310	141
6040232	2	0.147	1.180	0.270	Carton	100	15	310	141
6041050	1/0	0.175	1.240	0.320	Reel	75	17	440	200
6041032	1/0	0.175	1.240	0.320	Carton	100	23	440	200
6042050	2/0	0.190	1.310	0.340	Reel	60	17	520	236
6042032	2/0	0.190	1.310	0.340	Carton	100	28	520	236
6044050	4/0	0.217	1.390	0.410	Reel	100	36	670	304
6044032	4/0	0.217	1.390	0.410	Carton	100	36	670	304
6045050	5/0	0.247	1.520	0.480	Reel	75	37	880	399
6045032	5/0	0.247	1.520	0.480	Carton	100	49	880	399
6047050	7/0	0.311	1.850	0.560	Reel	40	30	1,375	623
6047032	7/0	0.311	1.850	0.560	Carton	100	75	1,375	623

Pails & Drums

Stock #	Finish	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length	Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	WLL Lbs.	Kgs.
5362039	Yel. Pwdr. Coat	2/0	0.190	1.310	0.340	Pail	200	56	520	236
460144008	Yel. Pwdr. Coat	4/0	0.217	1.390	0.410	Pail	250	91	670	304
460144003	HDG	4/0	0.217	1.390	0.410	Drum	1,500	546	670	304

Non-Lifting Chain
Coil Chain & Machine Chain

MADE IN USA

PEERLESS INDUSTRIAL GROUP KITO



Twist Link Coil Chain

A modification of straight link coil chain which allows the chain to lay flatter. Order unit is foot. **NOT FOR OVERHEAD LIFTING.**

Cartons & Square Pails

Stock # Zinc	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length	Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	Working Load Limit Lbs.	Kgs.
6020450	4	0.120	1.090	0.220	Carton	100	10	195	88
6021032	1/0	0.175	1.220	0.320	Pail	250	59	415	188
6022050	2/0	0.192	1.240	0.380	Carton	100	28	495	225
6024032	4/0	0.218	1.330	0.420	Carton	100	39	635	288

Straight Link Machine Chain

Straight link machine chain is a welded chain noted for its flexibility. Used for overhead doors, tailgates and agricultural implements. Order unit is foot. **NOT FOR OVERHEAD LIFTING.**

Pails, Reels & Cartons

Stock # Zinc	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length	Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	Working Load Limit Lbs.	Kgs.
6010450	4	0.120	0.550	0.220	Reel	125	16	215	98
6010432	4	0.120	0.550	0.220	Carton	100	13	215	98
H0710-2411	4	0.120	0.550	0.220	Pail	800	90	215	98
6010332	3	0.135	0.590	0.240	Carton	100	15	270	123
6010250	2	0.148	0.630	0.270	Reel	70	13	325	148
6010232	2	0.148	0.630	0.270	Carton	100	19	325	148
6011050	1/0	0.177	0.740	0.320	Reel	75	20	465	212
6011032	1/0	0.177	0.740	0.320	Carton	100	27	465	212
6012050	2/0	0.192	0.780	0.350	Reel	70	22	545	247
6012032	2/0	0.192	0.780	0.350	Carton	100	32	545	247
H0710-2111	2/0	0.192	0.780	0.350	Pail	300	101	545	247
6014032	4/0	0.218	0.950	0.400	Carton	100	42	700	317
6015032	5/0	0.250	1.070	0.450	Carton	100	53	925	419



Non-Lifting Chain
Machine Chain & Link Chain

MADE IN USA

PEERLESS INDUSTRIAL GROUP KITO



Twist Link Machine Chain

A modification of straight link chain which allows the chain to lay flatter.
Order unit is foot. **NOT FOR OVERHEAD LIFTING.**

Pails, Reels & Cartons

Stock # Zinc	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length	Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	Working Load Limit Lbs.	Kgs.
6020532	5	0.105	0.470	0.150	Carton	100	10	155	70
6020450	4	0.120	0.520	0.180	Reel	125	16	205	93
6020432	4	0.120	0.520	0.180	Carton	100	13	205	93
6020332	3	0.135	0.560	0.190	Carton	100	16	255	116
6020232	2	0.148	0.580	0.220	Carton	100	20	310	140
6021032	1/0	0.177	0.680	0.270	Carton	100	30	440	199
6022050	2/0	0.192	0.730	0.290	Reel	70	25	520	236
H0610-2111	2/0	0.192	0.730	0.290	Pail	300	101	520	236
6022032	2/0	0.192	0.730	0.290	Carton	100	35	520	236
6024032	4/0	0.218	0.890	0.340	Carton	100	44	670	303



Passing Link Chain

A welded chain with links sufficiently wide to allow them to pass on another freely, eliminating the tendency to kink. It is used for gates, farm machinery and general utility industry.
Order unit is foot. **NOT FOR OVERHEAD LIFTING.**

Pails, Reels & Cartons

Stock # Zinc	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length	Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	Working Load Limit Lbs.	Kgs.
6072050	2/0	0.192	0.860	0.470	Reel	95	31	450	204
6072032	2/0	0.192	0.860	0.470	Carton	100	33	450	204
H0910-2111	2/0	0.192	0.860	0.470	Pail	300	101	450	204
6074032	4/0	0.218	0.860	0.500	Carton	100	44	600	272

Non-Lifting Chain

Double Loop Chain & Plumbers Chain

PEERLESS INDUSTRIAL GROUP KITO

MADE IN USA



Twin Loop Chain

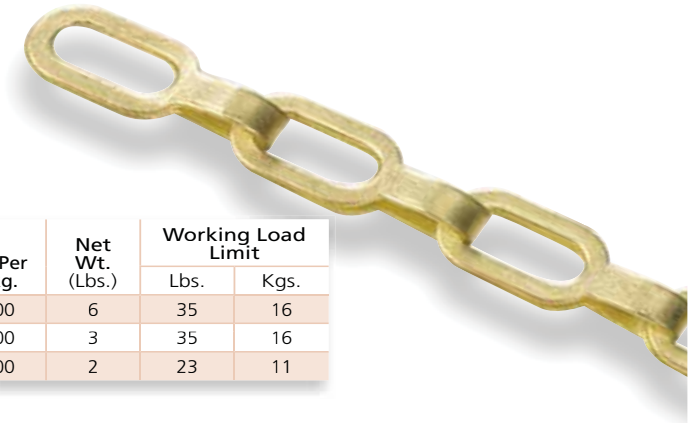
A weldless chain that combines strength, flexibility, light weight and neat appearance. It is an all purpose chain for a wide variety of uses including swing sets, animal chains and hammocks. Note: It is recommended that no twin loop chain smaller that 1/0 be used for swing sets. Order unit is foot. **NOT FOR OVERHEAD LIFTING.**

Reels, Cartons & Square Pails

Stock # Zinc	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length	Inside Link Dim. (Inches) Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	WLL Lbs.	WLL Kgs.
7010550	5	0.063	1.325	0.270	Reel	250	10	55	25
7010532	5	0.063	1.325	0.270	Carton	100	4	55	25
7010450	4	0.072	1.000	0.239	Reel	200	10	70	32
7010432	4	0.072	1.000	0.239	Carton	100	5	70	32
7010350	3	0.080	1.530	0.275	Reel	150	9	90	41
7010332	3	0.080	1.530	0.275	Carton	100	6	90	41
5370335	3	0.080	1.530	0.275	Pails	500	30	90	41
7010232	2	0.092	2.000	0.350	Carton	100	8	115	52
7010150	1	0.105	2.000	0.350	Reel	85	9	155	70
7010132	1	0.105	2.000	0.350	Carton	100	10	155	70
5370135	1	0.105	2.000	0.350	Pail	300	30	155	70
7011050	1/0	0.120	2.173	0.398	Reel	150	18	200	91
7011032	1/0	0.120	2.173	0.398	Carton	100	12	200	91
7012050	2/0	0.135	2.211	0.388	Reel	125	21	255	116
7012032	2/0	0.135	2.211	0.388	Carton	100	17	255	116
7052035	2/0	0.135	2.211	0.388	Carton	250	43	255	116
5372035	2/0	0.135	2.211	0.388	Pail	225	38	255	116
7013050	3/0	0.148	2.170	0.408	Reel	110	24	305	138
7013032	3/0	0.148	2.170	0.408	Carton	100	22	305	138
5373035	3/0	0.148	2.170	0.408	Pail	200	44	305	138
7014032	4/0	0.160	2.190	0.405	Carton	100	25	365	165

Brass Plumbers Chain

Safety chain is a stamped and formed solid brass chain used for plumbing fixtures, as well as other uses requiring a light flat metal chain. Order unit is foot.
NOT FOR OVERHEAD LIFTING.



Reels & Cartons

Stock # Brass	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length	Inside Link Dim. (Inches) Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	Working Load Limit Lbs.	Working Load Limit Kgs.
7651050	1/0	0.023	0.505	---	Reel	200	6	35	16
7651012	1/0	0.023	0.505	---	Carton	100	3	35	16
7652012	2/0	0.018	0.545	---	Carton	100	2	23	11

Non-Lifting Chain
Sash Chain & Jack Chain

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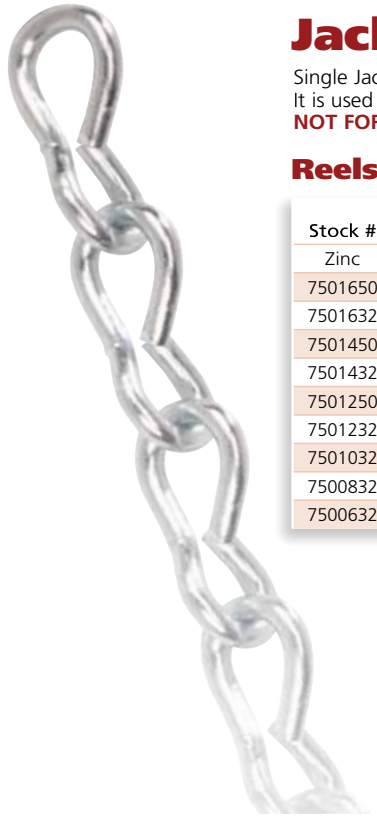
Sash Chain

Sash chain is a s tamped, formed chain slightly stronger than Jack chain. It is used for operating heater controls on ducts and dampers, as well as window sashes in double hung windows. Order unit is foot. **NOT FOR OVERHEAD LIFTING.**



Reels & Cartons

Stock # Zinc	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length	Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	Working Load Limit Lbs.	Kgs.
7010550	8	0.035	0.560	---	Carton	100	4	75	34
7010450	25	0.042	0.560	---	Carton	100	5	94	43
7010350	35	0.035	0.560	---	Reel	100	6	106	48
7010332	35	0.035	0.560	---	Carton	100	6	106	48
7010232	40	0.042	0.570	---	Carton	100	7	131	59
7010150	50	0.060	0.630	---	Carton	100	12	225	102



Jack Chain

Single Jack chain is the lightest and smallest of regular commercial chain formed from wire. It is used in applications where high strength is not required. Order unit is foot.
NOT FOR OVERHEAD LIFTING.

Reels & Cartons

Stock # Zinc	Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length	Width	Pkg. Type	Ft. Per Pkg.	Net Wt. (Lbs.)	Working Load Limit Lbs.	Kgs.
7501650	16	0.062	0.500	---	Reel	200	6	10	5
7501632	16	0.062	0.500	---	Carton	100	3	10	5
7501450	14	0.080	0.630	---	Reel	100	5	16	7
7501432	14	0.080	0.630	---	Carton	100	5	16	7
7501250	12	0.105	0.750	---	Reel	100	9	29	13
7501232	12	0.105	0.750	---	Carton	100	9	29	13
7501032	10	0.135	0.930	---	Carton	100	14	43	20
7500832	8	0.162	1.090	---	Carton	100	21	60	27
7500632	6	0.192	1.240	---	Carton	100	30	88	40

Non-Lifting Chain
Lock Link Chain & Plastic Chain

MADE IN USA

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Lock Link Chain

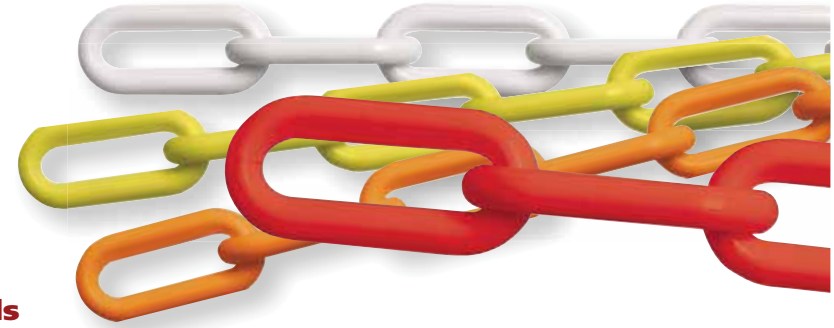
The strongest weldless chain with all links facing in the same direction, making it ideal for pipe suspension and operating overhead doors and steam valves. Order unit is foot.
NOT FOR OVERHEAD LIFTING.

Cartons & Drums

Stock #		Trade Size	Wire Dia. (Inches)	Inside Link Dim. (Inches)		Ft. Per Carton	Ft. Per Drum	Net Wt. (Lbs. /ft.)	Working Load Limit	
Carton - Zinc	Drum - HDG			Length	Width				Lbs.	Kgs.
250320201	---	2	0.091	1.090	0.350	100	---	0.10	155	70
250321001	250341005	1/0	0.120	1.290	0.430	100	2,000	0.17	265	120
7022032	---	2/0	0.135	1.490	0.450	100	---	0.24	340	154
250324001	250344005	4/0	0.162	1.780	0.520	100	1,000	0.29	485	220
250325001	250345005	5/0	0.177	2.140	0.630	100	400	0.34	580	263

Plastic Chain & Accessories

A light duty plastic chain made of polypropylene used mainly for decorative purposes, as a barrier or to guide traffic. Plastic chain is durable, light weight and weather resistant. Order unit is foot.
NOT FOR OVERHEAD LIFTING.



4.25 Gallon Square Pails

Stock #				Trade Size		Dia. (In.)	Inside Link Dim. (In.)		Ft. Per Pail	Net Wt. (Lbs.)	Working Load Limit	
White	Yellow	Red	Hot Orange	In.	MM		Length	Width			Lbs.	Kgs.
H2612-0450	H2612-0452	H2612-0454	H2612-0455	1/4	6	0.230	1.000	0.320	250	11.50	25	11
H2612-0550	H2612-0552	H2612-0554	H2612-0555	5/16	8	0.305	1.520	0.390	150	12.50	40	18

Connecting Links

Split links of plastic chain used to connect two pieces of plastic chain together.



Stock #				Trade Size		Dia. (In.)	Inside Link Dim. (In.)		Qty. Per Pkg.	Net Wt. (Lbs.)	Working Load Limit	
White	Yellow	Red	Hot Orange	(In.)	(MM)		Length	Width			Lbs.	Kgs.
H2698-0450	H2698-0452	H2698-0454	H2698-0455	1/4	6	0.230	1.051	0.307	25	0.35	25	11
H2698-0550	H2698-0552	H2698-0554	H2698-0555	5/16	8	0.305	1.461	0.355	25	0.50	40	18

Chain Accessories
Cold Shuts & Connecting Links

MADE IN USA

PEERLESS INDUSTRIAL GROUP KITO

Cold Shuts

Low carbon steel. For temporary chain repair and coupling of attachments when using chain, use one size larger than chain size.



Stock #		Trade Size (Inches)	Dimensions (Inches)		Qty. Per Pkg.	Lbs. Per Each	Working Load Limit	
Self Colored	Zinc		A	B			Lbs.	Kgs.
8040115	8040140	3/16	0.89	0.83	25	0.03	390	177
8040215	8040235	1/4	1.10	0.84	25	0.05	750	340
8040315	8040335	5/16	1.22	1.06	25	0.10	1,250	567
8040415	8040440	3/8	1.45	1.33	25	0.17	1,630	739
8040615	---	1/2	1.60	1.68	25	0.39	3,500	1,588

Connecting Links

Low carbon steel. For temporary chain repair and coupling of attachments when using lap links with chain. Use one size larger than chain size.



Stock #		Trade Size (Inches)	Dimensions (Inches)		Qty. Per Pkg.	Lbs. Per Each	Working Load Limit	
Self Colored	Zinc		A	B			Lbs.	Kgs.
8050215	440840403	1/4	1.000	0.500	10	0.06	1,300	590
8050315	440840503	5/16	1.063	0.563	10	0.11	1,900	862
8050415	440840603	3/8	1.312	0.625	10	0.18	2,650	1,202
8050615	440840802	1/2	1.625	0.750	10	0.36	4,500	2,042

Quick Links

Low carbon steel. Fast, easy connection for permanant or temporary connection.



Stock#	Trade Size	Diameter		Dimensions (Inches)			Qty. Per Pkg.	Lbs. Per Each	Working Load Limit	
Zinc	(Inches)	Inches	MM	Inside Length	Inside Width	Opening			Lbs.	Kgs.
8056035	1/8	0.125	3	1.200	0.410	0.180	20	0.02	220	100
8056135	3/16	0.197	5	1.560	0.500	0.270	20	0.05	616	279
8056235	1/4	0.240	6	1.900	0.630	0.310	20	0.08	880	400
8056335	5/16	0.310	8	2.300	0.750	0.370	20	0.18	1,540	699
8056435	3/8	0.350	9	2.560	0.780	0.440	10	0.24	1,900	862
8056635	1/2	0.470	12	3.270	0.890	0.540	10	0.53	2,650	1,202

Chain Accessories
Links, Clips, & S-Hooks

MADE IN USA

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Spring Links

Low carbon steel. Fast, easy connection f or permanant or temporary connection.



Stock# Zinc	Trade Size (Inches)	Diameter Inches	Diameter MM	Length (Inches)	Qty. Per Pkg.	Lbs. Per Each	Working Load Limit Lbs.	Working Load Limit Kgs.
4412240	1/8	0.155	4	2.000	10	0.03	200	90
4412840	3/16	0.188	5	2.000	20	0.04	100	45
4410440	1/4	0.240	6	2.375	20	0.06	175	79
4410640	9/32	0.276	7	2.750	20	0.09	225	102
4410240	5/16	0.310	8	3.125	20	0.16	350	159
4426040	11/32	0.350	9	3.500	10	0.23	400	181
4425240	3/8	0.393	10	4.000	10	0.32	425	193
4426140	7/16	0.433	11	4.750	10	0.45	750	340
4427140	1/2	0.465	12	4.724	10	0.55	1,200	544

Hitch Pin Clips



Stock # Zinc	Trade Size	Wire Diameter Inches	Wire Diameter Gauge	Dimensions Overall Length	Dimensions Shaft Diameter	Qty. Per Pkg.	Lbs. Per Each
3440335	3	0.091	11	1.630	1/4 to 1/2	2000	0.007
3440635	6	0.177	5	3.380	5/8 to 1	500	0.050
3440735	7	0.091	11	2.310	1/4 to 5/8	2000	0.010
3440835	8	0.177	5	3.750	7/8 to 1-1/4	500	0.055
3440935	9	0.148	7	2.450	3/4 to 1-1/8	1000	0.034
3441135	11	0.125	8	2.620	7/16 to 3/4	2000	0.018
3441435	14	0.091	11	2.500	3/8 to 3/4	2000	0.010
3441635	16	0.125	8	1.440	1/2 to 3/8	2000	0.015
3441735	17	0.080	12	1.560	3/8 to 1/2	2000	0.005
3441935	19	0.243	3	4.060	1 to 1-1/2	250	0.115

S-Hooks - Low Carbon Steel



Type I



Type II

Stock# Zinc	Hook No.	S-Hook Type	Diameter Wire Dia.	Diameter Inside Length	Qty. Per Pkg.	Lbs. Per Each	Working Load Limit Lbs.	Working Load Limit Kgs.
7902735	27	II	0.080	1.000	1,000	0.003	12	5
7906335	63	II	0.105	1.000	1,000	0.006	31	14
7900835	8	II	0.120	1.000	1,000	0.008	46	21
7904335	43	II	0.120	1.000	1,000	0.008	48	22
7900935	9	II	0.162	1.000	1,000	0.016	106	48
7949835	498	II	0.120	1.500	1,000	0.012	28	13
7901035	10	I	0.135	1.500	1,000	0.015	25	11
7900635	6	I	0.192	1.500	1,000	0.033	70	32
7911035	110	II	0.192	1.500	1,000	0.032	117	53
7900435	4	I	0.225	1.500	1,000	0.047	129	59
7901435	14	I	0.187	2.000	1,000	0.038	53	24
7953235	532	I	0.249	2.000	1,000	0.071	142	64
7952635	526	II	0.249	2.000	500	0.071	189	86
7962935	629	II	0.312	2.000	500	0.119	450	204
7953935*	539	I	0.177	2.500	1,000	0.039	41	19
7901735	17	I	0.312	2.500	500	0.137	255	116
7901835	18	I	0.375	2.500	250	0.206	457	207
7906635	66	II	0.375	2.500	250	0.215	428	194

Made from Galvanized Wire.

Chain Accessories
Snaps

MADE IN USA

PEERLESS INDUSTRIAL GROUP KITO

Snaps

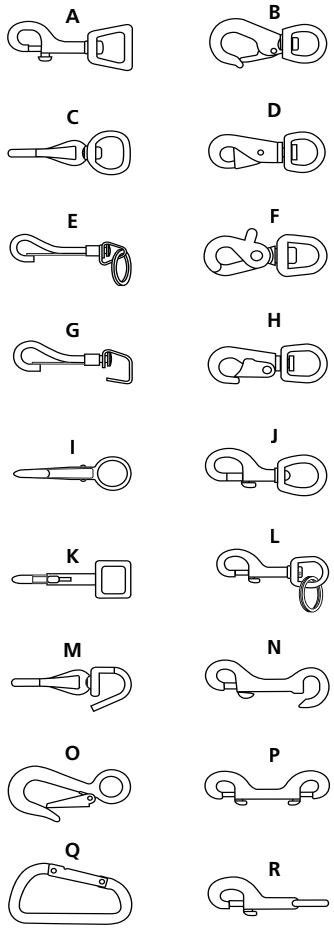
Snaps - Brass Finish

Stock #	Dimensions (Inches)			Qty. Per Pkg.	Lbs. Per Each
Brass	Eye Dia.	Overall Lgth.	Type		
4433440	9/16	3-1/4	Swivel Eye Quick Snap (B)	20	0.15
4415340	5/8	3-5/8	Swivel Eye Quick Snap (B)	20	0.17
4415140	1-1/8	2-3/4	Swivel Eye Trigger Snap (F)	20	0.12
4433240	3/4	3-1/8	Swivel Eye Bolt Snap (J)	20	0.15
4415240	1	3-1/2	Swivel Eye Bolt Snap (J)	10	0.17
4414840	1-1/8	4-5/8	Swivel Eye Bolt Snap (J)	10	0.34
4424840	3/8	3-1/2	Double End Bolt Snap (P)	20	0.14
4426740	1/2	3	Swivel Strap Eye Bolt Snap (A)	20	0.09
4425140	1	3	Swivel Strap Eye Bolt Snap (A)	10	0.18
4424640	3/8	2	Fixed Eye Quick Snap (I)	20	0.12
4424740	5/8	3-7/16	Fixed Eye Quick Snap (I)	20	0.15

Snaps - Nickel Finish

Stock #	Dimensions (Inches)			Qty. Per Pkg.	Lbs. Per Each
Nickel	Eye Dia.	Overall Lgth.	Type		
4414440	3/4	3-1/4	Swivel Eye Quick Snap (B)	40	0.14
4410340	7/8	4	Swivel Eye Bull Snap (D)	20	0.34
4414340	3/4	2-9/16	Swivel Eye Trigger Snap (F)	40	0.10
4410540	3/4	3-7/8	Swivel Eye Trigger Snap (F)	20	0.21
4424540	3/4	3-3/8	Swivel Eye Cap Snap (H)	30	0.17
4410940	1	3-5/8	Swivel Eye Cap Snap (H)	30	0.14
4410040	3/4	3-3/16	Swivel Eye Bolt Snap (J)	40	0.08
4414040	7/8	3-3/16	Swivel Eye Bolt Snap (J)	20	0.11
4413540	1	4	Swivel Eye Bolt Snap (L)	20	0.21
4415440	1	3-3/4	Key Ring Swivel Eye Bolt Snap (N)	30	0.12
4414140	1/2	3-1/2	Open End Bolt Snap (P)	20	0.12
4418040	1/4	3-1/2	Double End Bolt Snap (P)	20	0.10
4410140	5/8	4-5/8	Double End Bolt Snap (R)	20	0.16
4414640	5/8	3-5/16	Fixed Eye Bolt Snap (F)	30	0.13
4425340	1	3-1/4	Fixed Strap Eye Bolt Snap (K)	20	0.14
4424940	5/8	3-3/4	Swivel Strap Eye Bolt Snap (A)	40	0.07
4411740	1/2	2-1/2	Swivel Eye Spring Snap (C)	60	0.05
4412140	3/4	2-7/8	Swivel Eye Spring Snap (C)	50	0.06
4415540	7/8	4-1/2	Key Ring Swivel Spring Snap (E)	20	0.12
4417340	1/4	2-7/8	Open End Swivel Snap (G)	20	0.06
4412340	3/8	2-1/2	Open End Spring Snap (M)	60	0.04
4414540	3/4	3-1/2	Fixed Eye Safety Snap (O)	20	0.26





Snaps - Zinc Finish

Stock #	Dimensions (Inches)			Qty. Per Pkg.	Lbs. Per Each
Zinc	Eye Dia.	Overall Lgth.	Type		
4426540	3/8	2-15/16	Swivel Eye Bolt Snap (J)	20	0.09
4426640	5/8	4-1/4	Swivel Eye Bolt Snap (J)	20	0.14

Snaps - Multi-Colored Finish

Stock #	Dimensions (Inches)			Qty. Per Pkg.	Lbs. Per Each
Multi-Colored	Eye Dia.	Overall Lgth.	Type		
4427040	-	3	Anodized Spring Link (Q)	25	0.05

Sling Chain
Grade 50 Stainless

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Approved for Overhead Lifting



Grade 50 Stainless Chain

Stock #	Trade Size (Inches)	Wire Dia. (Inches)	Inside Link Dim. (Inches) Length (Nominal)	Inside Link Dim. (Inches) Width (Min.)	Ft. Per Drum	Lbs. Per Foot	Working Load Limit Lbs.	Working Load Limit Kgs.
CHS012	1/8	0.130	0.890	0.290	1,000	0.22	375	170
CHS019	3/16	0.190	0.950	0.400	800	0.40	1,200	544
CHS025	1/4	0.250	1.000	0.500	400	0.71	2,000	907
CHS031	5/16	0.310	1.100	0.500	275	1.05	2,850	1,293
CHS038	3/8	0.380	1.230	0.630	200	1.50	3,550	1,610
CHS050	1/2	0.500	1.500	0.810	200	2.70	6,500	2,948
CHS063	5/8	0.630	1.870	1.000	150	3.71	9,500	4,309
CHS075	3/4	0.750	2.120	1.130	---	5.80	15,000	6,804
CHS100	1	1.000	3.580	1.370	---	8.53	22,500	10,206

Chain Sling Working Load Limit Specifications

Grade 50 Stainless Steel Chain			
Chain Size Inches	Single Leg @ 90°	Double Leg @ 60°	Triple & Quad Leg @ 60°
3/16	1,200	2,075	2,850
1/4	1,250	2,150	3,225
5/16	1,900	3,275	---
3/8	2,650	4,575	6,875
1/2	4,500	7,775	11,675
5/8	6,000	10,375	15,575
3/4	10,000	17,300	25,975

DO NOT load an assembly in excess of the rated working load limits in the chart above.
DO NOT put an unequal load on one leg of a sling. Distribute the load evenly.
DO NOT expose assembly to impact, rapid lifts or sudden stops.
DO NOT tie knots or allow chains to become twisted.
DO NOT use chain that appears to be defective, worn or damaged.
DO NOT fasten chain over sharp corners or edges. Protect with padding.
DO NOT tip load hooks. The latch must NEVER support the load.

When using non-cradle or non-shortening grab hooks in a shortening or choker application, the Working Load Limit (WLL) of the sling must be reduced by 20%

Reference the **Safety Guidelines** section of this catalog for more information.

Lifting Components
Coupling Links, Master Links

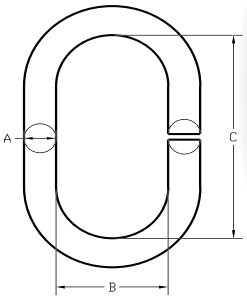
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316 Stainless Steel V-Notch Coupling Links

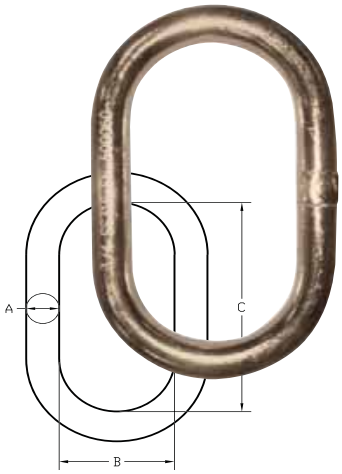
V-Notch coupling links are electropolished and ready for welding.

NOT FOR OVERHEAD LIFTING.





Stock #	Chain Size		Dimensions (Inches)			Lbs. Per Each
	Inches	MM	A	B	C	
CS031	3/16	5.5	0.310	0.630	1.250	0.10
CS038	9/32	7	0.380	0.880	1.500	0.16
CS044	5/16	8	0.440	0.940	1.750	0.25
CS050	3/8	10	0.500	1.000	2.000	0.36
CS063	1/2	13	0.630	1.500	2.500	0.74
CS075	5/8	16	0.750	1.500	3.000	1.21
CS088	3/4	20	0.880	2.000	3.500	2.01
CS100	7/8	22	1.000	2.250	4.500	3.17
CS125	1	26	1.250	2.500	5.000	5.62



316 Stainless Steel Oblong Master Links

Welded, electropolished and proof tested.

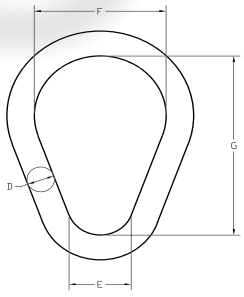
Approved for Overhead Lifting

Stock #	Trade Size		Dimensions (Inches)			Lbs. Per Each	Working Load Limit (Lbs.)
	Inches	MM	A	B	C		
OMS038	3/8	10	0.380	2.000	4.000	0.42	750
OMS050	1/2	13	0.500	2.500	5.000	0.94	2,150
OMS063	5/8	16	0.630	2.750	5.500	1.63	2,850
OMS075	3/4	20	0.750	3.000	6.000	2.50	4,600
OMS100	1	26	1.000	3.500	7.000	5.40	7,800
OMS125	1-1/4	32	1.250	4.000	8.000	8.75	11,800
OMS150	1-1/2	38	1.500	5.250	10.500	17.00	18,600

316 Stainless Steel Pear Shape Master Links

Welded, electropolished and proof tested.





Stock #	Trade Size		Dimensions (Inches)				Lbs. Per Each	Working Load Limit (Lbs.)
	Inches	MM	D	E	F	G		
PMS038	3/8	10	0.380	1.000	2.000	4.000	0.30	750
PMS050	1/2	13	0.500	1.250	2.500	5.000	0.80	2,150
PMS063	5/8	16	0.630	1.380	2.750	5.500	1.50	2,850
PMS075	3/4	20	0.750	1.500	3.000	6.000	2.10	4,600
PMS100	1	26	1.000	2.000	4.000	8.000	5.10	7,800
PMS125	1-1/4	32	1.250	3.000	6.000	9.000	9.60	11,800
PMS150	1-1/2	38	1.500	5.000	7.000	10.500	16.50	18,600

Lifting Components
Coupling Links, Master Links

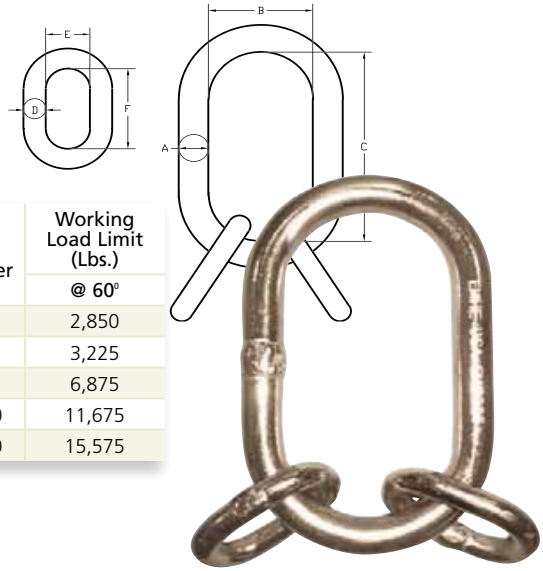
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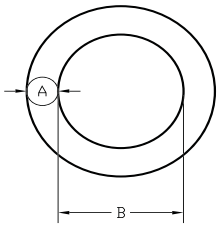
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316 Stainless Steel Sub-Assemblies

Welded, electropolished and proof tested.



Stock #	Chain Size In.	Chain Size MM	A	B	C	D	E	F	Lbs. Per Each	Working Load Limit (Lbs.) @ 60°
SMS019	3/16	5.5	0.630	2.750	5.500	0.380	0.880	1.500	2.00	2,850
SMS025	1/4	6	0.750	3.000	6.000	0.500	1.000	2.000	2.90	3,225
SMS038	3/8	10	1.000	3.500	7.000	0.750	1.500	3.000	7.10	6,875
SMS050	1/2	13	1.250	4.000	8.000	0.880	2.000	3.500	12.50	11,675
SMS063	5/8	16	1.500	5.250	10.500	1.120	2.500	5.000	15.00	15,575



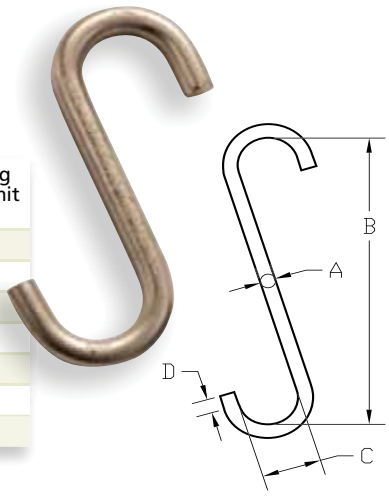


316 Stainless Steel Round Rings

Welded, electropolished and proof tested.

Stock #	Trade Size Inches	Trade Size MM	Dimensions (Inches) A	Dimensions (Inches) B	Lbs. Per Each	Working Load Limit (Lbs.)
RMS038	3/8	10	0.380	2.000	0.23	750
RMS050	1/2	13	0.500	2.500	0.62	1,300
RMS063	5/8	16	0.630	3.000	1.20	1,850
RMS075	3/4	20	0.750	4.000	2.00	2,800
RMS100	1	26	1.000	4.000	4.00	5,650
RMS125	1-1/4	32	1.250	5.000	7.80	7,650
RMS150	1-1/2	38	1.500	6.000	13.40	9,700

316 Stainless Steel S-Hooks



Stock #	Trade Size Inches	Dimensions (Inches) A	B	C	D	Lbs. Per Each	Working Load Limit (Lbs.)
SS025	1/4	0.250	2.750	0.750	0.380	0.07	75
SS038	3/8	0.380	4.130	1.130	0.560	0.33	165
SS050	1/2	0.500	5.500	1.500	0.750	0.59	325
SS063	5/8	0.630	7.000	1.880	0.940	1.24	500
SS075	3/4	0.750	8.250	2.250	1.130	2.31	660
SS088	7/8	0.880	9.630	2.630	1.310	3.05	900
SS100	1	1.000	11.000	3.000	1.500	4.45	1,060

Lifting Components
Hooks

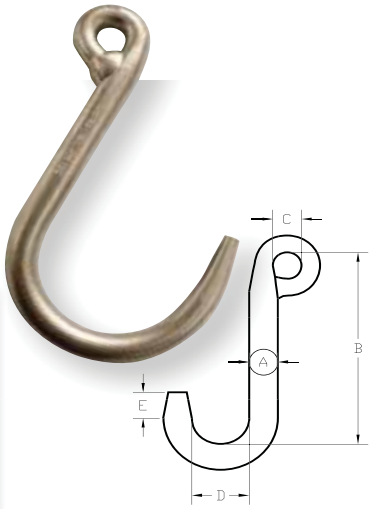
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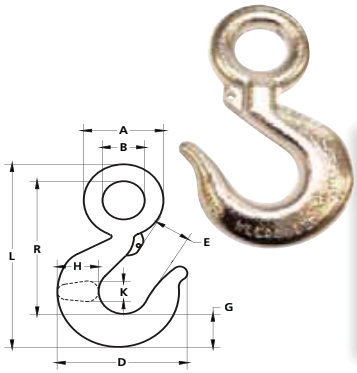
316 Stainless Steel Foundry Sorting Hooks

Welded, electropolished and proof tested.



Stock #	Trade Size (Inches)	Dimensions (Inches) A	B	C	D	E	Lbs. Per Each	Working Load Limit (Lbs.)
SFS050	1/2	0.500	6.000	0.560	3.000	1.500	0.70	200
SFS063	5/8	0.630	6.000	0.560	3.000	1.500	1.10	300
SFS075	3/4	0.750	6.000	0.750	3.000	1.500	2.00	500
SFS100	1	1.000	6.000	0.750	3.000	1.500	3.00	900
SFS125	1-1/4	1.250	6.000	1.000	3.000	1.500	5.00	1,500

316 Stainless Steel Eye Sling Hooks



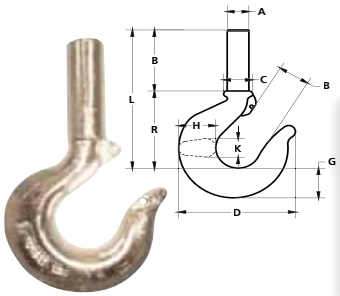
Stock #	Dimensions (Inches) A	B	D	E	G	H	L	K	R	Lbs. Per Ea.	Working Load Limit (Lbs.)
RS25	1.500	0.750	3.000	0.880	0.880	0.880	4.380	0.560	3.190	0.60	1,250
RS38	2.130	1.130	4.000	1.130	1.130	1.440	5.690	0.810	4.090	1.50	2,650
RS50	2.500	1.250	4.690	1.250	1.340	1.750	6.690	1.130	4.690	2.50	4,500
RS63	3.060	1.560	5.060	1.530	1.440	1.630	7.970	1.310	5.790	4.00	6,000
RS75	3.880	2.000	6.500	1.810	1.810	2.060	10.130	1.750	7.320	7.30	10,000

316 Stainless Steel Swivel Hooks



Stock #	Dimensions (Inches) A	B	C	D	E	G	H	K	L	R	S	Lbs. Per Ea.	WLL (Lbs.)
SWS2	2.000	1.000	1.180	3.000	0.930	0.880	0.880	0.560	5.000	4.380	0.380	0.69	1,000
SWS3	2.500	1.380	1.380	3.190	1.060	0.880	0.970	0.630	5.500	5.250	0.500	1.40	1,500
SWS4	2.500	1.380	1.380	3.560	1.130	1.060	1.120	0.720	6.250	5.630	0.500	1.60	2,000
SWS5	3.000	1.630	1.690	3.880	1.250	1.200	1.310	0.810	6.970	6.500	0.630	1.80	2,500

316 Stainless Steel Shank Hooks



Stock #	Dimensions (Inches) A	B	C	D	E	G	H	K	L	R	Lbs. Per Ea.	WLL (Lbs.)
SHS2	0.560	2.000	0.690	3.000	0.930	0.880	0.880	0.560	5.000	2.310	0.64	1,000
SHS3	0.610	2.250	0.750	3.190	1.060	0.880	0.970	0.630	5.500	2.440	0.88	1,500
SHS4	0.720	2.500	0.880	3.560	1.130	1.060	1.120	0.720	6.250	2.750	1.10	2,000
SHS5	0.840	2.700	1.000	3.880	1.250	1.200	1.310	0.810	6.970	3.060	1.80	2,500

Chain Accessories
Shackles & Links

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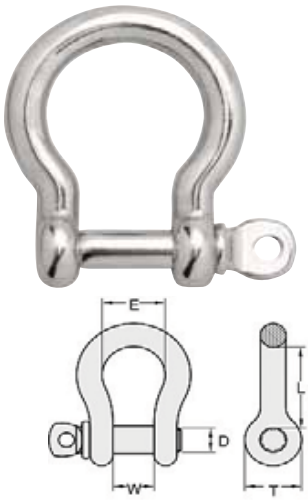
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Stainless Steel Chain Accessories

NOT FOR OVERHEAD LIFTING.

A316 Stainless Steel Screw Pin Anchor Shackle

Stock #	Trade Size	Dimensions (Inches)					Qty. Per Pkg.	Lbs. Per Each	Working Load Limit	
Stainless	In	D	W	E	L	T			Lbs.	Kgs.
H8624-0340	3/16	0.250	0.374	0.591	0.866	0.551	5	0.04	400	181
H8624-0440	1/4	0.313	0.472	0.787	1.102	0.610	5	0.07	750	340
H8624-0540	5/16	0.375	0.512	0.827	1.220	0.748	5	0.15	1,060	481
H8624-0640	3/8	0.438	0.630	1.024	1.417	0.906	5	0.29	1,600	726
H8624-0840	1/2	0.625	0.827	1.299	1.890	1.181	5	0.50	2,800	1,270
H8624-0940	5/8	0.750	1.063	1.693	2.362	1.496	5	1.09	4,900	2,200
H8624-1040	3/4	0.875	1.260	2.008	2.795	1.811	5	2.18	6,500	3,000
H8624-1140	7/8	1.000	1.417	2.283	3.307	2.087	5	2.87	7,300	3,300
H8624-1240	1	1.125	1.693	2.677	3.740	2.362	5	3.97	8,400	4,000



A316 Stainless Steel Screw Pin Chain Shackle

Stock #	Trade Size	Dimensions (Inches)				Qty. Per Pkg.	Lbs. Per Each	Working Load Limit	
Stainless	In	D	W	L	T			Lbs.	Kgs.
H8624-0340	3/16	0.200	0.430	0.280	0.400	5	0.04	400	181
H8624-0440	1/4	0.240	0.470	0.320	0.430	5	0.07	750	340
H8624-0540	5/16	0.280	0.670	0.390	0.630	5	0.16	1,060	481
H8624-0640	3/8	0.350	0.830	0.510	0.790	5	0.27	1,600	726
H8624-0840	1/2	0.430	0.980	0.830	0.910	5	0.44	2,800	1,270



A316 Stainless Steel Quick Link

Stock #	Trade Size (In.)	Dia.		Dimensions (Inches)			Qty. Per Pkg.	Lbs. Per Each	WLL	
Stainless		In.	MM	Inside Length	Inside Width	Opening			Lbs.	Kgs.
H8224-0240	1/8	0.125	3	1.300	0.390	0.200	5	0.02	500	227
H8224-0340	3/16	0.197	5	1.500	0.550	0.240	5	0.05	800	363
H8224-0440	1/4	0.240	6	1.780	0.550	0.280	5	0.09	1,250	567
H8224-0540	5/16	0.310	8	2.290	0.710	0.390	5	0.18	1,800	816
H8224-0640	3/8	0.390	10	2.710	0.870	0.470	5	0.32	2,400	1,089
H8224-0840	1/2	0.470	12	3.150	0.980	0.590	5	0.55	2,800	1,270



A316 Stainless Steel Spring Link

Stock #	Trade Size	Diameter		Overall Length	Qty. Per Pkg.	Lbs. Per Each	WLL	
Stainless	Inches	Inches	MM	(Inches)			Lbs.	Kgs.
H8724-0340	3/16	0.200	5.5	1.970	5	0.03	400	181
H8724-0440	1/4	0.240	6	2.360	5	0.06	750	340
H8724-0540	5/16	0.320	8	3.150	5	0.15	1,060	481
H8724-0640	3/8	0.400	10	3.940	5	0.26	1,600	726
H8724-0840	1/2	0.470	12	5.510	5	0.58	2,200	998

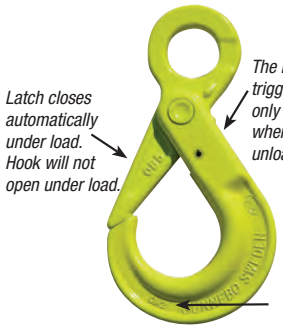


Hooks
Self-Locking

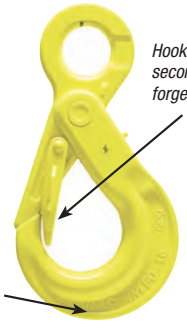
GUNNEBO JOHNSON CORPORATION

All three hooks are equipped with Stainless Steel Triggers.

Latch is protected and will act as a gauge to signal an unsafe bent hook or latch.



BK



BKD



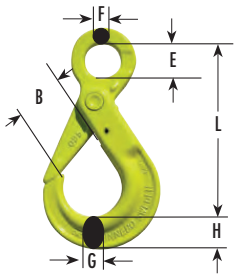
OBK

Alloy BK Self-Locking Hooks

SELF-LOCKING HOOKS - BK (EYE TYPE)

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	E	F	G	H	Weight Each (Lbs.)
590064	BK-6-10	7/32"	100	2,700	4.3	1.1	0.87	0.39	0.59	0.83	1.1
590066	BK-7/8-10	9/32"	100	4,300	5.4	1.5	1.1	0.43	0.67	1.0	2.0
590066	BK-7/8-10	5/16"	100	5,700	5.4	1.5	1.1	0.43	0.67	1.0	2.0
590068	BK-10-10	3/8"	100	8,800	6.6	1.7	1.3	0.51	0.83	1.2	3.3
590069	BK-13-10	1/2"	100	15,000	8.1	2.1	1.7	0.63	1.2	1.5	6.2
590070	BK-16-10	5/8"	100	22,600	10.0	2.4	2.2	0.79	1.5	1.9	12.3
590071	BK-18/20-10	3/4"	100	35,300	11.4	2.7	2.4	0.87	1.7	2.5	18.3
590073	BK-22-10	7/8"	100	42,700	12.6	3.1	2.8	0.9	2.0	2.4	24.9
590074	BK-26-10	1"	100	59,700	13.5	3.9	3.1	1.0	2.1	2.7	36.4
590479	BK-26-10 OFFS**	1"	100	59,700	13.5	3.9	3.1	1.0	2.1	2.7	36.4
590477***	BK-32-8	1 1/4"	80	72,300	15.7	4.7	3.5	1.2	2.4	3.4	52.5

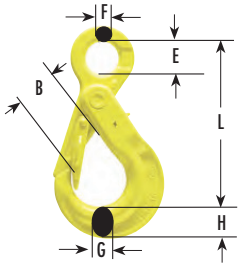
** Design Factor 4:1 Proof tested and certified*
*** DNV 2.7-1 Type Approval*
**** Available only in the traditional Classic yellow color*



DOUBLE LATCH SELF-LOCKING HOOK - BKD

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	E	F	G	H	Weight Each (Lbs.)
590420	BKD-13-10	1/2"	100	15,000	8.1	1.7	1.7	0.63	1.2	1.5	7.1
590423	BKD-16-10	5/8"	100	22,600	10.0	1.9	2.2	0.79	1.5	1.9	12.8
590424	BKD-18/20-10	3/4"	100	35,300	11.4	2.2	2.4	0.87	1.7	2.5	19.4

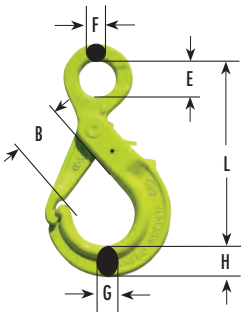
** Design Factor 4:1 Proof tested and certified*



SELF-LOCKING HOOKS - OBK WITH GRIP LATCH (EYE TYPE)

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	E	F	G	H	Weight Each (Lbs.)
590213	OBK-6-10	7/32"	100	2,700	4.1	1.0	0.87	0.35	0.55	0.67	0.88
590215	OBK-7/8-10	9/32"	100	4,300	5.5	1.5	1.1	0.39	0.79	0.87	1.8
590215	OBK-7/8-10	5/16"	100	5,700	5.5	1.5	1.1	0.39	0.79	0.87	1.8
590217	OBK-10-10	3/8"	100	8,800	6.7	1.9	1.3	0.51	0.87	1.1	2.9
590218	OBK-13-10	1/2"	100	15,000	8.1	2.1	1.7	0.59	1.1	1.4	5.3
590219	OBK-16-10	5/8"	100	22,600	9.8	2.7	2.2	0.75	1.1	1.7	9.3
590220	OBK-18/20-10	3/4"	100	35,300	11.5	2.9	2.4	1.02	1.7	2.2	17.9
511006	OBK-22-8	7/8"	80	34,200	13.2	3.4	2.8	0.94	1.6	2.2	22.0

** Design Factor 4:1 Proof tested and certified.*

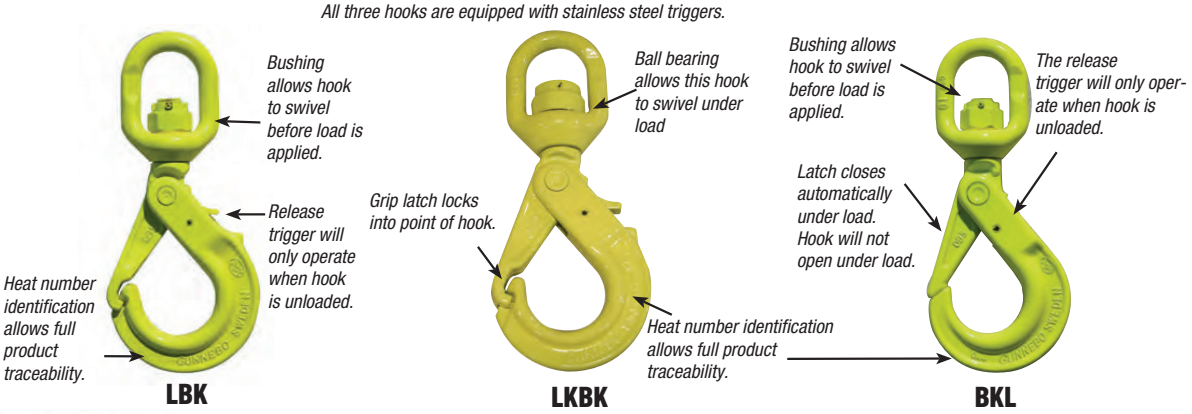


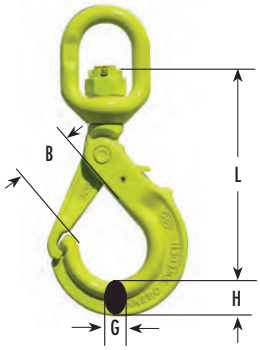
⚠ WARNING
SEE WARNINGS AND USE LIMITATIONS ON PAGES 26-36

Hooks
Self-Locking

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All three hooks are equipped with stainless steel triggers.

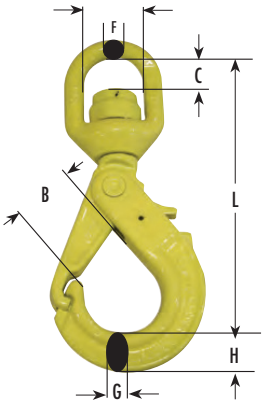




SELF-LOCKING HOOKS - LBK
SWIVEL EYE GRIP LATCH (WITH BRONZE BUSHING)

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	C	E	F	G	H	Weight Each (Lbs.)
589751	LBK-7/8-10	9/32"	100	4,300	6.9	1.5	1.1	1.5	0.47	0.79	0.87	1.8
589751	LBK-7/8-10	5/16"	100	5,700	6.9	1.5	1.1	1.5	0.47	0.79	0.87	1.8
589753	LBK-10-10	3/8"	100	8,800	8.4	1.9	1.4	1.7	0.59	0.87	1.1	4.0
589754	LBK-13-10	1/2"	100	15,000	9.3	2.1	1.9	1.9	0.75	1.1	1.4	8.4
589755	LBK-16-10	5/8"	100	22,600	12.8	2.7	2.6	2.4	0.91	1.1	1.7	13.2

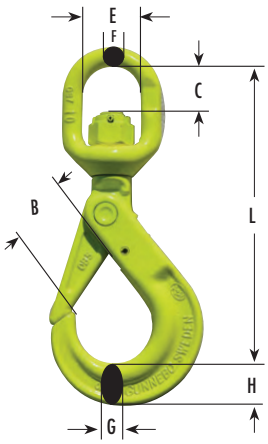
** Design Factor 4:1 Proof tested and certified.*
Note: Hook may not be swiveled when under load.



SELF-LOCKING HOOKS - LKBK
SWIVEL EYE GRIP LATCH (WITH BALL BEARINGS)

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	C	E	F	G	H	Weight Each (Lbs.)
589963	LKBK-7/8-10	9/32"	100	4,300	6.9	1.5	1.1	1.5	0.47	0.79	0.87	1.8
589963	LKBK-7/8-10	5/16"	100	5,700	6.9	1.5	1.1	1.5	0.47	0.79	0.87	1.8
589965	LKBK-10-10	3/8"	100	8,800	8.4	1.9	1.4	1.7	0.59	0.87	1.1	4.0
589966	LKBK-13-10	1/2"	100	15,000	9.3	2.1	1.9	1.9	0.75	1.1	1.4	8.4
589967	LKBK-16-10	5/8"	100	22,600	12.6	2.7	2.4	2.4	0.91	1.1	1.7	13.2

** Design Factor 4:1 Proof tested and certified.*



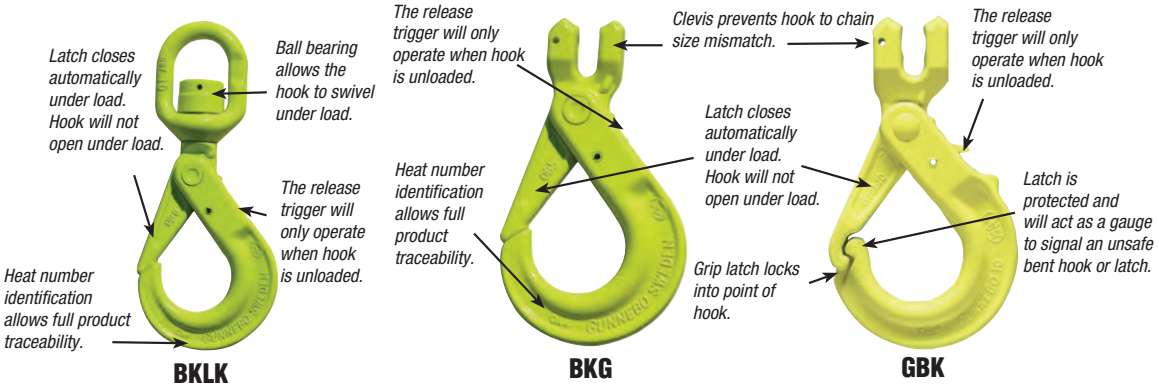
SELF-LOCKING HOOKS - BKL
WITH BRONZE BUSHING (SWIVEL EYE TYPE)

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	C	E	F	G	H	Weight Each (Lbs.)
590102	BKL-6-10	7/32"	100	2,700	5.9	1.1	0.9	1.3	0.43	0.59	0.83	1.5
590104	BKL-7/8-10	9/32"	100	4,300	7.2	1.5	1.1	1.5	0.47	0.67	1.0	2.6
590104	BKL-7/8-10	5/16"	100	5,700	7.2	1.5	1.1	1.5	0.47	0.67	1.0	2.6
590106	BKL-10-10	3/8"	100	8,800	8.6	1.7	1.4	1.7	0.59	0.83	1.2	4.4
590107	BKL-13-10	1/2"	100	15,000	11.0	2.1	1.9	1.9	0.75	1.2	1.5	8.4
590108	BKL-16-10	5/8"	100	22,600	13.5	2.4	2.6	2.4	0.87	1.5	1.9	15.6
590109	BKL-18/20-10	3/4"	100	35,300	14.4	2.7	2.8	2.9	1.0	1.7	2.5	24.5

** Design Factor 4:1 Proof tested and certified.*
Note: Hook may not be swiveled when under load.

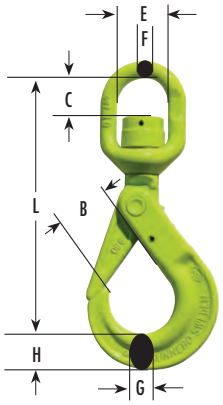
Hooks
Self-Locking

GUNNEBO JOHNSON CORPORATION



SELF-LOCKING HOOKS - BKLK WITH BALL BEARINGS (SWIVEL EYE TYPE)

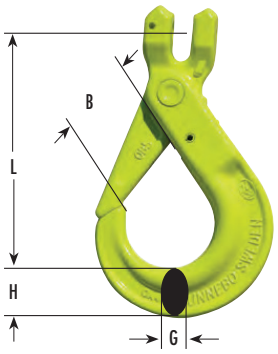
Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	C	E	F	G	H	Weight Each (Lbs.)
590121	BKLK-6-10	7/32"	100	2,700	5.9	1.1	0.94	1.3	0.43	0.59	0.83	1.5
590123	BKLK-7/8-10	9/32"	100	4,300	7.2	1.5	1.1	1.5	0.47	0.67	1.0	2.6
590123	BKLK-7/8-10	5/16"	100	5,700	7.2	1.5	1.1	1.5	0.47	0.67	1.0	2.6
590125	BKLK-10-10	3/8"	100	8,800	8.6	1.7	1.4	1.7	0.59	0.83	1.2	4.2
590126	BKLK-13-10	1/2"	100	15,000	11.1	2.1	1.8	1.9	0.75	1.2	1.5	8.4
590127	BKLK-16-10	5/8"	100	22,600	13.3	2.5	2.5	2.4	0.87	1.5	1.9	15.9
590128	BKLK-18/20-10	3/4"	100	35,300	14.4	2.7	2.3	2.9	1.0	1.7	2.5	24.9
590129	BKLK-22-10	7/8"	100	42,700	17.2	3.1	3.1	3.1	1.4	2.0	2.4	37.0
590130	BKLK-26-10 OFFS **	1"	100	59,700	19.1	3.9	4.3	4.0	1.8	2.1	2.7	57.3
590480	BKLK-32-8 OFFS **	1 1/4"	80	72,300	21.0	4.7	4.3	4.0	1.8	2.4	3.4	71.2



** Design Factor 4:1 Proof tested and certified*
*** DNV 2.7.1 Type Approval*

SELF-LOCKING HOOKS - BKG (CLEVIS TYPE)

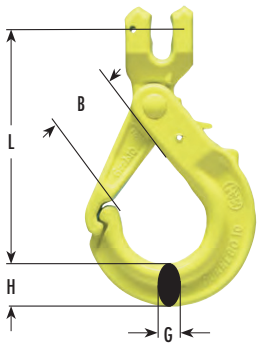
Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	G	H	Weight Each (Lbs.)
590084	BKG-7-10	9/32"	100	4,300	4.7	1.5	0.67	0.98	1.8
590086	BKG-8-10	5/16"	100	5,700	4.8	1.5	0.67	1.0	2.0
590087	BKG-10-10	3/8"	100	8,800	5.6	1.8	0.83	1.2	3.3
590088	BKG-13-10	1/2"	100	15,000	7.1	2.1	1.2	1.5	6.6
590089	BKG-16-10	5/8"	100	22,600	8.9	2.4	1.5	1.9	12.6
590091	BKG-20-10	3/4"	100	35,300	9.4	2.9	1.7	2.5	21.2



** Design Factor 4:1 Proof tested and certified.*

SELF-LOCKING HOOKS - GBK WITH GRIP LATCH (CLEVIS TYPE)

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	G	H	Weight Each (Lbs.)
589737	GBK-7-10	9/32"	100	4,300	4.7	1.5	0.79	0.87	1.8
589739	GBK-8-10	5/16"	100	5,700	4.7	1.5	0.79	0.87	1.8
589740	GBK-10-10	3/8"	100	8,800	5.9	1.9	0.83	1.2	3.1
589741	GBK-13-10	1/2"	100	15,000	6.8	2.1	1.2	1.5	6.0
589742	GBK-16-10	5/8"	100	22,600	8.1	2.4	1.5	1.9	9.7



** Design Factor 4:1 Proof tested and certified.*

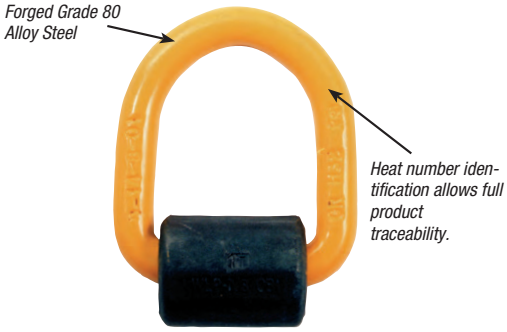
⚠ WARNING
SEE WARNINGS AND USE LIMITATIONS ON PAGES 26-36

Hooks
Weld-On Alloy

GUNNEBO JOHNSON CORPORATION



UKN

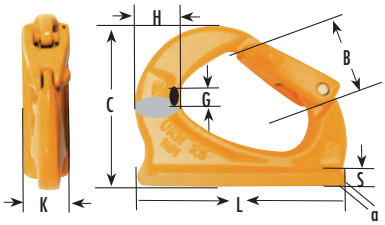


WLP

Alloy Specialty Products

ALLOY WELD-ON HOOKS - UKN

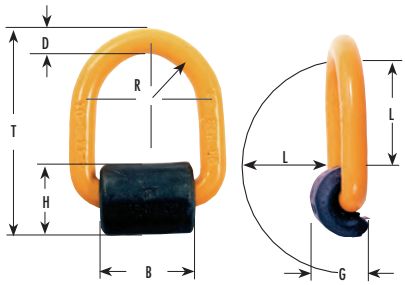
Stock No.	Model	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) B	C	G	H	K	L	S	A	Weight Each (Lbs.)
545818	UKN-0.75	N/A	1650	0.79	2.2	0.51	0.79	0.75	3.2	0.20	0.12	0.66
545817	UKN-1	N/A	2200	0.79	2.8	0.67	1.0	1.0	3.7	0.24	0.16	1.3
589357	UKN-2	N/A	4400	1.0	3.4	0.79	1.2	1.2	4.5	0.31	0.20	2.2
545823	UKN-3	N/A	6600	1.2	4.1	0.91	1.3	1.4	5.2	0.39	0.24	2.9
545816	UKN-4	N/A	8800	1.1	4.5	1.1	1.5	1.7	5.5	0.43	0.28	4.2
545821	UKN-5	N/A	11000	1.3	5.2	1.2	1.9	1.8	6.5	0.47	0.31	6.4
545815	UKN-8	N/A	17600	1.3	5.2	1.6	2.0	2.0	6.8	0.51	0.35	7.7
545822	UKN-10	N/A	22000	1.9	6.7	1.7	2.3	2.2	8.7	0.55	0.35	14.1
589587	UKN-15	N/A	33000	2.1	7.4	2.0	2.6	2.4	9.4	0.59	0.47	19.4



** Design factor 5:1 Proof tested and certified.*
***Welding plate on UKN-0.75, UKN-1, and UKN-2 is slightly curved.*
For welding use electrode AWS A 5.1 E 7018

WELD-ON LIFTING POINT - WLP

Stock No.	Model	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) B	D	G	H	L	R	T	Weight Each (Lbs.)
589422	WLP-1 TON	80	2,200	2.0	0.55	1.1	1.5	2.1	0.94	3.7	1.1
589423	WLP-3 TON	80	6,600	2.3	0.67	1.3	1.9	1.9	1.1	3.8	2.0
589424	WLP-5 TON	80	11,000	2.5	0.87	1.6	2.4	2.9	1.3	5.3	3.7



** Design Factor 4:1 Proof tested and certified.*
Welding instructions included. For welding use electrode AWS A 5.1 E 7018.

WARNING
SEE WARNINGS AND USE LIMITATIONS ON PAGES 26-36

Hooks

GUNNEBO JOHNSON CORPORATION

The SK System

A range of specialized Grade 80 Alloy Steel components for easy assembly to chain, steel wire rope, webbing and round slings. Be creative (mix and match); this system is designed to solve many of your below the hook lifting problems.

The SK System provides:

- Universal coupling of components to chain, wire and synthetic slings.
- Quick and easy assembly - only a hammer needed.
- Foolproof assembly - standardized dimensions within each size range effectively eliminates the wrong assembly of components with different working load limits.
- Heavy hoisting with strong yet lightweight equipment
- all components are manufactured from alloy steel for use with Grade 80 Chain.
- Individual components are proof-load tested to 62% of ultimate.
- Official approval by the main national and international authorities, including MOD, NATO, Norske Veritas, DIN and many others.

Half Link (SKT)



Open Master Link (SKO/SKT)



Closed Master Link (SKG/SKT)



Sling Hook w/Latch (SKN/SKT)



Roller Bearing Swivel Insulated (SKLI)





Web/Roundsling Coupler (SKR)

Coupling Pin w/ Lockwasher (SKA)



SK SYSTEM COMPONENT SELECTION TABLE

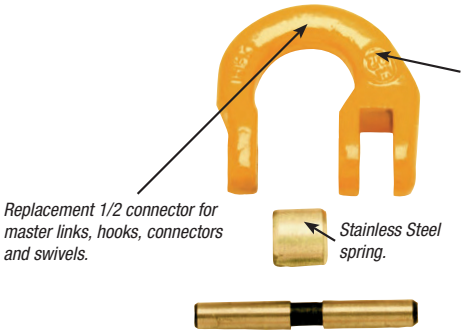
Assembly	Description	Component 1		Component 2	
SKR CONNECTOR WITH SKA PIN & LOCKWASHER					
545591	SKR/SKA	500021	SKR-7/8-8	545231	SKA-7/8-8
545592	SKR/SKA	500022	SKR-10-8	545232	SKA-10-8
545593	SKR/SKA	500023	SKR-13-8	545233	SKA-13-8
545594	SKR/SKA	500024	SKR-16-8	545234	SKA-16-8
545595	SKR/SKA	500025	SKR-18/20-8	545235	SKA-18/20-8
545596	SKR/SKA	500026	SKR-22-8	545236	SKA-22-8
545597	SKR/SKA	500027	SKR-26-8	545237	SKA-26-8
SKG WITH SKT HALFLINK					
512620	SKG/SKT	555620	SKG-7/8-8	545931	SKT-7/8-8
512630	SKG/SKT	555630	SKG-10-8	545932	SKT-10-8
512650	SKG/SKT	555650	SKG-13-8	545933	SKT-13-8
512680	SKG/SKT	555680	SKG-16-8	545934	SKT-16-8
512700	SKG/SKT	555700	SKG-18/20-8	545935	SKT-18/20-8
SKO WITH SKT HALFLINK					
545421	SKO/SKT	555421	SKO-7/8-8	545931	SKT-7/8-8
545422	SKO/SKT	555422	SKO-10-8	545932	SKT-10-8
545423	SKO/SKT	555423	SKO-13-8	545933	SKT-13-8
545424	SKO/SKT	555424	SKO-16-8	545934	SKT-16-8
545425	SKO/SKT	555425	SKO-18/20-8	545935	SKT-18/20-8
SKN WITH SKT HALFLINK					
545621	SKN/SKT-7/8-8	555621	SKN-7/8-8	545931	SKT-7/8-8
545621	SKN/SKT-7/8-8	555621	SKN-7/8-8	545931	SKT-7/8-8
545622	SKN/SKT-10-8	555622	SKN-10-8	545932	SKT-10-8
590340	ESKN/SKT-13-8	589579	ESKN-13-8	545933	SKT-13-8
589609	ESKN/SKT-16-8	589580	ESKN-16-8	545934	SKT-16-8
589610	ESKN/SKT-18/20-8	589581	ESKN-18/20-8	545935	SKT-18/20-8

WARNING

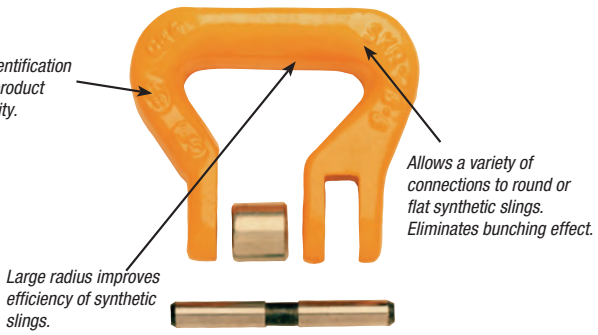
SEE WARNINGS AND USE LIMITATIONS ON PAGES 26-36

Connecting Links
Synthetic Slings

GUNNEBO JOHNSON CORPORATION



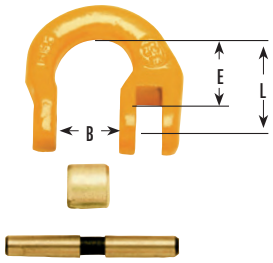
SKT



SKR/SKA

HALF LINK WITH PIN/LOCK WASHER - SKT

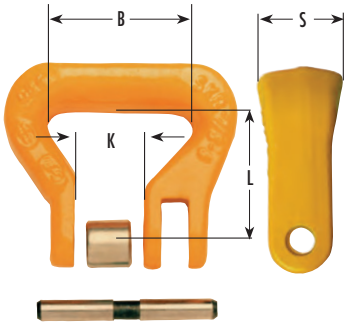
Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	G	E	Weight Each (Lbs.)
545931	SKT-7/8-8	9/32"	80	3,500	1.1	0.71	0.35	0.87	0.22
545931	SKT-7/8-8	5/16"	80	4,500	1.1	0.71	0.35	0.87	0.22
545932	SKT-10-8	3/8"	80	7,100	1.3	1.0	0.5	1.0	0.44
545933	SKT-13-8	1/2"	80	12,000	1.7	1.1	0.6	1.3	0.88
545934	SKT-16-8	5/8"	80	18,100	2.0	1.4	0.7	1.6	1.5
545935	SKT-18/20-8	3/4"	80	28,300	2.5	1.7	0.9	1.9	2.4
545226	SKT-22-8	7/8"	80	34,200	3.0	2.0	0.9	2.4	3.7
545227	SKT-26-8	1"	80	47,700	3.1	2.3	1.1	2.4	5.7
545228	SKT-32-8	1 1/4"	80	72,300	3.9	2.8	1.4	3.1	10.8



** Design Factor 4:1 Proof tested and certified.*
Note: G80 SKT for use with G80 SKLI, SKO, SKG, SKS, SKR, SKH, SKN & G-Link only
SKT assembly includes connector, pin, and locking spring

SYNTHETIC SLING CONNECTOR WITH PIN/LOCK WASHER - SKR/SKA

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	B	K	S	Weight Each (Lbs.)
545591	SKR/SKA-7/8-8	9/32"	80	3,500	1.4	1.6	0.71	0.94	0.44
545591	SKR/SKA-7/8-8	5/16"	80	4,500	1.4	1.6	0.71	0.94	0.44
545592	SKR/SKA-10-8	3/8"	80	7,100	1.7	1.9	0.94	1.1	0.88
545593	SKR/SKA-13-8	1/2"	80	12,000	2.0	2.1	1.1	1.4	1.5
545594	SKR/SKA-16-8	5/8"	80	18,100	2.4	2.6	1.4	1.7	2.6
545595	SKR/SKA-18/20-8	3/4"	80	28,300	2.8	3.1	1.7	2.0	4.2
545596	SKR/SKA-22-8	7/8"	80	34,200	4.4	4.9	2.0	2.8	11.7
545597	SKR/SKA-26-8	1"	80	47,700	5.1	5.9	2.3	3.4	19.8



** Design Factor 4:1 Proof tested and certified.*
For components see table on page 14

⚠ WARNING
SEE WARNINGS AND USE LIMITATIONS ON PAGES 26-36

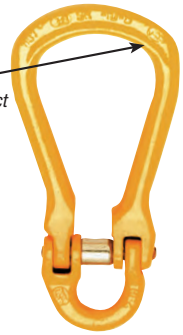
Master Links

GUNNEBO JOHNSON CORPORATION

Pear shape masters closed (SKG) for use with single leg slings, also used in combination with swivels, half links, web sling connectors and hooks.



Heat number identification allows full product raceability.

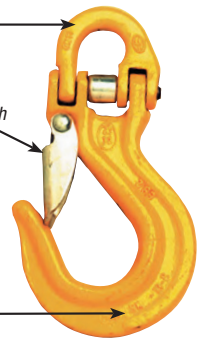


SKG/SKT **SKO/SKT**

Pear shape masters open (SKO) for use with single leg slings, also used in combination with swivels, half links, web sling connectors and hooks.

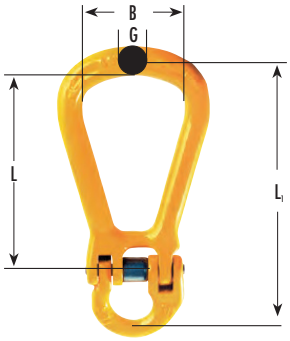
Quick and simple assembly – only a hammer needed.

Hooks supplied with heavy duty latch.



Heat number identification allows full product raceability.

SKN/SKT

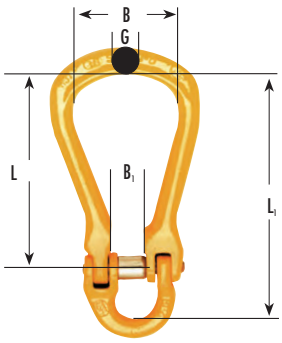


CLOSED MASTER LINKS - SKG/SKT

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	L1	B	G	Weight Each (Lbs.)
512620	SKG/SKT-7/8-8	9/32"	80	3,500	3.9	5.0	2.0	0.55	0.88
512620	SKG/SKT-7/8-8	5/16"	80	4,500	3.9	5.0	2.0	0.55	0.88
512630	SKG/SKT-10-8	3/8"	80	7,100	5.0	6.3	2.6	0.71	1.8
512650	SKG/SKT-13-8	1/2"	80	12,000	5.7	7.4	2.8	0.87	3.3
512680	SKG/SKT-16-8	5/8"	80	18,100	6.9	8.9	3.2	1.0	5.3
512700	SKG/SKT-18/20-8	3/4"	80	28,300	8.0	10.5	4.1	1.2	8.6

** Design Factor 4:1 Proof tested and certified.*

For components, see table on page 14

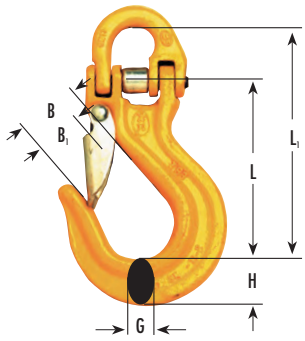


OPEN MASTER LINKS - SKO/SKT

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	L1	B	G	B1	Working Load Limit (Lbs)*
545421	SKO/SKT-7/8-8	9/32"	80	3,500	3.9	5.0	2.0	0.55	0.59	0.88
545421	SKO/SKT-7/8-8	5/16"	80	4,500	3.9	5.0	2.0	0.55	0.59	0.88
545422	SKO/SKT-10-8	3/8"	80	7,100	5.0	6.3	2.6	0.71	0.79	1.8
545423	SKO/SKT-13-8	1/2"	80	12,000	5.7	7.4	2.8	0.87	1.0	3.1
545424	SKO/SKT-16-8	5/8"	80	18,100	6.9	8.9	3.2	1.0	1.2	5.1
545425	SKO/SKT-18/20-8	3/4"	80	28,300	8.0	10.5	4.1	1.2	1.4	8.2

** Design Factor 4:1 Proof tested and certified.*

For components, see table on page 14



SLING HOOKS - SKN/SKT WITH LATCH

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	L1	B	B1	G	H	Weight Each (Lbs.)
545621	SKN/SKT-7/8-8	9/32"	80	3,500	3.5	4.6	1.3	1.1	0.71	0.83	1.10
545621	SKN/SKT-7/8-8	5/16"	80	4,500	3.5	4.6	1.3	1.1	0.71	0.83	1.10
545622	SKN/SKT-10-8	3/8"	80	7,100	4.5	5.9	1.6	1.3	0.91	1.1	2.4
590340	ESKN/SKT-13-8	1/2"	80	12,000	5.7	7.4	2.0	1.7	1.1	1.4	5.1
589609	ESKN/SKT-16-8	5/8"	80	18,100	7.1	9.2	2.4	2.1	1.3	1.7	9.0
589610	ESKN/SKT-18/20-8	3/4"	80	28,300	7.8	10.2	2.6	2.3	1.6	2.0	13.4

** Design Factor 4:1 Proof tested and certified.*

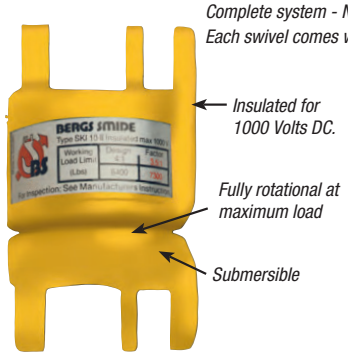
For components, see table on page 14

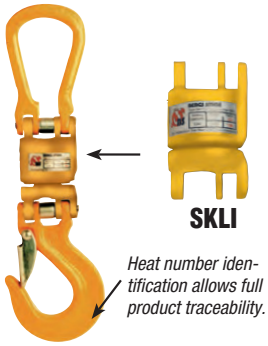
WARNING

SEE WARNINGS AND USE LIMITATIONS ON PAGES 26-36

Hooks
Insulated Swivel

GUNNEBO JOHNSON CORPORATION





Alloy Roller Bearing Swivel Systems

INSULATED SWIVEL - SKLI
INSULATION CAPACITY 1000 VOLTS DC

Stock No.	Model	Chain Size In.	Grade	Working Load Limit *(Lbs)	Dimensions (Inches) L	D	Weight Each (Lbs.)
589327	SKLI-7/8-8	9/32"	80	3,500	3.0	1.9	1.5
589327	SKLI-7/8-8	5/16"	80	4,500	3.0	1.9	1.5
589328	SKLI-10-8	3/8"	80	7,100	3.8	2.3	3.1
589329	SKLI-13-8	1/2"	80	12,000	4.7	3.0	6.4
589330	SKLI-16-8	5/8"	80	18,100	5.4	3.5	10.8
589331	SKLI-18/20-8	3/4"	80	28,300	6.3	4.1	15.9

** Design Factor 4:1 Proof tested and certified.*

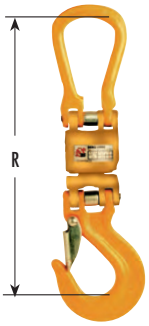


INSULATED SWIVEL SYSTEM DETAILS

Stock No.	Chain Size In.	Grade	Working Load Limit *(Lbs)	Weight Each (Lbs)	Reach (Inches)
589350	9/32	80	3,500	3.2	10.2
589350	5/16	80	4,500	3.2	10.2
589351	3/8	80	7,100	6.3	13.0
590366	1/2	80	12,000	12.0	15.7
590367	5/8	80	18,100	21.0	18.6
590368	3/4	80	28,300	31.0	21.3

** Design Factor 4:1 Proof tested and certified.*

Systems contain (one each per size): "SKO" Master Link "SKLI" Ball Bearing Swivel "SKN" Sling Hook with Latch



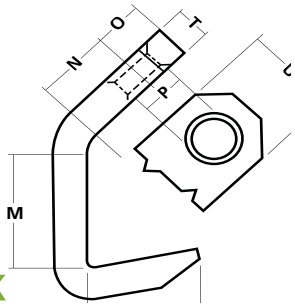
INSULATED SWIVEL SYSTEM COMPONENT SELECTION TABLE

Assembly	Description	Component 1		Component 2		Component 3		Component 4 (2 pieces required)	
SKLI INSULATED ROLLER BEARING SWIVEL SYSTEM									
589350	SKO/SKLI/SKN	555421	SKO-7/8-8	589327	SKLI-7/8-8	555621	SKN-7/8-8	545231	SKA-7/8-8
589351	SKO/SKLI/SKN	555422	SKO-10-8	589328	SKLI-10-8	555622	SKN-10-8	545232	SKA-10-8
590366	SKO/SKLI/ESKN	555423	SKO-13-8	589329	SKLI-13-8	589579	ESKN-13-8	545233	SKA-13-8
590367	SKO/SKLI/ESKN	555424	SKO-16-8	589330	SKLI-16-8	589580	ESKN-16-8	545234	SKA-16-8
590368	SKO/SKLI/ESKN	555425	SKO-18/20-8	589331	SKLI-18/20-8	589581	ESKN-18/20-8	545235	SKA-18/20-8

Lifting Components
Plate Hooks

PEERLESS INDUSTRIAL GROUP KITO



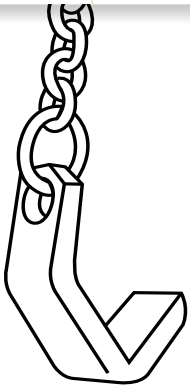


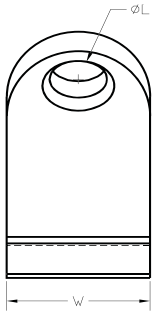
Approved for Overhead Lifting

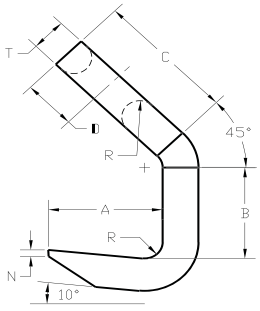
Accoloy® Plate Hook

Accoloy Plate Hooks are designed for the most popular chain sizes - 9/32", 3/8", 1/2", 5/8" and 7/8". They are proof tested to the same values as the corresponding chain - therefore, the same working load limit applies. Fabricated from alloy steel, Plate Hooks can be furnished on Registered Slings as well as with various chain assemblies. Accoloy Plate Hooks are intended for use in handling plates, flats and structurals.

Stock #	Chain Size		Dimensions (Inches)							Lbs. Per Each	WLL (Lbs.)
	Inches	MM	L	M	N	O	P	T	U		
593400400	9/32	7	2.000	2.000	1.500	0.813	0.875	0.750	2.000	2.4	3,500
593400600	3/8	10	2.625	3.000	1.875	1.063	1.125	0.750	2.250	4.6	7,100
593400800	1/2	13	3.500	4.000	2.500	1.375	1.500	1.000	3.000	10.6	12,000
593401000	5/8	16	4.375	5.000	3.125	1.750	1.875	1.250	3.750	20.7	18,100
593401200	3/4	20	5.188	6.000	3.750	2.125	2.500	1.500	4.500	36.7	28,300
593401400	7/8	22	6.000	7.000	4.500	2.438	2.625	1.750	5.250	52.6	34,200









Standard Plate Hook

Stock #	Chain Size		Dimensions (Inches)										Lbs. Per Each	WLL (Lbs.)
	Inches	MM	A	B	C	D	L	M	N	T	W	R		
PHA028	9/32	7	2.000	1.750	2.500	0.930	1.000	3.680	0.120	0.630	2.500	0.310	2.8	4,200
PHA038	3/8	10	2.625	3.000	4.310	1.180	1.120	6.380	0.180	0.750	2.750	0.380	5.7	7,400
PHA050	1/2	13	3.500	4.000	4.380	1.500	1.500	7.370	0.250	1.000	3.500	0.500	13.0	13,000
PHA063	5/8	16	4.375	5.000	5.430	1.870	1.880	9.250	0.310	1.250	5.000	0.630	26.5	20,400
PHA075	3/4	20	5.188	6.000	6.500	2.380	2.250	10.880	0.380	1.500	5.750	0.750	42.0	30,000
PHA088	7/8	22	6.000	7.000	7.630	2.500	2.630	13.680	0.430	1.750	6.000	1.000	65.0	40,000

Lifting Components
Insulated Hooks & Magnet Bails

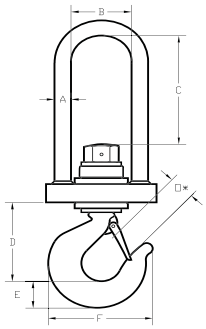
MADE IN USA

PEERLESS INDUSTRIAL GROUP KITO

Approved for Overhead Lifting

Insulated Swivel Hook

Reduce costly handling during welding operations. Avoid shorted fork-lift batteries. Electrically insulated, the insulated hook eliminated current flow that can damage hoists and lifting equipment. Free running bearing allows easy work positioning. Use wherever electrical potentials present a hazard. Safe up to 2,000 volts and 225°F. *Uses SKF bearing for free turning.





Stock #	Dimensions (Inches) A	B	C	D	E	D	O*	Lbs. Per Each	WLL (Lbs.)
IS-4000	0.630	2.250	4.380	2.750	1.150	4.120	1.120	6.0	4,000
IS-8000	0.750	2.500	5.000	3.880	1.430	4.940	1.340	8.8	8,000
IS-12000	1.000	3.000	6.500	4.750	1.810	6.500	1.780	20.0	12,000
IS-20000	1.380	4.000	7.630	6.430	2.560	8.680	2.250	50.0	20,000
IS-40000	1.750	6.000	10.380	9.500	3.630	13.630	3.630	136.0	40,000

Dimension O is clearance under safety latch

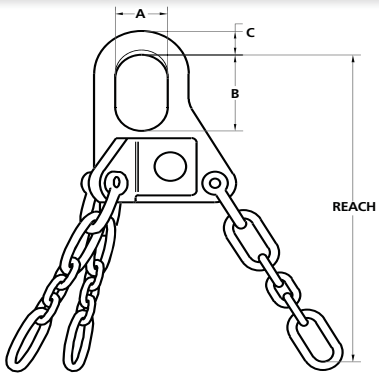
Magnet Stead-i Bails W/Chain Assembly

Stock #	Chain Size Inches	MM	Dimensions (Inches) Reach	A	B	C	D	E	F	# of Links	Magnet Dia. (Inches)	Lbs. Per Each	WLL (Lbs.)
MGB075	3/4	20	34.000	5.000	7.000	2.500	0.880	2.000	5.000	3	up to 43	175	65,000
MGB100	1	26	42.000	7.000	10.000	3.500	1.250	2.500	6.000	3	44 to 60	399	110,000
MGB125	1-1/4	32	52.000	8.000	12.000	4.000	1.500	3.250	8.000	3	60 and over	615	150,000



Replacement Chains

Stock #	Chain Size (Inches)	Stock # to Fit	# of Links	Reach (Inches)	Material Dia. (Inches)	End Link Width (Inches)	End Link Length (Inches)
MGBCH075	3/4	MGB075	3	17.130	0.880	2.000	5.000
MGBCH100	1	MGB100	3	18.250	1.250	2.500	6.000
MGBCH125	1-1/4	MGB125	3	23.630	1.500	3.250	8.000



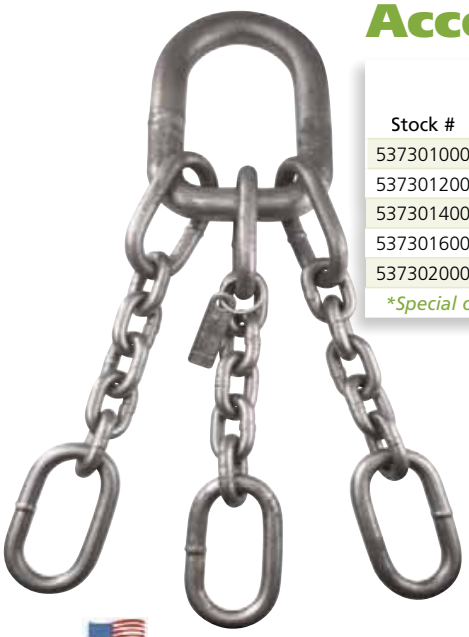
Lifting Chains
Magnet Chains

MADE IN USA

PEERLESS INDUSTRIAL GROUP KITO

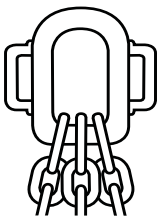
Approved for Overhead Lifting

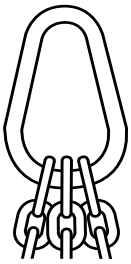
Accoloy® Standard Magnet Chains

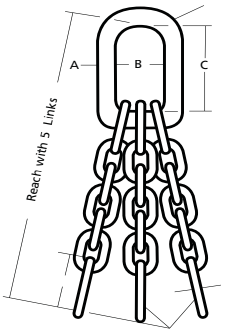


Stock #	Chain Size In.	Chain Size MM	Master Link Dimensions (Inches) A	Master Link Dimensions (Inches) B	Master Link Dimensions (Inches) C	Sublink Dimensions (Inches) A	Sublink Dimensions (Inches) B	Sublink Dimensions (Inches) C	*Reach (5 Links)	Magnet Dia.	Lbs. Per Ea.	WLL (Lbs.) @ 60°
537301000	5/8	16	1.750	6.000	10.000	0.875	2.250	5.500	30.625	up to 40	46	47,000
537301200	3/4	20	2.000	6.000	10.000	1.000	2.500	6.000	34.000	up to 45	66	73,500
537301400	7/8	22	2.250	6.500	11.500	1.000	2.500	6.000	36.875	up to 48	90	88,900
537301600	1	26	2.250	6.500	11.500	1.250	3.000	7.000	40.000	up to 60	122	123,900
537302000	1-1/4	32	2.500	6.500	12.750	1.500	3.000	7.000	45.500	60 & over	194	187,800

Special order reaches available

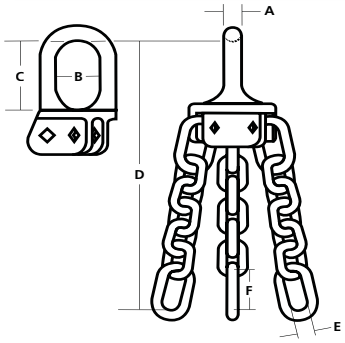

Handles Optional


Pear Shaped Master Link Optional



Accoloy® Steady-Lift Magnetic Chains
(3 Point Suspension)

Stock #	Chain Size Inches	Chain Size MM	Dimensions (Inches) A	B	C	D (Reach)	E	F	# of Links	Magnet Dia. (Inches)	Lbs. Per Each	WLL (Lbs.)
537101600	1	26	2.250	7.000	12.000	43.000	3.000	7.000	5	up to 60	235	100,000
537102000	1-1/4	32	2.500	7.000	12.000	55.000	3.000	7.000	7	60 and over	375	150,000



Eliminates Costly Down Time With Lift After Lift, Built-In Dependability.

- **Ease of Use** - Designed so bail stands up while chain rests on floor, there is no wrestling with the bail for hook-up.
- **Balanced Loading** - Three point suspension offers superior stability.
- **Wearability** - Engineered and built for increased service life, with heat treated bail, pins, alloy chain and end links.
- **Less Down Time** - Easy inspection, replaceable pins, legs and bail mean more time on the job and fewer off-site repairs.

Replacement Parts

Magnet Chain Size (Inches)	Pin	Leg	Yoke
1	537101630	537101620	537101610
1-1/4	537102030	537102020	537102010

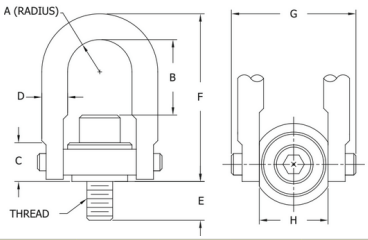
Swivel Hoist Rings
Imperial

MADE IN USA

ACTEK
MANUFACTURING & ENGINEERING

READ SAFETY PRECAUTION PRIOR TO USE





- 200% Proof-Load Tested with Serial Number for Traceability
- Swivels 360° - Pivots 180°
- Material: Alloy Steel
- Finish: Black Oxide (Also available: Cadmium Plated, Electroless Nickel Plated, Zinc Plated)
- Safety Factor: 5:1
- Magnetic Particle Inspected
- Certified Heat Treatment
- Rated at 100% from 0°-90°
- Fatigue Tested to 20,000 Cycles at 1-1/2x the Rated Load
- Meets or Exceeds the Requirements of ASME B30.26
- Thread: Longer Thread Projection and Fine Threads Available
- Comforms to CE

RATED LOADS (LBS)	THREAD SIZE	A	C	D	E	STANDARD U-BAR			LONG U-BAR			G	H	TORQUE (FT-LBS)	WT. (LBS)
						PART NO.	B	F	PART NO.	B	F				
600	1/4-20	0.43	0.71	3/8	0.54	46100	1.27	2.67				1.84	1.00	6	0.3
800	5/16-18	0.43	0.71	3/8	0.29	46102	1.27	2.67				1.84	1.00	7	0.3
800	5/16-18	0.43	0.71	3/8	0.54	46104	1.27	2.67				1.84	1.00	7	0.3
1,000	3/8-16	0.43	0.71	3/8	0.54	46106	1.27	2.67				1.84	1.00	12	0.3
1,250	7/16-14	0.43	0.73	3/8	0.79	46351	1.20	2.67				1.84	1.00	22	0.4
1,500	1/2-13	0.43	0.73	3/8	0.79	46352	1.15	2.67				1.84	1.00	28	0.4
2,000	7/16-14	0.70	0.93	1/2	1.07	46606	1.90	3.77				2.58	1.49	22	1.0
2,500	1/2-13	0.70	0.93	1/2	1.07	46602	1.84	3.77				2.58	1.49	28	1.0
2,000	7/16-14	0.88	1.22	3/4	0.78	46000	2.37	4.78	46638	4.34	6.72	3.52	1.99	22	2.6
2,500	1/2-13	0.88	1.22	3/4	0.78	46008	2.31	4.78	46644	4.25	6.72	3.52	1.99	28	2.6
2,500	1/2-13	0.88	1.22	3/4	1.03	46010	2.31	4.78	46646	4.25	6.72	3.52	1.99	28	2.6
2,500	1/2-13	0.88	1.22	3/4	1.28	46012	2.31	4.78	46648	4.25	6.72	3.52	1.99	28	2.6
2,500	9/16-12	0.88	1.22	3/4	0.78	46007	2.25	4.78	46651	4.19	6.72	3.52	1.99	30	2.6
4,000	5/8-11	0.88	1.22	3/4	0.78	46002	2.18	4.78	46641	4.12	6.72	3.52	1.99	60	2.6
4,000	5/8-11	0.88	1.22	3/4	1.03	46004	2.18	4.78	46640	4.12	6.72	3.52	1.99	60	2.6
4,000	5/8-11	0.88	1.22	3/4	1.28	46006	2.18	4.78	46642	4.12	6.72	3.52	1.99	60	2.6
4,000	5/8-11	0.88	1.22	3/4	1.53	46005	2.18	4.78	46643	4.12	6.72	3.52	1.99	60	2.6
5,000	3/4-10	0.88	1.22	3/4	1.03	46014	2.06	4.78	46650	4.00	6.72	3.52	1.99	100	3.0
5,000	3/4-10	0.88	1.22	3/4	1.53	46018	2.06	4.78	46654	4.00	6.72	3.52	1.99	100	3.0
6,000	7/8-9	0.88	1.24	3/4	1.53	46353	1.94	4.78	41604	3.88	6.72	3.52	1.99	160	3.0
6,500	1-8	0.88	1.24	3/4	1.53	46354	1.71	4.78	41606	3.75	6.72	3.52	1.99	230	3.0
7,000	3/4-10	1.40	1.71	1	1.04	46204	3.06	6.52	46658	4.65	8.11	5.14	3.00	100	7.0
7,000	3/4-10	1.40	1.71	1	1.54	46206	3.06	6.52	46660	4.65	8.11	5.14	3.00	100	7.0
8,000	7/8-9	1.40	1.71	1	1.04	46202	2.93	6.52	46656	4.52	8.11	5.14	3.00	160	7.0
8,000	7/8-9	1.40	1.71	1	1.29	46203	2.93	6.52	46657	4.52	8.11	5.14	3.00	160	7.0
8,000	7/8-9	1.40	1.71	1	1.54	46205	2.93	6.52	46655	4.52	8.11	5.14	3.00	160	7.0
10,000	1-8	1.40	1.71	1	1.29	46210	2.81	6.52	46662	4.40	8.11	5.14	3.00	230	7.5
10,000	1-8	1.40	1.71	1	1.54	46212	2.81	6.52	46664	4.40	8.11	5.14	3.00	230	7.5
10,000	1-8	1.40	1.71	1	2.29	46214	2.81	6.52	46666	4.40	8.11	5.14	3.00	230	7.5
10,000	1 1/8-7	1.40	1.71	1	2.29	46216	2.69	6.52	46668	4.28	8.11	5.14	3.00	230	7.5
10,000	1 1/8-8	1.40	1.71	1	2.29	46217	2.69	6.52	46669	4.28	8.11	5.14	3.00	230	7.5
11,500	1 1/4-7	1.40	1.88	1	2.10	46355	2.44	6.52	41612	4.24	8.11	5.14	3.00	470	8.0
12,000	1 3/8-6	1.40	1.88	1	2.10	46356	2.31	6.52	41614	4.13	8.11	5.14	3.00	470	8.0
12,500	1 1/2-6	1.40	1.88	1	2.10	46357	2.19	6.52	41616	4.00	8.11	5.14	3.00	800	8.0

Swivel Hoist Rings
Imperial

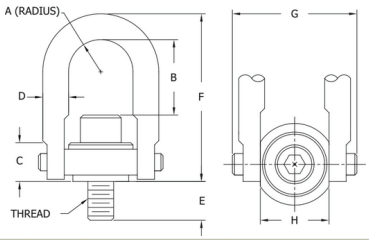
MADE IN USA

ACTEK
MANUFACTURING & ENGINEERING

READ SAFETY PRECAUTION PRIOR TO USE

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- Swivels 360° - Pivots 180°
- Material: Alloy Steel
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- Safety Factor: 5:1
- Magnetic Particle Inspected
- Certified Heat Treatment
- Rated at 100% from 0°-90°
- Fatigue Tested to 20,000 Cycles at 1-1/2x the Rated Load
- Meets or Exceeds the Requirements of ASME B30.26
- Thread: Longer Thread Projection and Fine Threads Available
- Comforms to CE





RATED LOADS (LBS)	THREAD SIZE	A	C	D	E	STANDARD U-BAR			LONG U-BAR			G	H	TORQUE (FT-LBS)	WT. (LBS)
						PART NO.	B	F	PART NO.	B	F				
15,000	1 1/4-7	1.75	2.11	1-1/4	1.89	46802	4.12	8.73				6.50	3.76	470	14.0
15,000	1 1/4-8	1.75	2.11	1-1/4	1.89	46805	4.12	8.73				6.50	3.76	470	14.0
15,000	1 3/8-6	1.75	2.11	1-1/4	1.89	46806	4.06	8.73				6.50	3.76	470	14.5
15,000	1 3/8-8	1.75	2.11	1-1/4	1.89	46807	4.06	8.73				6.50	3.76	470	14.5
16,500	1 1/2-6	1.75	2.17	1-1/4	2.80	46359	4.02	8.73				6.50	3.76	800	16.0
17,000	1 5/8-5 1/2	1.75	2.17	1-1/4	2.80	46360	3.90	8.73				6.50	3.76	800	16.0
17,500	1 3/4-5	1.75	2.17	1-1/4	2.80	46361	3.77	8.73				6.50	3.76	800	16.0
18,000	1 7/8-5	1.75	2.17	1-1/4	2.80	46362	3.65	8.73				6.50	3.76	800	16.0
18,500	2-4 1/2	1.75	2.17	1-1/4	2.80	46363	3.52	8.73				6.50	3.76	800	16.0
20,000	1 3/8-6	2.00	2.43	1-1/2	2.50	46702	5.50	10.20				7.46	4.31	540	23.0
24,000	1 1/2-6	2.25	2.81	1-3/4	2.70	46404	6.41	12.47				8.55	4.87	800	34.0
24,000	1 1/2-8	2.25	2.81	1-3/4	2.70	46405	6.41	12.47				8.55	4.87	800	34.0
24,000	1 3/4-5	2.25	2.81	1-3/4	3.20	46408	6.16	12.47				8.55	4.87	800	34.0
24,000	1 3/4-8	2.25	2.81	1-3/4	3.20	46406	6.16	12.47				8.55	4.87	800	34.0
30,000	2-4 1/2	2.25	2.81	1-3/4	3.20	46400	5.91	12.47				8.55	4.87	800	36.0
30,000	2-8	2.25	2.81	1-3/4	3.20	46440	5.91	12.47				8.55	4.87	800	36.0
30,000	2 1/4-4 1/2	2.25	2.81	1-3/4	3.20	46431	5.66	12.47				8.55	4.87	800	40.0
30,000	2 1/4-8	2.25	2.81	1-3/4	3.20	46435	5.66	12.47				8.55	4.87	800	40.0
32,500	2 1/4-4 1/2	2.25	3.03	1-3/4	2.90	46364	5.86	12.47				8.55	4.87	800	40.0
35,000	2 1/2-4	2.25	3.03	1-3/4	3.90	46365	5.63	12.47				8.55	4.87	2100	40.0
35,000	2 1/2-8	2.25	3.03	1-3/4	3.90	46368	5.63	12.47				8.55	4.87	2100	40.0
50,000	2 1/2-8	3.00	4.09	2-1/4	4.00	47002	8.03	16.87				10.67	6.52	2100	88.0
50,000	2 1/2-4	3.00	4.09	2-1/4	4.00	47006	8.03	16.87				10.67	6.52	2100	88.0
50,000	2 3/4-4	3.00	4.09	2-1/4	4.00	47008	7.75	16.87				10.67	6.52	2100	90.0
50,000	2 3/4-8	3.00	4.09	2-1/4	4.00	47010	7.75	16.87				10.67	6.52	2100	90.0
55,000	2 3/4-4	3.00	4.34	2-1/4	4.00	46366	6.16	16.87				11.67	6.52	2100	92.0
60,000	3-4	3.00	4.34	2-1/4	5.00	46367	6.16	16.87				11.67	6.52	4300	92.0
75,000	3-4	3.75	5.27	2-3/4	5.25	47200	8.48	19.50				14.15	8.10	4300	166.0
75,000	3-8	3.75	5.27	2-3/4	5.25	47202	8.48	19.50				14.15	8.10	4300	166.0
80,000	3 1/2-4	3.75	5.27	2-3/4	5.00	46332	7.98	19.50				14.15	8.10	5100	172.0
80,000	3 1/2-8	3.75	5.27	2-3/4	5.00	46334	7.98	19.50				14.15	8.10	5100	172.0
100,000	3 1/2-4	4.00	6.06	3-1/4	7.00	47402	9.28	22.09				15.90	8.60	5100	265.0
100,000	3 1/2-8	4.00	6.06	3-1/4	7.00	47406	9.28	22.09				15.90	8.60	5100	265.0
250,000	6-4	6.00	14.00	5	9.00	47602	14.00	33.00				25.00	13.00	9900	790.0

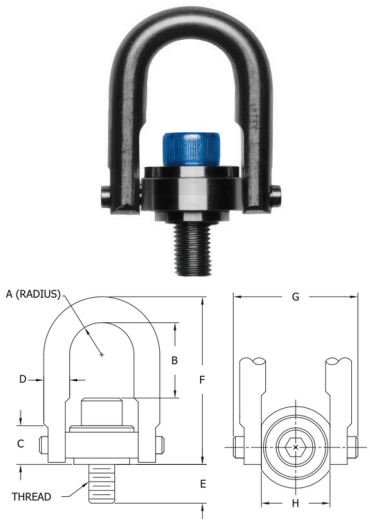
Swivel Hoist Rings
Metric

MADE IN USA

ACTEK
MANUFACTURING & ENGINEERING

METRIC SAFETY SWIVEL HOIST RING

READ SAFETY PRECAUTION PRIOR TO USE



- 200% Proof-Load Tested with Serial Number for Traceability
- Swivels 360° - Pivots 180°
- Material: Alloy Steel
- Finish: Black Oxide (Also available: Cadmium Plated, Electroless Nickel Plated, Zinc Plated)
- Safety Factor: 5:1
- Magnetic Particle Inspected
- Certified Heat Treatment
- Rated at 100% from 0°-90°
- Fatigue Tested to 20,000 Cycles at 1-1/2x the Rated Load
- Meets or Exceeds the Requirements of ASME B30.26
- Thread: Longer Thread Projection and Fine Threads Available
- Comforms to CE

RATED LOADS (KGS)	THREAD SIZE	A	C	D	STANDARD U-BAR			LONG U-BAR				G	H	TORQUE N-M	WT. (LBS)
					E	PART NO.	B	F	PART NO.	B	F				
400	M8x1.25	11	18	10	13	46912	32	68				47	25	9	0.4
400	M8x1.25	11	18	10	18	46913	32	68				47	25	9	0.4
500	M10x1.50	11	18	10	18	46916	30	68				47	25	16	0.4
625	M12x1.75	11	19	10	23	49301	28	68				47	25	37	0.4
1,050	M12x1.75	18	24	13	27	46608	48	96				66	38	37	1.0
1,050	M12x1.75	22	31	19	19	46924	60	121	47124	110	171	89	51	37	2.5
1,050	M14x2.00	22	31	19	29	46928	58	121	47128	108	171	89	51	40	2.5
1,900	M16x2.00	22	31	19	24	46933	56	121	47126	106	171	89	51	80	2.5
1,900	M16x2.00	22	31	19	29	46930	56	121	47130	106	171	89	51	80	2.5
1,900	M18x2.50	22	31	19	29	46934	54	121	47134	104	171	89	51	90	2.5
2,150	M20x2.50	22	31	19	29	46938	52	121	47132	102	171	89	51	135	2.7
2,150	M20x2.50	22	31	19	34	46936	52	121	47136	102	171	89	51	135	2.7
2,650	M22x2.50	22	32	19	39	49302	50	121	49351	100	171	89	51	311	3.0
2,850	M24x3.00	22	32	19	39	49303	48	121	49353	98	171	89	51	311	3.0
3,000	M20x2.50	36	43	25	27	46941	78	166	47140	118	206	131	76	135	6.7
3,000	M20x2.50	36	43	25	32	46942	78	166	47142	118	206	131	76	135	6.7
3,000	M22x2.50	36	43	25	37	46944	76	166	47144	116	206	131	76	135	7.0
4,200	M24x3.00	36	43	25	32	46947	74	166	47146	114	206	131	76	311	7.0
4,200	M24x3.00	36	43	25	37	46948	74	166	47148	114	206	131	76	311	7.0
4,200	M30x3.50	36	43	25	58				46950	108	206	131	76	637	7.0
5,000	M33x3.50	36	48	25	42	49304	65	166	49355	105	206	131	76	637	8.5
5,500	M36x4.00	36	48	25	52	49305	62	166	49357	102	206	131	76	1085	8.5
7,000	M30x3.50	45	54	32	42	46956	106	222				165	95	637	15.0
7,000	M30x3.50	45	54	32	46	46955	106	222				165	95	637	15.0
7,000	M30x3.50	45	54	32	62	46958	106	222				165	95	637	15.0
7,000	M30x3.50	45	54	32	67	46957	106	222				165	95	637	15.0
7,000	M33x3.50	45	54	32	67	46960	103	222				165	95	637	15.0
8,500	M36x4.00	45	55	32	56	49306	100	222				165	95	1085	16.0

Swivel Hoist Rings
Metric

MADE IN USA

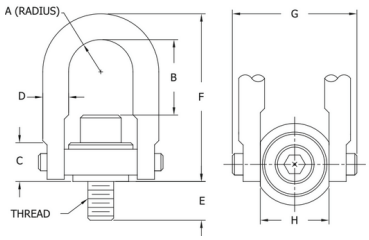
ACTEK
MANUFACTURING & ENGINEERING

METRIC SAFETY SWIVEL HOIST RING

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RATED LOADS (KGS)	THREAD SIZE	A	C	D	STANDARD U-BAR			LONG U-BAR				G	H	TORQUE N-M	WT. (LBS)
					E	PART NO.	B	F	PART NO.	B	F				
9,000	M39x4.00	45	55	32	56	49307	97	222				165	95	1085	17.0
9,250	M42x4.50	45	55	32	66	49308	94	222				165	95	1085	18.0
9,500	M45x4.50	45	55	32	66	49309	91	222				165	95	1085	18.0
9,500	M46x5.00	45	55	32	66	49310	90	222				165	95	1085	18.0
10,000	M48x5.00	45	55	32	66	49311	88	222				165	95	1085	18.0
10,000	M33x3.50	50	62	38	58	46961	140	259				189	109	637	23.0
10,000	M33x3.50	50	62	38	68	46962	140	259				189	109	637	23.0
11,000	M36x4.00	57	71	44	58	46963	166	317				217	124	1085	35.0
11,000	M36x4.00	57	71	44	63	46966	166	317				217	124	1085	35.0
11,000	M36x4.00	57	71	44	68	46964	166	317				217	124	1085	35.0
12,500	M42x4.50	57	71	44	68	46965	160	317				217	124	1085	36.0
12,500	M42x4.50	57	71	44	83	46968	160	317				217	124	1085	36.0
13,500	M48x5.00	57	71	44	68	46980	154	317				217	124	1085	38.0
13,500	M48x5.00	57	71	44	83	46970	154	317				217	124	1085	38.0
13,500	M48x5.00	57	71	44	88	46979	154	317				217	124	1085	38.0
13,500	M56x5.50	57	71	44	88	46973	154	317				217	124	1085	38.0
14,500	M52x5.00	57	77	44	83	49312	150	317				217	124	1085	42.0
15,500	M56x5.50	57	77	44	83	49313	146	317				217	124	1085	42.0
16,500	M64x6.00	57	77	44	93	49314	138	317				217	124	2847	42.0
22,300	M64x6.00	76	104	57	101	46972	204	428				271	165	2847	86.0
24,500	M72x6.00	76	110	57	100	49315	196	428				296	165	5830	92.0
26,500	M80x6.00	76	110	57	110	49316	188	428				296	165	5830	92.0
31,500	M72x6.00	95	133	70	132	46988	220	495				359	206	5830	165.0
31,500	M80x6.00	95	133	70	132	46989	200	495				359	206	5830	165.0
33,000	M90x6.00	95	133	70	140	49317	200	495				359	206	6914	280.0
33,000	M100x6.00	95	133	70	150	49318	200	495				359	206	6914	280.0
44,600	M90x6.00	102	153	83	177	46990	235	561				404	218	6914	260.0
44,600	M100x6.00	102	153	83	200	46994	235	561				404	218	6914	280.0

Swivel Hoist Rings
Street Plate

MADE IN USA

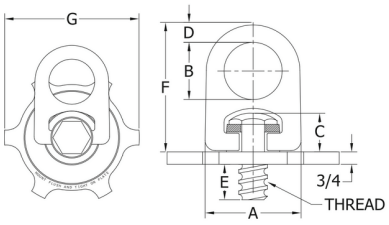
ACTEK
MANUFACTURING & ENGINEERING

FORGED STREET PLATE LIFTING RING

PATENT # 6,161,883, 6,161,884, & 6,578,889

READ SAFETY PRECAUTION PRIOR TO USE







- 200% Proof-Load Tested with Serial Number for Traceability
- Swivels 360° - Pivots 180°
- Material: Alloy Steel
- Finish: Black Oxide
- Safety Factor: 5:1
- Magnetic Particle Inspected
- Certified Heat Treatment
- Rated at 100% from 0°-90°

PART NO.	RATED LOAD (LBS)	A	B	C	D	E	F	G	THREAD TYPE	THREAD SIZE	WT. (LBS)
38005	5,000	4.05	2.40	1.97	3/4	3/4	5.60	5-1/2	COIL	3/4	8.0
38015	5,000	4.05	2.40	1.97	3/4	1	5.60	5-1/2	COIL	1	8.0
38045	5,000	4.05	2.40	1.97	3/4	3/4	5.60	5-1/2	ACME	3/4	8.0
38055	5,000	4.05	2.40	1.97	3/4	1	5.60	5-1/2	ACME	1	8.0
38025	5,000	4.05	2.40	1.97	3/4	3/4	5.60	5-1/2	UNC	3/4	8.0
38035	5,000	4.05	2.40	1.97	3/4	1	5.60	5-1/2	UNC	1	8.0
38215	10,000	5.40	3.20	2.62	1	1	7.48	7	COIL	1-1/4	16.0
38225	10,000	5.40	3.20	2.62	1	1-1/2	7.48	7	COIL	1-1/2	16.0
38235	10,000	5.40	3.20	2.62	1	1	7.48	7	ACME	1-1/4	16.0
38245	10,000	5.40	3.20	2.62	1	1-1/2	7.48	7	ACME	1-1/2	16.0
38255	10,000	5.40	3.20	2.62	1	1	7.48	7	UNC	1-1/4	16.0
38915	10,000	5.40	3.20	2.62	1	1-1/2	7.48	7	UNC	1-1/2	16.0
38865	15,000	6.75	4	3.28	1-1/4	1	9.35	9	COIL	1-1/4	28.0
38875	15,000	6.75	4	3.28	1-1/4	1-1/2	9.35	9	COIL	1-1/2	28.0
38885	15,000	6.75	4	3.28	1-1/4	1	9.35	9	ACME	1-1/4	28.0
38895	15,000	6.75	4	3.28	1-1/4	1-1/2	9.35	9	ACME	1-1/2	28.0
38870	15,000	6.75	4	3.28	1-1/4	1	9.35	9	UNC	1-1/4	28.0
38890	15,000	6.75	4	3.28	1-1/4	1-1/2	9.35	9	UNC	1-1/2	28.0

*VARIOUS THREAD LENGTHS & DIAMETERS AVAILABLE

Swivel Hoist Rings
Street Plate

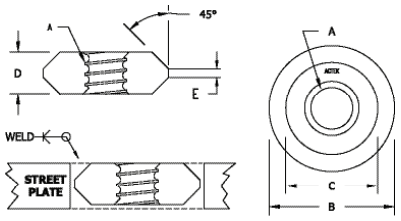
MADE IN USA

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STREET PLATE NUT

PATENT # 6,231,267

SEE WELDING INSTRUCTIONS





- Material: Alloy Steel
- Finish: Black Oxide
- Safety Factor: 5:1
- Magnetic Particle Inspected
- Certified Heat Treatment

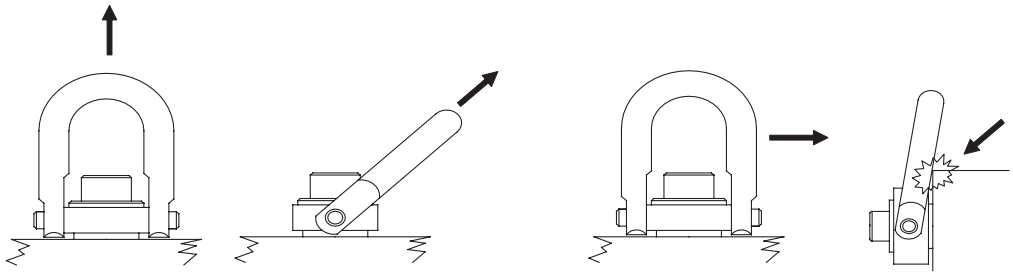
PART NO.	THREAD TYPE	THREAD SIZE (A)	B	C	D	PART NO.	THREAD TYPE	THREAD SIZE (A)	B	C	D
48808	COIL	3/4-4.5	3	2-1/8	3/4	48819	ACME	1-1/4-5	3	2-1/8	7/8
48801	COIL	1-3.5	3	2-1/8	3/4	48820	ACME	1-1/4-5	3	2-1/8	1
48802	COIL	1-3.5	3	2-1/8	7/8	48828	ACME	1-1/2-5	3-1/2	2-3/8	1
48803	COIL	1-3.5	3	2-1/8	1	48824	ACME	1-1/2-5	3-1/2	2-3/8	1-1/2
48812	COIL	1-1/4-3.5	3	2-1/8	3/4	48821	UNC	3/4-10	3	2-1/8	3/4
48815	COIL	1-1/4-3.5	3	2-1/8	7/8	48823	UNC	1-8	3	2-1/8	1
48822	COIL	1-1/4-3.5	3	2-1/8	1	48825	UNC	1-1/4-7	3	2-1/8	1
48816	COIL	1-1/4-3.5	3	2-1/8	1-1/4	48805	UNC	1-1/4-7	3	2-1/8	1-1/2
48817	COIL	1-1/4-3.5	3	2-1/8	1-1/2	48831	UNC	1-1/2-6	3	2-1/8	1
48804	COIL	1-1/2-3.5	3-1/2	2-3/8	1	48826	UNC	1-1/2-6	3-1/2	2-3/8	1
48806	COIL	1-1/2-3.5	3-1/2	2-3/8	1-1/4	48827	UNC	1-1/2-6	3-1/2	2-3/8	1-1/2
48856	COIL	1-1/2-3.5	3-1/2	2-3/8	1-1/2	48829	UNC	2-4-1/2	3-1/2	2-3/8	1-1/2

Swivel Hoist Rings
Safe, Care & Use

MADE IN USA

ACTEK
MANUFACTURING & ENGINEERING

HOIST RING INSPECTION & MAINTENANCE



RIGHT RIGHT WRONG WRONG

Important: The load on each hoist ring is not simply total weight divided by the number of hoist rings. The resultant force can be significantly greater at shallow lift angles and with unevenly distributed loads. See the example and chart below.

L = Load experienced by hoist ring
W = Total weight = 2,000 Lbs.
N = Number of hoist rings = 4
A = Lifting angle

$$L = \frac{W}{N \sin A}$$

If A = 60:

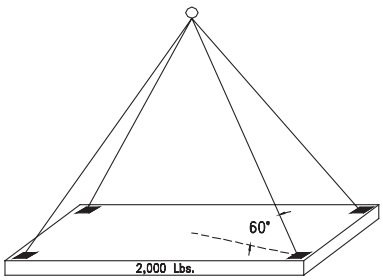
$$L = \frac{2000}{4 \sin 60} = 577 \text{ Lbs.}$$

If A = 20:

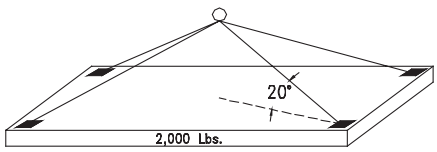
$$L = \frac{2000}{4 \sin 20} = 1{,}462 \text{ Lbs.}$$

Lifting Angle (Degrees)	Number of Hoist Rings	Weight of Load (Pounds)	Actual Applied Load on Hoist Ring (Pounds)
90	4	2,000	500
80	4	2,000	510
70	4	2,000	535
60	4	2,000	580
50	4	2,000	655
40	4	2,000	780
30	4	2,000	1,000
20	4	2,000	1,465

GOOD



BAD



Swivel Hoist Rings
Safe, Care & Use

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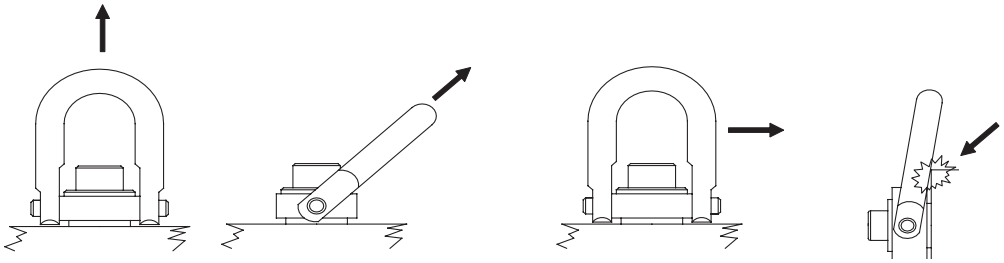
SAFETY ENGINEERED SWIVEL HOIST RING SAFETY PRECAUTION

WARNING: PRIOR TO USING ANY HOIST RING, PLEASE READ THE FOLLOWING FOR PROPER INSTALLATION AND USAGE.

As with all mechanical devices, regular inspection for wear and strict adherence to use instruction is necessary to prevent misuse failure.

- Despite the 5:1 safety factor, **NEVER EXCEED THE RATED LOAD CAPACITY**. This safety margin is needed in case of misuse, which could drastically lower load capacity.
- Tighten mounting screws to torque recommended. Periodically check torque because screws could loosen in extended service.
- Tensile strength of parent material should be above 80,000 PSI to achieve full load rating. For weaker material, consider through-hole mounting with a nut and washer on the other side.
- **DO NOT APPLY SHOCK LOADS**. Always lift gradually. Repeat magnaflux testing if shock loading ever occurs.

Make sure the hoist ring pivots and rotates in all directions freely.



RIGHT RIGHT WRONG WRONG

Important: The load on each hoist ring is not simply total weight divided by the number of hoist rings. The resultant force can be significantly greater at shallow lift angles and with unevenly distributed loads. See the example below.

L = Load N = Number of hoist rings = 4 W = Total weight = 2,000 Lbs. A = Lifting angle

$$L = \frac{W}{N \sin A}$$

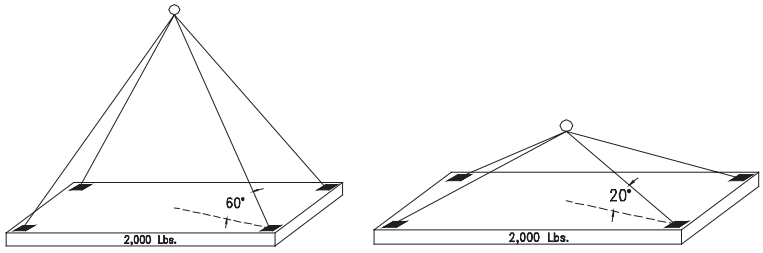
If A = 60:

$$L = \frac{2000}{4 \sin 60} = 577 \text{ Lbs.}$$

If A = 20:

$$L = \frac{2000}{4 \sin 20} = 1{,}462 \text{ Lbs.}$$

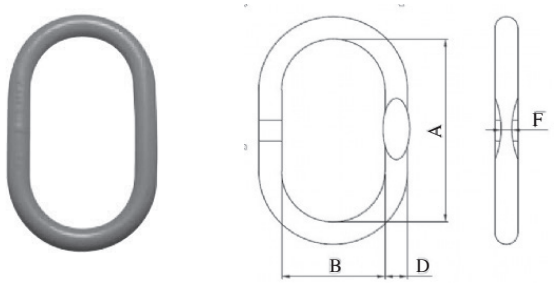
GOOD BAD



Oblong Master Links
Welded

YOKE®
Safety is our first priority™

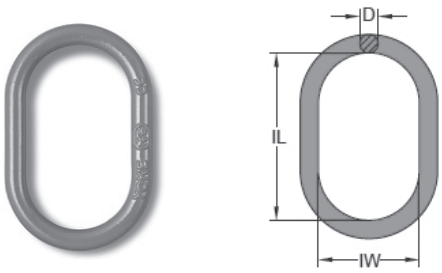
X-001 / G-100 Oblong Master Link, Welded
Grade100 Lifting Chain Fittings



Specification

Item No.	WLLβ0-45°	For Grade 100 Chain (inch)		Dimensions (inch)				N.W.
	tonnes*	1 Leg	2 Leg	D	A	B	F	Kg
X-001-13	2.8	6		0.51	4.72	2.36	-	0.75
X-001-16	4	7, 8		0.63	6.30	3.54	-	1.85
X-001-19	6.7	13	10	0.75	6.30	3.54	-	2.42
X-001-22	8.5	16	13	0.87	7.09	3.94	-	3.52
X-001-25	11.5	19	16	0.98	8.27	4.53	-	5.28
X-001-28	13	20		1.10	10.83	5.71	-	8.58
X-001-32	17	22	20	1.26	10.83	5.71	-	11.44
X-001-36	24	26	22	1.42	11.22	6.10	-	15.18
X-001-40	28.1	28		1.57	11.81	6.30	-	19.80
X-001-45	38.3	32	26	1.77	13.39	7.09	-	28.16
X-001-50	45			1.97	13.78	7.68	-	36.52
X-001-60	65			2.36	16.93	9.06	-	64.24
X-001-70	85			2.76	18.90	10.24	-	97.46
X-001-90	150			3.54	19.69	11.81	-	189.20

X-003 / G-100 Oblong Master Link.
Grade100 Lifting Chain Fittings



Specification

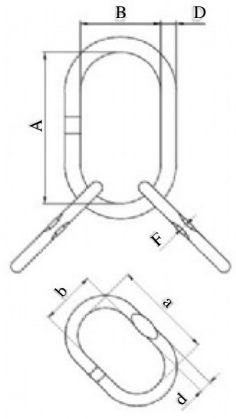
Item No.	WLLβ0-45°	For Grade 100 Chain (mm)		Dimensions (mm)			N.W.
	tonnes*	1 Leg	2 Leg	D	IL	IW	Kg
X-003-06 ※	1.4	6		11	100	60	0.2
X-003-0806 ※	2.9	7, 8	6	14	120	70	0.5
X-003-1008 ※	5.3	10	7, 8	17	140	80	0.7
X-003-13 ※	6.7	13		19	150	90	1.1
X-003-1310 ※	8.4	13	10	22	160	95	1.5
X-003-16 ※	10.0	16		25	190	110	2.3
X-003-1613 ※	14.1	16	13	28	180	105	2.7
X-003-19 ※	16.0	19, 20		30	200	120	3.5
X-003-2216 ※	21.0	22	16	34	240	140	5.3
X-003-26 ※	26.5	26		38	250	150	7.4
X-003-2619 ※	33.6	26	19, 20	40	250	150	8.3
X-003-3222 ※	39.9	32	22	45	300	180	12.3

Oblong Master Links
Assembly-Welded

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X-007 / G100 Master Link Assembly, Welded
Grade100 Lifting Chain Fittings



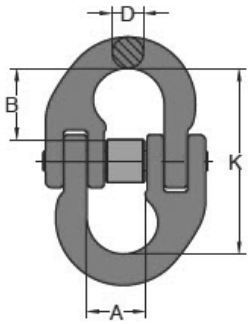


Specification

Item No.	WLLβ0-45°	For Grade 100 Chain (mm)	Dimensions (mm)							N.W.
	tonnes*	3 and 4–leg	D	A	B	d	a	b	F	Kg
X–007–20	5.3		20	160	90	16	140	70	8	2.5
X–007–25	8.9	10	25	275	145	19	160	90	8.5	4.5
X–007–28	12.9	13	28	275	145	22	180	100	10.5	7.1
X–007–32	17.0	16	32	275	145	25	210	115	13.5	10.0
X–007–36	23.6		36	275	145	28	190	100	-	12.2
X–007–40	28.1	20	40	300	160	32	275	145	-	19.3
X–007–45	38.3	22	45	340	180	36	285	155	-	26.6
X–007–50	45		50	350	195	40	260	130	-	32.30
X–007–60	65		60	430	230	50	350	195	-	63.90
X–007–70	85		70	480	260	60	410	220	-	102.60
X–007–90	150		90	500	300	70	400	200	-	164.00

X-015 / G-100 Connecting Link.
Grade100 Lifting Chain Fittings





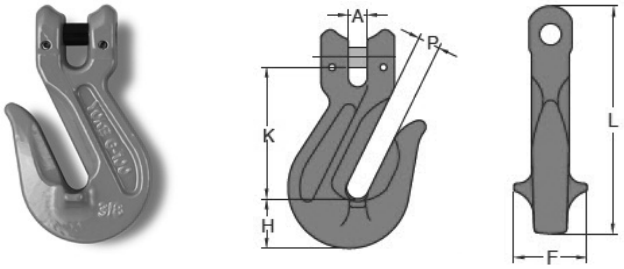
Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)				N.W.
	tonnes*	mm	A	B	D	K	Kg
X-015-06	1.4	6	15	18	7	45	0.08
X-015-07	2.5	7, 8	18	25	9	59	0.2
X-015-10	4.0	10	25	28	11	69	0.3
X-015-13	6.7	13	30	38	16	92	0.7
X-015-16	10.0	16	36	41	19	101	1.2
X-015-20	16.0	20	42	50	23	122	2.1
X-015-22	19.0	22	49	63	24	152	3.5
X-015-26	26.5	26	55	66	30	162	4.8
X-015-32	40.0	32	69	85	36	203	9.0

Hooks
Clevis Grab

YOKE®
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X-042 / G-100 Clevis Grab Hook.
Grade100 Lifting Chain Fittings

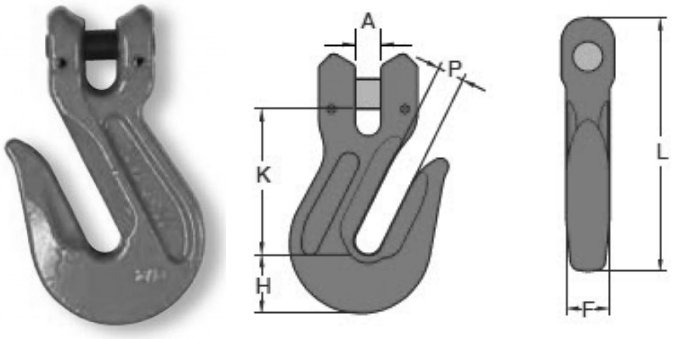


Not for use with Omega Link. No reduction of working load limit, thanks to supporting wings which prevent chain link deformation. ★ Design factor 4:1 proof tested and certified.

Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)						N.W.
	tonnes*	mm	A	F	H	K	L	P	Kg
X-042-06	1.4	6	7	25	18	47	79	8	0.2
X-042-07	2.5	7, 8	10	30	22	54	93	10	0.4
X-042-10	4.0	10	11	41	29	77	128	13	0.8
X-042-13	6.7	13	15	52	38	99	165	17	1.6
X-042-16	10.0	16	18	57	45	114	195	21	2.7
X-042-20	16.0	20	22	73	52	130	222	23	4.8
X-042-22	19.0	22	24	70	56	139	247	26	6.4

X-0421 / G-100 Clevis Grab Hook - Without Cradle
Grade100 Lifting Chain Fittings



Not for use with Omega Link. ★ Design factor 4:1 proof tested and certified.

Specification

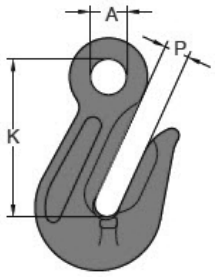
Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)						N.W.
	tonnes*	mm	A	F	H	K	L	P	Kg
X-0421-06	1.4	6	7	13	18	47	79	8	0.2
X-0421-07	2.5	7, 8	10	16	22	54	93	10	0.4
X-0421-10	4.0	10	12	22	29	77	128	13	0.8
X-0421-13	6.7	13	15	26	38	99	165	17	1.6
X-0421-16	10.0	16	18	33	45	114	195	21	2.7
X-0421-20	16.0	20	22	38	52	130	222	24	4.8
X-0421-22	19.0	22	25	42	56	139	247	27	6.3

Hooks
Eye Grab/Sling

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X-041 / G-100 Eye Grab Hook.
Grade100 Lifting Chain Fittings





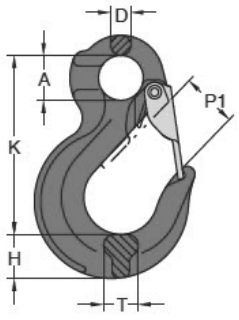
Not for use with Omega Link. No reduction of working load limit, thanks to supporting wings which prevent chain link deformation. ★ Design factor 4:1 proof tested and certified.

Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)					N.W.
	tonnes*	mm	A	F	G	K	P	Kg
X-041-06	1.4	6	13	26	8	50	8	0.2
X-041-07	2.5	7, 8	16	30	9	62	10	0.3
X-041-10	4.0	10	20	40	13	82	13	0.6
X-041-13	6.7	13	26	52	16	107	17	1.4
X-041-16	10.0	16	30	57	20	132	21	2.4
X-041-20	16.0	20	38	73	24	147	23	4.0
X-041-22	19.0	22	38	70	26	164	26	5.0
X-041-26	26.5	26	50	100	32	207	33	10.1

X-044/S / G-100 Eye Sling Hook
Grade100 Lifting Chain Fittings





★ Design factor 4:1 proof tested and certified.

Specification

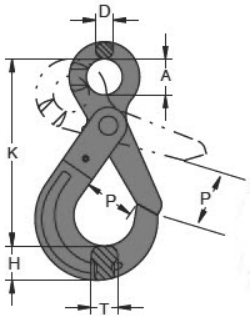
Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)						N.W.
	tonnes*	mm	A	D	H	K	P1	T	Kg
X-044/S-06	1.4	6	20	10	19	80	23	17	0.3
X-044/S-07	2.5	7, 8	25	12	23	98	28	20	0.5
X-044/S-10	4.0	10	32	15	31	121	36	23	1.0
X-044/S-13	6.7	13	40	18	38	152	40	27	1.8
X-044/S-16	10.0	16	50	22	45	185	44	32	3.4
X-044/S-20	16.0	20	61	27	64	230	54	48	7.3
X-044/S-22	19.0	22	51	31	63	245	76	52	9.3
X-044/S-26	26.5	26	65	35	80	279	77	60	13.5
X-044/S-32	40.0	32	88	40	86	352	114	65	22.0

Hooks
Self-Locking

YOKE®
Safety is our first priority™

X-025 / G-100 Eye Self Locking Hook.
Grade100 Lifting Chain Fittings



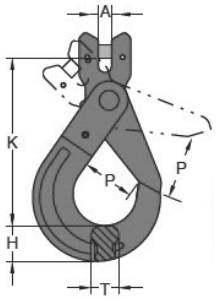


Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)						N.W.
	tonnes*	mm	A	D	H	K	P	T	Kg
X-025-06	1.4	6	21	10	19	110	28	15	0.5
X-025-07	2.5	7, 8	25	11	24	136	34	20	0.8
X-025-10	4.0	10	32	13	30	167	44	26	1.5
X-025-13	6.7	13	40	16	39	207	51	30	3.0
X-025-16	10.0	16	50	21	49	252	60	36	5.8
X-025-20	16.0	20	60	23	65	290	70	53	10.0
X-025-22	19.0	22	70	24	63	319	80	49	12.5
X-025-26	26.5	26	80	25	69	343	99	56	15.0

X-026 / G-100 Clevis Self Locking Hook.
Grade100 Lifting Chain Fittings





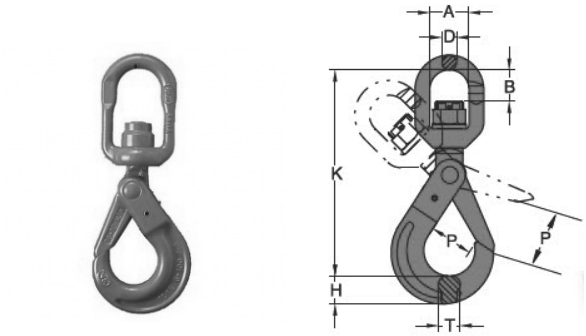
Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)					N.W.
	tonnes*	mm	A	H	K	P	T	Kg
X-026-06	1.4	6	6	19	93	28	15	0.4
X-026-07	2.5	7, 8	9	24	119	34	20	0.9
X-026-10	4.0	10	11	30	142	44	26	1.4
X-026-13	6.7	13	14	39	178	51	30	3.0
X-026-16	10.0	16	18	49	213	60	36	5.0
X-026-20	16.0	20	21	65	244	70	53	11.0
X-026-22	19.0	22	24	63	273	80	49	13.5

Hooks
Self-Locking

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X-027 / G-100 Swivel Self Locking Hook
Grade100 Lifting Chain Fittings

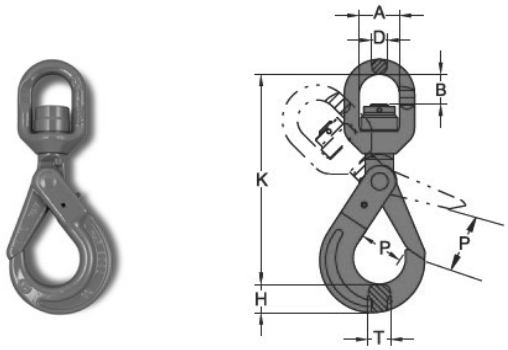


Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)							N.W.
	tonnes*	mm	A	B	D	H	K	P	T	Kg
X-027-06	1.4	6	32	22	12	19	149	28	15	0.7
X-027-07	2.5	7, 8	36	29	13	24	186	34	20	1.2
X-027-10	4.0	10	41	34	16	30	218	44	26	2.0
X-027-13	6.7	13	46	43	21	39	276	51	30	4.1
X-027-16	10.0	16	61	50	23	49	329	60	36	7.2
X-027-20	16.0	20	74	82	25	65	387	70	53	13.0
X-027-22	19.0	22	97	95	33	63	457	80	49	20.0
X-027-26	26.5	26	123	115	42	69	535	99	56	33.0

★ Design factor 4:1 proof tested and certified. WARNING INFORMATION: This hook is a positioning device and is not intended to rotate under load. For swivel hooks designed to rotate under load, please refer to X-027N.

X-027N / G-100 Swivel Self Locking Hook With Bearing
Grade100 Lifting Chain Fittings



Ball bearing performs to fully swivel under load. ★ Design factor 4:1 proof tested and certified.

Specification

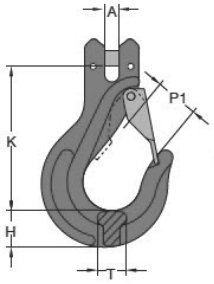
Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions(mm)							N.W.
	tonnes*	mm	A	B	D	H	K	P	T	Kg
X-027N-06	1.4	6	32	22	12	19	149	28	15	0.7
X-027N-07	2.5	7, 8	36	29	13	24	186	34	20	1.3
X-027N-10	4.0	10	41	34	16	30	218	44	26	2.0
X-027N-13	6.7	13	46	43	21	39	276	51	30	4.3
X-027N-16	10.0	16	61	50	23	49	329	60	36	7.3
X-027N-20	16.0	20	74	82	25	65	387	70	53	13.0
X-027N-22	19.0	22	97	95	33	63	457	80	49	20.0
X-027N-26	26.5	26	123	115	42	69	535	99	56	32.7

Hooks
Clevis Sling/Foundry

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X-043/S / G-100 Clevis Sling Hook
Grade100 Lifting Chain Fittings





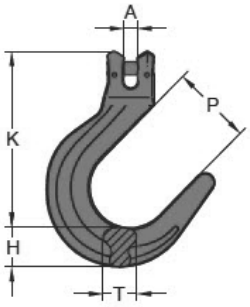
★ Design factor 4:1 proof tested and certified.

Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)					N.W.
	tonnes*	mm	A	H	K	P1	T	Kg
X-043/S-06	1.4	6	6	23	97	23	15	0.3
X-043/S-07	2.5	7, 8	9	22	98	27	18	0.6
X-043/S-10	4.0	10	11	30	122	34	24	1.1
X-043/S-13	6.7	13	14	37	147	44	30	2.3
X-043/S-16	10.0	16	17	42	166	48	39	3.8
X-043/S-20	16.0	20	24	64	207	57	48	8.7
X-043/S-22	19.0	22	25	61	217	73	52	9.5

X-046 / G-100 Clevis Foundry Hook
Grade100 Lifting Chain Fittings





Specification

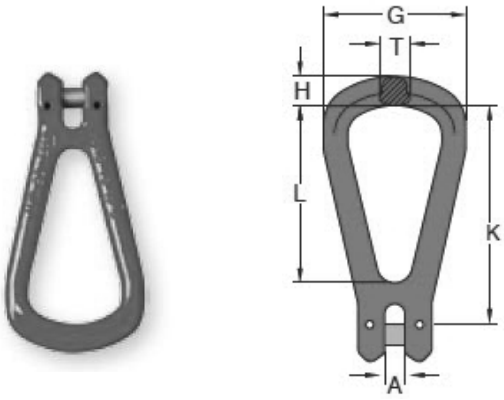
★ Design factor 4:1 proof tested and certified.

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)					N.W.
	tonnes*	mm	A	H	K	P	T	Kg
X-046-07	2.5	7, 8	9	27	133	62	19	0.95
X-046-10	4.0	10	11	32	163	74	23	1.8
X-046-13	6.7	13	14	39	200	88	32	3.6
X-046-16	10.0	16	18	47	239	98	41	6.4
X-046-20	16.0	20	21	62	305	113	46	11.2

Master Links
Clevis/Shackle

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X-059 / Clevis Master Link
Grade100 Lifting Chain Fittings

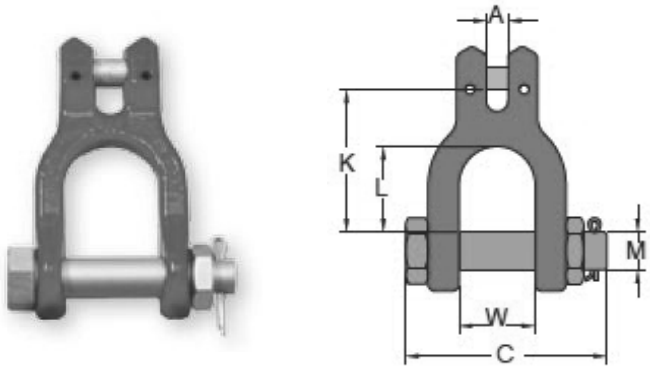


★ Design factor 4:1 proof tested and certified

Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)						N.W.
	tonnes*	mm	A	G	H	K	L	T	Kg
X-059-07	2.5	7, 8	9	65	15	99	80	15	0.4
X-059-10	4.0	10	11	80	18	125	100	19	0.8
X-059-13	6.7	13	14	108	22	168	136	25	1.5
X-059-16	10.0	16	18	124	26	198	158	27	2.4

X-066 / Clevis Shackle
Grade100 Lifting Chain Fittings



★ Design factor 4:1 proof tested and certified.

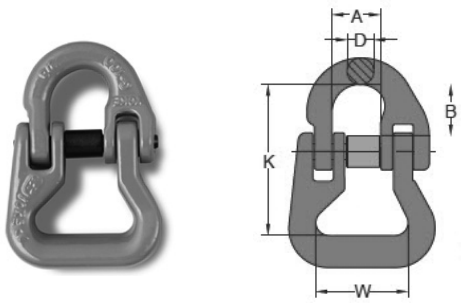
Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)						N.W.
	tonnes*	mm	A	G	H	K	L	T	Kg
X-066-07	2.5	7, 8	9	65	15	99	80	15	0.4
X-066-10	4.0	10	11	80	18	125	100	19	0.8
X-066-13	6.7	13	14	108	22	168	136	25	1.4
X-066-16	10.0	16	18	124	26	198	158	27	2.5

Hooks/Links
For Web Slings

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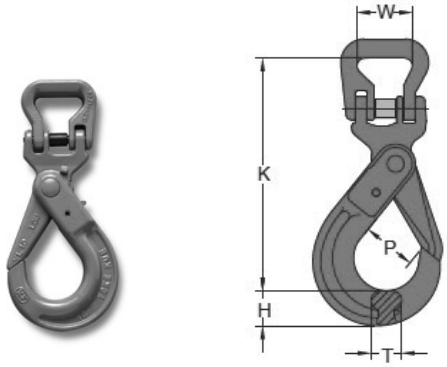
X-016 / G-100 Web Sling Connector.
Grade100 Lifting Chain Fittings



Specification

Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)					N.W.
	tonnes*	mm	A	B	D	K	W	Kg
X-016-06	1.4	6	15	17	7	55	38	0.2
X-016-07	2.5	7, 8	18	22	9	62	40	0.3
X-016-10	4.0	10	25	26	11	78	47	0.6
X-016-13	6.7	13	30	35	16	95	53	1.1
X-016-16	10.0	16	36	38	19	115	67	2.0
X-016-20	16.0	20	42	46	22	132	80	3.2
X-016-22	19.0	22	49	59	24	187	125	7.7

X-028 / G-100 Round Sling Self Locking Hook.
Grade100 Lifting Chain Fittings



★ Design factor 4:1 proof tested and certified.

Specification

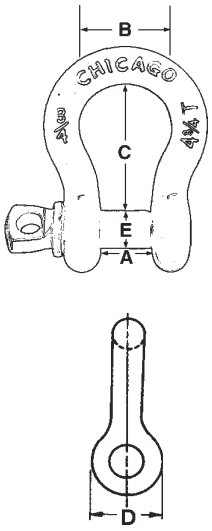
Item No.	Working Load Limit	For Grade 100 Chain (mm)	Dimensions (mm)					N.W.
	tonnes*	mm	H	K	P	T	W	Kg
X-028-06	1.4	6	19	138	29	15	38	0.6
X-028-07	2.5	7, 8	24	169	34	20	40	1.0
X-028-10	4.0	10	30	196	44	26	47	1.8
X-028-13	6.7	13	39	253	52	30	53	3.9
X-028-16	10.0	16	49	305	60	36	67	6.9
X-028-20	16.0	20	62	328	90	48	80	12.0
X-028-22	19.0	22	63	416	80	49	125	18.6

Anchor Shackles
Drop Forged

Made in USA

CHICAGO C H F Since 1912

Size, working load limit, and trademark are permanently marked on all shackles. All shackles and pins are heat treated. Loads are based on a safety factor of 6 to 1, except (**) which is 5 to 1. When tested all shackles are pulled at a uniform rate of speed in a direct tension.



Shackles Meet Performance Requirements of Federal Specifications RR-C-271D Type IVA*

Anchor – Round Pin – Screw Pin – Safety

Working Load Limit in Tons	Dimensions – Inches								Estimated Weight Per 100 in lbs.
	Inside						O.D. Eyes (D)	Pin or Bolt Dia. (E)	
	Size Dia.	Width @ Eyes (A)	Tol. ±	Width @ Bow (B)	Length (C)	Tol. ±			
1/3	3/16"	3/8"	1/16"	9/16"	7/8"	1/16"	5/8"	1/4"	7
1/2	1/4"	15/32"	1/16"	3/4"	1-1/8"	1/16"	3/4"	5/16"	13.5
3/4	5/16"	17/32"	1/16"	15/16"	1-1/4"	1/16"	7/8"	3/8"	22
1	3/8"	21/32"	1/16"	1-1/8"	1-7/16"	1/8"	1"	7/16"	33
1-1/2	7/16"	23/32"	1/16"	1-5/16"	1-11/16"	1/8"	1-1/8"	1/2"	53.5
2	1/2"	13/16"	1/16"	1-1/2"	1-15/16"	1/8"	1-1/4"	5/8"	76.5
3-1/4	5/8"	1-1/16"	1/16"	1-7/8"	2-1/2"	1/8"	1-11/16"	3/4"	150.5
4-3/4	3/4"	1-1/4"	1/16"	2"	3"	1/4"	1-7/8"	7/8"	245.5
6-1/2	7/8"	1-7/16"	1/16"	2-5/8"	3-1/4"	1/4"	2-1/8"	1"	375
8-1/2	1"	1-11/16"	1/16"	2-3/4"	3-3/4"	1/4"	2-1/2"	1-1/8"	537.5
9-1/2	1-1/8"	1-13/16"	1/16"	2-15/16"	4-1/4"	1/4"	2-5/8"	1-1/4"	765
12	1-1/4"	2"	1/16"	3-1/4"	4-1/2"	1/4"	3"	1-3/8"	1007.5
13 1/2	**1-3/8"	2-1/4"	1/8"	3-1/2"	5-1/4"	1/4"	3-1/4"	1-1/2"	1232.5
17	1-1/2"	2-3/8"	1/8"	3-3/4"	5-3/4"	1/4"	3-1/2"	1-5/8"	1777.5

WARNING:

Any deviations such as angular lifts, shock loads, modification of the basic forging, etc., will result in drastically reduced working load limits.

All types of shackles are available in a self-colored or hot galvanized finish. When ordering specify the size, finish, and type of shackle. Other rust preventative coatings are available on a special basis.

Safety shackles are of the same specifications as the regular types except for the bolt, nut and cotter.

***Class 1**



Round Pin

Size	Galvanized Part No.	Self-Colored Part No.
3/16"	21105 5	21005 8
1/4"	21110 9	21010 2
5/16"	21115 4	21015 7
3/8"	21120 8	21020 1
7/16"	21125 3	21025 6
1/2"	21130 7	21030 0
5/8"	21135 2	21035 5
3/4"	21140 6	21040 9
7/8"	21145 1	21045 4
1"	21150 5	21050 8
1-1/8"	21155 0	21055 3
1-1/4"	21160 4	21060 7
1-3/8"	21165 9	21065 2
1-1/2"	21170 3	21070 6

***Class 2**



Screw Pin

Size	Galvanized Part No.	Self-Colored Part No.
3/16"	20105 6	20005 9
1/4"	20110 0	20010 3
5/16"	20115 5	20015 8
3/8"	20120 9	20020 2
7/16"	20125 4	20025 7
1/2"	20130 8	20030 1
5/8"	20135 3	20035 6
3/4"	20140 7	20040 0
7/8"	20145 2	20045 5
1"	20150 6	20050 9
1-1/8"	20155 1	20055 4
1-1/4"	20160 5	20060 8
1-3/8"	20165 0	20065 3
1-1/2"	20170 4	20070 7

***Class 3**



Safety

Size	Galvanized Part No.	Self-Colored Part No.
1/4"	20610 5	20510 8
5/16"	20615 0	20515 3
3/8"	20620 4	20520 7
7/16"	20625 9	20525 2
1/2"	20630 3	20530 6
5/8"	20635 8	20535 1
3/4"	20640 2	20540 5
7/8"	20645 7	20545 0
1"	20650 1	20550 4
1-1/8"	20655 6	20555 9
1-1/4"	20660 0	20560 3
1-1/2"	20670 9	20570 2

Chain Shackles
Drop Forged

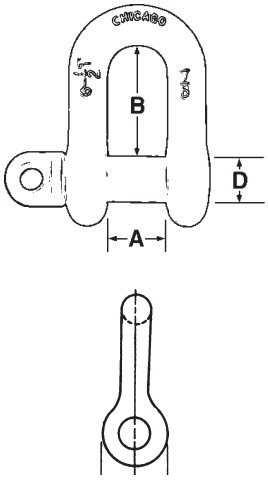
Made in USA

CHICAGO C H F Since 1912

Size, working load, and trademark are permanently marked on all shackles. All shackles and pins are heat treated. Loads are based on a safety factor of 6 to 1. When tested all shackles are pulled at a uniform rate of speed in a direct tension.

Shackles Meet Performance Requirements of Federal Specifications RR-C-271D Type IVB*

Chain — Round Pin – Screw Pin – Safety								
Working Load Limit in Tons	Dimensions – Inches							Estimated Weight Per 100 in lbs.
	Inside					O.D. Eyes (C)	Pin or Bolt Dia. (D)	
	Size Dia.	Width (A)	Tol. ±	Length (B)	Tol. ±			
1/2	1/4"	15/32"	1/16"	7/8"	1/16"	3/4"	5/16"	11
3/4	5/16"	17/32"	1/16"	1"	1/16"	7/8"	3/8"	20
1	3/8"	21/32"	1/16"	1-1/4"	1/8"	1"	7/16"	31.5
1-1/2	7/16"	23/32"	1/16"	1-1/2"	1/8"	1-1/8"	1/2"	45.5
2	1/2"	13/16"	1/16"	1-11/16"	1/8"	1-1/4"	5/8"	69.5
3-1/4	5/8"	1-1/16"	1/16"	2"	1/8"	1-5/8"	3/4"	132.5
4-3/4	3/4"	1-1/4"	1/16"	2-5/16"	1/4"	1-7/8"	7/8"	212
6-1/2	7/8"	1-7/16"	1/16"	2-7/8"	1/4"	2-1/8"	1"	320
8-1/2	1"	1-11/16"	1/16"	3-1/4"	1/4"	2-1/2"	1-1/8"	500



WARNING:

Any deviations such as angular lifts, shock loads, modification of the basic forging, etc., will result in drastically reduced working load limits.

All types of shackles are available in a self-colored or hot galvanized finish. When ordering specify the size, finish, and type of shackle. Other rust preventative coatings are available on a special basis.

Safety shackles are of the same specifications as the regular types except for the bolt, nut and cotter.

*Class 1



Round Pin

Size	Galvanized Part No.	Self-Colored Part No.
1/4"	21310 3	21210 6
5/16"	21315 8	21215 1
3/8"	21320 2	21220 5
7/16"	21325 7	21225 0
1/2"	21330 1	21230 4
5/8"	21335 6	21235 9
3/4"	21340 0	21240 3
7/8"	21345 5	21245 8
1"	21350 9	21250 2

*Class 2



Screw Pin

Size	Galvanized Part No.	Self-Colored Part No.
1/4"	20310 4	20210 7
5/16"	20315 9	20215 2
3/8"	20320 3	20220 6
7/16"	20325 8	20225 1
1/2"	20330 2	20230 5
5/8"	20335 7	20235 0
3/4"	20340 1	20240 4
7/8"	20345 6	20245 9
1"	20350 0	20250 3

*Class 3



Safety

Size	Galvanized Part No.	Self-Colored Part No.
1/4"	20810 9	20710 2
5/16"	20815 4	20715 7
3/8"	20820 8	20720 1
7/16"	20825 3	20725 6
1/2"	20830 7	20730 0
5/8"	20835 2	20735 5
3/4"	20840 6	20740 9
7/8"	20845 1	20745 4
1"	20850 5	20750 8

Wire Rope Clips
Drop Forged

Made in USA

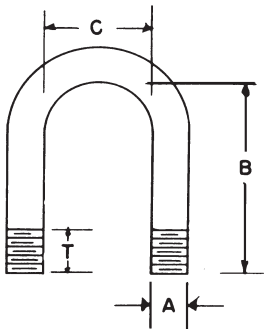
"CHICAGO" the Trade-Mark of quality in wire rope fittings is embossed on all forged steel clip bases. This identification symbolizes wire rope clips that are manufactured to rigid specifications. Component parts are galvanized. U-bolts, with or without nuts, price on application.

Should be used in heavy duty applications

	Hot Galvanized	U-Bolt Dimensions				Weight
Rope Size	Part No.	A	B	C	T	Per 100
1/8"	23460 3	12-24	3/4"	9/32"	1/2"	6.5
3/16"	23465 8	1/4"-20	15/16"	5/16"	5/8"	10
1/4"	23470 2	5/16"-18	1-5/32"	3/8"	3/4"	18.5
5/16"	23475 7	3/8"-16	1-1/2"	1/2"	1"	29.5
3/8"	23480 1	7/16"-14	1-5/8"	9/16"	7/8"	44
7/16"	23485 6	1/2"-13	1-7/8"	5/8"	1-1/4"	64
1/2"	23490 0	1/2"-13	1-7/8"	5/8"	1-1/4"	75
9/16"	23495 5	9/16"-12	2-3/8"	3/4"	1-3/8"	106
5/8"	23500 6	9/16"-12	2-3/8"	3/4"	1-3/8"	106
3/4"	23505 1	5/8"-11	2-3/4"	7/8"	1-5/8"	153
7/8"	23510 5	3/4"-10	3-1/4"	1"	1-7/8"	237.5
1"	23515 0	3/4"-10	3-5/8"	1-1/8"	2"	272.5
1-1/8"	23520 4	3/4"-10	3-13/16"	1-1/4"	2-1/4"	325
1-1/4"	23525 9	7/8"-9	4-3/8"	1-11/32"	2-1/2"	441
1-1/2"	23535 8	7/8"-9	5-1/8"	1-11/16"	2-3/4"	550

Meets Performance Requirements of Federal Specification FF-C-450, Type 1, Class 1







RECOMMENDED APPLICATION FOR CHICAGO DROP FORGED WIRE ROPE CLIPS

Clip Size Inches	Minimum No. of Clips	Amount of Rope to Turn Back in Inches	Torque in Ft. Lbs.
1/8"	2	3-1/4"	4.5
3/16"	2	3-3/4"	7.5
1/4"	2	4-3/4"	15
5/16"	2	5-1/4"	30
3/8"	2	6-1/2"	45
7/16"	2	7"	65
1/2"	3	11-1/2"	65
9/16"	3	12"	95
5/8"	3	12"	95
3/4"	4	18"	130
7/8"	4	19"	225
1"	5	26"	225
1-1/8"	6	34"	225
1-1/4"	7	44"	360
1-1/2"	8	54"	360

1. The correct way to attach wire rope clips is illustrated above. Apply the first clip one base width from the dead end of the wire rope. The base or saddle should bear on the line end of the rope – U-bolt on the short end. Tighten nuts firmly.

2. Attach second clip as close to loop as possible. Tighten nuts but not firmly.

3. Attach balance of clips spaced equally between first two clips. Tighten all nuts completely. Apply initial load – inspect nuts and retighten. Inspect all clips periodically.

The number of clips shown is based on using right regular or Lang lay wire rope, 6x19 class or 6x37 class, fibre core IWRC, IPS or XIPS. The number of clips shown also applies to right regular lay wire rope, 8x19 class and 18x7 class, fibre core, IPS or XIPS, sizes 1-1/2-inch and smaller.

If Seale construction or similar large outer wire type construction in the 6x19 class is to be used for sizes 1-inch and larger, add one additional clip. For other classes or wire rope not mentioned, it may be necessary to add additional clips to the number shown. If more clips are used than shown, amount of rope turn back should be increased proportionately.

Turnbuckles
Drop Forged

Made in USA

Turnbuckles Meet Performance Requirements of ASTM Specification F1145-92 Type 1 Grade 1 (Supercedes FF-T-791B)

Available with hot galvanized or self-colored finish.



(Class D)



(Class D)

Diameter & Take-up	Eye and Eye			Hook and Hook			Weight per 100 in Lbs.
	Part No.		Closed Length	Part No.		Closed Length	
	SC	Galv.		SC	Galv.		
1/4" x 4"	01105 1	01255 3	8"	02005 3	02155 5	8-1/2"	35
5/16" x 4-1/2"	01110 5	01260 7	9"	02010 7	02160 9	9-1/2"	47.5
3/8" x 6"	01115 0	01265 2	11-1/2"	02015 2	02165 4	12"	90.6
1/2" x 2"	01120 4	01270 6	8-1/2"	02020 6	02170 8	10"	111
1/2" x 6"	01123 5	01273 7	13"	02023 7	02173 9	14-1/4"	170
1/2" x 9"	01126 6	01276 8	16"	02026 8	02176 0	17-1/4"	202
1/2" x 12"	01129 7	01279 9	19"	02029 9	02179 1	20-1/4"	232.5
5/8" x 6"	01134 1	01284 3	13-1/2"	02034 3	02184 5	14-3/4"	260
5/8" x 9"	01137 2	01287 4	17"	02037 4	02187 6	17-3/4"	320
5/8" x 12"	01140 2	01290 4	20-1/2"	02040 4	02190 6	20-3/4"	392.5
5/8" x 18"	01143 3	01293 5	26-1/2"	02043 5	02193 7	26-3/4"	557
3/4" x 6"	01148 8	01298 0	14-3/4"	02048 0	02198 2	16-3/4"	397.5
3/4" x 9"	01151 8	01301 7	18"	02051 0	02201 9	19-3/4"	512.5
3/4" x 12"	01154 9	01304 8	21-3/4"	02054 1	02204 0	22-3/4"	581
3/4" x 18"	01157 0	01307 9	27-3/4"	02057 2	02207 1	28-3/4"	666
7/8" x 6"	01162 4	01312 3	18"	02062 6	02212 5	19"	650
7/8" x 12"	01165 5	01315 4	22-1/2"	02065 7	02215 6	23-3/4"	787.5
7/8" x 18"	01168 6	01318 5	28-1/2"	02068 8	02218 7	29-3/4"	1212
1" x 6"	01173 0	01323 9	17"	02073 2	02223 1	20"	805
1" x 12"	01176 1	01326 0	25"	02076 3	02226 2	25-1/2"	1077.5
1" x 18"	01179 2	01329 1	31"	02079 4	02229 3	31-1/2"	1386



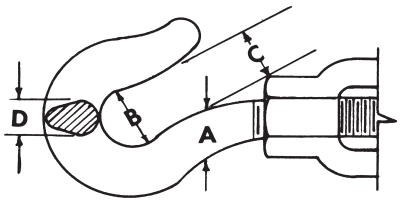
(Class E)



(Class E)

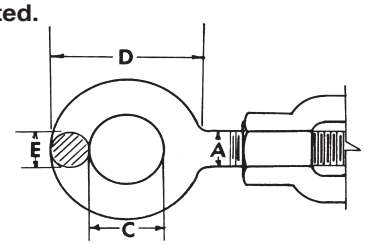
To ascertain extended length add amount of take-up to length in closed position.

Eye, Jaw and Hook fittings are heat treated.



Hook

Dimensions – Inches				Working Load Limit in Lbs.†
A	B	C	D	
1/4"	5/16"	9/32"	7/32"	400
5/16"	1/2"	1/2"	5/16"	700
3/8"	1/2"	1/2"	3/8"	1,000
1/2"	7/8"	13/16"	17/32"	1,500
5/8"	29/32"	27/32"	5/8"	2,250
3/4"	1-1/8"	29/32"	11/16"	3,000
7/8"	1-3/16"	1-1/16"	13/16"	3,200
1"	1-3/8"	1-1/4"	7/8"	5,000



Eye

Dimensions – Inches				Working Load Limit in Lbs.†
A	C	D	E	
1/4"	1/2"	1"	7/32"	500
5/16"	5/8"	1-1/4"	9/32"	800
3/8"	3/4"	1-1/2"	11/32"	1,200
1/2"	1"	2"	7/16"	2,200
5/8"	1-1/4"	2-5/16"	17/32"	3,500
3/4"	1-1/2"	2-3/4"	5/8"	5,200
7/8"	1-3/4"	3-1/2"	7/8"	7,200
1"	2"	3-3/4"	7/8"	10,000

† **Loads are based on a safety factor of 5 to 1. Maximum load ratings are based on a straight vertical lift in a gradually increasing manner. Any deviations as angular lifts, shock loads, modification of the basic part, etc., will result in drastically reduced maximum loads.**

Turnbuckles
Drop Forged

Made in USA

CHICAGO C H F Since 1912

Turnbuckles Meet Performance Requirements of ASTM Specification F1145-92 Type 1 Grade 1 (Supercedes FF-T-791B)

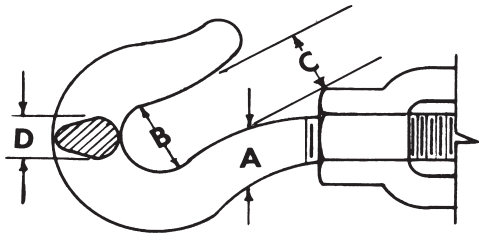


(Class F)

Available with hot galvanized or self-colored finish. Eye, Jaw and Hook fittings are heat treated.

Diameter & Take-up	Hook and Eye Part No. SC	Hook and Eye Part No. Galv.	Closed Length	Weight per 100 in Lbs.
1/4" x 4"	01555 4	01705 3	8-1/4"	35
5/16" x 4-1/2"	01560 8	01710 7	9-1/4"	47.5
3/8" x 6"	01565 3	01715 2	11-3/4"	90.6
1/2" x 2"	01570 7	01720 6	9-1/4"	109
1/2" x 6"	01573 8	01723 7	13-5/8"	170
1/2" x 9"	01576 9	01726 8	16-3/8"	202
1/2" x 12"	01579 0	01729 9	19-5/8"	232.5
5/8" x 6"	01584 4	01734 3	14-1/8"	260
5/8" x 9"	01587 5	01737 4	17-3/8"	320
5/8" x 12"	01590 5	01740 4	20-5/8"	392.5
5/8" x 18"	01593 6	01743 5	26-5/8"	557
3/4" x 6"	01598 1	01748 0	15-3/4"	397.5
3/4" x 9"	01601 8	01751 0	18-7/8"	512.5
3/4" x 12"	01604 9	01754 1	22-1/8"	581
3/4" x 18"	01607 0	01757 2	28-1/8"	666
7/8" x 6"	01612 4	01762 6	18-1/2"	650
7/8" x 12"	01615 5	01765 7	23-1/8"	787.5
7/8" x 18"	01618 6	01768 8	29-1/8"	1212
1" x 6"	01623 0	01773 2	19-1/2"	805
1" x 12"	01626 1	01776 3	25-1/4"	1077.5
1" x 18"	01629 2	01779 4	31-1/4"	1386

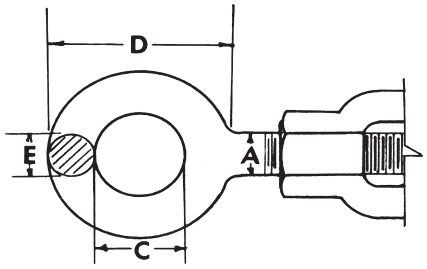
To ascertain extended length add amount of take-up to length in closed position.



Hook Dimensions – Strength

Dimensions – Inches A	B	C	D	Working Load Limit in Lbs.†
1/4"	5/16"	9/32"	7/32"	400
5/16"	1/2"	1/2"	5/16"	700
3/8"	1/2"	1/2"	3/8"	1,000
1/2"	7/8"	13/16"	17/32"	1,500
5/8"	29/32"	27/32"	5/8"	2,250
3/4"	1-1/8"	29/32"	11/16"	3,000
7/8"	1-3/16"	1-1/16"	13/16"	3,200
1"	1-3/8"	1-1/4"	7/8"	5,000

† Loads are based on a safety factor of 5 to 1.



Eye Dimensions – Strength

Dimensions – Inches A	C	D	E	Working Load Limit in Lbs.†
1/4"	1/2"	1"	7/32"	500
5/16"	5/8"	1-1/4"	9/32"	800
3/8"	3/4"	1-1/2"	11/32"	1,200
1/2"	1"	2"	7/16"	2,200
5/8"	1-1/4"	2-5/16"	17/32"	3,500
3/4"	1-1/2"	2-3/4"	5/8"	5,200
7/8"	1-3/4"	3-1/2"	7/8"	7,200
1"	2"	3-3/4"	7/8"	10,000

† Loads are based on a safety factor of 5 to 1.

Maximum load ratings are based on a straight vertical lift in a gradually increasing manner. Any deviations as angular lifts, shock loads, modification of the basic part, etc., will result in drastically reduced maximum loads.

Turnbuckles
Drop Forged

Made in USA

CHICAGO C H F Since 1912

Turnbuckles Meet Performance Requirements of ASTM Specification F1145-92 Type 1 Grade 1 (Supercedes FF-T-791B)

Eye, Jaw and Hook fittings are heat treated.

	Jaw and Eye Hot Galvanized			Jaw and Jaw Hot Galvanized		
Diameter & Take-up	Part No.	Closed Length	Weight per 100	Part No.	Closed Length	Weight per 100
1/4" x 4"	02605 5	8-1/4"	37.5	03055 7	8-1/2"	40
5/16" x 4-1/2"	02610 9	9-1/8"	52.5	03060 1	9-1/4"	52.5
3/8" x 6"	02615 4	11-1/2"	96.5	03065 6	11-1/2"	97.5
1/2" x 2"	02620 8	8-3/4"	109	03070 0	8-7/8"	119
1/2" x 6"	02623 9	13-1/4"	160	03073 1	13-1/2"	170
1/2" x 9"	02626 0	16-1/4"	198.5	03076 2	16-1/2"	202.5
1/2" x 12"	02629 1	19-1/4"	225	03079 3	19-1/2"	227.5
5/8" x 6"	02634 5	14-5/8"	257.5	03084 7	15-3/4"	260.5
5/8" x 9"	02637 6	17-7/8"	330	03087 8	18-3/4"	330
5/8" x 12"	02640 6	21-1/8"	402	03090 8	21-3/4"	407
5/8" x 18"	02643 7	27-1/8"	581	03093 9	27-3/4"	607
3/4" x 6"	02648 2	15-5/8"	402.5	03098 4	16-1/2"	417.5
3/4" x 9"	02651 2	18-3/4"	522.5	03101 1	19-1/2"	545
3/4" x 12"	02654 3	22"	602.5	03104 2	22-1/2"	619.5
3/4" x 18"	02657 4	28"	702	03107 3	28-1/2"	753
7/8" x 6"	02662 8	19"	655	03112 7	19-1/2"	668
7/8" x 12"	02665 9	23-1/2"	842.5	03115 8	24-1/2"	862.5
7/8" x 18"	02668 0	29-1/2"	1252	03118 9	30-1/2"	1281
1" x 6"	02673 4	19-1/8"	872	03123 3	21-3/16"	911
1" x 12"	02676 5	25-1/4"	1137.5	03126 4	25-1/2"	1165
1" x 18"	02679 6	31-1/4"	1463	03129 5	31-1/2"	1518


(Class H)


(Class G)

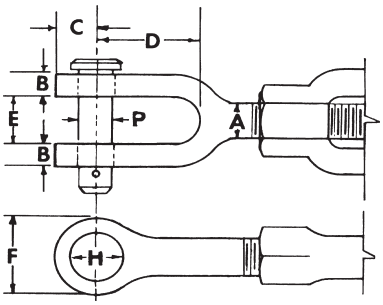
Available with hot galvanized or self-colored finish. Jaw types supplied with round pins and cotter keys unless nuts and bolts are specified. Locking nuts are also available.



	Rod End Eye & Eye Self-Colored		
Diameter & Take-up	Part No.	Closed Length	Weight per 100
1/2" x 6"	03373 2	13"	131
5/8" x 6"	03384 8	13-1/4"	205
3/4" x 6"	03398 5	13-1/2"	293
7/8" x 6"	03412 8	14"	456
1" x 6"	03423 4	14-1/8"	589

Jaw Dimensions – Strength

Dimensions – Inches								Working Load Limit in Lbs.†
A	B	C	D	*E	F	**H	P	
1/4"	7/32"	5/16"	25/32"	3/8"	5/8"	9/32"	1/4"	500
5/16"	1/4"	5/16"	7/8"	15/32"	5/8"	9/32"	1/4"	800
3/8"	9/32"	13/32"	1"	1/2"	13/16"	11/32"	5/16"	1,200
1/2"	5/16"	1/2"	1-9/32"	5/8"	1"	15/32"	7/16"	2,200
5/8"	3/8"	21/32"	1-21/32"	7/8"	1-5/16"	35/64"	1/2"	3,500
3/4"	1/2"	13/16"	1-27/32"	15/16"	1-5/8"	43/64"	5/8"	5,200
7/8"	9/16"	29/32"	1-31/32"	1-5/32"	1-7/8"	25/32"	3/4"	7,200
1"	11/16"	1-1/16"	2-13/32"	1-3/16"	2"	15/16"	7/8"	10,000



*** At parting line: includes 7° draft.** **** Hole size.**
† Loads are based on a safety factor of 5 to 1.

Eye Bolts
Machinery

Made in USA

CHICAGO C H F Since 1912

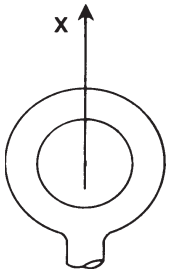
Maximum blank lengths, either pattern indicated in column (1). Vertical loads are based on a safety factor of 5 to 1. Variation in quantity: on special items we reserve the right to a maximum 10% variation for allowances in manufacture.

Standard Shank Lengths – Plain & Shoulder Pattern

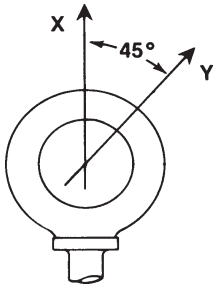
Stock Numbers		Dimensions – Inches						
Plain Pattern	Shoulder Pattern	Shank		Eye		Overall Length Plain	Overall Length Shoulder	Maximum Lengths (1)
		Dia. & Thread	Length	I.D.	O.D.			
1	21	1/4"-20	1"	3/4"	1-1/4"	2-1/4"	2-3/8"	3"
2	22	5/16"-18	1-1/8"	7/8"	1-1/2"	2-5/8"	2-3/4"	4"
3	23	3/8"-16	1-1/4"	1"	1-21/32"	2-29/32"	3-1/4"	4-1/2"
4	24	7/16"-14	1-3/8"	1-3/32"	1-27/32"	3-7/32"	3-5/8"	4-1/2"
5	25	1/2"-13	1-1/2"	1-3/16"	2-1/16"	3-9/16"	4"	4-1/2"
6	26	9/16"-12	1-5/8"	1-9/32"	2-9/32"	3-29/32"	4-1/2"	4-1/2"
7	27	5/8"-11	1-3/4"	1-3/8"	2-1/2"	4-1/4"	4-7/8"	4-1/2"
8	28	3/4"-10	2"	1-1/2"	2-13/16"	4-13/16"	5-1/4"	5"
9	29	7/8"-9	2-1/4"	1-11/16"	3-1/4"	5-1/2"	6"	5"
10	30	1"-8	2-1/2"	1-13/16"	3-9/16"	6-1/16"	7"	5"
11	31	1-1/8"-7	2-3/4"	2"	4"	6-3/4"	7-1/2"	2-3/4"
12	32	1-1/4"-7	3"	2-3/16"	4-7/16"	7-7/16"	8-1/2"	3"
14	34	1-1/2"-6	3-1/2"	2-1/2"	5-3/16"	8-11/16"	9-1/2"	3-1/2"

Working load limits for eye bolts are based on a straight vertical lift in a gradually increasing manner. Angular lifts will significantly lower working load limits (see Shoulder Pattern) and should be avoided whenever possible. If an angular lift is required, a properly seated Shoulder Pattern eye bolt must be used. Loads should always be applied to eye bolts in the plane of the eye, not at an angle to this plane. Angular lifts must never be more than a 45° pull. For angular lifting see page 23.

Diameter and Thread	Working Load Limit	
	Straight Pull (X)	45° Pull (Y) Shoulder Only
1/4"-20	500	125
5/16"-18	900	225
3/8"-16	1400	350
7/16"-14	2000	500
1/2"-13	2600	650
9/16"-12	3200	750
5/8"-11	4000	1000
3/4"-10	6000	1500
7/8"-9	7000	1750
1"-8	9000	2250
1-1/8"-7	12000	2500
1-1/4"-7	15000	3750
1-1/2"-6	21000	4900



Plain Pattern



Shoulder Pattern

ANGULAR LIFTS SHOULD BE AVOIDED WHENEVER POSSIBLE.

Eye Bolts
Machinery

Made in USA

CHICAGO C H F Since 1912

Drop forged steel. Heat treated after forging. Self-colored, zinc plated, or hot galvanized. Plain or shoulder type, blank or threaded. Threaded will be supplied unless otherwise specified. See additional specifications and dimensions on page 18.



Available in Zinc Plated and Hot Galvanized. See page 20.

Some sizes available in Stainless Steel. See page 48.

Available in Metric See page 22.

Standard Shank Lengths
Plain Pattern

Plain Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Threaded Part No.	Threaded Weight Per 100	Blank Part No.	Blank Weight Per 100
1	1/4"	1"	11605 3	5	11005 1	5.5
2	5/16"	1-1/8"	11625 1	10.5	11025 9	11.5
3	3/8"	1-1/4"	11645 9	15.5	11045 7	16.5
4	7/16"	1-3/8"	11665 7	20.5	11065 5	22
5	1/2"	1-1/2"	11685 5	33	11085 3	35
6	9/16"	1-5/8"	11705 0	44.5	11105 8	45
7	5/8"	1-3/4"	11725 8	64	11125 6	66
8	3/4"	2"	11748 7	90.5	11148 5	97
9	7/8"	2-1/4"	11768 5	135	11168 3	142
10	1"	2-1/2"	11788 3	190.5	11188 1	199
11	1-1/8"	2-3/4"	11808 8	299.5	11208 6	312
12	1-1/4"	3"	11831 6	399	11231 4	412
14	1-1/2"	3-1/2"	11851 4	662.5	11251 2	691



Standard Shank Lengths
Shoulder Pattern

Shoulder Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Threaded Part No.	Threaded Weight Per 100	Blank Part No.	Blank Weight Per 100
21	1/4"	1"	12805 6	6	12205 4	6
22	5/16"	1-1/8"	12825 4	10	12225 2	10.5
23	3/8"	1-1/4"	12845 2	16	12245 0	17
24	7/16"	1-3/8"	12865 0	26.5	12265 8	28
25	1/2"	1-1/2"	12885 8	38	12285 6	39
26	9/16"	1-5/8"	12905 3	49	12305 1	52.5
27	5/8"	1-3/4"	12925 1	73.5	12325 9	76.5
28	3/4"	2"	12948 0	99.5	12348 8	104
29	7/8"	2-1/4"	12968 8	172.5	12368 6	178
30	1"	2-1/2"	12988 6	235	12388 4	242
31	1-1/8"	2-3/4"	13008 0	342.5	12408 9	347
32	1-1/4"	3"	13031 8	462.5	12431 7	485
34	1-1/2"	3-1/2"	13051 6	752.5	12451 5	780

Eye Bolts
Plated Machinery

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ZINC PLATED

Plain Pattern – Zinc

Plain Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.
1	1/4"	1"	26005 3
2	5/16"	1-1/8"	26008 4
3	3/8"	1-1/4"	26011 4
4	7/16"	1-3/8"	26014 5
5	1/2"	1-1/2"	26017 6
6	9/16"	1-5/8"	26020 6
7	5/8"	1-3/4"	26023 7
8	3/4"	2"	26026 8
9	7/8"	2-1/4"	26029 9
10	1"	2-1/2"	26032 9
11	1-1/8"	2-3/4"	26035 0
12	1-1/4"	3"	26038 1
14	1-1/2"	3-1/2"	26041 1

Shoulder Pattern – Zinc

Shoulder Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.
21	1/4"	1"	26050 3
22	5/16"	1-1/8"	26053 4
23	3/8"	1-1/4"	26056 5
24	7/16"	1-3/8"	26059 6
25	1/2"	1-1/2"	26062 6
26	9/16"	1-5/8"	26065 7
27	5/8"	1-3/4"	26068 8
28	3/4"	2"	26071 8
29	7/8"	2-1/4"	26074 9
30	1"	2-1/2"	26077 0
31	1-1/8"	2-3/4"	26080 0
32	1-1/4"	3"	26083 1
34	1-1/2"	3-1/2"	26086 2





HOT GALVANIZED

Plain Pattern – Galvanized

Plain Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.
1	1/4"	1"	26105 0
2	5/16"	1-1/8"	26108 1
3	3/8"	1-1/4"	26111 1
4	7/16"	1-3/8"	26114 2
5	1/2"	1-1/2"	26117 3
6	9/16"	1-5/8"	26120 3
7	5/8"	1-3/4"	26123 4
8	3/4"	2"	26126 5
9	7/8"	2-1/4"	26129 6
10	1"	2-1/2"	26132 6
11	1-1/8"	2-3/4"	26135 7
12	1-1/4"	3"	26138 8
14	1-1/2"	3-1/2"	26141 8

Shoulder Pattern – Galvanized

Shoulder Pattern No.	Bolt Diameter N.C.	Standard Shank Length	Part No.
21	1/4"	1"	26155 5
22	5/16"	1-1/8"	26158 6
23	3/8"	1-1/4"	26161 6
24	7/16"	1-3/8"	26164 7
25	1/2"	1-1/2"	26167 8
26	9/16"	1-5/8"	26170 8
27	5/8"	1-3/4"	26173 9
28	3/4"	2"	26176 0
29	7/8"	2-1/4"	26179 1
30	1"	2-1/2"	26182 1
31	1-1/8"	2-3/4"	26185 2
32	1-1/4"	3"	26188 3
34	1-1/2"	3-1/2"	26191 3

Eye Bolts
Machinery

Made in USA

Variation in quantity: on special items we reserve the right to a maximum 10% variation for allowances in manufacture.



Special Shank Lengths
Plain Pattern

		Threaded		Blank	
Bolt Diameter N.C.	Special Shank Length	Part No.	Weight Per 100	Part No.	Weight Per 100
1/4"	2"	11608 4	6	11008 2	8
1/4"	3"	11611 4	10	11011 2	14
5/16"	2"	11628 2	12	11028 0	14
5/16"	3"	11631 2	14	11031 0	16
5/16"	4"	11634 3	14	11034 1	18
3/8"	2"	11648 0	16	11048 8	18
3/8"	3"	11651 0	18	11051 8	23
3/8"	4"	11654 1	22	11054 9	24
3/8"	4-1/2"	11657 2	22	11057 0	26
7/16"	2"	11668 8	22	11068 6	24
7/16"	3"	11671 8	26	11071 6	30
7/16"	4"	11674 9	30	11074 7	34
7/16"	4-1/2"	11677 0	30	11077 8	36
1/2"	2"	11688 6	32	11088 4	34
1/2"	3"	11691 6	38	11091 4	42
1/2"	4"	11694 7	42	11094 5	48
1/2"	4-1/2"	11697 8	42	11097 6	50
9/16"	2"	11708 1	48	11108 9	52
9/16"	3"	11711 1	54	11111 9	60
9/16"	4"	11714 2	60	11114 0	68
9/16"	4-1/2"	11717 3	60	11117 1	68
5/8"	2"	11728 9	62	11128 7	68
5/8"	3"	11731 9	70	11131 7	74
5/8"	4"	11734 0	74	11134 8	86
5/8"	4-1/2"	11737 1	76	11137 9	90
3/4"	3"	11751 7	96	11151 5	120
3/4"	4"	11754 8	104	11154 6	126
3/4"	4-1/2"	11757 9	108	11157 7	144
3/4"	5"	11760 9	132	11160 7	154
7/8"	3"	11771 5	188	11171 3	196
7/8"	4"	11774 6	202	11174 4	218
7/8"	4-1/2"	11777 7	210	11177 5	224
7/8"	5"	11780 7	218	11180 5	230
1"	3"	11791 3	210	11191 1	232
1"	4"	11794 4	230	11194 2	254
1"	4-1/2"	11797 5	236	11197 3	264
1"	5"	11800 2	254	11200 0	276



Special Shank Lengths
Shoulder Pattern

		Threaded		Blank	
Bolt Diameter N.C.	Special Shank Length	Part No.	Weight Per 100	Part No.	Weight Per 100
1/4"	2"	12808 7	8	12208 5	10
1/4"	3"	12811 7	10	12211 5	12
5/16"	2"	12828 5	12	12228 3	14
5/16"	3"	12831 5	14	12231 3	16
5/16"	4"	12834 6	16	12234 4	18
3/8"	2"	12848 3	20	12248 1	22
3/8"	3"	12851 3	22	12251 1	24
3/8"	4"	12854 4	24	12254 2	28
3/8"	4-1/2"	12857 5	26	12257 3	28
7/16"	2"	12868 1	26	12268 9	30
7/16"	3"	12871 1	30	12271 9	32
7/16"	4"	12874 2	34	12274 0	36
7/16"	4-1/2"	12877 3	36	12277 1	38
1/2"	2"	12888 9	40	12288 7	42
1/2"	3"	12891 9	44	12291 7	46
1/2"	4"	12894 0	46	12294 8	50
1/2"	4-1/2"	12897 1	48	12297 9	52
9/16"	2"	12908 4	48	12308 2	52
9/16"	3"	12911 4	52	12311 2	58
9/16"	4"	12914 5	58	12314 3	60
9/16"	4-1/2"	12917 6	60	12317 4	68
5/8"	2"	12928 2	74	12328 0	80
5/8"	3"	12931 2	82	12331 0	86
5/8"	4"	12934 3	90	12334 1	102
5/8"	4-1/2"	12937 4	92	12337 2	104
3/4"	3"	12951 0	116	12351 8	126
3/4"	4"	12954 1	130	12354 9	140
3/4"	4-1/2"	12957 2	132	12357 0	146
3/4"	5"	12960 2	138	12360 0	154
7/8"	3"	12971 8	186	12371 6	198
7/8"	4"	12974 9	202	12374 7	218
7/8"	4-1/2"	12977 0	208	12377 8	226
7/8"	5"	12980 0	216	12380 8	232
1"	3"	12991 6	254	12391 4	270
1"	4"	12994 7	266	12394 5	290
1"	4-1/2"	12997 8	280	12397 6	304
1"	5"	13000 4	290	12400 3	318

See page 18 for specifications and dimensions.

Additional special shank lengths available upon request.

Eye Bolts
Metric Machinery

Made in USA

CHICAGO C H F Since 1912

Dimensions in Millimeters – Some Sizes Available in Stainless Steel on a Special Basis.

FORGED • CARBON STEEL • SELF-COLORED • SHOULDER PATTERN

Part No.	Metric Size	Approx. Equivalent in Inches	A Thread Size	B Shank Length, mm	C I.D. Eye, mm	Approx. Wt. Per 100 Pcs. in Lbs.	Working Load Limit in Kgs.	Working Load Limit in Lbs.
13805 5	M6	1/4"	M6 x 1.0	25.4	19	6	210	462
13825 3	M7	5/16"	M7 x 1.0	28.5	22	10	370	814
13845 1	M8	3/8"	M8 x 1.25	31.7	25	16	450	992
13865 9	M10	7/16"	M10 x 1.5	35.0	28	21	740	1,628
13885 7	M12	1/2"	M12 x 1.75	38.0	30	38	1,030	2,266
13905 2	M14	9/16"	M14 x 2.0	44.5	35	73	1,600	3,520
13925 0	M16	5/8"	M16 x 2.0	44.5	35	73	1,600	3,520
13948 9	M18	3/4"	M18 x 2.5	51.0	38	104	2,140	4,708
13968 7	M20	7/8"	M20 x 2.5	57.0	43	161	2,860	6,292
13988 5	M24	1"	M24 x 3.0	63.5	46	231	3,850	8,470
14008 9	M27	1-1/8"	M27 x 3.0	70.0	51	335	5,200	11,440
14031 7	M30	1-1/4"	M30 x 3.5	76.0	55	439	6,400	14,080
14051 5	M36	1-1/2"	M36 x 4.0	89.0	63	731	8,970	19,734

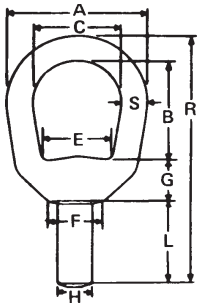
DROP FORGED LIFTING EYES

Drop forged from C-1035 steel, heat treated. Available blank or threaded. Self-colored finish is standard; hot galvanized or other finishes supplied on a special basis. Used in lifting applications where larger eyes are required. When ordering prefix stock number with letter "B" (blank) or "T" (threaded) as required. Loads are based on a safety factor of 5 to 1. Working loading limits for lifting eyes are based on a straight vertical lift in a gradually increasing manner, and should never be used for angular lifts.

LIFTING EYES – SELF-COLORED

Stock Number	Bail Size	Blank Part No.	Threaded Part No.	Threaded Working Load Limit
C-186	1/4"	15005 7	15505 2	860
C-187	5/16"	15010 1	15510 6	1260
C-185	3/8"	15015 6	15515 1	2200
C-181	1/2"	15020 0	15520 5	3600
C-184	5/8"	15025 5	15525 0	5200
C-188	3/4"	15030 9	15530 4	7000





Stock Number	Shank		Dimensions – Inches								Thread Length	Weight Per 100	
	H	L	A	C	B	E	F	G	S	R		Blank	Threaded
C-186	5/16"	1"	1-1/4"	3/4"	1-1/16"	19/32"	1/2"	3/8"	1/4"	2-11/16"	7/8"	12	11
C-187	3/8"	1-1/8"	1-5/8"	1"	1-1/4"	3/4"	9/16"	1/2"	5/16"	3-3/16"	1"	22	22
C-185	1/2"	1-1/4"	2"	1-1/4"	1-1/2"	1"	13/16"	5/8"	3/8"	3-3/4"	1-1/8"	41	38
C-181	5/8"	1-1/2"	2-1/2"	1-1/2"	2"	1-3/16"	1"	11/16"	1/2"	4-11/16"	1-3/8"	81	74
C-184	3/4"	1-7/8"	3"	1-3/4"	2-3/8"	1-3/8"	1-1/8"	7/8"	5/8"	5-3/4"	1-3/4"	139	129
C-188	7/8"	2"	3-1/2"	2"	2-5/8"	1-5/8"	1-5/16"	15/16"	3/4"	6-5/16"	1-7/8"	222	214

Wedge Socket Clips
CM Piggyback

MADE IN USA

COLUMBUS McKINNON

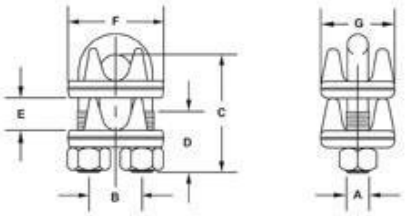
Sizes: 3/8 to 1-1/2 in.

The CM PiggyBack® Wedge Socket Clip is the only clip on the market specifically designed for securing the dead end of a wire rope on a wedge socket. Its revolutionary dual saddle design attaches quickly and easily to prevent crimping and damage to the live end of wire rope and eliminates the need for a short rope piece or loop on dead end. Properly secured dead end will not snag/foul and shear off at wedge socket.

- Forged saddles include size, USA and CM logo
- Drop-forged base for superior function and wearability
- Galvanized finish



The above picture may not be an exact representation of the product



PIGGYBACK® WEDGE SOCKET CLIPS															
Size (in)	Standard Package	Product Code	Saddle	U-Bolt	Dimensions (in)							Heavy Hex Nut Galv.	Torque (ft./lbs.)	Min. Tail (in.)	Weight (lbs)
					A	B	C	D	E	F	G				
3/8	10	M248D	1X248	2X248L	7/16-14UNC	1.00	2.38	0.75	0.69	1.94	1.62	602224	45	6	0.8
7/16	10	M249D	1X249	2X250L	1/2-13UNC	1.19	2.62	1.00	0.66	2.31	1.78	602225	65	6	1.3
1/2	10	M250D	1X250	2X250L	1/2-13UNC	1.19	2.62	1.00	0.72	2.31	1.91	602225	65	6	1.4
9/16	10	M296D	1X296	2X251L	9/16-12UNC	1.31	3.19	1.25	0.77	2.50	1.97	602226	95	6	1.7
5/8	10	M251D	1X251	2X251L	9/16-12UNC	1.31	3.19	1.25	0.87	2.50	2.00	602226	95	6	1.7
3/4	10	M252D	1X252	2X252L	5/8-11UNC	1.50	3.50	1.50	0.91	2.81	2.34	602227	130	6	2.5
7/8	5	M253D	1X253	2X253L	3/4-10UNC	1.75	3.88	2.00	1.07	3.16	2.44	602228	225	6	3.6
1	5	M254D	1X254	2X254L	3/4-10UNC	1.88	4.25	2.00	1.22	3.47	2.62	602228	225	6	3.9
1-1/8	5	M255D	1X255	2X255L	3/4-10UNC	2.00	4.50	2.00	1.31	3.59	2.81	602228	225	6-3/4	4.9
1-1/4	5	M256D	1X256	2X256L	7/8-9UNC	2.31	5.25	2.38	1.50	4.22	3.15	602246	360	7-1/2	6.5
1-3/8	5	M257D	1X257	2X257L	7/8-9UNC	2.38	5.62	2.38	1.56	4.25	3.08	602246	360	8-1/4	7.1
1-1/2	5	M258D	1X258	2X258L	7/8-9UNC	2.59	6.00	2.38	1.75	4.47	3.41	602246	360	9	8.2

Wire Rope Clips
CM Bundling Clip

MADE IN USA

COLUMBUS McKINNON

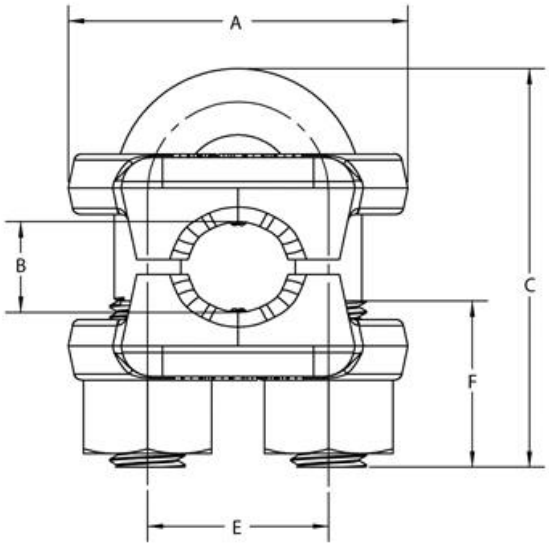
Sizes: 3/4 to 1-1/8 in.

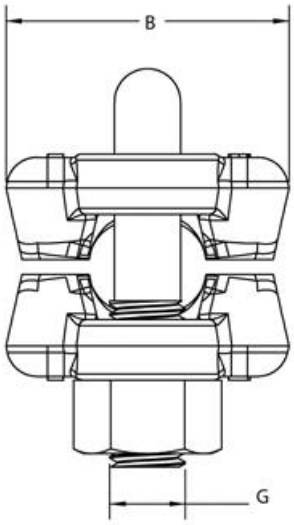
The CM Bundling Clip is built for harsh environments and demanding applications of the oil and gas industry. They are user-friendly with an easy-to-assemble, U-shaped design, allowing for fewer dropped or lost parts. The CM bundling clip design eliminates shear points and damage to wire rope, and prevents the choker from going slack and the load spreading after tension is released from the sling.

- Galvanized and painted U-bolt with rolled threads. Interchangeable and replaceable with our standard wire rope clip U-bolts.
- Forged and galvanized saddles come with FORGED USA, size, CM logo and trace code forged in.
- Meets B30.26 plus traceability.
- Performs to rated capacities.
- After inspection, the CM Bundling Clip is reusable.
- Available for use with 3/4", 7/8", 1" and 1-1/8" wire rope chokers.



The above picture may not be an exact representation of the product





BUNDLING CLIP											
Size (in)	Standard Package	Product Code	Dimensions (in)							Torque (ft./lbs.)	Weight (lbs)
			A	B	C	D	E	F	G		
3/4	10	M252B	2.81	2.81	3.30	0.75	1.50	1.38	5/8"-11 UNC	130	2.5
7/8	5	M253B	3.16	2.44	3.80	0.88	1.75	1.63	3/4"-10 UNC	225	3.6
1	5	M254B	3.47	2.63	4.16	1.00	1.88	1.81	3/4"-10 UNC	225	3.9
1-1/8	5	M255B	3.60	2.81	4.54	1.13	2.00	2.00	3/4"-10 UNC	225	4.9

Wire Rope Clips
CM Mid-Grip

MADE IN USA

COLUMBUS McKINNON

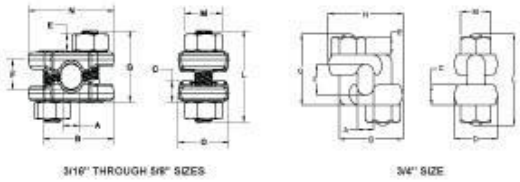
Sizes: 3/16 to 3/4 in.

The CM Mid-Grip is designed for applications in the scaffolding industry. The redesigned mid-grip features a hexagon bolt head that fits securely into a forged, hex-shaped socket that prevents spinning even after repeated use and re-torqueing. It has precise threading on the nut and bolt to ensure tight alignment. This design also allows for full arc wrench swing, making installation and retightening quick and easy.



The above picture may not be an exact representation of the product

- Allows for full arc wrench swing for quicker installation, retightening and disassembly.
- Saddles are made of forged steel for strength and wearability. Full assembly is mechanical galvanized per ASTM B695-04 Class 25 Type 1.
- Size, manufacturer and trace code are clearly marked on the saddle for easy identification.
- Meets or exceeds performance requirements of FF-C-450 specifications, Type III, Class 1 and will provide maximum holding strength.



MID-GRIP WIRE ROPE CLIP																
Size (in)	Standard Package	Product Code	Dimensions (in)										Minimum Number of Clips	Rope Turn-Back (in.)	Torque (ft./lbs.)	Weight (lbs.)
			A	B	C	D	E Thread	F	G	L Approx.	M	N				
New Style																
3/16	20	M2546	0.37	1.53	0.44	1.06	3/8 - 16	0.50	1.50	1.93	0.69	1.74	2	4	30	0.38
1/4	20	M2546	0.37	1.53	0.44	1.06	3/8 - 16	0.50	1.50	1.93	0.69	1.74	2	4	30	0.38
5/16	20	M2547	0.34	1.48	0.44	1.06	3/8 - 16	0.63	1.50	1.90	0.69	1.80	2	5	30	0.38
3/8	20	M2548	0.46	1.67	0.54	1.13	7/16 - 14	0.75	1.84	2.26	0.75	2.00	2	5.5	45	0.49
7/16	20	M2550	0.65	2.03	0.59	1.31	1/2 - 13	1.05	2.23	2.74	0.88	2.40	2	6.5	65	0.84
1/2	20	M2550	0.65	2.03	0.59	1.31	1/2 - 13	1.05	2.23	2.74	0.88	2.40	3	11	65	0.84
9/16	20	M2551	0.78	2.46	0.73	1.63	5/8 - 11	1.38	2.81	3.44	1.06	2.90	3	12.75	130	1.55
5/8	20	M2551	0.78	2.46	0.73	1.63	5/8 - 11	1.38	2.81	3.44	1.06	2.90	3	13.5	130	1.55
Old Style																
3/4	20	M2252	0.81	2.69	0.88	1.81	3/4 - 10	1.50	3.38	5.00	1.25	3.02	3	16.00	225	1.79

Hooks
CM Sorting/Herc-Alloy 800

MADE IN USA

COLUMBUS McKINNON

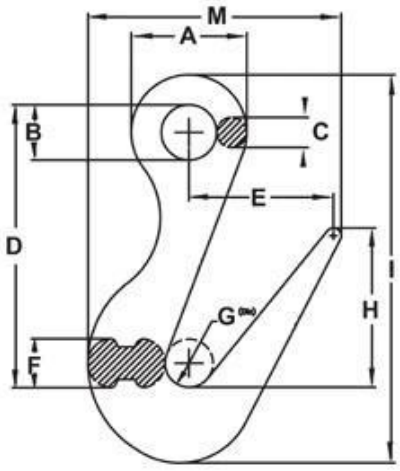
WLL: 7-1/2 Tons

CM Sorting Hooks are designed to lift and move material with long narrow throat openings. Sorting hooks are 100%proof tested and are available with or without handles.

- 5:1 design factor
- Quench and tempered alloy steel
- Long tapered point designed for easy grab in rings, pear links, eye bolts or lifting holes
- Durable orange powder coated finish
- Do not load last 1" of the tip



The above picture may not be an exact representation of the product



SORTING HOOK HERC-ALLOY 800®															
Working Load Limit (lbs)		With handle		Without handle		Dimensions (in)									
At Tip (ton)	At bottom of Hook (ton)	Product Code	Weight (lbs)	Product Code	Weight (lbs)	A	B	C	D	E	F	G	H	I	M
1	7-1/2	M129H	7.0	M129	6.8	3	1.44	0.78	7.34	3.75	1.28	1.25	3.93	10.09	6.58

Shackles
CM Long Reach

MADE IN USA

COLUMBUS McKINNON

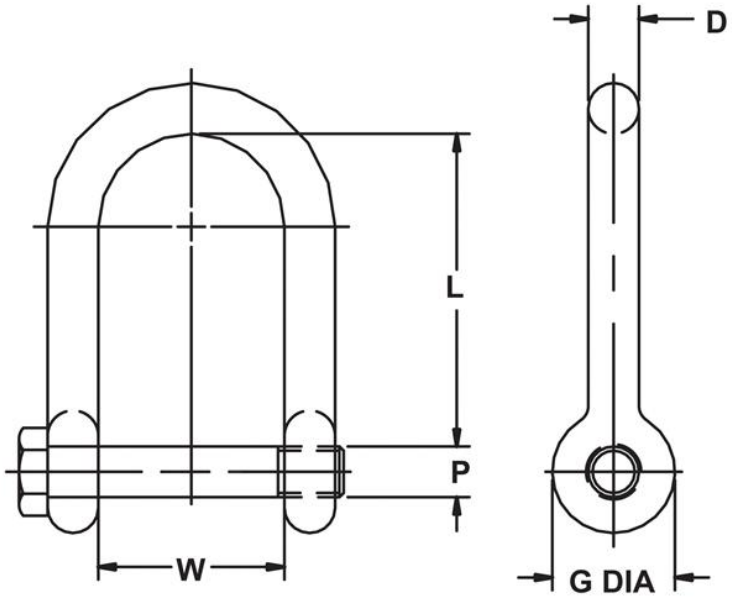
WLL: 7,000 to 50,000 lbs.

As one of the only manufacturers of long-reach shackles, we designed these shackles for use in construction applications where a longer reach is needed to attach to pick points.

- Design factor of 5:1
- Meets the requirements of ASME B30.26
- Alloy Steel
- WLL forged on body
- Offered in self-colored or durable orange powder coated finish
- Do not point load. The load should be evenly distributed over
- the entire pin to achieve full working load limit.



The above picture may not be an exact representation of the product



LONG REACH SHACKLE												
Size (in.)	Working Load Limit	Screw Pin			Bolt, Nut & Cotter			Dimensions (in.)				
		Product Code		Weight (lbs)	Product Code		Weight (lbs)					
		Self Colored	Painted		Self Colored	Painted		P	D	L	W	G
5/8	7,000	M7151	M7151P	1.80	M9151	M9151P	1.95	0.75	0.63	4.00	2.25	1.57
3/4	10,000	M7152	M7152P	2.72	M9152	M9152P	3.21	0.88	0.75	5.00	2.75	1.81
1	19,000	M7154	M7154P	5.86	M9154	M9154P	6.31	1.00	1.00	5.50	3.25	2.38
1-1/4	28,000	M7156	M7156P	11.90	M9156	M9156P	12.90	1.38	1.25	6.19	3.88	3.06
1-1/2	34,000	M7157	M7157P	19.60	M9157	M9157P	20.70	1.50	1.50	7.00	4.50	3.50
1-3/4	50,000	M7177	M7177P	30.70	M9177	M9177P	33.30	2.00	1.75	8.00	5.25	4.00

Shackles
General Information



Applications

Shackles are used in lifting operations and static systems as removable links to connect (steel) wire rope, chain and other fittings. Screw pin shackles are used mainly for non-permanent applications. Safety bolt shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin.

Chain- or dee shackles are mainly used on one-leg systems whereas anchor- or bow shackles are mainly used on multi-leg systems.

Range

Van Beest offers a wide range of bow and dee shackles for a wide variety of applications. The range stretches from WLL 0.33 t to 1550 t. This provides our customers with a very extensive range to choose a shackle that suits their application best. Most of the shackles are directly available from stock. Furthermore, shackles can be supplied to many standards such as the US Federal Specification RR-C-271, EN 13889, British Standard 3032, DIN 82101, DIN 82016 etc.
Additionally we offer a wide range of general commercial shackles, which are not suitable for lifting but merely for fixing purposes.

Design

All Van Beest shackles have a specific design for a specific application.

Some examples are:
- Green Pin® Super shackles which are made out of grade 8 steel. They are designed to be used in confined spaces. The higher material strength is used to reduce the physical dimensions of the product whilst maintaining its WLL and functionality of the product;
- Green Pin® Polar shackles are for use in extreme climatic conditions with material properties guaranteed up to temperatures of -40°C;
- Green Pin® Sling shackles are designed to provide a better radius to the sling it lifts. A bigger radius increases the life span of the sling significantly;
- Another example of functional design is a shackle pin with a square sunken hole. Because of the flat head there is less risk of the shackle getting caught in a net or a line.

These are all examples of highly functional designs, to optimize the use of the Van Beest shackles in daily use.

Shackles used for lifting applications are generally marked with:

- Working Load Limit	■ e.g. WLL 25 T
- manufacturer's symbol	■ e.g. GP
- traceability code	■ e.g. HA indicating a particular batch
- steel grade	■ e.g. 4, 6, 8
- CE conformity code (Conformité Européenne)	■ CE

Van Beest Green Pin® shackles meet all relevant requirements of the Machinery Directive 2006/42/EC and its latest amendments.

Finish

Shackles supplied by Van Beest can be hot dipped galvanized, electro-galvanized, painted or self coloured, depending on the type of shackle and its application.

You can find the finish of each type of shackle in the product section further on.

Certification

Upon request at time of order, all load rated shackles can be supplied with any of the following documents or certificates:

Free of Charge:

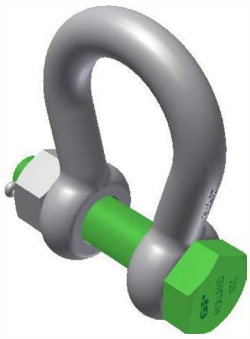
2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] | DNV 2.7-1 [b] | DNV 2.22 | CE

With additional Charges:

MTC [b] | MPI [a] | MPI [b] | US [a] | US [b] | BL

On request the proof load test certificates can be supplied surveyed by an official classification society, such as LROS, DNV GL, BV, ABS or any other officially certified inspection body.

Please verify your certification requirements with Van Beest at time of order.



Shackles
General Information





Green Pin® standard shackles and Green Pin® Polar shackles are DNV type approved. These shackles carry two DNV type approval certificates that show compliance with:

- DNV 2.7-1 Offshore Containers
- EN 12079-2 Offshore containers and associated lifting sets
- EN 13889 Forged steel shackles for general lifting purposes
- IMO/MSC Circular 860
- US Federal Specification RR-C-271
- DNV Standard for Certification No. 2.7-3 Portable Offshore Units
- DNV Standard for Certification No. 2.22 Lifting Appliances

The certificates S-7593 and S-7925 confirm that Green Pin® standard shackles and Green Pin® Polar shackles meet the requirements set in the latest version of the above mentioned DNV standards.

Testing

Generally load rated products are Proofload tested, and certificates can be supplied upon request.
For specific information on certificates we refer to the separate paragraph on certification.

Green Pin® shackles are Proofload tested at the following loads:

working load limit	Green Pin® standard shackles polar shackles heavy duty shackles proof load	Green Pin® super shackles proof load	Green Pin® sling shackles proof load
t	t	t	t
0.33	0.66		
0.5	1		
0.75	1.5		
1	2		
1.5	3		
2	4		
3.25	6.5		
3.3		6.6	
4.75	9.5		
5		10	
6.5	13		
7		14	14
8.5	17		
9.5	19	19	
12	24		
12.5		25	25
13.5	27		
15		30	
17	34		
18		36	36
21		42	
25	50		
30		60	60
35	70		
40		80	80
42.5	85		
55	110	110	110
75			112.5
85	170	170	
120	180	240	
125			187.5
150	225	225	225
175		262.5	
200	300		300
250	375		375
300	450		450
400	600		532
500	750		665
600	900		798
700	1050		931
800	1200		1064
900	1350		1197
1000	1500		1330
1250	1875		1663
1500	2250		
1550			2061.5

Shackles
Safe Lifting Practices

GP
Green Pin®

Instructions for use

Select the correct type and WLL of shackle and WLL for the particular application. If extreme circumstances or shock loading may occur, this must be well taken into account when selecting the correct shackle. Please note that commercial shackles are not to be used for lifting applications.

Shackles should be inspected before use to ensure that:

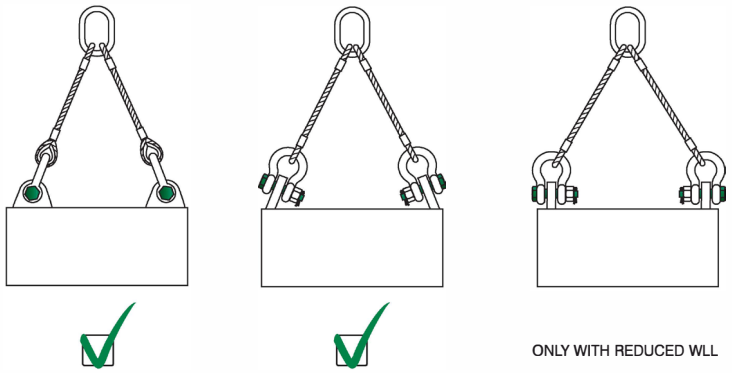
- all markings are legible;
- the body and pin are both of the same brand and type;
- the body and pin are both of the correct size;
- never use a safety bolt type shackle without using a securing pin;
- the pin, nut, cotter pin, or any other locking system cannot vibrate out of position;
- the threads of the pin and the body are undamaged;
- the body and the pin are not distorted or unduly worn;
- the body and pin are free from nicks, gouges, cracks and corrosion;
- shackles may not be heat treated as this may affect their WLL;
- never modify, repair or reshape a shackle by machining, welding, heating or bending as this will affect the WLL.

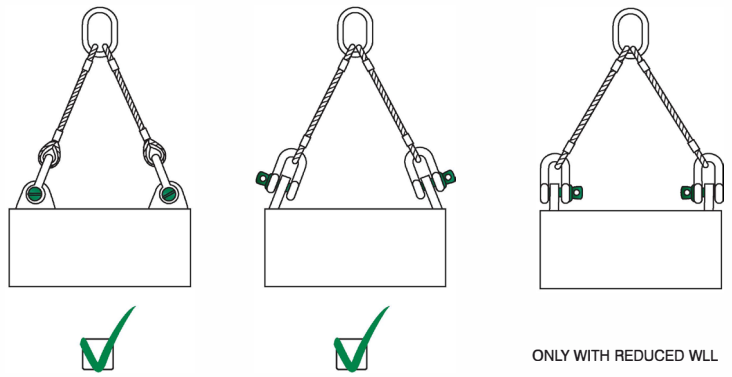
Assembly

Ensure that the pin is correctly screwed into the shackle eye: tighten it hand-tight, then secure it using a wrench or other suitable tool so that the collar of the pin is fully seated against the shackle eye. Ensure that the pin is of the correct length so that it penetrates the full depth of the threaded eye and the collar of the pin seats against the surface of the shackle eye.

Incorrect seating of the pin may be caused by a bent pin, too tight fitting thread or misalignment of the pin holes. Do not use the shackle under these circumstances. Never replace a shackle pin except with one of the same brand, type, make and size to ensure the shackle maintains its original WLL.

Make sure that the shackle is supporting the load correctly, i.e. along the axis of the shackle body centerline. Avoid bending loads, unstable loads and overloads.

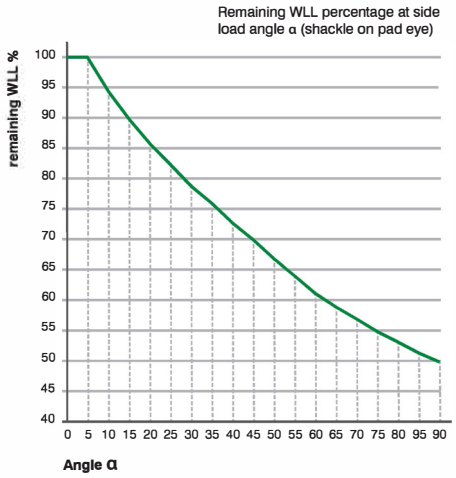


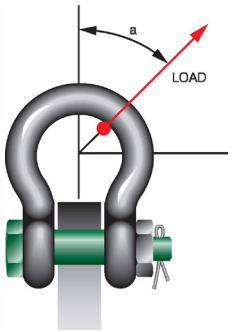


Shackles
Safe Lifting Practices

Side loads

Side loads should be avoided, as the products are not designed for this purpose. If side loads cannot be avoided, the WLL of the shackle must be reduced:

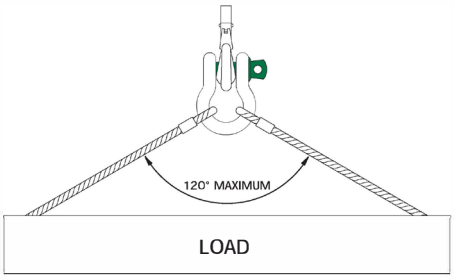




This graph is valid for all Green Pin® shackles, except P-6033 (Sling shackles). If you want to apply a side load on a Green Pin® Sling shackle, please contact Van Beest.

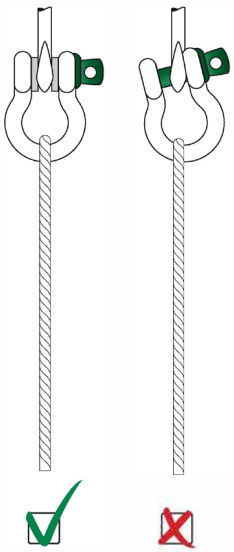
In-line lifting is considered to be a load perpendicular to the pin and in the plane of the bow. The load angles in the graph represent the deviating angles from in-line loading.

When connecting shackles to multi-leg slings, consider the effect of the angle between the legs of the sling. As the angle increases, so does the load in the sling leg and consequently in any shackle attached to that leg.



When a shackle is used to connect two slings to the hook of a lifting device, a bow type shackle must be used. The slings must be connected to the shackle body, and the shackle pin must be placed in the hook. The angle between the slings should not exceed 120°. If symmetrically loaded the shackle may be used to the full WLL.

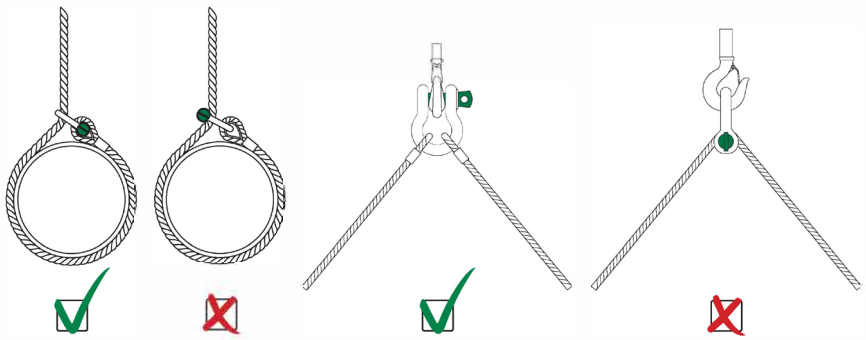
To avoid eccentric loading of the shackle a loose spacer may be used on either end of the shackle pin. Do not reduce the width between the shackle jaws by welding washers or spacers to the inside of the shackle eyes or by narrowing the jaws, as this will affect the WLL of the shackle.



Shackles
Safe Lifting Practices

When a shackle is attached to the top block of a set of wire rope blocks the load on this shackle is increased by the value of the hoisting effect.

Avoid applications where the load moves over the shackle pin; the pin may rotate and possibly be unscrewed. If moving of the load cannot be avoided, or when the shackle is to be left in place for a prolonged period or where maximum pin security is required, use a shackle with a safety bolt, nut and cotter pin.



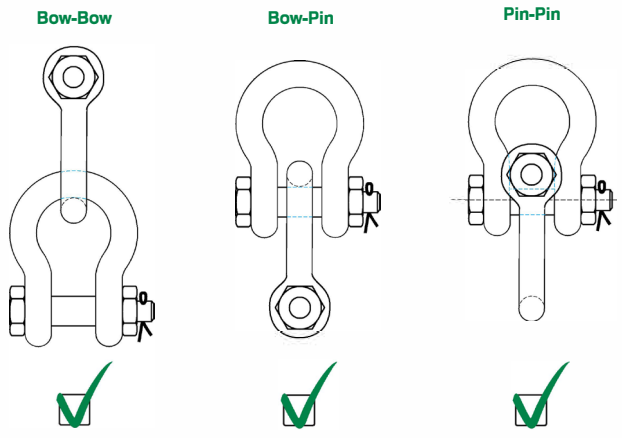
Shackles should not be immersed in acidic solutions or exposed to acidic fumes or other chemicals that are potentially harmful for the shackle.

Point loading

Shackles are used in lifting- and static systems as removable links to connect (steel) wire rope, chain and other fittings. Most of the times the load bearing component that connects to a shackle is of a rounded shape. Point loading of shackles during lifting operations is allowed but the minimum dimension of the rounded component to be lifted should be equal to or bigger than the bow size of the shackle being used. The maximum load of the configuration is limited by the component with the lowest WLL.

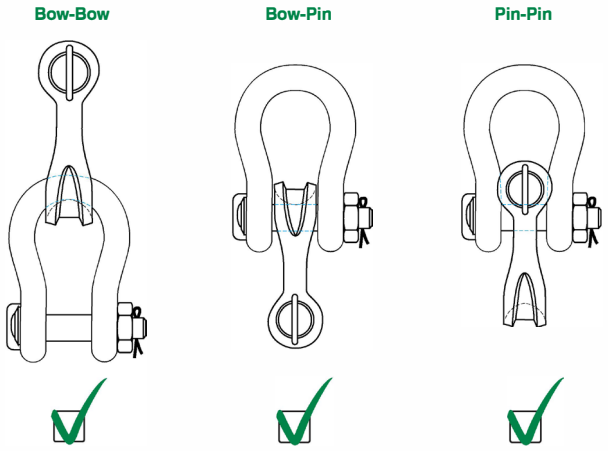
Increasing the contact area by using bigger diameters and/or pad eyes can be an advantage. Sharp edges should be avoided.

Green Pin® shackles can also be used in below configurations. The maximum load of the configuration is limited by the component with the lowest WLL.

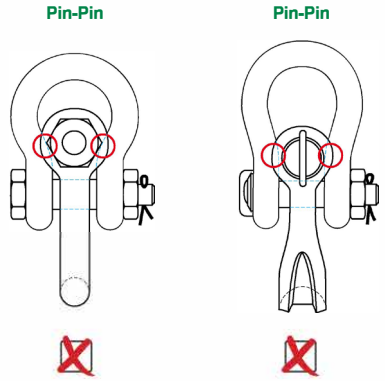


Shackles
Safe Lifting Practices

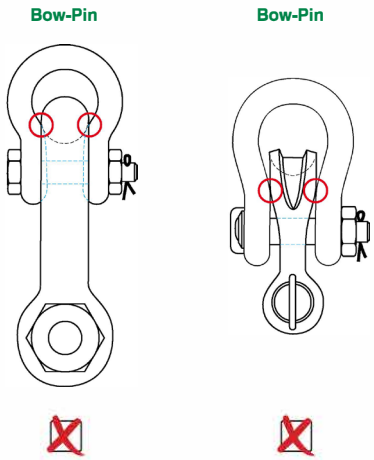
The crown of a Green Pin® Sling shackle is wider than that of a standard shackle, thus creating a bigger bearing surface. This improves the lifetime of the sling. Green Pin® Sling shackles can also be used in bellow configurations. The maximum load of the configuration is limited by the component with the lowest WLL.



Pin- Pin configuration:
When the shackle eyes touch and the pins do not bear properly, the configuration should not be used.



Bow- Pin configuration:
When the shackle body of the inner shackle touches the shackle eyes of the outer shackle and body and pin do not bear properly, the configuration should not be used.



Shackles

Screw Pin Anchor

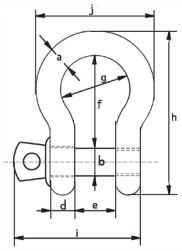
GP Green Pin®

Green Pin® Standard Shackles

bow shackles with screw collar pin



G-4161





- **Material** : bow and pin high tensile steel, Grade 6, quenched and tempered
- **Safety Factor** : MBL equals 6 x WLL
- **Standard** : EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, Grade A from 2 t and upward these shackles comply with ASME B30.26
- **Finish** : hot dipped galvanized
- **Temperature Range** : -40°C up to +200°C
- **Certification** : 2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] * | DNV 2.7-1 [b] * | DNV 2.22 | CE

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight each
	a	b	c	d	e	f	g	h	i	j	
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
0.33	5	6	12	5	9.5	22	16	36	29.5	26	0.02
0.5	7	8	16.5	7	12	29	20	48.5	38	34	0.05
0.75	9	10	20	9	13.5	32	22	56	46.5	40	0.1
1	10	11	22.5	10	17	36.5	26	63.5	54	46	0.14
1.5	11	13	26.5	11	19	43	29	74	59.5	51	0.19
2	13.5	16	34	13	22	51	32	89	73	58	0.36
3.25	16	19	40	16	27	64	43	110	89	75	0.63
4.75	19	22	46	19	31	76	51	129	103	89	1.01
6.5	22	25	52	22	36	83	58	144	119	102	1.5
8.5	25	28	59	25	43	95	68	164	137	118	2.21
9.5	28	32	66	28	47	108	75	185	153	131	3.16
12	32	35	72	32	51	115	83	201	170	147	4.31
13.5	35	38	80	35	57	133	92	227	186	162	5.55
17	38	42	88	38	60	146	99	249	203	175	7.43
25	45	50	103	45	74	178	126	300	243	216	12.84
35	50	57	111	50	83	197	138	331	272	238	18.15
42.5	57	65	130	57	95	222	160	377	310	274	26.29
55	65	70	145	65	105	260	180	433	344	310	37.6

In inch

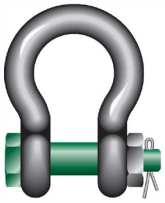
working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight each
	a	b	c	d	e	f	g	h	i	j	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
0.33	3/16	1/4	1/2	3/16	3/8	7/8	5/8	1 13/32	1 5/32	1 1/32	0.05
0.5	1/4	5/16	21/32	9/32	15/32	1 5/32	25/32	1 29/32	1 1/2	1 11/32	0.11
0.75	5/16	3/8	25/32	11/32	17/32	1 1/4	7/8	2 7/32	1 27/32	1 9/16	0.22
1	3/8	7/16	7/8	13/32	21/32	1 7/16	1 1/32	2 1/2	2 1/8	1 13/16	0.3
1.5	7/16	1/2	1 1/32	7/16	3/4	1 11/16	1 5/32	2 29/32	2 11/32	2	0.42
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 1/2	2 7/8	2 9/32	0.79
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 1/2	2 15/16	1.38
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 1/16	3 1/2	2.22
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	4 11/16	4 1/32	3.31
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 13/32	4 21/32	4.86
9.5	1 1/8	1 1/4	2 19/32	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	6 1/32	5 5/32	6.97
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	6 11/16	5 25/32	9.49
13.5	1 3/8	1 1/2	3 5/32	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 5/16	6 3/8	12.24
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	8	6 7/8	16.37
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	9 9/16	8 1/2	28.31
35	2	2 1/4	4 3/8	1 31/32	3 9/32	7 3/4	5 7/16	13 1/32	10 23/32	9 3/8	40.01
42.5	2 1/4	2 9/16	5 1/8	2 1/4	3 3/4	8 3/4	6 5/16	14 27/32	12 7/32	10 25/32	57.96
55	2 1/2	2 3/4	5 29/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	13 17/32	12 7/32	82.89

RFID | CAD

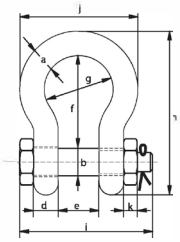
* For shackles ≥ WLL 2 t

Shackles
Bolt Type - Safety

Green Pin® Standard Shackles
bow shackles with safety bolt



G-4163





- **Material** : bow and pin high tensile steel, Grade 6, quenched and tempered
- **Safety Factor** : MBL equals 6 x WLL
- **Standard** : EN 13889 and
  meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade A
  from 2 t and upward these shackles comply with ASME B30.26
- **Finish** : hot dipped galvanized
- **Temperature Range** : -40°C up to +200°C
- **Certification** : 2.1 | 2.2 | 3.1 | MTC [a] | DNV 2.7-1 [a] * | DNV 2.7-1 [b] * | DNV 2.22 | CE

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
	a	b	c	d	e	f	g	h	i	j	k	
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
0.5	7	8	16.5	7	12	29	20	48.5	42	34	4	0.06
0.75	9	10	20	9	13.5	32	22	56	50	40	5	0.11
1	10	11	22.5	10	17	36.5	26	63.5	60	46	8	0.16
1.5	11	13	26.5	11	19	43	29	74	67	51	11	0.22
2	13.5	16	34	13	22	51	32	89	82	58	13	0.42
3.25	16	19	40	16	27	64	43	110	98	75	17	0.74
4.75	19	22	46	19	31	76	51	129	114	89	19	1.18
6.5	22	25	52	22	36	83	58	144	130	102	22	1.77
8.5	25	28	59	25	43	95	68	164	150	118	25	2.58
9.5	28	32	66	28	47	108	75	185	166	131	27	3.66
12	32	35	72	32	51	115	83	201	178	147	30	4.91
13.5	35	38	80	35	57	133	92	227	197	162	33	6.54
17	38	42	88	38	60	146	99	249	202	175	19	8.19
25	45	50	103	45	74	178	126	300	249	216	23	14.22
35	50	57	111	50	83	197	138	331	269	238	26	19.53
42.5	57	65	130	57	95	222	160	377	301	274	29	28.33
55	65	70	145	65	105	260	180	433	330	310	32	39.59
85	75	83	162	73	127	329	190	527	380	340	39	62

In inch

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
	a	b	c	d	e	f	g	h	i	j	k	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
0.5	1/4	5/16	21/32	9/32	15/32	1 5/32	25/32	1 29/32	1 21/32	1 11/32	5/32	0.13
0.75	5/16	3/8	25/32	11/32	17/32	1 1/4	7/8	2 7/32	1 31/32	1 9/16	3/16	0.25
1	3/8	7/16	7/8	13/32	21/32	1 7/16	1 1/32	2 1/2	2 3/8	1 13/16	5/16	0.34
1.5	7/16	1/2	1 1/32	7/16	3/4	1 11/16	1 5/32	2 29/32	2 5/8	2	7/16	0.48
2	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 1/2	3 7/32	2 9/32	1/2	0.92
3.25	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	1.62
4.75	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 1/2	3 1/2	3/4	2.59
6.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	3.9
8.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	5.69
9.5	1 1/8	1 1/4	2 19/32	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	6 17/32	5 5/32	1 1/16	8.06
12	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	7	5 25/32	1 3/16	10.81
13.5	1 3/8	1 1/2	3 5/32	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	14.42
17	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	7 15/16	6 7/8	3/4	18.06
25	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	9 13/16	8 1/2	29/32	31.34
35	2	2 1/4	4 3/8	1 31/32	3 9/32	7 3/4	5 7/16	13 1/32	10 19/32	9 3/8	1 1/32	43.77
42.5	2 1/4	2 9/16	5 1/8	2 1/4	3 3/4	8 3/4	6 5/16	14 27/32	11 27/32	10 23/32	1 5/32	62.46
55	2 1/2	2 3/4	5 23/32	2 9/16	4 1/8	10 1/4	7 3/32	17 1/16	13	12 7/32	1 1/4	87.27
85	3	3 1/4	6 3/8	2 7/8	5	12 15/16	7 15/32	20 3/4	14 31/32	13 3/8	1 17/32	136.69

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* For shackles ≥ WLL 2 t

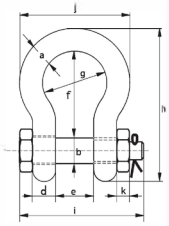
Shackles
Bolt Type - Safety

GreenPin®

Green Pin® Super Shackles
bow shackles with safety bolt



G-5263





- **Material** : bow and pin alloy steel, Grade 8, quenched and tempered
- **Safety Factor** : MBL equals 5 x WLL
- **Standard** : ASME B30.26 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, Grade B
- **Finish** : hot dipped galvanized (175 ton shackle is painted)
- **Temperature Range** : -20 °C up to +200 °C
- **Certification** : 2.1 2.2 3.1 MTC a CE

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
	a	b	c	d	e	f	g	h	i	j	k	
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
3.3	13.5	16	34	13	22	51	32	89	82	58	13	0.40
5	16	19	40	16	27	64	43	110	98	75	17	0.73
7	19	22	46	19	31	76	51	129	114	89	19	1.19
9.5	22	25	52	22	36	83	58	144	130	102	22	1.73
12.5	25	28	59	25	43	95	68	164	150	118	25	2.56
15	28	32	66	28	47	108	75	185	166	131	27	3.6
18	32	35	72	32	51	115	83	201	178	147	30	4.95
21	35	38	80	35	57	133	92	227	197	162	33	6.62
30	38	42	88	38	60	146	99	249	217	175	34	8.11
40	45	50	103	45	74	178	126	300	260	216	40	15
55	57	57	117	57	83	197	138	341	303	252	46	23
85	70	70	143	70	105	260	180	437	363	320	56	44
120	83	83	162	83	127	329	190	535	425	356	66	72
150*	95	95	208	91	147	400	238	647	511	428	50	112
175*	105	108	238	102	169	410	275	688	561	485	60	160

* = round headed bolt

In inch

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
	a	b	c	d	e	f	g	h	i	j	k	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
3.3	1/2	5/8	1 11/32	1/2	7/8	2	1 1/4	3 1/2	3 7/32	2 9/32	1/2	0.88
5	5/8	3/4	1 9/16	5/8	1 1/16	2 17/32	1 11/16	4 11/32	3 27/32	2 15/16	21/32	1.61
7	3/4	7/8	1 13/16	3/4	1 7/32	3	2	5 3/32	4 1/2	3 1/2	3/4	2.62
9.5	7/8	1	2 1/16	7/8	1 13/32	3 9/32	2 9/32	5 21/32	5 1/8	4 1/32	7/8	3.81
12.5	1	1 1/8	2 5/16	31/32	1 11/16	3 3/4	2 11/16	6 15/32	5 29/32	4 21/32	31/32	5.64
15	1 1/8	1 1/4	2 19/32	1 3/32	1 27/32	4 1/4	2 15/16	7 9/32	6 17/32	5 5/32	1 1/16	7.94
18	1 1/4	1 3/8	2 27/32	1 1/4	2	4 17/32	3 9/32	7 29/32	7	5 25/32	1 3/16	10.91
21	1 3/8	1 1/2	3 5/32	1 3/8	2 1/4	5 1/4	3 5/8	8 15/16	7 3/4	6 3/8	1 5/16	14.59
30	1 1/2	1 5/8	3 15/32	1 1/2	2 3/8	5 3/4	3 29/32	9 13/16	8 17/32	6 7/8	1 5/16	17.88
40	1 3/4	2	4 1/16	1 25/32	2 29/32	7	4 31/32	11 13/16	10 1/4	8 1/2	1 9/16	33.07
55	2	2 1/4	4 19/32	2 1/4	3 9/32	7 3/4	5 7/16	13 7/16	11 15/16	9 29/32	1 25/32	50.71
85	2 1/2	2 3/4	5 5/8	2 3/4	4 1/8	10 1/4	7 3/32	17 7/32	14 9/32	12 19/32	2 7/32	97
120	3	3 1/4	6 3/8	3 9/32	5	12 15/16	7 15/32	21 1/16	16 23/32	14 1/32	2 5/8	158.73
150*	3 3/4	3 3/4	8 3/16	3 19/32	5 25/32	15 3/4	9 3/8	25 15/32	20 1/8	16 27/32	1 31/32	246.92
175*	4	4 1/4	9 3/8	4 1/32	6 21/32	16 5/32	10 13/16	27 3/32	22 3/32	19 3/32	2 3/8	352.74

* = round headed bolt

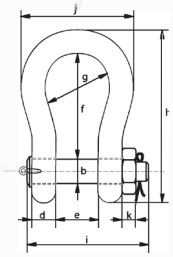
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Shackles
Heavy Duty

GP Green Pin®



P-6036





Green Pin® Heavy Duty Shackles
bow shackles with safety bolt

- **Material** : bow and pin alloy steel, Grade 8 quenched and tempered
- **Safety Factor** : MBL equals 5 x WLL
- **Finish** : shackle bow painted silver, pin painted green (120 tons shackle is hot dipped galvanized)
- **Certification** : 2.1 2.2 3.1 MTC [a] MTC [b] * LROS * MPI [a] US [a] CE

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
	a	b	c	d	e	f	g	h	i	j	k	
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
120	95	95	208	91	147	400	238	647	440	428	50	110
150	105	108	238	102	169	410	275	688	490	485	60	160
200	120	130	279	113	179	513	290	838	520	530	60	235
250	130	140	299	118	205	554	305	904	560	565	65	285
300	140	150	325	123	205	618	305	996	575	585	70	340
400	170	175	376	164	231	668	325	1114	690	665	70	560
500	180	185	398	164	256	718	350	1190	720	710	70	685
600	200	205	444	189	282	718	375	1243	810	775	70	880
700	210	215	454	204	308	718	400	1263	870	820	70	980
800	210	220	464	204	308	718	400	1270	870	820	70	1100
900	220	230	485	215	328	718	420	1296	920	860	70	1280
1000	240	240	515	215	349	718	420	1336	940	900	70	1460
1250	260	270	585	230	369	768	450	1456	1025	970	70	1990
1500	280	290	625	230	369	818	450	1556	1025	1010	70	2400

In inch

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
	a	b	c	d	e	f	g	h	i	j	k	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
120	3 3/4	3 3/4	8 3/16	3 19/32	5 25/32	15 3/4	9 3/8	25 15/32	17 5/16	16 27/32	1 31/32	243
150	4 1/8	4 1/4	9 3/8	4 1/32	6 21/32	16 5/32	10 13/16	27 3/32	19 9/32	19 3/32	2 3/8	353
200	4 23/32	5 1/8	10 31/32	4 7/16	7 1/16	20 3/16	11 13/32	33	20 15/32	20 7/8	2 3/8	518
250	5 1/8	5 1/2	11 25/32	4 21/32	8 1/16	21 13/16	12	35 19/32	22 1/16	22 1/4	2 9/16	628
300	5 1/2	5 29/32	12 25/32	4 27/32	8 1/16	24 11/32	12	39 7/32	22 5/8	23 1/32	2 3/4	750
400	6 11/16	6 7/8	14 13/16	6 15/32	9 3/32	26 5/16	12 25/32	43 27/32	27 5/32	26 3/16	2 3/4	1235
500	7 3/32	7 9/32	15 21/32	6 15/32	10 3/32	28 9/32	13 25/32	46 27/32	28 11/32	27 15/16	2 3/4	1510
600	7 7/8	8 1/16	17 15/32	7 7/16	11 3/32	28 9/32	14 3/4	48 15/16	31 7/8	30 1/2	2 3/4	1940
700	8 9/32	8 15/32	17 7/8	8 1/32	12 1/8	28 9/32	15 3/4	49 23/32	34 1/4	32 9/32	2 3/4	2161
800	8 9/32	8 21/32	18 9/32	8 1/32	12 1/8	28 9/32	15 3/4	50	34 1/4	32 9/32	2 3/4	2425
900	8 21/32	9 1/16	19 3/32	8 15/32	12 29/32	28 9/32	16 17/32	51 1/32	36 7/32	33 27/32	2 3/4	2822
1000	9 7/16	9 7/16	20 9/32	8 15/32	13 3/4	28 9/32	16 17/32	52 19/32	37	35 7/16	2 3/4	3219
1250	10 1/4	10 5/8	23 1/32	9 1/16	14 17/32	30 1/4	17 23/32	57 5/16	40 11/32	38 3/16	2 3/4	4387
1500	11 1/32	11 13/32	24 19/32	9 1/16	14 17/32	32 7/32	17 23/32	61 1/4	40 11/32	39 3/4	2 3/4	5291

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* For shackles ≥ WLL 150 t

Shackles

Sling (Wide Body)

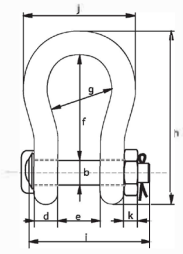
GP Green Pin®

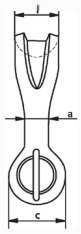
Green Pin® Sling Shackles

bow shackles with safety bolt



P-6033





- **Material** : bow and pin alloy steel, Grade 8, quenched and tempered
- **Safety Factor** : MBL equals 5 x WLL
- **Finish** : shackle bow painted silver, pin painted green
- **Temperature Range** : -20 °C up to +200 °C
- **Certification** : 2.1 2.2 3.1 MTC b * LROS * MPI b * US b * CE

working load limit	diameter body	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	bearing surface	weight each
	a	b	c	d	e	f	g	h	i	j	k	l	
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
7	22	22	46	19	32	96	64	153	115	110	19	41	2
12.5	28	28	61	25	44	121	82	197	151	146	24	54	4
18	35	35	69	30	54	148	102	239	175	180	29	64	7
30	40	42	90	35	69	165	126	279	211	200	34	79	13
40	55	51	109	45	84	199	140	331	252	235	38	97	21
55	60	57	115	55	90	240	160	389	299	270	45	100	30
75	68	70	125	54	110	290	185	473	327	317	54	120	48
125	85	80	154	85	137	366	220	583	426	390	64	150	92
150	94	95	179	89	147	391	253	645	435	434	50	170	140
200	110	105	199	100	158	481	280	759	470	482	50	205	205
250	126	120	227	110	179	542	300	859	519	530	60	240	264
300	135	134	245	122	195	601	350	947	575	620	70	265	360
400	160	160	293	145	231	576	370	985	675	690	80	320	580
500	170	180	328	160	263	681	450	1131	748	790	90	339	780
600	190	200	348	170	289	741	490	1234	809	865	100	370	980
700	200	215	392	190	315	751	540	1284	879	901	100	400	1360
800	218	230	420	200	342	851	554	1426	942	947	110	420	1430
900	242	255	466	220	368	851	580	1488	1023	1023	120	440	1650
1000	260	270	490	240	399	851	614	1532	1103	1107	120	460	2970
1250	285	300	510	260	452	931	650	1666	1227	1182	150	530	3700
1550	285	320	550	280	483	950	680	1710	1300	1253	150	560	4000

In inch

working load limit	diameter body	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	bearing surface	weight each
	a	b	c	d	e	f	g	h	i	j	k	l	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
7	7/8	7/8	1 13/16	3/4	1 9/32	3 25/32	2 17/32	6	4 17/32	4 5/16	3/4	1 5/16	4.41
12.5	1 1/8	1 1/8	2 3/8	1	1 3/4	4 3/4	3 1/4	7 3/4	5 15/16	5 3/4	15/16	2 1/8	8.82
18	1 3/8	1 3/8	2 23/32	1 3/16	2 1/8	5 13/16	4 1/32	9 13/32	6 7/8	7 3/32	1 5/32	2 17/32	18
30	1 9/16	1 21/32	3 17/32	1 3/8	2 23/32	6 1/2	4 31/32	10 31/32	8 5/16	7 7/8	1 11/32	3 1/8	29
40	2 5/32	2	4 9/32	1 25/32	3 5/16	7 27/32	5 1/2	13 1/32	9 29/32	9 1/4	1 1/2	3 13/16	46
55	2 3/8	2 1/4	4 17/32	2 5/32	3 17/32	9 7/16	6 5/16	15 5/16	11 25/32	10 5/8	1 25/32	3 15/16	66
75	2 11/16	2 3/4	4 29/32	2 1/8	4 11/32	11 13/32	7 9/32	18 5/8	12 7/8	12 15/32	2 1/8	4 23/32	106
125	3 11/32	3 5/32	6 1/16	3 11/32	5 13/32	14 13/32	8 21/32	22 15/16	16 25/32	15 11/32	2 17/32	5 29/32	203
150	3 11/16	3 3/4	7 1/16	3 1/2	5 25/32	15 13/32	9 31/32	25 13/32	17 1/8	17 3/32	1 31/32	6 11/16	309
200	4 11/32	4 1/8	7 27/32	3 15/16	6 7/32	18 15/16	11 1/32	29 7/8	18 1/2	18 31/32	1 31/32	8 1/16	452
250	4 31/32	4 23/32	8 15/16	4 11/32	7 1/16	21 11/32	11 13/16	33 13/16	20 7/16	20 7/8	2 3/8	9 7/16	582
300	5 5/16	5 9/32	9 21/32	4 13/16	7 11/16	23 21/32	13 25/32	37 9/32	22 5/8	24 13/32	2 3/4	10 7/16	794
400	6 5/16	6 5/16	11 17/32	5 23/32	9 3/32	22 11/16	14 9/16	38 25/32	26 9/16	27 5/32	3 5/32	12 19/32	1279
500	6 11/16	7 3/32	12 29/32	6 5/16	10 11/32	26 13/16	17 23/32	44 17/32	29 7/16	31 3/32	3 17/32	13 11/32	1720
600	7 15/32	7 7/8	13 11/16	6 11/16	11 3/8	29 3/16	19 9/32	48 19/32	31 27/32	34 1/16	3 15/16	14 9/16	2161
700	7 7/8	8 15/32	15 7/16	7 15/32	12 13/32	29 9/16	21 1/4	50 9/16	34 19/32	35 15/32	3 15/16	15 3/4	2998
800	8 19/32	9 1/16	16 17/32	7 7/8	13 15/32	33 1/2	21 13/16	56 5/32	37 3/32	37 9/32	4 11/32	16 17/32	3153
900	9 17/32	10 1/32	18 11/32	8 21/32	14 1/2	33 1/2	22 27/32	58 19/32	40 9/32	40 9/32	4 23/32	17 5/16	3638
1000	10 1/4	10 5/8	19 9/32	9 7/16	15 23/32	33 1/2	24 3/16	60 5/16	43 7/16	43 19/32	4 23/32	18 1/8	6548
1250	11 7/32	11 13/16	20 3/32	10 1/4	17 25/32	36 21/32	25 19/32	65 19/32	48 5/16	46 17/32	5 29/32	20 7/8	8157
1550	11 7/32	12 19/32	21 21/32	11 1/32	19 1/32	37 13/32	26 25/32	67 5/16	51 3/16	49 11/32	5 29/32	22 1/16	8818

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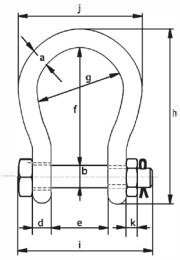
* For shackles ≥ WLL 75 t

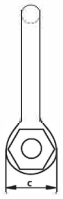
Shackles
Wide Mouth

GP Green Pin®



G-4263





Green Pin® Wide Mouth Shackles
bow shackles with safety bolt

- **Material** : bow and pin alloy steel, Grade 8, quenched and tempered
- **Safety Factor** : MBL equals 6 x WLL
- **Finish** : hot dipped galvanized
- **Temperature Range** : -20 °C up to +200 °C
- **Certification** : 2.1 2.2 3.1 MTC a CE

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
	a	b	c	d	e	f	g	h	i	j	k	
t	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
4.75	22	25	52	22	63	112	88	173	157	132	22	2.08
6.5	25	28	59	25	75	135	105	204	183	155	25	3.14
8.5	28	32	66	28	82	148	115	225	205	171	27	4.36
9.5	32	35	72	32	90	162	126	248	224	190	30	5.95
12	35	38	79	35	100	180	140	274	245	210	33	7.87
16	38	42	88	38	106	216	159	319	248	235	19	12.5
25	45	50	103	45	127	248	175	370	296	265	23	16.7
30	50	57	118	50	146	273	207	411	332	307	26	25
55	65	70	145	65	165	314	213	487	391	343	32	45
75	83	83	164	83	184	330	254	537	460	420	39	70

In inch

working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
	a	b	c	d	e	f	g	h	i	j	k	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
4.75	7/8	1	2 1/16	7/8	2 15/32	4 13/32	3 15/32	6 13/16	6 3/16	5 3/16	7/8	4.59
6.5	1	1 1/8	2 5/16	31/32	2 15/16	5 5/16	4 1/8	8 1/32	7 7/32	6 3/32	31/32	6.92
8.5	1 1/8	1 1/4	2 19/32	1 3/32	3 7/32	5 13/16	4 17/32	8 27/32	8 1/16	6 23/32	1 1/16	9.61
9.5	1 1/4	1 3/8	2 27/32	1 1/4	3 17/32	6 3/8	4 31/32	9 3/4	8 13/16	7 15/32	1 3/16	13.12
12	1 3/8	1 1/2	3 1/8	1 3/8	3 15/16	7 3/32	5 1/2	10 25/32	9 21/32	8 9/32	1 5/16	17.35
16	1 1/2	1 5/8	3 15/32	1 1/2	4 3/16	8 1/2	6 1/4	12 9/16	9 3/4	9 1/4	3/4	27.56
25	1 3/4	2	4 1/16	1 25/32	5	9 3/4	6 7/8	14 9/16	11 21/32	10 7/16	29/32	36.82
30	2	2 1/4	4 21/32	1 31/32	5 3/4	10 3/4	8 5/32	16 3/16	13 1/16	12 3/32	1 1/32	55.12
55	2 1/2	2 3/4	5 23/32	2 9/16	6 1/2	12 3/8	8 3/8	19 3/16	15 13/32	13 1/2	1 1/4	105.82
75	3 1/4	3 1/4	6 15/32	3 9/32	7 1/4	13	10	21 5/32	18 1/8	16 17/32	1 17/32	154.32

RFID CAD

Wire Rope Clips
Instructions

GP Green Pin®



Applications

Wire rope clips are used on wire rope eye-loop connections or complete loops, end-to-end connections where socketing or splicing is not feasible or when a temporary joint is required.

Range

Van Beest offers a wide range of wire rope clips, specifically standardized models such as EN13411-5 and DIN wire rope clips.

Design

Green Pin® wire rope clips are drop forged and have a bridge with grooves to tighten the wire rope properly in the clip; the DIN wire rope clips have a malleable base, without grooves.

Wire rope clips are generally marked with:

- manufacturer's symbol	■ e.g. GP
- wire rope diameter in mm or inches	■ e.g. 13 or $^1/_2$"
- traceability code	■ e.g. A1

Finish

The finish can be electro-galvanized or hot dipped galvanized.

Certification

Specific details of certificate availability can be found on each product page.
Please verify your certification requirements with Van Beest at time of order.

Instructions for use

Wire rope clips should be inspected before use to ensure that:

- all markings are legible;
- a wire rope clip with the correct dimensions has been selected;
- the nuts or any other locking system cannot vibrate out of position;
- the wire rope clip is free from nicks, gouges and cracks;
- never modify, repair or reshape a wire rope clip by machining, welding, heating or bending as this may affect their performance.

The wire rope clip should be fitted to the wire rope as shown in below figures.
The bridge of the wire rope clip should always be placed on the load bearing part of the rope. The U-bolt of the clip should be placed on the rope tail, also known as the dead end of the rope.

Turn back enough wire rope length so that the required minimum number of clips can be installed according to the instructions below.

The first clip must be placed one bridge width from the turned-back rope tail or dead end of the rope, according to figure 1. Tighten the nuts to the specified torque.

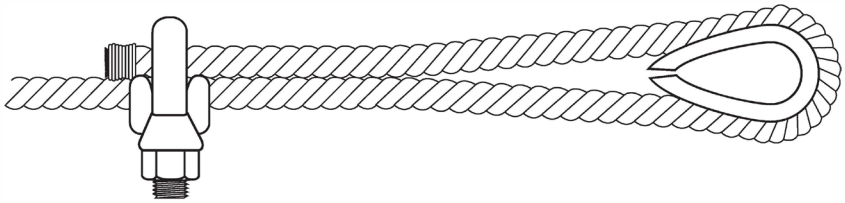


Figure 1

Wire Rope Clips
Instructions

The second clip must be placed immediately against the thimble. Take care that the correct tightening of the clip does not damage the outer wires of the wire rope (figure 2). Tighten the nuts firmly but not yet to the specified torque.

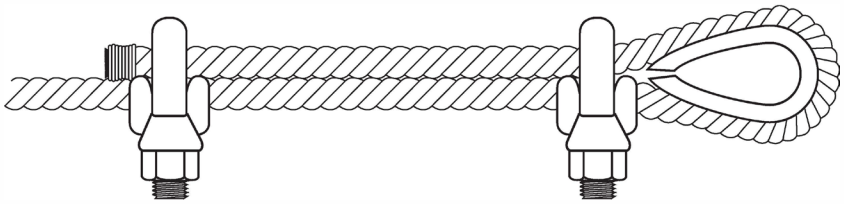


Figure 2

The following clips should be placed on the wire rope between the first and second clip in such a way that they are separated by at least 1½ times the clip-width with a maximum of 3 times the clip-width, according to figure 3.

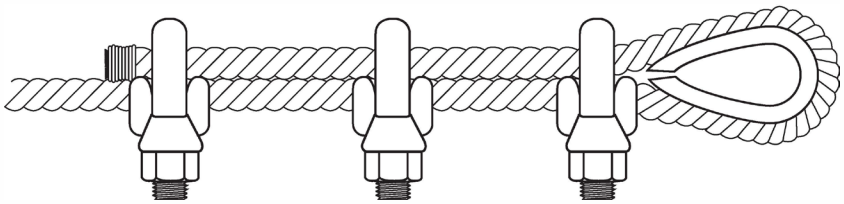


Figure 3

Apply light tension on the rope and tighten all nuts evenly, alternating until reaching the specified torque.

After assembly and before the rope is taken into service, the nuts must be tightened further to the prescribed torque. After the load has been applied to the assembly for the first time, the torque value must be checked and corrected if necessary. Re-tightening of the nuts must be done at 10.000 cycles (heavy usage), 20.000 cycles (moderate usage) or 50.000 cycles (light usage). If cycles are unknown, a competent person could fix a time period, e.g. every 3 months, 6 months, annually.

The torque values and the minimum number of clips to be applied for a particular rope size are given in the following tables.

diameter wire rope	diameter wire rope	min. no of clips required	length of rope to turn back	torque value	torque value
inch	mm		mm	Nm	Ft.Lbs
1/8	3 - 4	2	85	6.1	4.5
3/16	5	2	95	10.2	7.5
1/4	6 - 7	2	120	20.3	15
5/16	8	3	133	40.7	30
3/8	9 - 10	3	165	61	45
7/16	11 - 12	3	178	88	65
1/2	13	3	292	88	65
9/16	14 - 15	3	305	129	95
5/8	16	3	305	129	95
3/4	18 - 20	4	460	176	130
7/8	22	4	480	305	225
1	24 - 26	5	660	305	225
1 1/8	28 - 30	6	860	305	225
1 1/4	32 - 34	7	1120	488	360
1 3/8	36	7	1120	488	360
1 1/2	38 - 40	8	1370	488	360
1 5/8	41 - 42	8	1470	583	430
1 3/4	44 - 46	8	1550	800	590
2	48 - 52	8	1800	1017	750
2 1/4	56 - 58	8	1850	1017	750
2 1/2	62 - 65	9	2130	1017	750
2 3/4	68 - 72	10	2540	1017	750
3	75 - 78	10	2690	1627	1200

Table 1, Green Pin® wire rope clips generally to EN 13411-5 Type B, required number and torque value

Wire Rope Clips
Instructions

GP GreenPin®

diameter wire rope	min. no of clips required	torque value	torque value
mm		Nm	Ft.Lbs
5	3	2	1.5
6.5	3	3.5	2.6
8	4	6	4.4
10	4	9	6.6
12	4	20	14.8
13	4	33	24.3
14	4	33	24.3
16	4	49	36
19	5	68	50
22	5	107	79
26	5	147	108
30	6	212	156
34	6	296	218
40	6	363	268

Table 2, Wire rope clips generally to EN 13411-5 Type A, required number and torque value

The efficiency of a wire rope termination made with wire rope clips depends on the correct placement of the clips on the rope and on correct fitting and tightening of the clips. With inadequately tightened nuts or with an insufficient number of wire rope clips the rope end may slide through the clips during use.

The fitting of the clips on the ropes may be affected by various circumstances, such as:
- the nut may be tight on the thread, yet not tight against the bridge;
- contamination of the thread by dirt, oil or corrosion products, which may prevent correct tightening of the nut.

Forged wire rope clips provide greater bearing surface and more consistent strength than malleable cast iron clips.

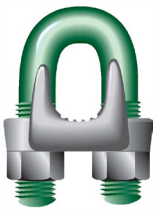
Suitable applications of wire rope clips to EN13411-5 standards include suspending static loads and single use lifting operations which have been assessed by a competent person taking into account appropriate safety factors.

Wire rope clips should not be used in following applications:

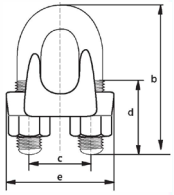
- hoist ropes in mines;
- rope drives for cranes in steel works and rolling mills;
- permanent fastening of ropes in other rope drives;
- rope terminations for load suspension devices in the operation of lifting appliances, except in the case of lifting tackles where these are produced for a special application and used only once.

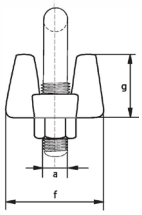
Wire rope clips must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the material structure.
Inspection should take place at least every six months and more frequently when the products are used in severe operating conditions.

Wire Rope Clips
Drop Forged



G-6240





Green Pin® wire rope clips
generally to EN 13411-5 Type B

- **Material** : Bridge : drop forged high tensile steel SAE 1045
  U-bolt : SAE 1015
- **Standard** : EN 13411-5 Type B
  Formerly U.S. Federal Specification FF-C-450D
- **Finish** : Hot dipped galvanized
  U-bolt and/or nuts for diameter bow 5, 6, 8 and 10 are electro galvanized
- **Certification** : 2.1

diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
	a	b	c	d	e	f	g	
mm	mm	mm	mm	mm	mm	mm	mm	kg
4	5	24	12	11	24	21	10	2
5	6	31	15	13	29	24	13	4
7	8	34	19	13	37	30	18	8
8	10	45	22	19	43	33	19	13
10	11	49	26	19	49	42	25	19
11	12	60	30	25	58	46	26	33
13	13	61	30	25	58	48	31	34
15	14	72	33	32	63	52	31	45
16	14	74	33	32	64	54	36	45
20	16	86	38	37	72	57	38	68
22	19	98	45	41	80	62	40	108
26	19	108	48	46	88	67	47	113
30	19	117	51	51	91	73	48	140
34	22	130	59	54	105	79	56	207
36	22	140	60	59	108	79	58	234
40	22	147	66	60	112	85	64	254
42	25	161	70	67	121	92	67	329
46	29	174	78	70	134	97	76	441
52	32	195	86	78	150	113	85	603
58	32	213	98	81	162	116	100	707
65	32	227	105	87	168	119	113	806
72	32	243	112	91	174	127	124	1015
78	38	271	121	98	194	135	136	1472

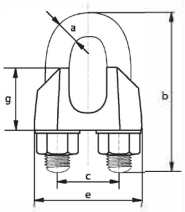
diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
	a	b	c	d	e	f	g	
inch	inch	inch	inch	inch	inch	inch	inch	lbs
1/8	3/16	15/16	15/32	7/16	15/16	13/16	13/32	4.4
3/16	1/4	1 7/32	19/32	1/2	1 5/32	15/16	1/2	8.8
1/4	5/16	1 11/32	3/4	1/2	1 15/32	1 3/16	23/32	17.6
5/16	13/32	1 25/32	7/8	3/4	1 11/16	1 5/16	3/4	28.7
3/8	7/16	1 15/16	1 1/32	3/4	1 15/16	1 21/32	31/32	42
7/16	15/32	2 3/8	1 3/16	31/32	2 9/32	1 13/16	1 1/32	73
1/2	1/2	2 13/32	1 3/16	31/32	2 9/32	1 7/8	1 7/32	75
9/16	9/16	2 27/32	1 5/16	1 1/4	2 15/32	2 1/16	1 7/32	99
5/8	9/16	2 29/32	1 5/16	1 1/4	2 17/32	2 1/8	1 13/32	99
3/4	5/8	3 3/8	1 1/2	1 15/32	2 27/32	2 1/4	1 1/2	150
7/8	3/4	3 27/32	1 25/32	1 5/8	3 5/32	2 7/16	1 9/16	238
1	3/4	4 1/4	1 7/8	1 13/16	3 15/32	2 5/8	1 7/8	249
1 1/8	3/4	4 19/32	2	2	3 19/32	2 7/8	1 7/8	309
1 1/4	7/8	5 1/8	2 5/16	2 1/8	4 1/8	3 1/8	2 7/32	456
1 3/8	7/8	5 1/2	2 3/8	2 5/16	4 1/4	3 1/8	2 9/32	516
1 1/2	7/8	5 25/32	2 19/32	2 3/8	4 13/32	3 11/32	2 17/32	560
1 5/8	31/32	6 11/32	2 3/4	2 5/8	4 3/4	3 5/8	2 5/8	725
1 3/4	1 5/32	6 27/32	3 1/16	2 3/4	5 9/32	3 13/16	3	972
2	1 1/4	7 11/16	3 3/8	3 1/16	5 29/32	4 7/16	3 11/32	1329
2 1/4	1 1/4	8 3/8	3 27/32	3 3/16	6 3/8	4 9/16	3 15/16	1559
2 1/2	1 1/4	8 15/16	4 1/8	3 7/16	6 5/8	4 11/16	4 7/16	1777
2 3/4	1 1/4	9 9/16	4 13/32	3 19/32	6 27/32	5	4 7/16	2238
3	1 1/2	10 21/32	4 3/4	3 27/32	7 5/8	5 5/16	5 11/32	3245

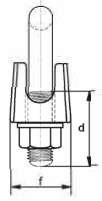
Wire Rope Clips
Malleable

GP
GreenPin®



E-6260





Wire rope clips
generally to EN 13411-5 Type A

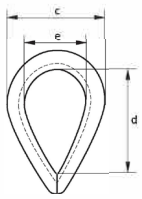
- **Material** : Bridge : malleable steel
  U-bolt : mild steel
- **Standard** : EN 13411-5 Type A
  Formerly DIN 1142
- **Finish** : electro-galvanized
- **Certification** : 2.1

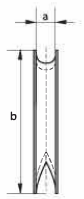
diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
	a	b	c	d	e	f	g	
mm	mm	mm	mm	mm	mm	mm	mm	kg
5	5	25	12	14	25	13	13	2
6.5	6	32	14	17	30	16	14	4
8	8	41	18	20	39	20	18	8.2
10	8	46	20	24	40	20	21	8.4
12	10	56	24	28	50	25	24	17
13	12	64	29	29	55	28	29	27.5
14	12	66	28	31	59	30	28	28.6
16	14	76	34	35	64	32	35	43
19	14	83	37	36	68	33	40	49
22	16	96	41	40	74	34	44	68
26	20	111	46	50	84	38	51	111
30	20	127	54	55	95	41	59	140
34	22	141	60	60	105	45	67	202
40	24	159	68	65	117	49	77	268

Wire Rope Thimbles
Heavy Duty



E-6110





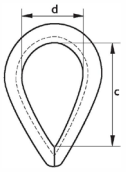
Thimbles
standard commercial

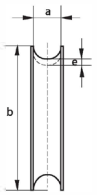
- **Material** : mild steel
- **Finish** : electro-galvanized
- **Certification** : 2.1

diameter rope	width groove	length	width	length inside	width inside	weight per 100 pcs
	a	b	c	d	e	
mm	mm	mm	mm	mm	mm	kg
3	3	24	18	15	10	0.4
4	4	25	19	16	11	0.5
5	5	31	22	22	16	0.6
6	6	37	29	26	19	1.5
7	7	44	32	32	22	2
8	8	51	38	34	24	2.6
9	9	57	42	38	29	6.5
10	10	64	44	42	32	4.8
11	11	70	51	48	35	7.5
12	12	76	57	51	38	8.5
14	14	82	60	57	40	10
16	16	89	64	60	42	12.6
18	18	102	69	67	45	22
20	20	115	79	76	51	26.8
22	22	127	89	83	54	33
24	24	140	102	88	64	39.5
26	26	152	105	102	68	66
28	28	165	115	110	73	77
30	30	178	121	115	79	99
32	32	203	133	140	93	119



G-6120





Thimbles
heavy duty stub-end

- **Material** : mild steel
- **Finish** : hot dipped galvanized
- **Certification** : 2.1

diameter rope	width groove	length	length inside	width inside	thickness back	weight per 100 pcs
	a	b	c	d	e	
mm	mm	mm	mm	mm	mm	kg
8	8	51	35	22	4	5.2
10	10	64	47	30	4	9.8
12	12	76	57	35	5	14.8
14	14	89	65	45	6	19.2
16	16	102	76	50	6	25
18	18	114	86	53	8	38.6
20	20	127	94	60	9	55.6
22	22	140	107	65	10	93
24	24	152	114	70	10	85.2
28	28	178	130	80	10.5	150
32	32	203	157	100	10.5	161
36	36	229	177	115	12	363
40	40	254	198	120	12	376
44	44	279	214	130	15	608
50	50	305	215	140	20	960
56	56	356	245	160	20	1400
64	64	407	275	180	20	1700

Wire Rope Sockets
Wedge-Proper Installation

Open wedge sockets

The wedge and body act as a vice which grips the wire rope and locks it in place. Green Pin® wedge sockets may be used within the range of wire rope diameters as shown in the table further on in the catalogue.

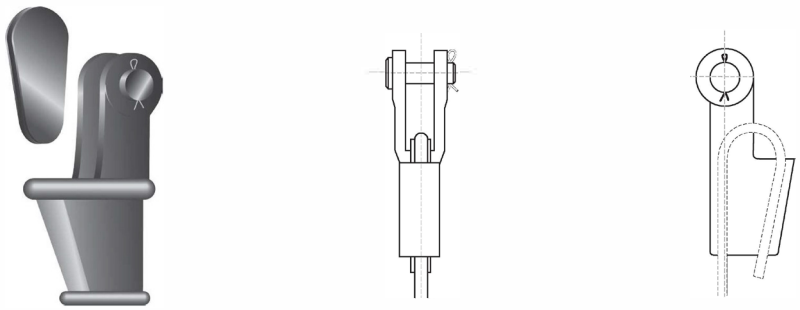


Figure 2

When using open wedge sockets the following precautions should be taken:
- before use always inspect the socket, the wedge and the pin;
- use only with standard 6-8 strand wire rope;
- always be sure that socket and wedge have the correct size for the wire rope diameter;
- the loaded part of the steel wire rope should be mounted in the centre line of the pin;
- when installing the wire rope, always pre-load the wedge with the wire rope in place;
- never weld the tail; the tail should have a length of at least 6 times the wire rope diameter with a minimum of 150 mm. Secure the dead end of the rope with a wire rope clip as shown in figure 3;
- before applying the first load always use a hammer to seat the wedge and rope into the socket as deep as possible;
- check the assembly regularly; re-tighten or re-position if necessary;
- never side load a wedge socket as it has not been designed for that purpose;
- load may slip if the connection is not properly installed;
- the efficiency of a wire rope - wedge socket connection is 80% of the minimum breaking load of the wire, but is limited to the minimum breaking load of the socket;
- only use the original wedge supplied by the manufacturer of the socket and be sure it is suitable for the diameter of the rope used;
- never use a wedge from any other supplier than the original socket supplier as the dimensions will not match

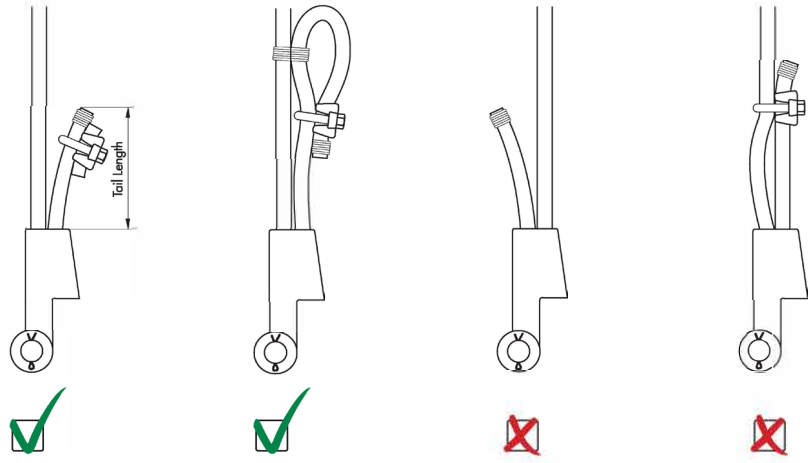
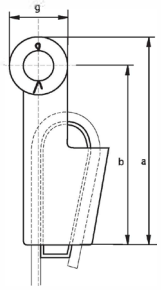


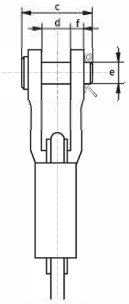
Figure 3

Wire Rope Sockets
Open Wedge



G-6413





Green Pin® sockets

open wedge socket

- **Material** : high tensile steel
- **Standard** : generally to EN 13411-6
- **Finish** : hot dipped galvanized
- **Temperature Range** : -20°C up to +200°C
- **Certification** : 2.1 2.2 3.1

number	minimum breaking load	diameter wire rope	length	length to center pin	width	width inside	dia-meter pin	thick-ness side plates	diameter eye	weight each
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.25	8	7 - 8	128	110	51	18	16	9	36	0.8
0.5	12	9 - 10	165	142	62	20.5	21	11	46	1.5
1	20	11 - 13	175	146	66	25	25	12	57	2.4
2	25	14 - 16	211	176	82	31	30	15	70	4
3	40	18 - 19	252	212	95	38	35	16	80	7.4
4	55	20 - 22	288	240	110	44	41	19	95	11
5	75	24 - 26	329	274	130	51	51	22	110	16
6	90	27 - 29	375	310	144	57	57	25	130	22
7	110	30 - 32	423	350	155	63	64	28	146	31
8	125	34 - 36	474	400	163	69	64	28	148	39
9	150	37 - 39	527	450	178	76	70	30	153	48
10	170	40 - 42	580	500	187	76	76	33	160	64
11	225	43 - 48	650	550	226	89	89	39	186	96
12	280	49 - 52	745	640	240	101	95	46	194	130
13	360	54 - 58	785	660	275	114	108	54	230	180
14	425	60 - 68	970	835	300	127	121	60	250	275
15	460	72 - 76	1150	1000	355	146	133	76	270	440
16	625	81 - 86	1252	1100	375	159	140	79	300	510

In inch

number	minimum breaking load	diameter wire rope	length	length to center pin	width	width inside	dia-meter pin	thick-ness side plates	diameter eye	weight each
	t	inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	lbs
0.25	8	5/16	5 1/32	4 5/16	2	23/32	5/8	11/32	1 7/16	1.76
0.5	12	3/8	6 1/2	5 19/32	2 7/16	13/16	13/16	7/16	1 13/16	3.31
1	20	1/2	6 7/8	5 3/4	2 19/32	1	1	15/32	2 1/4	5.29
2	25	5/8	8 5/16	6 29/32	3 1/4	1 1/4	1 3/16	19/32	2 3/4	8.82
3	40	3/4	9 15/16	8 11/32	3 3/4	1 17/32	1 3/8	5/8	3 5/32	16.31
4	55	7/8	11 11/32	9 1/2	4 5/16	1 3/4	1 5/8	3/4	3 3/4	24.3
5	75	1	12 15/16	10 25/32	5 1/8	2	2	7/8	4 5/16	35.3
6	90	1 1/8	14 3/4	12 3/16	5 11/16	2 1/4	2 1/4	1	5 1/8	48.5
7	110	1 1/4	16 11/16	13 25/32	6 3/32	2 1/2	2 17/32	1 1/8	5 3/4	68.3
8	125	1 3/8	18 11/16	15 3/4	6 3/8	2 23/32	2 17/32	1 1/8	5 13/16	86.0
9	150	1 1/2	20 3/4	17 3/4	7	3	2 3/4	1 3/16	6	105.8
10	170	1 5/8	22 13/16	19 23/32	7 11/32	3	3	1 5/16	6 9/32	141.1
11	225	1 3/4 - 1 7/8	25 19/32	21 11/16	8 29/32	3 17/32	3 17/32	1 9/16	7 5/16	212
12	280	2	29 5/16	25 3/16	9 1/2	3 31/32	3 3/4	1 13/16	7 5/8	287
13	360	2 1/4	30 7/8	25 31/32	10 13/16	4 1/2	4 1/4	2 1/8	9 3/32	397
14	425	2 1/2	38 5/32	32 7/8	11 13/16	5	4 3/4	2 11/32	9 7/8	606
15	460	3	45 9/32	39 3/8	13 31/32	5 3/4	5 1/4	3	10 5/8	970
16	625	3 1/4 - 3 3/8	49 5/16	43 5/16	14 3/4	6 1/4	5 17/32	3 1/8	11 13/16	1124

CAD

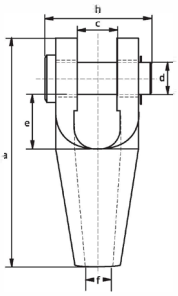
Wire Rope Sockets
Open Spelter

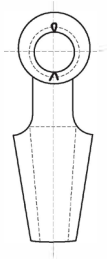
Green Pin®

Green Pin® sockets
open spelter socket



G-6412





- **Material** : high tensile steel
- **Finish** : hot dipped galvanized
- **Temperature Range** : -20°C up to +200°C
- **Certification** : 2.1 2.2 3.1

number	minimum breaking load	diameter wire rope	length	width	width inside	dia-meter pin	length inside	opening	weight each
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	kg
196	8	6 - 7	109	51	19	16	33	9	0.4
197	12	8 - 10	124	62	21	21	34	12	0.7
198	20	11 - 13	143	66	26	25	37	15	1
199	25	14 - 16	172	82	33	30	49	18	1.8
100	40	18 - 19	205	95	38	35	58	21	3
104	55	20 - 22	235	110	44	41	68	24	4.6
108	75	23 - 26	275	130	51	51	75	28	8
111	90	27 - 30	306	144	57	57	85	32	11
115	125	31 - 36	338	155	63	64	95	38	16
118	150	37 - 39	394	178	76	70	127	41	22
120	170	40 - 42	418	187	76	76	127	44	27
125	225	43 - 48	468	213	89	89	134	51	41
128	280	49 - 54	552	240	101	95	181	57	64
130	360	55 - 60	598	270	113	108	196	63	88
132	425	61 - 68	654	303	127	121	213	73	125
135	460	69 - 75	696	349	133	127	216	79	155
138	560	76 - 80	737	371	146	133	220	86	187
140	625	81 - 86	788	391	159	140	228	92	230
142	720	87 - 93	852	411	171	152	242	99	265
144	875	94 - 102	914	447	191	178	254	108	400
146	1200	108 - 115	1160	489	206	193	369	125	660
150	1300	120 - 130	1310	603	225	250	390	143	735

In inch

number	minimum breaking load	diameter wire rope	length	width	width inside	dia-meter pin	length inside	opening	weight each
	t	inch	a inch	b inch	c inch	d inch	e inch	f inch	lbs
196	8	1/4	4 9/32	2	3/4	5/8	1 5/16	11/32	0.88
197	12	3/8	4 7/8	2 7/16	13/16	13/16	1 11/32	15/32	1.54
198	20	7/16 - 1/2	5 5/8	2 19/32	1 1/32	1	1 1/2	19/32	2.20
199	25	9/16 - 5/8	6 3/4	3 1/4	1 5/16	1 3/16	1 15/16	23/32	3.97
100	40	3/4	8 3/32	3 3/4	1 17/32	1 3/8	2 9/32	13/16	6.61
104	55	7/8	9 9/32	4 5/16	1 3/4	1 5/8	2 11/16	15/16	10.14
108	75	1	10 13/16	5 1/8	2	2	2 15/16	1 1/8	17.64
111	90	1 1/8	12 1/32	5 11/16	2 1/4	2 1/4	3 11/32	1 9/32	24.3
115	125	1 1/4 - 1 3/8	13 5/16	6 3/32	2 1/2	2 17/32	3 3/4	1 17/32	35.3
118	150	1 1/2	15 17/32	7	3	2 3/4	5	1 5/8	48.5
120	170	1 5/8	16 1/2	7 11/32	3	3	5	1 3/4	59.5
125	225	1 3/4 - 1 7/8	18 7/16	8 3/8	3 17/32	3 17/32	5 9/32	2	90.4
128	280	2 - 2 1/8	21 3/4	9 1/2	3 31/32	3 3/4	7 1/8	2 1/4	141.1
130	360	2 1/4 - 2 3/8	23 9/16	10 5/8	4 7/16	4 1/4	7 23/32	2 1/2	194
132	425	2 1/2 - 2 5/8	25 3/4	11 15/16	5	4 3/4	8 3/8	2 7/8	276
135	460	2 3/4 - 2 7/8	27 3/8	13 3/4	5 1/4	5	8 17/32	3 1/8	342
138	560	3 - 3 1/8	29	14 19/32	5 3/4	5 1/4	8 11/16	3 3/8	412
140	625	3 1/4 - 3 3/8	31	15 3/8	6 1/4	5 17/32	9	3 5/8	507
142	720	3 1/2 - 3 5/8	33 9/16	16 3/16	6 23/32	5 31/32	9 9/16	3 29/32	584
144	875	3 3/4 - 4	35 31/32	17 5/8	7 17/32	7	10	4 1/4	882
146	1200	4 1/4 - 4 1/2	45 11/16	19 9/32	8 1/8	7 19/32	14 17/32	4 29/32	1455
150	1300	4 3/4 - 5	51 19/32	23 3/4	8 7/8	9 7/8	15 11/32	5 5/8	1620

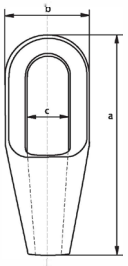
CAD

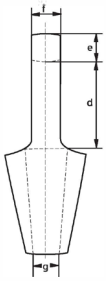
Wire Rope Sockets
Closed Spelter

GP Green Pin®



G-6411





Green Pin® sockets
closed spelter socket

- **Material** : high tensile steel
- **Finish** : hot dipped galvanized
- **Temperature Range** : -20°C up to +200°C
- **Certification** : 2.1 2.2 3.1

number	minimum breaking load	diameter wire rope	length	width	width inside bow	length inside bow	thickness bow	thickness bow	opening	weight each
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
296	8	6 - 7	101	37	22	40	11	13	9	0.3
297	12	8 - 10	119	43	25	48	14	17.5	12	0.5
298	20	11 - 13	140	52	30	58	18	23.5	15	0.75
299	25	14 - 16	162	68	37	66	21	26	17.5	1.5
200	40	18 - 19	194	76	42	78	27	32	21.5	2.1
201	55	20 - 22	224	92	47	90	33	38	24	3.6
204	75	23 - 26	253	104	57	103	36	44	28	5.8
207	90	27 - 30	282	114	63	116	39	51	32	7
212	125	31 - 36	312	127	70	130	43	57	38	10.5
215	150	37 - 39	358	136	79	155	51	63	41	13
217	170	40 - 42	390	146	83	171	54	70	44	17
219	225	43 - 48	443	171	93	198	55	76	51	26
222	280	49 - 54	502	193	100	224	62	82	57	37.5
224	360	55 - 60	548	216	112	247	73	92	63	50
226	425	61 - 68	597	241	140	270	79	102	73	65
227	460	69 - 75	644	273	159	286	79	124	79	94
228	560	76 - 80	686	292	171	298	83	133	86	115
229	625	81 - 86	743	311	184	311	102	146	92	145
230	720	87 - 93	788	330	197	330	102	159	99	168
231	875	94 - 102	845	362	216	356	108	178	108	210
233	1200	108 - 115	1000	405	235	425	125	190	125	330
240	1300	120 - 130	1150	450	260	525	125	200	143	500

In inch

number	minimum breaking load	diameter wire rope	length	width	width inside bow	length inside bow	thickness bow	thickness bow	opening	weight each
	t	inch	a inch	b inch	c inch	d inch	e inch	f inch	g inch	kg
296	8	1/4	3 31/32	1 1/2	7/8	1 19/32	7/16	1/2	11/32	0.66
297	12	3/8	4 11/16	1 23/32	1	1 29/32	9/16	11/16	15/32	1.10
298	20	7/16 - 1/2	5 17/32	2 1/32	1 3/16	2 9/32	23/32	15/16	19/32	1.54
299	25	9/16 - 5/8	6 11/32	2 11/16	1 1/2	2 19/32	13/16	1 1/32	11/16	3.31
200	40	3/4	7 5/8	3	1 11/16	3 3/32	1 3/32	1 9/32	27/32	4.63
201	55	7/8	8 13/16	3 5/8	1 7/8	3 9/16	1 5/16	1 17/32	15/16	7.94
204	75	1	9 31/32	4 3/32	2 1/4	4 1/32	1 7/16	1 3/4	1 1/8	12.79
207	90	1 1/8	11 1/8	4 1/2	2 1/2	4 9/16	1 9/16	2	1 9/32	15.43
212	125	1 1/4 - 1 3/8	12 9/32	5	2 3/4	5 1/8	1 23/32	2 1/4	1 17/32	23.1
215	150	1 1/2	14 3/32	5 11/32	3 1/8	6 3/32	2	2 1/2	1 5/8	28.7
217	170	1 5/8	15 11/32	5 3/4	3 9/32	6 23/32	2 1/8	2 3/4	1 3/4	37.5
219	225	1 3/4 - 1 7/8	17 1/2	6 23/32	3 11/16	7 25/32	2 5/32	3	2	57.3
222	280	2 - 2 1/8	19 25/32	7 19/32	3 15/16	8 13/16	2 7/16	3 1/4	2 1/4	82.7
224	360	2 1/4 - 2 3/8	21 19/32	8 17/32	4 3/8	9 3/4	2 7/8	3 5/8	2 1/2	110.2
226	425	2 1/2 - 2 5/8	23 17/32	9 17/32	5 17/32	10 5/8	3 1/8	4	2 7/8	143.3
227	460	2 3/4 - 2 7/8	25 11/32	10 3/4	6 1/4	11 9/32	3 1/8	4 7/8	3 1/8	207.2
228	560	3 - 3 1/8	27	11 17/32	6 23/32	11 3/4	3 9/32	5 1/4	3 3/8	254
229	625	3 1/4 - 3 3/8	29 1/4	12 1/4	7 1/4	12 1/4	4	5 3/4	3 5/8	320
230	720	3 1/2 - 3 5/8	31	13	7 3/4	13	4	6 1/4	3 29/32	370
231	875	3 3/4 - 4	33 9/32	14 1/4	8 17/32	14	4 1/4	7	4 1/4	463
233	1200	4 1/4 - 4 1/2	39 3/8	15 15/16	9 9/32	16 3/4	4 29/32	7 1/2	4 29/32	728
240	1300	4 3/4 - 5	45 9/32	17 3/4	10 1/4	20 11/16	4 29/32	7 7/8	5 5/8	1102

CAD

Turnbuckles
Instructions



Applications

Turnbuckles are used for rigging or tensioning wires, ropes, rods etc. They are designed for in-line rigging, tensioning or lashing.

Range

Van Beest offers a wide range of turnbuckles:
- Load rated Green Pin® turnbuckles;
- Open body rigging screws generally to DIN 1480;
- Rigging screws with welding ends;
- Closed body rigging screws;
- Special turnbuckles for lashing (hamburgers).

Design

Green Pin® turnbuckles are manufactured to ASTM F1145-92, formerly U.S. Fed. Spec. FF-T-791.
Green Pin® turnbuckles are drop forged.

Green Pin® turnbuckles are available with following end fittings: eye/eye, hook/hook, hook/eye, jaw/jaw and jaw/eye. All fittings are interchangeable. Locking nuts are supplied with all sizes.

Green Pin® turnbuckles are generally marked with:

- Working Load Limit	■ e.g. 2.36 t
- manufacturer's symbol	■ e.g. GP
- thread diameter	■ e.g. 3/4"
- traceability code	■ e.g. A1
- thread	■ L (lefthanded) and R (righthanded)

Rigging screws generally to DIN 1480 are available with welding ends and in hook/eye, eye/eye, hook/hook and jaw/jaw combinations.

Closed body rigging screws are available in jaw/jaw, jaw/eye and eye/eye combinations.

Finish

Load rated Green Pin® turnbuckles and closed body rigging screws are hot dipped galvanized. Rigging screws to DIN 1480 are electro-galvanized. Lashing turnbuckles are self coloured.

Certification

Specific details of certificate availability can be found on each product page.
Please verify your certification requirements with Van Beest at time of order.

Instructions for use

Turnbuckles must be used for in-line applications only.
Special attention should be paid to prevent overloading.
During tensioning, avoid forces on the turnbuckle that may lead to deformation. Should a turnbuckle start to deform, the tension should be decreased immediately and any deformed parts should be replaced. Should extreme circumstances or shock loading, possibly occur during use, this must be taken into account when selecting the correct products to be used for the application.

For the rigging of wires, ropes, rods etc., Green Pin® turnbuckles are recommended to be used.
The WLL should be applied in in-line lifting only and overloading is not permitted.
Nor should side loads be applied, as the products have not been designed for this purpose.

Open body rigging screws are used for tensioning wires and ropes for less demanding applications (for example rope railings).

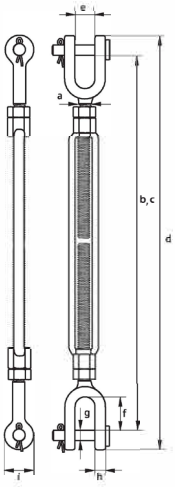
Turnbuckles must be regularly inspected in accordance with the safety standards given in the country of use. This is required because the products in use may be affected by wear, misuse, overloading etc. which may lead to deformation and alteration of the steel structure.

Turnbuckles
Jaw-Jaw

Green Pin®



G-6313



Green Pin® turnbuckles Jaw - Jaw with cotter pin
generally to ASTM F1145-92

mm inch

- **Material** : drop forged high tensile steel SAE 1035 or 1045
- **Safety factor** : MBL equals 5 x WLL
- **Standard** : generally to ASTM F1145-92 formerly U.S. Federal Specification FF-T-791b
- **Finish** : hot dipped galvanized
- **Certification** : 2.1 2.2 3.1

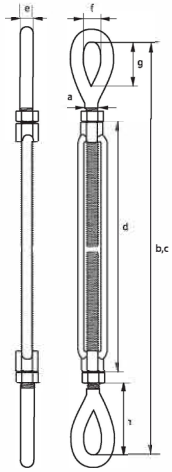
working load limit	diameter thread	take up	length closed position	length open position	length closed position	opening jaw	length inside	diameter pin	thickness jaw eye	diameter jaw eye	weight each
	a		b	c	d	e	f	g	h	i	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
2.36	3/4	6	14 17/32	19 3/16	17 5/16	15/16	1 17/32	5/8	5/8	1 5/8	5.71
2.36	3/4	9	17 17/32	25 3/16	20 1/4	15/16	1 17/32	5/8	5/8	1 5/8	6.90
2.36	3/4	12	20 1/2	31 5/32	23 1/4	15/16	1 17/32	5/8	5/8	1 5/8	7.54
2.36	3/4	18	26 11/32	43 5/32	29 1/8	15/16	1 17/32	5/8	5/8	1 5/8	9.94
3.27	7/8	12	22 3/32	32 17/32	25 1/8	1 3/32	1 11/16	3/4	3/4	1 29/32	10.87
3.27	7/8	18	28 1/32	44 9/16	31 3/32	1 3/32	1 11/16	3/4	3/4	1 29/32	14.13
4.54	1	6	17 5/8	21 13/16	20 15/16	1 1/4	1 31/32	7/8	25/32	2 1/8	11.42
4.54	1	12	23 9/16	33 13/16	26 7/8	1 1/4	1 31/32	7/8	25/32	2 1/8	14.18
4.54	1	18	29 17/32	46	32 7/8	1 1/4	1 31/32	7/8	25/32	2 1/8	18.52
4.5	1	24	35 9/16	57 7/8	38 29/32	1 1/4	1 31/32	7/8	25/32	2 1/8	19.62
6.9	1 1/4	12	25 1/4	35 31/32	29 7/16	1 3/4	2 25/32	1 5/32	1 1/32	2 11/16	24.7
6.9	1 1/4	18	31 5/8	48 11/32	35 13/16	1 3/4	2 25/32	1 5/32	1 1/32	2 11/16	30.0
6.9	1 1/4	24	37 7/8	60 19/32	42 3/32	1 3/4	2 25/32	1 5/32	1 1/32	2 11/16	33.1
9.71	1 1/2	12	26 9/16	37 3/32	31 3/4	2 1/32	2 25/32	1 3/8	1 1/8	3 5/32	37.5
9.71	1 1/2	18	32 1/2	48 31/32	37 5/8	2 1/32	2 25/32	1 3/8	1 1/8	3 5/32	42.5
9.71	1 1/2	24	38 19/32	61 1/16	43 3/4	2 1/32	2 25/32	1 3/8	1 1/8	3 5/32	45.6
12.7	1 3/4	18	36 29/32	51 13/16	43	2 11/32	3 3/8	1 5/8	1 5/16	3 9/16	55.1
12.7	1 3/4	24	42 7/8	63 13/16	48 15/16	2 11/32	3 3/8	1 5/8	1 5/16	3 9/16	63.3
16.8	2	24	45 5/16	65 25/32	52 11/16	2 1/2	3 11/16	2	1 19/32	4 3/16	100.1
27.2	2 1/2	24	49 13/32	72 3/32	58 9/32	2 15/16	4 1/2	2 1/4	1 5/8	5 5/8	194.0
34	2 3/4	24	53 3/32	74 3/32	63 5/32	3 9/16	4 5/16	2 3/4	1 5/8	6 3/16	216.1

CAD

Turnbuckles
Eye-Eye



G-6311



Green Pin® turnbuckles Eye - Eye
generally to ASTM F1145-92

mm inch

- **Material** : drop forged high tensile steel SAE 1035 or 1045
- **Safety factor** : MBL equals 5 x WLL
- **Standard** : generally to ASTM F1145-92
  formerly U.S. Federal Specification FF-T-791b
- **Finish** : hot dipped galvanized
- **Certification** : 2.1 2.2 3.1

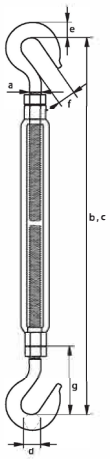
working load limit	diameter thread	take up	length closed position	length open position	length	diameter	width inside	length inside	length closed position	weight each
	a		b	c	d	e	f	g	h	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
0.54	3/8	6	11 17/32	16 7/8	7 3/16	13/32	1/2	1 5/32	1 15/16	1.06
1	1/2	6	12 25/32	17 15/16	7 19/32	15/32	23/32	1 7/16	2 9/32	1.79
1	1/2	9	15 3/4	23 15/16	10 5/8	15/32	23/32	1 7/16	2 1/4	2.36
1	1/2	12	18 3/4	29 29/32	13 5/8	15/32	23/32	1 7/16	2 1/4	2.84
1.59	5/8	6	14 15/16	19 13/16	8	9/16	13/16	1 25/32	3 1/8	2.93
1.59	5/8	9	17 15/16	25 13/16	11 1/32	9/16	13/16	1 25/32	3 3/32	3.55
1.59	5/8	12	20 29/32	31 13/16	14	9/16	13/16	1 25/32	3 3/32	4.32
2.36	3/4	6	16 9/32	20 15/16	8 7/16	11/16	1 1/32	2 1/8	3 17/32	4.48
2.36	3/4	9	19 5/16	26 15/16	11 1/2	11/16	1 1/32	2 1/8	3 17/32	5.45
2.36	3/4	12	22 3/16	32 15/16	14 7/16	11/16	1 1/32	2 1/8	3 1/2	6.39
2.36	3/4	18	28 1/4	45	20 7/16	11/16	1 1/32	2 1/8	3 17/32	8.69
3.27	7/8	12	23 25/32	34 1/4	14 13/16	25/32	1 9/32	2 3/8	3 31/32	9.5
3.27	7/8	18	29 3/4	46 7/32	20 13/16	25/32	1 9/32	2 3/8	3 31/32	12.15
4.54	1	6	19 5/8	23 25/32	9 1/4	15/16	1 1/2	3	4 5/8	9.59
4.54	1	12	25 9/16	35 25/32	15 1/4	15/16	1 1/2	3	4 19/32	12.68
4.54	1	18	31 17/32	47 27/32	21 1/4	15/16	1 1/2	3	4 19/32	16.03
4.5	1	24	37 1/2	59 25/32	27 1/4	15/16	1 1/2	3	4 9/16	16.58
6.9	1 1/4	12	28	38 25/32	15 5/32	1 5/32	1 7/8	3 19/32	5 23/32	20.46
6.9	1 1/4	18	33 15/16	50 11/16	21 5/32	1 5/32	1 7/8	3 19/32	5 11/16	24.5
6.9	1 1/4	24	39 31/32	60 7/32	27 5/32	1 5/32	1 7/8	3 19/32	5 11/16	26.7
9.71	1 1/2	12	29 3/4	40 9/32	15 25/32	1 9/32	2 5/32	4 5/32	6 1/8	31.3
9.71	1 1/2	18	36 1/32	52 9/16	21 25/32	1 9/32	2 5/32	4 5/32	6 9/32	34.8
9.71	1 1/2	24	41 15/16	64 13/32	27 25/32	1 9/32	2 5/32	4 5/32	6 3/16	37.7
12.7	1 3/4	18	40 5/32	54 15/16	22 23/32	1 17/32	2 3/8	4 23/32	7 3/4	51
12.7	1 3/4	24	46 1/8	67 1/16	28 23/32	1 17/32	2 3/8	4 23/32	7 23/32	58
16.8	2	24	49 25/32	70 1/4	29 7/16	1 13/16	2 23/32	5 25/32	9 3/32	89.7
27.2	2 1/2	24	56 5/16	76 5/32	31 9/16	2	3 5/32	6 1/2	10 25/32	141
34	2 3/4	24	57 3/32	78 9/32	31 9/16	2 1/4	3 5/16	7	11 3/16	194

CAD

Turnbuckles
Hook-Hook



G-6312



Green Pin® turnbuckles Hook - Hook
generally to ASTM F1145-92

mm inch

- **Material** : drop forged high tensile steel SAE 1035 or 1045
- **Safety factor** : MBL equals 5 x WLL
- **Standard** : generally to ASTM F1145-92 formerly U.S. Federal Specification FF-T-791b
- **Finish** : hot dipped galvanized
- **Certification** : 2.1 2.2 3.1

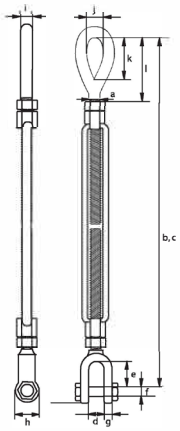
working load limit	diameter thread	take up	length closed position	length open position	thickness hook	thickness hook	opening hook	length closed position	weight each
	a		b	c	d	e	f	g	
t	inch	inch	inch	inch	inch	inch	inch	inch	lbs
0.54	3/8	6	10 15/16	16 11/32	1/2	5/8	19/32	1 11/16	1.17
1	1/2	6	12	17 1/8	5/8	7/8	5/8	1 29/32	2.05
1	1/2	9	14 15/16	23 1/8	5/8	7/8	5/8	1 7/8	2.56
0.68	1/2	12	17 31/32	29 3/32	1/2	3/4	5/8	1 7/8	2.95
1.02	5/8	6	14	18 7/8	5/8	29/32	13/16	2 5/8	2.16
1.59	5/8	9	17	24 7/8	25/32	15/16	13/16	2 19/32	4.32
1.02	5/8	12	19 31/32	30 13/16	5/8	29/32	13/16	2 19/32	3.77
2.36	3/4	6	15 1/2	20 1/8	7/8	1 3/32	15/16	3 1/8	3.37
1.36	3/4	9	18 7/16	26 1/8	25/32	1 3/32	15/16	3 3/32	4.14
2.36	3/4	12	21 7/16	32 1/8	7/8	1 3/32	15/16	3 3/32	7.21
2.36	3/4	18	27 3/8	44 3/8	7/8	1 3/32	15/16	3 3/32	9.92
2.27	1	6	18 7/8	23 3/32	1 1/32	1 3/8	1 1/4	4 9/32	8.53
4.54	1	12	24 19/32	34 7/8	1 1/32	1 3/8	1 1/4	4 5/32	14.64
2.27	1	18	30 19/32	46 29/32	1 1/32	1 3/8	1 1/4	4 5/32	13.23
2.27	1	24	36 17/32	58 3/4	1 1/32	1 3/8	1 1/4	4 1/8	16.58

CAD

Turnbuckles
Eye-Jaw



G-6315



Green Pin® turnbuckles Eye - Jaw
generally to ASTM F1145-92

mm inch

- **Material** : drop forged high tensile steel SAE 1035 or 1045
- **Safety factor** : MBL equals 5 x WLL
- **Standard** : generally to ASTM F1145-92 formerly U.S. Federal Specification FF-T-791b
- **Finish** : hot dipped galvanized
- **Certification** : 2.1 2.2 3.1
- **Note** : jaw ends up to and including 5/8" are fitted with bolts and nuts, sizes 3/4" and up are equipped with pins and cotters.

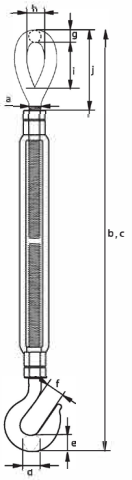
working load limit	diameter thread	take up	length closed position	length open position	opening jaw	length inside jaw	diameter pin jaw	thickness eye jaw	diameter eye jaw	diameter eye	width inside eye	length inside eye	length closed position	weight each
	a		b	c	d	e	f	g	h	i	j	k	l	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
0.54	3/8	6	11 5/32	16 1/2	15/32	13/16	5/16	11/32	13/16	13/32	1/2	1 5/32	1 15/16	1.15
1	1/2	6	12 3/8	17 19/32	5/8	1 1/32	13/32	7/16	1	15/32	23/32	1 7/16	2 9/32	1.94
1	1/2	9	15 11/32	23 9/16	5/8	1 1/32	13/32	7/16	1	15/32	23/32	1 7/16	2 1/4	2.49
1	1/2	12	18 11/32	29 9/16	5/8	1 1/32	13/32	7/16	1	15/32	23/32	1 7/16	2 1/4	3.02
1.59	5/8	6	14 9/32	19 5/32	23/32	1 9/32	1/2	9/16	1 5/16	9/16	13/16	1 25/32	3 1/8	3.42
1.59	5/8	9	17 9/32	25 5/32	23/32	1 9/32	1/2	9/16	1 5/16	9/16	13/16	1 25/32	3 3/32	4.06
1.59	5/8	12	20 1/4	31 5/32	23/32	1 9/32	1/2	9/16	1 5/16	9/16	13/16	1 25/32	3 3/32	4.78
2.36	3/4	6	15 3/8	20 3/32	15/16	1 17/32	5/8	5/8	1 5/8	11/16	1 1/32	2 1/8	3 17/32	5.03
2.36	3/4	9	18 3/8	26 3/32	15/16	1 17/32	5/8	5/8	1 5/8	11/16	1 1/32	2 1/8	3 17/32	6.22
2.36	3/4	12	21 11/32	32 3/32	15/16	1 17/32	5/8	5/8	1 5/8	11/16	1 1/32	2 1/8	3 1/2	6.5
2.36	3/4	18	27 5/16	44 3/32	15/16	1 17/32	5/8	5/8	1 5/8	11/16	1 1/32	2 1/8	3 17/32	7.28
3.27	7/8	12	22 15/16	33 3/8	1 3/32	1 11/16	3/4	3/4	1 29/32	25/32	1 9/32	2 3/8	3 31/32	9.59
3.27	7/8	18	28 29/32	45 13/32	1 3/32	1 11/16	3/4	3/4	1 29/32	25/32	1 9/32	2 3/8	3 31/32	12.04
4.54	1	6	18 5/8	22 25/32	1 1/4	1 31/32	7/8	25/32	2 1/8	15/16	1 1/2	3	4 5/8	10.27
4.54	1	12	24 9/16	34 25/32	1 1/4	1 31/32	7/8	25/32	2 1/8	15/16	1 1/2	3	4 19/32	13.1
4.54	1	18	30 17/32	46 27/32	1 1/4	1 31/32	7/8	25/32	2 1/8	15/16	1 1/2	3	4 19/32	17.59
4.5	1	24	36 17/32	58 13/16	1 1/4	1 31/32	7/8	25/32	2 1/8	15/16	1 1/2	3	4 9/16	18.41
6.9	1 1/4	12	26 5/8	37 3/8	1 3/4	2 25/32	1 5/32	1 1/32	2 11/16	1 5/32	1 7/8	3 19/32	5 23/32	22.9
6.9	1 1/4	18	32 25/32	49 17/32	1 3/4	2 25/32	1 5/32	1 1/32	2 11/16	1 5/32	1 7/8	3 19/32	5 11/16	24.3
6.9	1 1/4	24	38 15/16	61 21/32	1 3/4	2 25/32	1 5/32	1 1/32	2 11/16	1 5/32	1 7/8	3 19/32	5 11/16	28.4
9.71	1 1/2	12	28 5/32	38 23/32	2 1/32	2 25/32	1 3/8	1 1/8	3 5/32	1 9/32	2 5/32	4 5/32	6 1/8	28.9
9.71	1 1/2	18	34 9/32	50 25/32	2 1/32	2 25/32	1 3/8	1 1/8	3 5/32	1 9/32	2 5/32	4 5/32	6 9/32	32.4
9.71	1 1/2	24	40 9/32	60 3/4	2 1/32	2 25/32	1 3/8	1 1/8	3 5/32	1 9/32	2 5/32	4 5/32	6 3/16	39.2
12.7	1 3/4	18	38 9/16	53 13/32	2 11/32	3 3/8	1 5/8	1 5/16	3 9/16	1 17/32	2 3/8	4 23/32	7 3/4	49.2
12.7	1 3/4	24	44 1/2	65 7/16	2 11/32	3 3/8	1 5/8	1 5/16	3 9/16	1 17/32	2 3/8	4 23/32	7 23/32	60.6
16.8	2	24	47 9/16	68 1/32	2 1/2	3 11/16	2	1 19/32	4 3/16	1 13/16	2 23/32	5 25/32	9 3/32	94.6
27.2	2 1/2	24	52 7/8	74 25/32	2 15/16	4 1/2	2 1/4	1 5/8	5 5/8	2	3 5/32	6 1/2	10 25/32	150
34	2 3/4	24	55 3/32	76 29/32	3 9/16	4 5/16	2 3/4	1 5/8	6 3/16	2 1/4	3 5/16	7	11 3/16	200

CAD

Turnbuckles
Eye-Hook



G-6314



Green Pin® turnbuckles Eye - Hook
generally to ASTM F1145-92

- **Material** : drop forged high tensile steel SAE 1035 or 1045
- **Safety factor** : MBL equals 5 x WLL
- **Standard** : generally to ASTM F1145-92 formerly U.S. Federal Specification FF-T-791b
- **Finish** : hot dipped galvanized
- **Certification** : 2.1 2.2 3.1

working load limit	diameter thread	take up	length closed position	length open position	thickness hook	thickness hook	opening hook	diameter eye	width inside eye	length inside eye	length closed position	weight each
	a		b	c	d	e	f	g	h	i	j	
t	inch	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
0.54	3/8	6	285	422	13	16	15	10	13	29	49	0.47
1	1/2	6	315	445	16	22	16	12	18	36	58	0.82
1	1/2	9	390	598	16	22	16	12	18	36	57	1.06
0.68	1/2	12	466	750	13	19	16	12	18	36	57	1.28
1.02	5/8	6	368	491	16	23	21	14	21	45	79	1.31
1.59	5/8	9	443	644	20	24	21	14	21	45	78	1.56
1.02	5/8	12	519	796	16	23	21	14	21	45	78	1.71
2.36	3/4	6	403	521	22	27	24	17	26	54	89	2.04
1.36	3/4	9	479	675	20	27	24	17	26	54	89	4.49
2.36	3/4	12	554	827	22	27	24	17	26	54	88	2.3
2.36	3/4	18	707	1133	22	27	24	17	26	54	89	2.85
2.27	1	6	488	595	26	35	31	24	36	75	118	3.87
4.54	1	12	636	897	26	35	31	24	36	75	117	5.09
2.27	1	18	789	1202	26	35	31	24	36	75	117	6
2.27	1	24	939	1506	26	35	31	24	36	75	116	7.52

In inch

working load limit	diameter thread	take up	length closed position	length open position	thickness hook	thickness hook	opening hook	diameter eye	width inside eye	length inside eye	length closed position	weight each
	a		b	c	d	e	f	g	h	i	j	
t	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs
0.54	3/8	6	11 1/4	16 5/8	1/2	5/8	19/32	13/32	1/2	1 5/32	1 15/16	1.04
1	1/2	6	12 3/8	17 9/16	5/8	7/8	5/8	15/32	23/32	1 7/16	2 9/32	1.81
1	1/2	9	15 11/32	23 9/16	5/8	7/8	5/8	15/32	23/32	1 7/16	2 1/4	2.34
0.68	1/2	12	18 11/32	29 17/32	1/2	3/4	5/8	15/32	23/32	1 7/16	2 1/4	2.82
1.02	5/8	6	14 1/2	19 11/32	5/8	29/32	13/16	9/16	13/16	1 25/32	3 1/8	2.89
1.59	5/8	9	17 1/2	25 11/32	25/32	15/16	13/16	9/16	13/16	1 25/32	3 3/32	3.44
1.02	5/8	12	20 7/16	31 5/16	5/8	29/32	13/16	9/16	13/16	1 25/32	3 3/32	3.77
2.36	3/4	6	15 7/8	20 17/32	7/8	1 3/32	15/16	11/16	1 1/32	2 1/8	3 17/32	4.5
1.36	3/4	9	18 7/8	26 9/16	25/32	1 3/32	15/16	11/16	1 1/32	2 1/8	3 17/32	9.9
2.36	3/4	12	21 13/16	32 9/16	7/8	1 3/32	15/16	11/16	1 1/32	2 1/8	3 1/2	5.07
2.36	3/4	18	27 13/16	44 5/8	7/8	1 3/32	15/16	11/16	1 1/32	2 1/8	3 17/32	6.28
2.27	1	6	19 1/4	23 7/16	1 1/32	1 3/8	1 1/4	15/16	1 7/16	2 15/16	4 5/8	8.53
4.54	1	12	25 1/32	35 5/16	1 1/32	1 3/8	1 1/4	15/16	1 7/16	2 15/16	4 19/32	11.22
2.27	1	18	31 1/32	47 5/16	1 1/32	1 3/8	1 1/4	15/16	1 7/16	2 15/16	4 19/32	13.23
2.27	1	24	36 15/16	59 5/16	1 1/32	1 3/8	1 1/4	15/16	1 7/16	2 15/16	4 9/16	16.58

CAD

Snatch Blocks
2 Ton-8 Ton

YOKE®
Safety is our first priority™

8-501 / Light Snatch Block With Shackle
Yellow Snatch Block(YSB)



Figure 1



Figure 2

Specification

Item No.	Sheave Dia.	Bearing Type	Wire Rope Size	Working Load Limit	N.W.		Replacement Sheave
	inch		mm	t*	lbs	kg	
8-501-02	3	BB	8-10	2	4	2	8-500-02
8-501-04	4.5	BB	10-13	4	13	6	8-500-04
8-501-08	6	BB	16-19	8	29	13	8-500-08
8-501-0808	8	BB	16-19	8	44	20	8-500-0808
8-501-0810	10	BB	16-19	8	46	21	8-500-0810
8-501-0812-16	12	BB	16	8	49	22	8-500-0812-16
8-501-0812-19	12	BB	19	8	49	22	8-500-0812-19
8-501-0814-16	14	BB	16	8	56	25	8-500-0814-16
8-501-0814-19	14	BB	19	8	56	25	8-500-0814-19

*Minimum Ultimate Load is 4 times the W orking Load Limit.
★8-501-02/-04 see Figure 1.
★8-501-08/-0814 see Figure 2.

8-502 / Light Snatch Block With Hook
Yellow Snatch Block(YSB)





✓Sheave by Closed Die Forged Steel

Specification

Item No.	Sheave Dia.	Bearing Type	Wire Rope Size	Working Load Limit	N.W.		Replacement Sheave
	inch		mm	t*	lbs	kg	
8-502-02	3	BB	8-10	2	7	3	8-500-02
8-502-04	4.5	BB	10-13	4	13	6	8-500-04
8-502-08	6	BB	16-19	8	29	13	8-500-08
8-502-0808	8	BB	16-19	8	42	19	8-500-0808
8-502-0810	10	BB	16-19	8	45	21	8-500-0810
8-502-0812-16	12	BB	16	8	48	22	8-500-0812-16
8-502-0812-19	12	BB	19	8	48	22	8-500-0812-19
8-502-0814-16	14	BB	16	8	55	25	8-500-0814-16
8-502-0814-19	14	BB	19	8	55	25	8-500-0814-19

*Minimum Ultimate Load is 4 times the W orking Load Limit.

•YOKE Light Snatch Blocks are manufactured of the highest quality tensile steel. •Available from 2 tonnes to 8 tonnes, for wire rope sizes 8mm to 19mm. •Part number, wire rope size and working load limit are marked on each block. •Permanent batch codes link to test certificates for easy traceability.
•Supplied with bronze bushings and 4.5”-14” with pressure lube fittings. •Meets or exceeds all requirements of ASME B30.26.
•Safety factor 4:1 •Fatigue rated

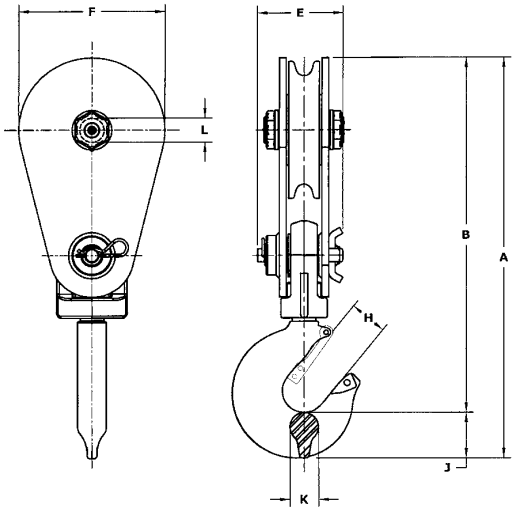
Sheaves
Snatch Blocks

MADE IN USA

GUNNEBO JOHNSON CORPORATION

One Sheave Snatch Block with Hook

2 through 30-ton capacities
4 to 1 design factor
3 through 24-inch diameters





Key to one Sheave Snatch Block with hook model numbers

SB	4	S	4	B	H
Single Shv. Snatch Block	Working Load Limits (Metric Tons)	No. of Shvs: S = 1	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bushed R = Roller Bearing	Type of Fitting: H = Hook

To order, please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

J-Latches are standard equipment

2-Ton 1-Sheave Snatch Blocks, with Hook, 3 inches

Model No.	Standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening With Latch	J Hook Thickness	K Hook Width	L Center Pin Dia.
SB2S3BH	5/16 – 3/8	5	10.48	9.48	2.72	3.20	1.03	1.00	0.75	0.75

4-Ton 1-Sheave Snatch Blocks, with Hook, 4-1/2 - 14 inches

SB4S4BH	3/8 – 1/2	15	14.79	12.94	3.63	4.76	1.28	1.85	1.13	1
SB4S6BH	3/8 – 1/2	19	16.97	15.12	3.63	6.26	1.28	1.85	1.13	1
SB4S8BH	3/8 – 1/2	25	18.97	17.12	3.63	8.26	1.28	1.85	1.13	1
SB4S10BH	3/8 – 1/2	33	21.03	19.18	3.63	10.26	1.28	1.85	1.13	1.25
SB4S12BH	3/8 – 1/2	40	23.03	21.18	3.63	12.26	1.28	1.85	1.13	1.25
SB4S14BH	3/8 – 1/2	50	25.03	23.18	3.63	14.26	1.28	1.85	1.13	1.25

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Sheaves
Snatch Blocks

MADE IN USA

GUNNEBO JOHNSON CORPORATION

8-Ton1-Sheave Snatch Blocks, with Hook, 6-14 inches

Model No.	Standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Opening	J Hook Thickness	K Hook Width	L Center Pin Dia.
SB8S6BH	5/8 – 3/4	27	19.08	17.02	4.02	6.24	1.53	2.06	1.38	1.5
SB8S8BH	5/8 – 3/4	35	21.08	19.02	4.02	8.24	1.53	2.06	1.38	1.5
SB8S10BH	5/8 – 3/4	41	23.08	21.02	4.02	10.24	1.53	2.06	1.38	1.5
SB8S12BH	5/8 – 3/4	53	25.11	23.05	4.02	12.18	1.53	2.06	1.38	1.5
SB8S14BH	5/8 – 3/4	64	27.11	25.05	4.02	14.18	1.53	2.06	1.38	1.5

12-Ton1-Sheave Snatch Blocks, with Hook, 6-16 inches

SB12S6BH	3/4 – 7/8	46	21.44	18.87	4.85	6.68	1.75	2.57	1.63	2
SB12S8BH	3/4 – 7/8	57	23	20.43	4.85	8.24	1.75	2.57	1.63	2
SB12S10BH	3/4 – 7/8	70	25	22.43	4.85	10.24	1.75	2.57	1.63	2
SB12S12BH	3/4 – 7/8	91	27	24.43	4.85	12.24	1.75	2.57	1.63	2
SB12S14BH	3/4 – 7/8	104	29	26.43	4.85	14.24	1.75	2.57	1.63	2
SB12S16BH	3/4 – 7/8	125	31.16	28.59	4.85	16.36	1.75	2.57	1.63	2

15-Ton 1-Sheave Snatch Blocks, with Hook, 8-16 inches

SB15S8BH	3/4 – 7/8	64	23.66	20.91	4.85	8.24	2.09	2.75	1.94	2.5
SB15S10BH	3/4 – 7/8	77	25.66	22.91	4.85	10.24	2.09	2.75	1.94	2.5
SB15S12BH	3/4 – 7/8	97	27.66	24.91	4.85	12.24	2.09	2.75	1.94	2.5
SB15S14BH	3/4 – 7/8	108	29.66	26.91	4.85	14.24	2.09	2.75	1.94	2.5
SB15S16BH	3/4 – 7/8	136	31.82	29.07	4.85	16.36	2.09	2.75	1.94	2.5

20-Ton 1-Sheave Snatch Blocks, with Hook, 8-18 inches

SB20S8BH	1 – 1 1/8	81	26.15	23.27	5.83	8.24	2.04	2.88	2.25	2.25
SB20S10BH	1 – 1 1/8	95	28.15	25.27	5.83	10.24	2.04	2.88	2.25	2.25
SB20S12BH	1 – 1 1/8	105	30.15	27.27	5.83	12.24	2.04	2.88	2.25	2.25
SB20S14BH	1 – 1 1/8	117	32.15	29.27	5.83	14.24	2.04	2.88	2.25	2.25
SB20S16BH	1 – 1 1/8	148	34.15	31.27	5.83	16.24	2.04	2.88	2.25	2.25
SB20S18BH	1 – 1 1/8	172	36.15	33.27	5.83	18.24	2.04	2.88	2.25	3

30-Ton 1-Sheave Snatch Blocks, with Hook, 20-24 inches

SB30S20BH	1 1/8 – 1 1/4	299	44.36	41.37	5.8	20.24	2.9	2.99	3.5	3.5
SB30S24BH	1 1/8 – 1 1/4	373	48.36	45.37	5.8	24.24	2.9	2.99	3.5	3.5

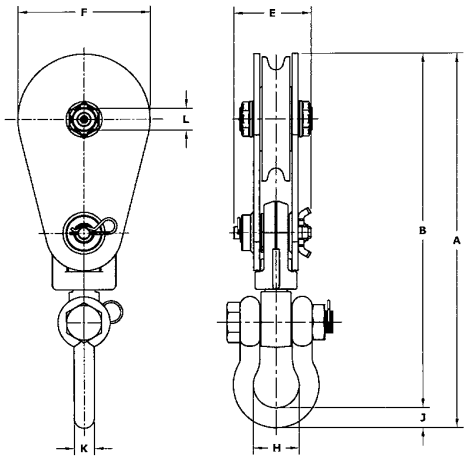
One Sheave Snatch Block with Hook

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Sheaves
Snatch Blocks

MADE IN USA

GUNNEBO JOHNSON CORPORATION





Key to one Snatch Block model numbers

SB	4	S	4	B	E
Single Shv. Snatch Block	Working Load Limit (Metric Tons)	No. of Sheaves: S = 1	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bushed, R = Roller Bearing	Type of Fitting: S = Shackle

To order, please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

2-Ton 1-Sheave Snatch Blocks, with Shackle, 3 inches

Model no.	Standard Wire Rope Size	Wt.	a Overall Length	b Net Length	e Thickness	f Width	h Width at Bow	j Shackle Thickness	k Shackle Width	l Center Pin Dia.
SB2S3BS	5/16–3/8	5	9.90	9.40	2.72	3.20	1.25	0.50	0.44	0.75

4-Ton 1-Sheave Snatch Blocks, with Shackle, 4-1/2 - 14 inches

SB4S4BS	3/8 - 1/2	16	14.68	13.80	3.63	4.76	2.00	0.88	0.88	1.00
SB4S6BS	3/8 - 1/2	21	16.86	15.98	3.63	6.26	2.00	0.88	0.88	1.00
SB4S8BS	3/8 - 1/2	26	18.86	17.98	3.63	8.26	2.00	0.88	0.88	1.00
SB4S10BS	3/8 - 1/2	35	20.92	20.04	3.63	10.26	2.00	0.88	0.88	1.25
SB4S12BS	3/8 - 1/2	42	22.92	22.04	3.63	12.26	2.00	0.88	0.88	1.25
SB4S14BS	3/8 - 1/2	51	24.92	24.04	3.63	14.26	2.00	0.88	0.88	1.25

8-Ton 1-Sheave Snatch Blocks, with Shackle, 6-14 inches

SB8S6BS	5/8 - 3/4	29	19.18	18.18	4.02	6.24	2.31	1.00	1.00	1.50

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

One Sheave Snatch Block with Shackle

Sheaves
Snatch Blocks

MADE IN USA

GUNNEBO JOHNSON CORPORATION

8-Ton 1-Sheave Snatch Blocks, with Shackle, 6-14 inches (continued)

Model No.	Standard Wire Rope Size	Wt.	a Overall Length	b Net Length	e Thickness	f Width	h Width at Bow	j Shackle Thickness	k Shackle Width	l Center Pin Dia.
SB8S8BS	5/8 - 3/4	37	21.18	20.18	4.02	8.24	2.31	1.00	1.00	1.50
SB8S10BS	5/8 - 3/4	43	23.18	22.18	4.02	10.24	2.31	1.00	1.00	1.50
SB8S12BS	5/8 - 3/4	54	25.21	24.21	4.02	12.18	2.31	1.00	1.00	1.50
SB8S14BS	5/8 - 3/4	66	27.21	26.21	4.02	14.18	2.31	1.00	1.00	1.50

12-Ton 1-Sheave Snatch Blocks, with Shackle, 6-16 inches

SB12S6BS	3/4 - 7/8	50	22.25	21.00	4.85	6.68	2.87	1.25	1.25	2.00
SB12S8BS	3/4 - 7/8	61	23.81	22.56	4.85	8.24	2.87	1.25	1.25	2.00
SB12S10BS	3/4 - 7/8	74	25.81	24.56	4.85	10.24	2.87	1.25	1.25	2.00
SB12S12BS	3/4 - 7/8	95	27.81	26.56	4.85	12.24	2.87	1.25	1.25	2.00
SB12S14BS	3/4 - 7/8	108	29.81	28.56	4.85	14.24	2.87	1.25	1.25	2.00
SB12S16BS	3/4 - 7/8	130	31.97	30.72	4.85	16.36	2.87	1.25	1.25	2.00

15-Ton 1-Sheave Snatch Blocks, with Shackle, 8-16 inches

SB15S8BS	3/4 - 7/8	62	23.81	22.56	4.85	8.24	2.87	1.25	1.25	2.50
SB15S10BS	3/4 - 7/8	75	25.81	24.56	4.85	10.24	2.87	1.25	1.25	2.50
SB15S12BS	3/4 - 7/8	95	27.81	26.56	4.85	12.24	2.87	1.25	1.25	2.50
SB15S14BS	3/4 - 7/8	106	29.81	28.56	4.85	14.24	2.87	1.25	1.25	2.50
SB15S16BS	3/4 - 7/8	134	31.97	30.72	4.85	16.36	2.87	1.25	1.25	2.50

20-Ton 1-Sheave Snatch Blocks, with Shackle, 8-18 inches

SB20S8BS	1 - 1 1/8	95	28.78	27.15	5.83	8.24	4.00	1.63	1.63	2.25
SB20S10BS	1 - 1 1/8	109	30.78	29.15	5.83	10.24	4.00	1.63	1.63	2.25
SB20S12BS	1 - 1 1/8	119	32.78	31.15	5.83	12.24	4.00	1.63	1.63	2.25
SB20S14BS	1 - 1 1/8	130	34.78	33.15	5.83	14.24	4.00	1.63	1.63	2.25
SB20S16BS	1 - 1 1/8	161	36.78	35.15	5.83	16.24	4.00	1.63	1.63	2.25
SB20S18BS	1 - 1 1/8	186	38.78	37.15	5.83	18.24	4.00	1.63	1.63	3.00

30-Ton 1-Sheave Snatch Blocks, with Shackle, 20-24 inches

SB30S20BS	1 1/8 - 1 1/4	296	44.26	42.64	5.80	20.24	4.00	1.63	1.63	3.50
SB30S24BS	1 1/8 - 1 1/4	370	48.26	46.64	5.80	24.24	4.00	1.63	1.63	3.50

One Sheave Snatch Block with Shackle

WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

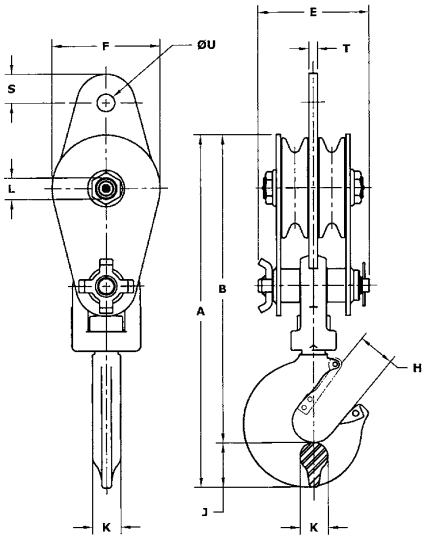
Sheaves
Snatch Blocks

MADE IN USA

GUNNEBO JOHNSON CORPORATION

Two Sheave Snatch Blocks with Hook

8 through 20-ton capacities
4 to 1 design factor
4-1/2 through 14-inch diameters





Key to two Sheave Snatch Block with hook model numbers

DB	15	D	12	B	H
Dbl. Shv. Snatch Block	Working Load Limit (Metric Tons)	No. of Shvs: D = 2	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bush R = Roller Bearing	Type of Fitting: H = Hook

"J" Latch is standard equipment

To order please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

8-Ton 2-Sheave Snatch Blocks, with Hook, 4-1/2 - 6 inches

Model No.	Standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Opening With Latch	J Hook Thickness	K Hook Width	L Center Pin Dia.	S Dead End Location	T Dead End Thick	U Hole Dia.
DB8D4BH	3/8 – 1/2	28	17.47	15.41	5.77	4.76	1.53	2.06	1.38	1	1.37	0.39	0.76
DB8D6BH	3/8 – 1/2	37	18.97	16.91	5.77	6.26	1.53	2.06	1.38	1	1.37	0.39	0.76

12-Ton 2-Sheave Snatch Blocks, with Hook, 6-14 inches

DB12D6BH	5/8 – 3/4	52	20.47	17.9	6.46	6.24	1.75	2.57	1.63	1.5	1.74	0.52	1.03

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Sheaves
Snatch Blocks

MADE IN USA

GUNNEBO JOHNSON CORPORATION

12-Ton 2-Sheave Snatch Blocks, with Hook, 6-14 inches (continued)

Model No.	standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Opening With Latch	J Hook Thickness	K Hook Width	L Center Pin Dia.	S Dead End Location	T Dead End Thick	U Hole Dia.
DB12D8BH	5/8 – 3/4	63	22.47	19.9	6.46	8.24	1.75	2.57	1.63	1.5	1.74	0.52	1.03
DB12D10BH	5/8 – 3/4	78	24.47	21.9	6.46	10.24	1.75	2.57	1.63	1.5	1.74	0.52	1.03
DB12D12BH	5/8 – 3/4	102	26.44	23.87	6.46	12.18	1.75	2.57	1.63	1.5	1.74	0.52	1.03
DB12D14BH	5/8 – 3/4	125	28.44	25.87	6.46	14.18	1.75	2.57	1.63	1.5	1.74	0.52	1.03

15-Ton 2-Sheave Snatch Blocks, with Hook, 6-14 inches

DB15D6BH	5/8 – 3/4	47	21.58	18.83	6.46	6.68	2.09	2.75	1.94	1.5	1.74	0.52	1.03
DB15D8BH	3/4 – 7/8	72	23.13	20.38	6.46	8.24	2.09	2.75	1.94	1.5	1.74	0.52	1.03
DB15D10BH	3/4 – 7/8	84	25.13	22.38	6.46	10.24	2.09	2.75	1.94	1.5	1.74	0.52	1.03
DB15D12BH	3/4 – 7/8	107	27.1	24.35	6.46	12.18	2.09	2.75	1.94	1.5	1.74	0.52	1.03
DB15D14BH	3/4 – 7/8	130	29.1	26.35	6.46	14.18	2.09	2.75	1.94	1.5	1.74	0.52	1.03

20-Ton 2-Sheave Snatch Blocks, with Hook, 8-14 inches

DB20D8BH	1 – 1 1/8	92	25.62	22.74	7.77	8.24	2.04	2.88	2.25	2	1.81	0.52	1.19
DB20D10BH	1 – 1 1/8	125	27.62	24.74	7.77	10.24	2.04	2.88	2.25	2	1.81	0.52	1.19
DB20D12BH	1 – 1 1/8	157	29.62	26.74	7.77	12.24	2.04	2.88	2.25	2	1.81	0.52	1.19
DB20D14BH	1 – 1 1/8	185	31.62	28.74	7.77	14.24	2.04	2.88	2.25	2	1.81	0.52	1.19

WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

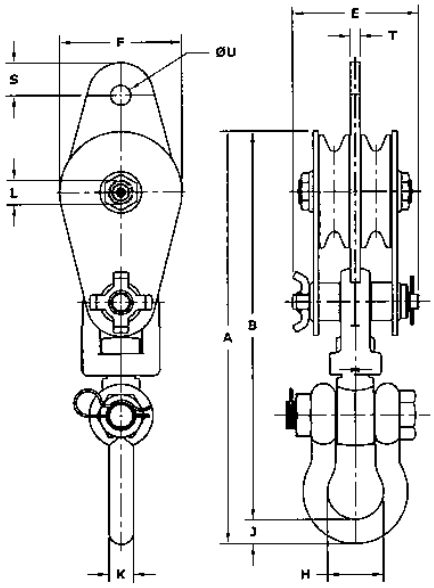
Sheaves
Snatch Blocks

MADE IN USA

GUNNEBO JOHNSON CORPORATION

Two Sheave Snatch Blocks with Shackle

8 through 20-ton capacities
4 to 1 design factor
4-1/2 through 14-inch diameters





Key to two sheave Snatch Block with shackle model numbers

DB	8	D	4	B	S
Dbl. Shv. Snatch Block	Working Load Limit (Metric Tons)	No. of Shvs: D = 2	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bush R = Roller Bearing	Type of Fitting: S = Shackle

To order please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

8-Ton 2-Sheave Snatch Blocks, with Shackle, 4-1/2 - 6 inches

Model No.	Standard Wire Rope Size	Wt	A Overall Length	B Net Length	E Thickness	F Width	H Width at Bow	J Shackle Thickness	K Shackle Width	L Center Pin Dia.	S Dead End Location	T Dead End Thick	U Hole Dia.
DB8D4BS	3/8 – 1/2	28	17.57	16.57	5.77	4.76	2.31	1	1	1	1.37	0.39	0.76
DB8D6BS	3/8 – 1/2	38	19.07	18.07	5.77	6.26	2.31	1	1	1	1.37	0.39	0.76

12-Ton 2-Sheave Snatch Blocks, with Shackle, 6-14 inches

DB12D6BS	5/8 – 3/4	56	21.28	20.03	6.46	6.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03

WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Sheaves
Snatch Blocks

MADE IN USA

GUNNEBO JOHNSON CORPORATION

12-Ton 2-Sheave Snatch Blocks, with Shackle, 4-6 inches (continued)

Model No.	Standard Wire Rope Size	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Width at Bow	J Shackle Thickness	K Shackle Width	L Center Pin Dia.	S Dead End Location	T Dead End Thick	U Hole Dia.
DB12D8BS	5/8 – 3/4	71	23.28	22.03	6.46	8.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB12D10BS	5/8 – 3/4	82	25.28	24.03	6.46	10.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB12D12BS	5/8 – 3/4	106	27.25	26	6.46	12.18	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB12D14BS	5/8 – 3/4	129	29.25	28	6.46	14.18	2.87	1.25	1.25	1.5	1.74	0.52	1.03

15-Ton 2-Sheave Snatch Blocks, with Shackle, 6-14 inches

DB15D6BS	5/8 – 3/4	45	21.73	20.48	6.46	6.68	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB15D8BS	3/4 – 7/8	70	23.28	22.03	6.46	8.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB15D10BS	3/4 – 7/8	82	25.28	24.03	6.46	10.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB15D12BS	3/4 – 7/8	105	27.25	26	6.46	12.18	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB15D14BS	3/4 – 7/8	128	29.25	28	6.46	14.18	2.87	1.25	1.25	1.5	1.74	0.52	1.03

20-Ton 2-Sheave Snatch Blocks, with Shackle, 8-20 inches

DB20D8BS	1 – 1 1/8	107	28.25	26.63	7.77	8.24	4	1.63	1.63	2	1.81	0.52	1.19
DB20D10BS	1 – 1 1/8	139	30.25	28.63	7.77	10.24	4	1.63	1.63	2	1.81	0.52	1.19
DB20D12BS	1 – 1 1/8	171	32.25	30.63	7.77	12.24	4	1.63	1.63	2	1.81	0.52	1.19
DB20D14BS	1 – 1 1/8	199	34.25	32.63	7.77	14.24	4	1.63	1.63	2	1.81	0.52	1.19

MULTI-PURPOSE SNATCH BLOCK

GREAT FOR OFF-ROAD APPLICATIONS !

6 Ton Working Load Limit
4" Sheave Diameter
3.5 to 1 Design Factor
3/8" Wire Rope
Anti-Corrosion Zinc Plated
Fits over 2" Trailer Ball

Model USB6S4B



Two Sheave Snatch Blocks with Shackle

WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Lever Hoist-Overload Protection

3/4 Ton - 9 Ton

OZ LIFTING PRODUCTS LLC

OZ PREMIUM NG

FEATURES AND BENEFITS

Free Wheel Feature - When not under load, the operator can disengage the gearing by positioning the selection switch to the center position. This allows for a quick adjustment of chain for faster operation.

Machined Lift Wheel - Perfectly accepts the chain allowing for a smooth, long-lasting operation.

Pull Handle / Safety Chain Stop - When not under load, this feature allows for quick disengagement of gearing, which allows for fast movement of the load hook. The safety chain stop is designed and load tested to hold the load in the event that the entire load chain is transmitted through the hoist.

360-Degree Handle Rotation - Allows the operator to work in confined spaces.

Corrosion Protection - Hoist components are powder coated to prevent corrosion. Product ID labels are made from stainless steel.

Fully-Enclosed Lift Wheel - Maintains smooth operation while distributing the load over more links of chain. It also helps keep debris from contaminating the lift wheel and self cleans the chain as it enters the wheel.

Steel Handle with Rubber Grip - Provides a non-slip, sure-grip, surface.

Cast Steel Hand Wheel - Rotates to allow positive load chain positioning.

Lower Block - Included with multi-strand hoists.



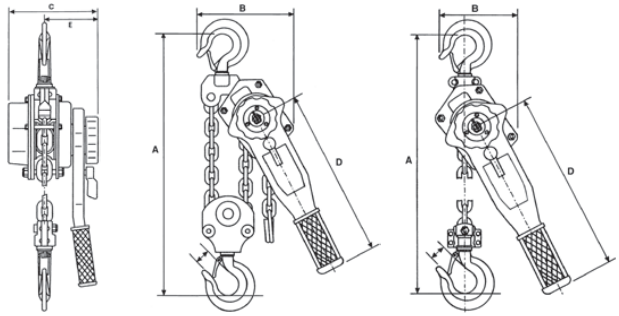
FREE
Spare Set of Latches

Standards:
CE
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VIDEO:
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SPECIFICATIONS (0.75, 1.5, 3, 6, and 9 tons)



Product Code		OZ075LHOP	OZ150LHOP	OZ300LHOP	OZ600LHOP	OZ900LHOP
Safe Working Lift (tons)		0.75 (t)	1.5 (t)	3 (t)	6 (t)	9 (t)
Headroom (in)		12.79 (in)	14.96 (in)	18.90 (in)	24.41 (in)	27.56 (in)
Effort on lever to lift full load (lbs)		30.86 (lbs	48.50 (lbs)	70.55 (lbs)	74.96 (lbs)	79.37 (lbs)
Number of Load Chain Falls		1	1	1	2	3
Diameter of Load Chain (mm)		6 (mm)	8 (mm)	10 (mm)	10 (mm)	10 (mm)
Length of Lever Handle (in)		11.02 (in)	16.14 (in)	16.14 (in)	16.14 (in)	16.14 (in)
Dimensional Information (in)	A	12.79 (in)	14.96 (in)	18.89 (in)	24.40 (in)	27.55 (in)
	B	5.35 (in)	6.29 (in)	7.08 (in)	9.25 (in)	12.44 (in)
	C	5.82 (in)	6.77 (in)	7.87 (in)	7.87 (in)	7.87 (in)
	D	11.02 (in)	16.14 (in)	16.14 (in)	16.14 (in)	16.14 (in)
	E	3.54 (in)	3.85 (in)	4.52 (in)	4.52 (in)	4.52 (in)
Hook-opening, upper & lower (in)		1.18 (in)	1.41 (in)	1.57 (in)	1.96 (in)	2.28 (in)
Net Weight of Head Only (lbs)		13 (lbs)	22 (lbs)	33 (lbs)	51 (lbs)	81 (lbs)

*Standard Lift: 5,10,15, and 20 ft. - We also do custom rigging

Dimensions are for reference only and subject to change without notice.

Individually Tested
Test Certificate
- Included -

VIDEO:
OVERLOAD PROTECTION

Or visit:
ozliftingproducts.com

Chain Hoist-Overload Protection

1/2 Ton - 10 Ton

OZ LIFTING PRODUCTS LLC

OZ PREMIUM NG

Rigged and tested in the U.S.A.

WITH OVERLOAD PROTECTION

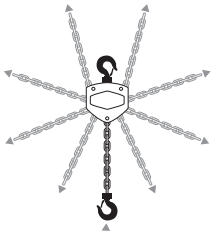
Standards:
CE
AS1418.2
ANSI B30.16

FREE
Spare Set of Latches



Individually Tested
Test Certificate
- Included -

FEATURES AND BENEFITS



Unique Hand Wheel Design - This feature enables the hand chain to successfully feed directly into the wheel sprocket from many directions and angles. Thus, the operator can use the hoist while standing to the side of, or even above the load without fear of the hand chain jamming.

Thrust Bearing on Lower Hook - Allows easy rotation of load while suspended and prevents load chain twisting.

Fully-Machined Lift Wheel - Perfectly accepts the chain allowing for a smooth, long-lasting operation.

Fully-Enclosed Lift Wheel - Maintains smooth operation while distributing the load over more links of chain. It also helps keep debris from contaminating the lift wheel and self cleans the chain as it enters the wheel.

Lifting or Pulling - Can be used for lifting or pulling which makes for a more versatile tool.

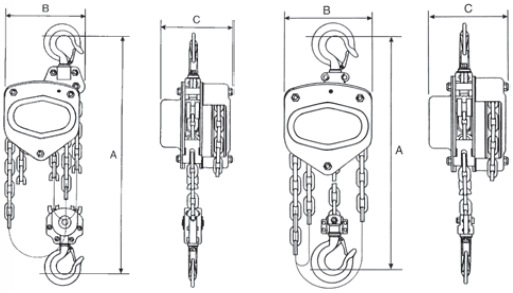
Low Headroom - Provides maximum lift by minimizing space taken up by the hoist, making it ideal in restricted space applications.

Corrosion Protection - Hoist components are powder coated to prevent corrosion. Product ID labels are made from stainless steel.

VIDEO:
CHAIN HOIST FEATURES
Or visit: ozliftingproducts.com

VIDEO:
CHAIN HOIST DISASSEMBLY
Or visit: ozliftingproducts.com

SPECIFICATIONS (0.5, 1, 1.5, 2, 3, 5 and 10 tons)



VIDEO:
CHAIN HOIST ASSEMBLY
Or visit: ozliftingproducts.com

Product Code		OZ005CHOP	OZ010CHOP	OZ015CHOP	OZ020CHOP	OZ030CHOP	OZ050CHOP	OZ100CHOP
Safe Working Load (tons)		.5 (t)	1 (t)	1.5 (t)	2 (t)	3 (t)	5 (t)	10 (t)
Falls of Chain		1	1	1	1	2	2	4
Effort to Lift S.W.L (lbs)		50.10 (lbs)	66.14 (lbs)	70.46 (lbs)	77.16 (lbs)	59.52 (lbs)	90.39 (lbs)	85.98 (lbs)
Load chain Diameter (mm)		6 (mm)	6 (mm)	8 (mm)	8 (mm)	8 (mm)	10 (mm)	10 (mm)
Dimensional Information (in)	A	10.62 (in)	12.48 (in)	15.70 (in)	16.29 (in)	18.30 (in)	25.03 (in)	29.52 (in)
	B	5.00 (in)	6.22 (in)	6.75 (in)	7.36 (in)	8.26 (in)	9.96 (in)	15.57 (in)
	C	5.15 (in)	5.51 (in)	6.33 (in)	6.33 (in)	6.33 (in)	7.24 (in)	7.24 (in)
Hook-opening, upper & lower (in)		1.18 (in)	1.10 (in)	1.41 (in)	1.31 (in)	1.57 (in)	1.96 (in)	2.51 (in)
Net Weight of Head Only (lbs)		17 (lbs)	22 (lbs)	31 (lbs)	35 (lbs)	39 (lbs)	67 (lbs)	115 (lbs)

***Standard Lift: 10 and 20 ft. - We also do custom rigging**

Dimensions are for reference only and subject to change without notice.

Chain Hoist-Overload Protection

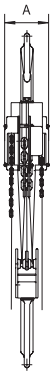
20 Ton - 30 Ton

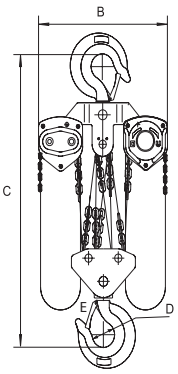
OZ LIFTING PRODUCTS LLC

SPECIFICATIONS (20 and 30 tons)



OZ200-CHOP





OZ PREMIUM NG

WITH OVERLOAD PROTECTION

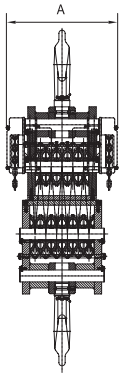
Standards:
CE
AS1418.2
ANSI B30.16

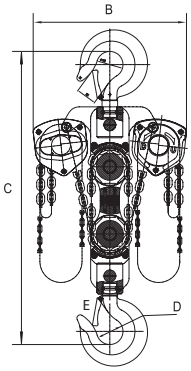


Rigged and tested in the U.S.A.



OZ300-CHOP





Model		OZ200-CHOP	OZ300-CHOP
Capacity		20 tons	30 tons
Effort required to lift rated load		112 lbs	112 lbs
Strands of load chain		8	12
Load chain diameter		10 mm	10 mm
Dimensions	A	8.39 in	18.21 in
	B	25.56 in	25.13
	C	35.83 in	47.98 in
	D	4.29 in	4.29 in
	E	3.34 in	3.34 in
	Weight:	30Ton -10ft. = 643lbs.	30Ton - 20ft.= 855 lbs
Net Weight of Head Only		254 lbs	432 lbs

Dimensions are for reference only and subject to change without notice.
10 mm Load Chain 1.5 lbs per/ft
Standard Lift: 10 and 20 ft. - We also do custom rigging

50 Ton Available.

Electric Chain Hoists

OZ LIFTING PRODUCTS LLC

OZ ELECTRIC SERIES

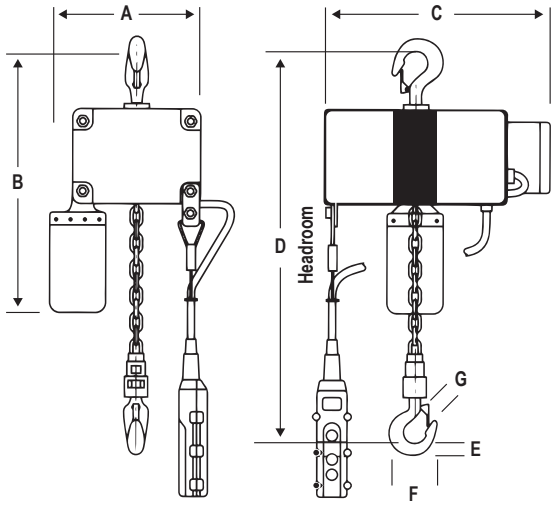


H3 DUTY CLASS
OVERLOAD PROTECTED

An advanced electric chain hoist, compact and powerful. Easy to install and operate, just plug into a 110 outlet and it's ready to be put to work!

	OZ440EC	OZ1000EC	OZ2000EC
Voltage	115 / 1 /60	115 / 1 /60	115 / 1 /60
Capacity	440 lbs.	1000 lbs.	2000 lbs.
Speed	12.5 FPM	20 FPM	10 FPM
Standard Lift	20'	20'	10'
Duty Cycle	15 min. (25%)	18 min. (30%)	18 min. (30%)
Pendant Length	15'	19'	19'
Power Cord Length	15'	15'	15'
Net Weight	18 lbs.	53 lbs.	59 lbs.

*Custom lifts available



	OZ440EC	OZ1000EC	OZ2000EC
A	5"	6.69"	6.69"
B	15"	27"	27"
C	9.5"	17.72"	17.72"
D	11"	16.93"	20.47"
E	0.60"	1.02"	1.25"
F	2.5"	3.62"	4.12"
G	0.75"	0.87"	1.36"

Electric Hoists
Builders Hoist

OZ LIFTING PRODUCTS LLC

OZ PREMIUM NG

Individually Tested
Test Certificate
- Included -

The OZ Builder's Hoist is designed for use on commercial building sites and in various construction workplaces, warehouses, storage facilities, and factories.

Product Features

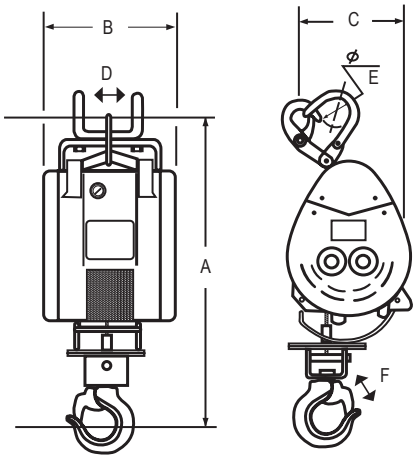
- Lightweight and compact design for convenient mounting
- Automatic shut-off when rope reaches limit arm
- Sensor arm for motor shut-off to prevent reverse winding
- Standard 115V power source-compatible
- Plug-in cords for ease of use
- 360-degree hook rotation with safety latch
- Built-in safety features and easy control of lifting for a wide range of applications



MODEL OBH500NG

Lifting Capacity (Full Drum): 500 lbs
Motor Voltage: 115/1/60
Speed: 75 fpm
Lifting Height: 90 ft
Wire Rope: 3/16 in
Winch Weight: 48 lbs
Gross Weight: 54 lbs
Power cord length: 15 ft
Pendant length: 65 ft (Custom lengths available)
Full Load AMPS: 17.5
Duty Cycle: 15 minutes use per 1 hour

Dimensions - Model OBH500NG		
A	Height	26.77 in.
B	Width	9.50 in.
C	Depth	7.88 in.
D	Hanger Width	4.50 in.
E	Hanger Opening	2 in.
F	Hook Opening	1.62 in.



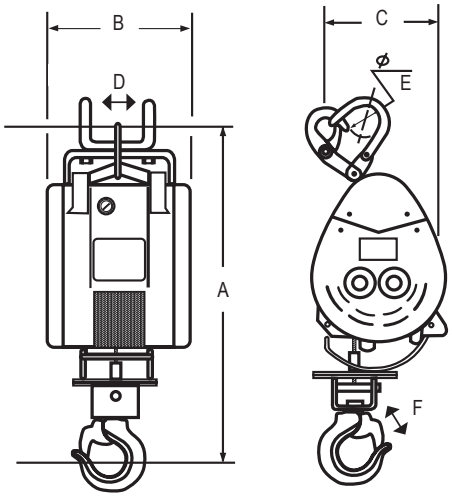
Dimensions are for reference only and subject to change without notice.



MODEL OBH1000NG

Lifting Capacity (Full Drum): 1000 lbs
Motor Voltage: 115/1/60
Speed: 37 fpm
Lifting Height: 90 ft
Wire Rope: 1/4 in
Winch Weight: 69 lbs
Gross Weight: 73 lbs
Power cord length: 15 ft
Pendant length: 23 ft (Custom lengths available)
Full Load AMPS: 15.5
Duty Cycle: 15 minutes use per 1 hour

Dimensions - Model OBH1000NG		
A	Height	28.50 in.
B	Width	10.50 in.
C	Depth	12 in.
D	Hanger Width	4.50 in.
E	Hanger Opening	2 in.
F	Hook Opening	1.50 in.

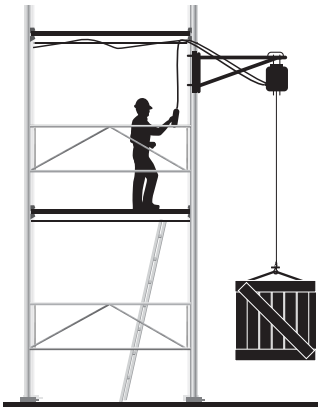


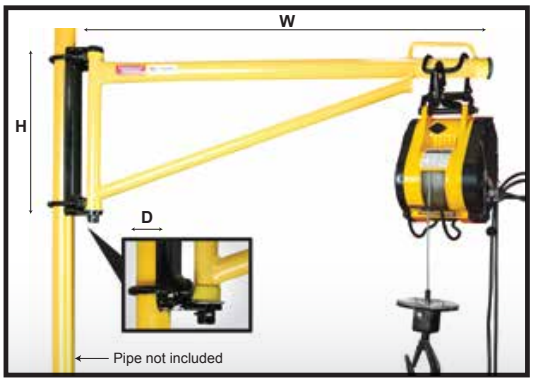
Dimensions are for reference only and subject to change without notice.

Electric Hoists
Builders Hoist

OZ LIFTING PRODUCTS LLC
OZ PREMIUM NG

FEATURES:
Powder Coated, Portable, Solid Mounting Bracket, Quick Mount, Light Weight.





SPECIFICATION

Model#	OBH230
Width (W)	40 1/2 inches
Height (H)	17 3/4 inches
Mounting Pipe (D)	2 inches
Capacity	1000 pounds
Net Weight	38 pounds

Dimensions are for reference only and subject to change without notice.

OTHER MOUNTING AND LIFTING SOLUTIONS



OBH w/Optional Hanger Trolley



OZ05PBTA-OBH
Trolley w/OBH Hanger
See pg. 16 for more information.



HOIST BUCKET
Contact us for more information.



OBH w/Optional Hoist Bucket

Beam Trolley
Push

MADE IN USA

OZ LIFTING PRODUCTS LLC



We hear about re-shoring by many U.S. companies, there are a few good reasons for this:

For many companies, the narrowing wage gap between overseas manufacturing versus doing that work here is a major contributor to bringing back jobs to the United States. Throw 10% in shipping costs along with the rising costs of imported products and the gap begins to close. Suddenly it may be worth staying home. We feel if we keep our products here in the United States, we can lower inventory and transportation costs, get closer to our market, and better control our quality while supporting businesses across the country.

PATRIOT LINE

As we move forward with designing new products, we couldn't think of a better name than the Patriot Line in honor of those who have made it possible for us to grow our company in such a great country. OZ Lifting donates a portion of all sales of our Patriot Line to the Comfort Warrior Project. Please visit their website to learn more about this worthy cause. www.legion.org/operationcomfortwarriors

With the Patriot Line we want to be innovators, not imitators. We will expand the Patriot Line with some good, old fashioned fair pricing and quality, all while continuing to sell what we feel is the highest quality import on the market. We appreciate all your past and future support.

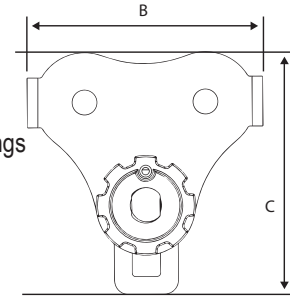
OZ PUSH BEAM TROLLEY

The push beam trolley by OZ Lifting Products sets a new standard for ease of use and durability. An innovative width adjustment system makes this trolley one of the fastest and easiest to install in the industry. A universal wheel tread pattern allows the trolley to be used on most I, S, and W-beams. We use steel construction with premium double sealed ball bearings to assure long life and trouble free service. Each of these trolleys is finished in a durable zinc finish and meets or exceeds the applicable ANSI standards.



FEATURES

- Fast and easy width adjustments
- Built in width adjustment indicator
- Fits most I, S, and W-Beams
- Glow in the dark adjustment stickers
- Corrosion resistant zinc finish
- Anti-Drop Plates
- Premium double-sealed ball bearings

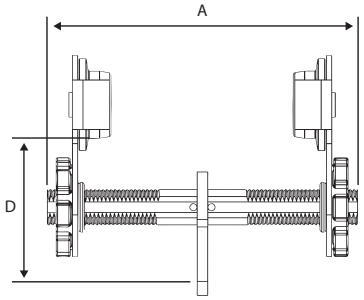


Standards:
ANSI

Test Certificate - Included -

SPECIFICATION

Part Number	OZ05PBTA	OZ1PBTA
Safe Working Load	1,000 lbs	2,000 lbs
Adjustable Flange Width	2.75" – 8.00"	2.75" – 8.00"
A	11"	11"
B	8.3"	10.2"
C	8.5"	9.8"
D	5"	5.5"
Net Weight	16 lbs	26 lbs



Dimensions are for reference only and subject to change without notice.

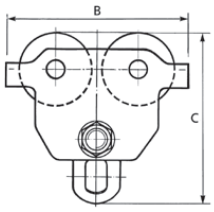
VIDEO: FEATURES

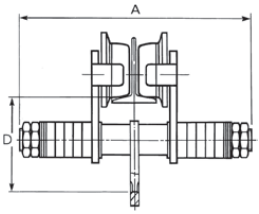
Or visit ozliftingproducts.com

4000 LBS. & 6000 LBS. CAPACITIES COMING SOON!

Beam Trolley
Push/Geared

OZ LIFTING PRODUCTS LLC





*Wheel and Bail dimensions available on our website www.ozliftingproducts.com

FEATURES

- Lightweight, robust construction
- Super-quick adjustment to most I, S, and W-Beams (see measurements below)
- Durable baked-enamel paint protection
- Precision ball bearing trolley wheels
- Anti-drop plate
- Stainless steel ID tag
- Individual test certificate and serial number

Test Certificate - Included -



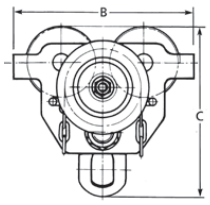
SPECIFICATIONS (0.5, 1, 2, 3, 5 and 10 tons)

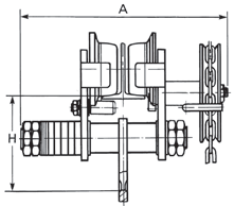
Product Code		OZ05PBT	OZ1PBT	OZ2PBT	OZ3PBT	OZ5PBT	OZ10PBT
Safe working load (lbs)		1,000 (lbs)	2,000 (lbs)	4,000 (lbs)	6,000 (lbs)	10,000 (lbs)	20,000 (lbs)
Adjustable flange width (in)		2.52-5.90 (in)	2.52-8.00 (in)	3.46-8.00 (in)	4.00-8.00 (in)	4.49-8.00 (in)	4.95-12.00 (in)
Product dimensions	A	9.75 (in)	11.75 (in)	13.19(in)	14.31 (in)	15.07(in)	17.56 (in)
	B	8.50 (in)	9.45 (in)	11.81 (in)	13.58 (in)	15.55 (in)	16.75 (in)
	C	7.67 (in)	8.41 (in)	11.26 (in)	13.23 (in)	15.47 (in)	16.00 (in)
	D	4.33 (in)	4.90 (in)	6.34 (in)	7.28 (in)	8.66 (in)	7.5 (in)
Minimum radius curve (ft)		2.95 (ft)	3.28 (ft)	3.60 (ft)	4.26 (ft)	4.59 (ft)	5.57 (ft)
Net weight (lbs)		20 (lbs)	22 (lbs)	50 (lbs)	82 (lbs)	123 (lbs)	198 (lbs)

Standards:
CE
Complies with portions of ASME 30.16

Dimensions are for reference only and subject to change without notice.

GEARED BEAM TROLLEY





*Wheel and Bail dimensions available on our website www.ozliftingproducts.com

FEATURES

- Lightweight robust construction.
- Super-quick adjustment to most I, S, and W-Beams (see measurements below)
- Durable baked-enamel paint protection
- Precision ball bearing trolley wheels
- Gearing provides positive load positioning along the beam
- Individual test certificate and serial number
- Anti-drop plate
- Stainless steel ID tag

Test Certificate - Included -



SPECIFICATIONS (1, 2, 3, 5 , 10, 20, and 30 Ton)

Product Code		OZ1GBT	OZ2GBT	OZ3GBT	OZ5GBT	OZ10GBT	OZ20GBT	OZ30GBT
Safe working load (lbs)		2,000 (lbs)	4,000 (lbs)	6,000 (lbs)	10,000 (lbs)	20,000 (lbs)	40,000 (lbs)	60,000 (lbs)
Adjustable flange width (in)		2.57-8.00 (in)	3.46-8.00 (in)	4.01-8.00 (in)	4.49-8.00 (in)	4.92-8.00 (in)	8.27-13.00 (in)	**
Product dimensions (in)	A	14.96 (in)	15.20 (in)	17.69 (in)	18.25 (in)	18.75 (in)	25.48 (in)	25.48 (in)
	B	9.44 (in)	10.63 (in)	13.58 (in)	15.55 (in)	17.91 (in)	25.28 (in)	25.28 (in)
	C	8.40 (in)	10.28 (in)	13.23 (in)	15.47 (in)	19.68 (in)	24.49 (in)	24.49 (in)
	D	4.90 (in)	6.08 (in)	7.28 (in)	8.66 (in)	11.02 (in)	12.40 (in)	12.29 (in)
Minimum radius curve (ft)		3.28 (ft)	4.26 (ft)	4.26 (ft)	4.59 (ft)	5.57 (ft)	14.76 (ft)	14.76 (ft)
Net weight (lbs)		32 (lbs)	46 (lbs)	95 (lbs)	136 (lbs)	234 (lbs)	565 (lbs)	573 (lbs)
* Std. length of hand chain (ft)		9 (ft)	9 (ft)	9 (ft)	9 (ft)	9 (ft)	9 (ft)	9 (ft)

Standards:
CE
Complies with portions of ASME 30.16

Dimensions are for reference only and subject to change without notice.

** Longer hand chain lengths available. Please contact the factory. ** Available in 50 Tons. Please contact factory for specifications.*

Beam Clamp
1 Ton - 10 Ton

OZ LIFTING PRODUCTS LLC



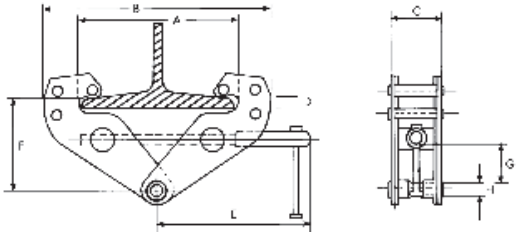
Test Certificate - Included -

Standards:
CE
Complies with portions of ASME 30.16

BEAM CLAMP

FEATURES

- Robust, all-steel construction
- Super-quick adjustment to most I-Beams (see measurements below)
- Durable baked-enamel paint protection
- Stainless steel ID tag
- Individual test certificate and serial number



SPECIFICATIONS (1, 2, 3, 5 and 10 tons)

Product Code		OZ1BC	OZ2BC	OZ3BC	OZ5BC	OZ10BC
Safe Working Load (lbs)		2,000 (lbs)	4,000 (lbs)	6,000 (lbs)	10,000 (lbs)	20,000 (lbs)
	A	2.95-9.05 (in)	2.95-9.05 (in)	3.15-12.60 (in)	3.54-12.60 (in)	3.54-12.60 (in)
	B	14.96 (in) max.	14.96 (in) max.	18.50 (in) max.	19.68 (in) max.	20.47 (in) max.
	C	2.51 (in)	2.91 (in)	3.94 (in)	4.41 (in)	4.72 (in)
Dimensional Information (in)	D	.90 (in)	.90 (in)	1.57 (in)	1.57 (in)	1.60 (in)
	E	9.13 (in)	9.13 (in)	10.63 (in)	10.90 (in)	11.22 (in)
	F	3.54-5.90 (in)	3.54-5.90 (in)	5.71-8.66 (in)	5.71-8.66 (in)	6.30-9.05 (in)
	G	1.02 (in)	1.02 (in)	2.63 (in)	3.50 (in)	3.87 (in)
	H	.75 (in)	.87 (in)	.96 (in)	1.30 (in)	1.60 (in)
Net Weight (lbs)		9 (lbs)	11 (lbs)	21 (lbs)	25 (lbs)	35 (lbs)

Dimensions are for reference only and subject to change without notice.



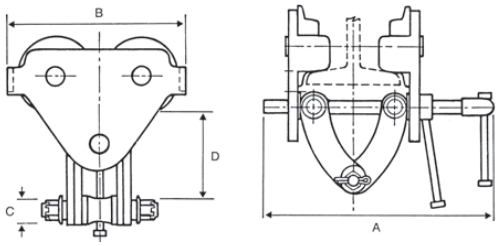
Test Certificate - Included -

Standards:
CE
Complies with portions of ASME 30.16

BEAM TROLLEY WITH CLAMP

FEATURES

- Lightweight, robust construction.
- Super-quick adjustment to most I, S, and W-Beams (see measurements below)
- Safety handle lock
- Durable baked-enamel paint protection
- Precision ball bearing trolley wheels
- Anti-drop plate
- Stainless steel ID tag
- Individual test certificate and serial number



*Wheel dimensions available on our website www.ozliftingproducts.com

SPECIFICATIONS (0.5, 1, 2, 3, 5 and 10 tons)

Product Code		OZ05BTC	OZ1BTC	OZ2BTC	OZ3BTC	OZ5BTC	OZ10BTC
Safe Working Load (lbs)		1,000 (lbs)	2,000 (lbs)	4,000 (lbs)	6,000 (lbs)	10,000 (lbs)	20,000 (lbs)
Adjustable Flange Width (in)		3.63-7.12	2.48-8.27 (in)	2.99-8.27 (in)	2.99-8.27 (in)	3.94-12.01 (in)	6.89-12.01(in)
	A	11.75 (in)	13.98 (in)	14.17 (in)	14.17 (in)	18.50 (in)	18.90 (in)
	B	8.00 (in)	9.53 (in)	11.06 (in)	12.91 (in)	14.84 (in)	17.91 (in)
Dimensional Information (in)	C	.75 (in)	.88 (in)	.88 (in)	.97 (in)	1.11 (in)	1.65 (in)
(min-max)	D	5.87-7.12 (in)	5.75-7.22 (in)	6.06-7.22 (in)	6.35-7.97 (in)	8.81-10.61 (in)	9.00-10.51 (in)
Minimum Curve Radius (ft)		3.28 (ft)	3.28 (ft)	3.61 (ft)	4.26 (ft)	4.60 (ft)	5.57 (ft)
Net Weight (lbs)		13 (lbs)	25 (lbs)	38 (lbs)	57 (lbs)	102 (lbs)	205 (lbs)

Dimensions are for reference only and subject to change without notice.

Beam Clamp
1 Ton - 10 Ton

MADE IN USA

OZ LIFTING PRODUCTS LLC

OZ LIFTING BEAM CLAMPS

These beam clamps feature a fully-welded box construction and use no press fit pins. We also completely weld the support plates at the main load pin to the heavy-duty side plates, providing exceptional rigidity and strength. EPA-compliant zinc plating also adds increased corrosion resistance.

PATRIOT LINE


OZ1BCA


OZ2BCA


OZ3BCA


OZ5BCA


OZ10BCA

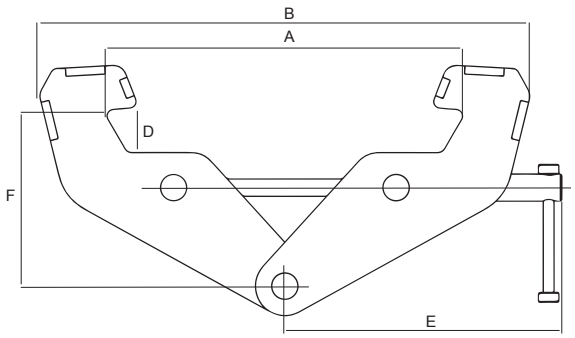
1 TON THROUGH 10 TON
These Beam Clamps meet or exceed ASME standards
(For use with manual or powered hoists)

FEATURES

- Robust, all-steel, fully-welded construction
- Super-quick adjustment to most I-Beams
- ROHS Compliant Zinc Plated Finish
- Permanent engraved load rating

VIDEO:
BEAM CLAMP FEATURES

Or visit: ozliftingproducts.com



Product Specifications

	OZ1BCA	OZ2BCA	OZ3BCA	OZ5BCA	OZ10BCA
Safe Working Load	2,000 lbs.	4,000 lbs.	6,000 lbs.	10,000 lbs.	20,000 lbs.
A	3" - 9"	3" - 9"	3.5" - 13"	3.5" - 13"	3.5" - 13"
B	14.75"	14.75"	20.5"	20.5"	22"
C	2.51"	2.91"	3.94"	4.41"	4.72"
D	0.9"	0.9"	1.5"	1.5"	1.5"
E	9.5"	9.5"	11"	11"	11.5"
F	4.75" - 5.75"	4.75" - 5.75"	7.5" - 9"	7.5" - 9"	5.5" - 9.375"
G	1.75"	1.75"	2.5"	2.5"	4"
H	.75"	.875"	.975"	1.125"	1.625"
Net Weight	9 lbs.	11 lbs.	22 lbs.	26 lbs.	39 lbs.

Standards:
ASME

Test Certificate - Included -

Dimensions are for reference only and subject to change without notice.

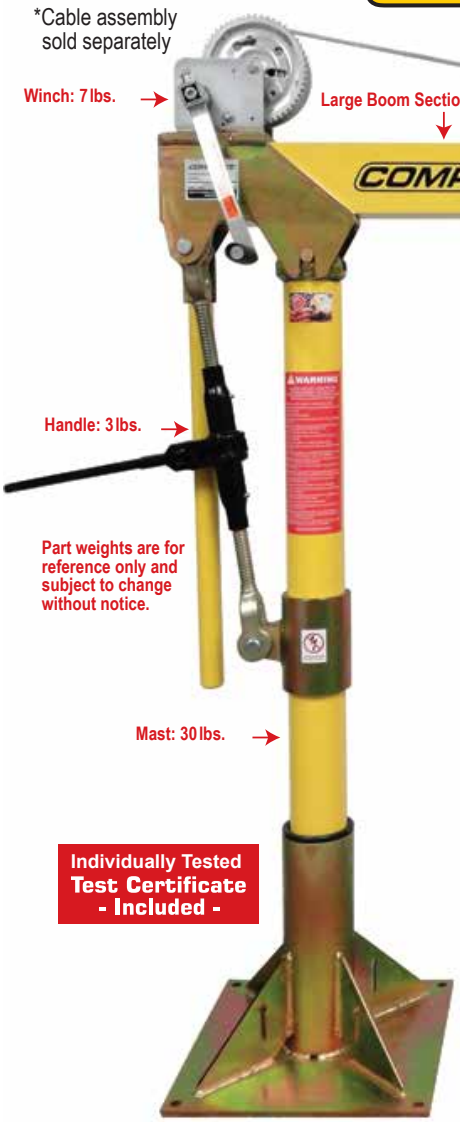
Davit Crane
Composite

MADE IN USA

OZ LIFTING PRODUCTS LLC

Portable and Ultra Lightweight Composite Frame Davit Crane

COMPOZITE



[PATENTED]

PATRIOT LINE

OZ1200DAV
1200 lbs. Capacity

IMPORTANT!
Load ratings will vary depending on: Boom Position, Wire Rope Length, Wire Rope Diameter.

COMPOZITE DAVIT CRANE

FEATURES:

- **1 person set up. No tools required for installation**
- Boom/extension and mast made of Advanced Composite Material
- Lightweight (40% lighter than steel)
- Corrosion resistant
- Metal components mil-spec, zinc-plated
- External handle helps rotate crane under load
- 4-position boom
- Ratchet screw jack adjusts boom under load giving you infinite range of lift
- 360-degree rotation of crane on sleeve bearing
- DIN-Rated hand winch equipped standard with a load-holding weatherproof Weston Brake
- Hand winch accepts both swaged ball fitting and bare end cable termination points
- Quick connect winch handle with power drill adapter included
- Pedestal base sold separately and comes with mounting template
- Smart Latch technology at boom/mast connection

VIDEO:
DAVIT CRANE FEATURES

Or visit:
ozliftingproducts.com

AC and DC power winches now available. Call for details.

*Pedestal, Socket and Wall Mount bases sold separately



*Call for a custom base

Steel Wire Rope (FOR MANUAL WINCH)		
OZGAL.19-80B	3/16" x 80'	Galvanized cable assembly
OZSS.19-80B	3/16" x 80'	Stainless steel cable assembly
OZGAL.25-55B	1/4" x 55'	Galvanized cable assembly
OZSS.25-55B	1/4" x 55'	Stainless steel cable assembly

All cable assemblies come with swaged ball and swivel hook with latch. **Custom cable length available.**
3/16" - 90ft max. length • 1/4" - 45ft max. length

Steel Wire Rope (FOR MANUAL AND POWER WINCH)		
OZGAL.19-90	3/16" x 90'	Galvanized cable assembly
OZSS.19-90	3/16" x 90'	Stainless Steel cable assembly
OZGAL.25-45	1/4" x 45'	Galvanized cable assembly
OZSS.25-45	1/4" x 45'	Stainless Steel cable assembly

All cable assemblies come with swivel hook with latch. **Custom cable length available.**
3/16" - 90ft max. length • 1/4" - 45ft max. length

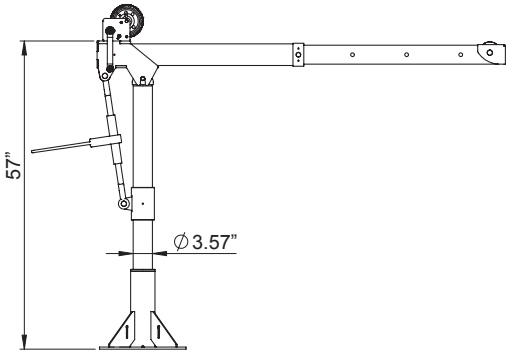
Davit Crane
Composite

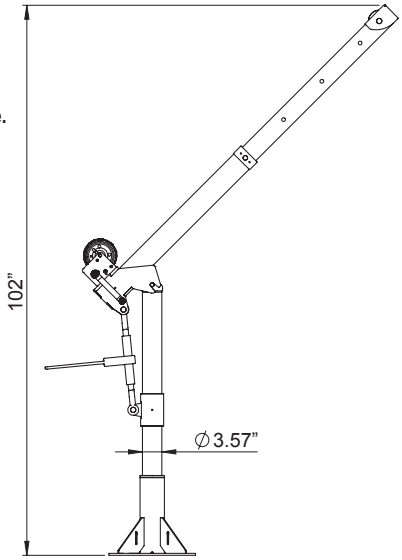
MADE IN USA

OZ LIFTING PRODUCTS LLC

SPECIFICATIONS
OZ1200DAV WITH PEDESTAL BASE

Dimensions are for reference only and subject to change without notice.

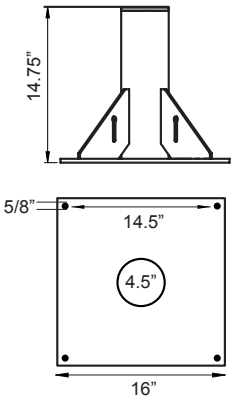




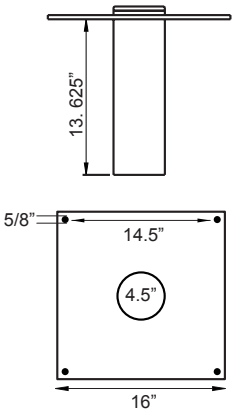
Pedestal Base Boom Position A:
Boom Position 1:Height 50” Reach 36”
Boom Position 2:Height 50” Reach 46”
Boom Position 3:Height 50” Reach 56”
Boom Position 4:Height 50” Reach 66”

Pedestal Base Boom Position B:
Boom Position 1:Height 74” Reach 22”
Boom Position 2:Height 81” Reach 29”
Boom Position 3:Height 88” Reach 36”
Boom Position 4:Height 95” Reach 43”

OZPED1

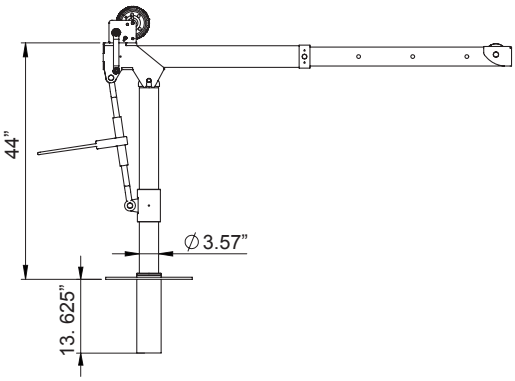


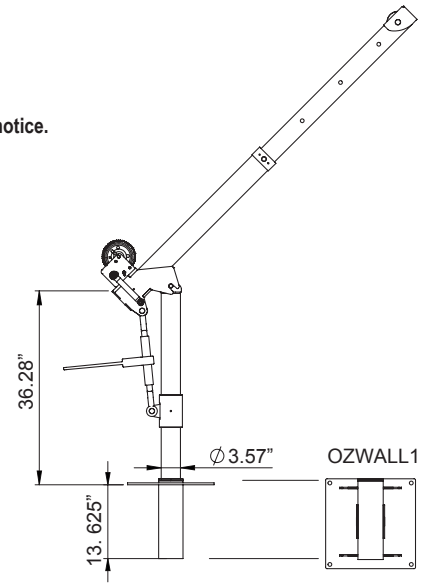
OZSOC1



SPECIFICATIONS
OZ1200DAV WITH SOCKET BASE

Dimensions are for reference only and subject to change without notice.

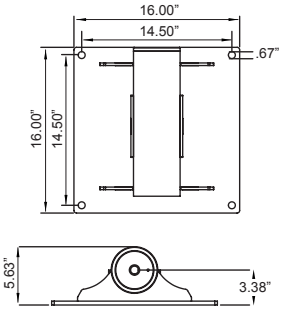




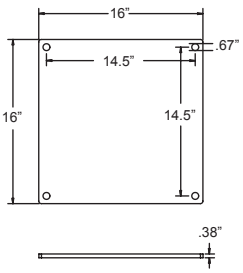
Socket Base Boom Position A:
Boom Position 1:Height 37” Reach 36”
Boom Position 2:Height 37” Reach 46”
Boom Position 3:Height 37” Reach 56”
Boom Position 4:Height 37” Reach 66”

Socket Base Boom Position B:
Boom Position 1:Height 61” Reach 22”
Boom Position 2:Height 68” Reach 29”
Boom Position 3:Height 75” Reach 36”
Boom Position 4:Height 82” Reach 43”

OZWALL1



OZBACK1



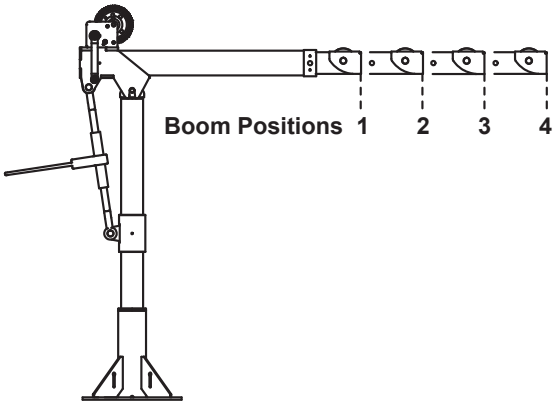
Davit Crane
Composite

MADE IN USA

OZ LIFTING PRODUCTS LLC

LOAD RATINGS
OZ1200DAV

*Table based on 1/4 inch wire rope. 3/16" cable will be lower.



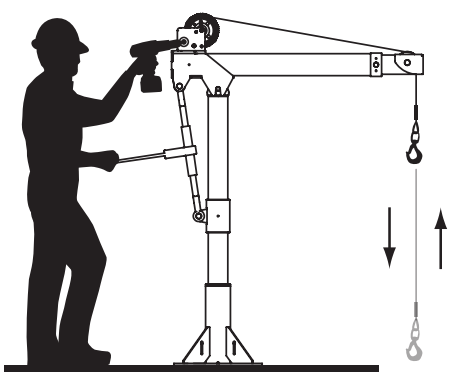
Load Ratings (lbs.)	1st. Layer	Mid Drum	Full Drum
Boom Position 1	1200 lbs.	875 lbs.	550 lbs.
Boom Position 2	900 lbs.	875 lbs.	550 lbs.
Boom Position 3	700 lbs.	700 lbs.	550 lbs.
Boom Position 4	400 lbs.	400 lbs.	400 lbs.

3/16" Cable	Boom Position 1	Boom Position 2	Boom Position 3	Boom Position 4
6 ft.	800 lbs.	800 lbs.	700 lbs.	400 lbs.
14 ft.	800 lbs.	800 lbs.	700 lbs.	400 lbs.
22 ft.	800 lbs.	800 lbs.	700 lbs.	400 lbs.
31 ft.	800 lbs.	800 lbs.	700 lbs.	400 lbs.
41 ft.	775 lbs.	775 lbs.	700 lbs.	400 lbs.
52 ft.	725 lbs.	725 lbs.	700 lbs.	400 lbs.
64 ft.	650 lbs.	650 lbs.	650 lbs.	400 lbs.
77 ft.	625 lbs.	625 lbs.	625 lbs.	400 lbs.
90 ft.	550 lbs.	550 lbs.	550 lbs.	400 lbs.

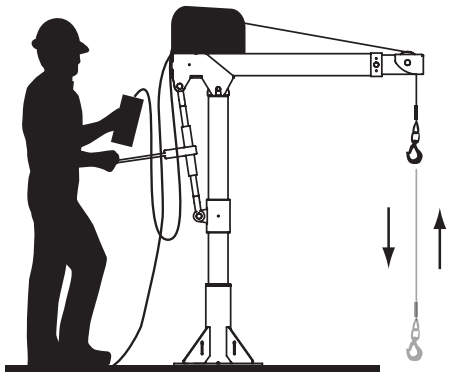
1/4" Cable	Boom Position 1	Boom Position 2	Boom Position 3	Boom Position 4
4 ft.	1200 lbs.	900 lbs.	700 lbs.	400 lbs.
9 ft.	1025 lbs.	900 lbs.	700 lbs.	400 lbs.
14 ft.	875 lbs.	875 lbs.	700 lbs.	400 lbs.
20 ft.	775 lbs.	775 lbs.	700 lbs.	400 lbs.
27 ft.	700 lbs.	700 lbs.	700 lbs.	400 lbs.
35 ft.	625 lbs.	625 lbs.	625 lbs.	400 lbs.
43 ft.	575 lbs.	575 lbs.	575 lbs.	400 lbs.
50 ft.	550 lbs.	550 lbs.	550 lbs.	400 lbs.

OPTIONS FOR FASTER LOWERING AND RAISING

Detach winch handle for drill option.



AC and DC power winches now available. See page 20. (OZACW, OZDCW)



VIDEO:
DAVIT CRANE ASSEMBLY

Or visit: ozliftingproducts.com

VIDEO:
DAVIT CRANE TEST PROCEDURES

Or visit: ozliftingproducts.com

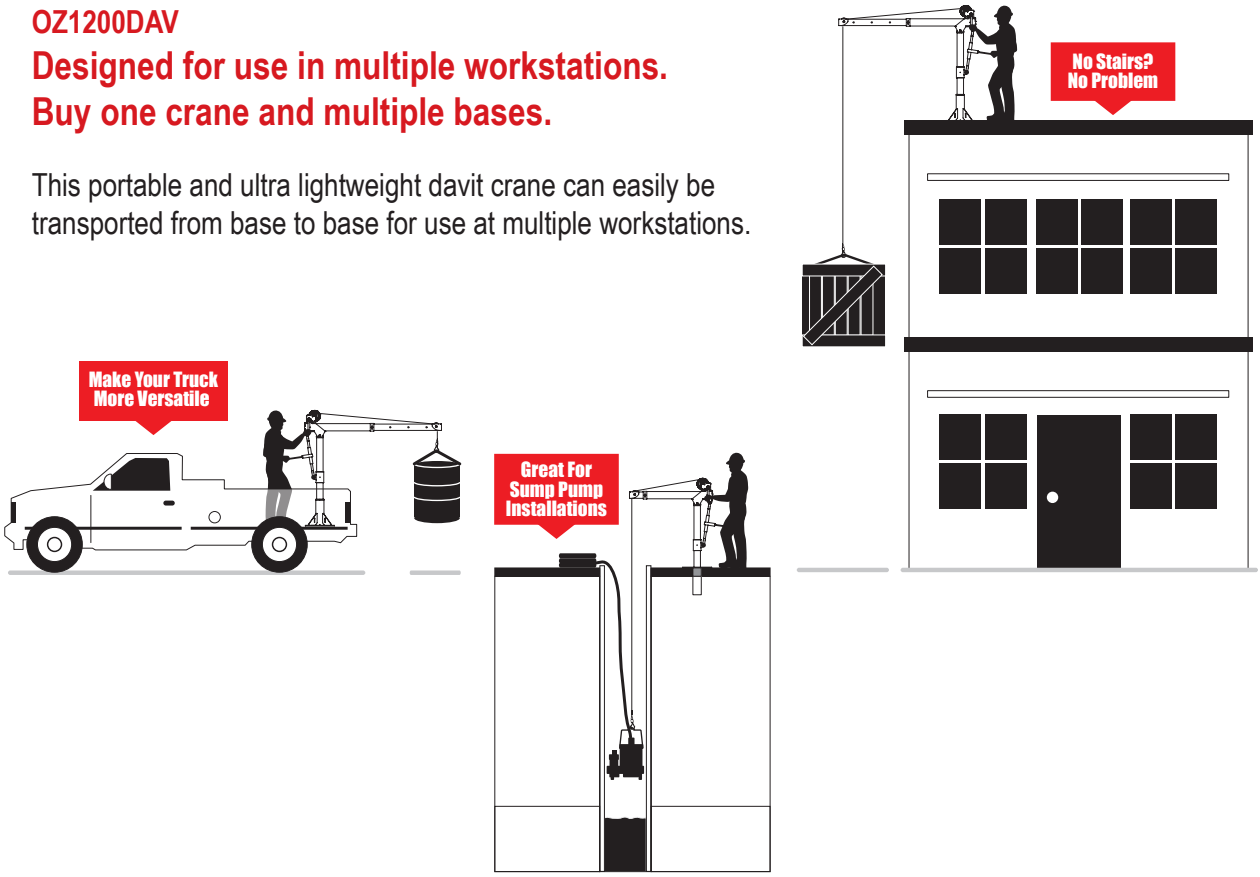
Davit Crane
Composite

OZ LIFTING PRODUCTS LLC

OZ1200DAV

Designed for use in multiple workstations.
Buy one crane and multiple bases.

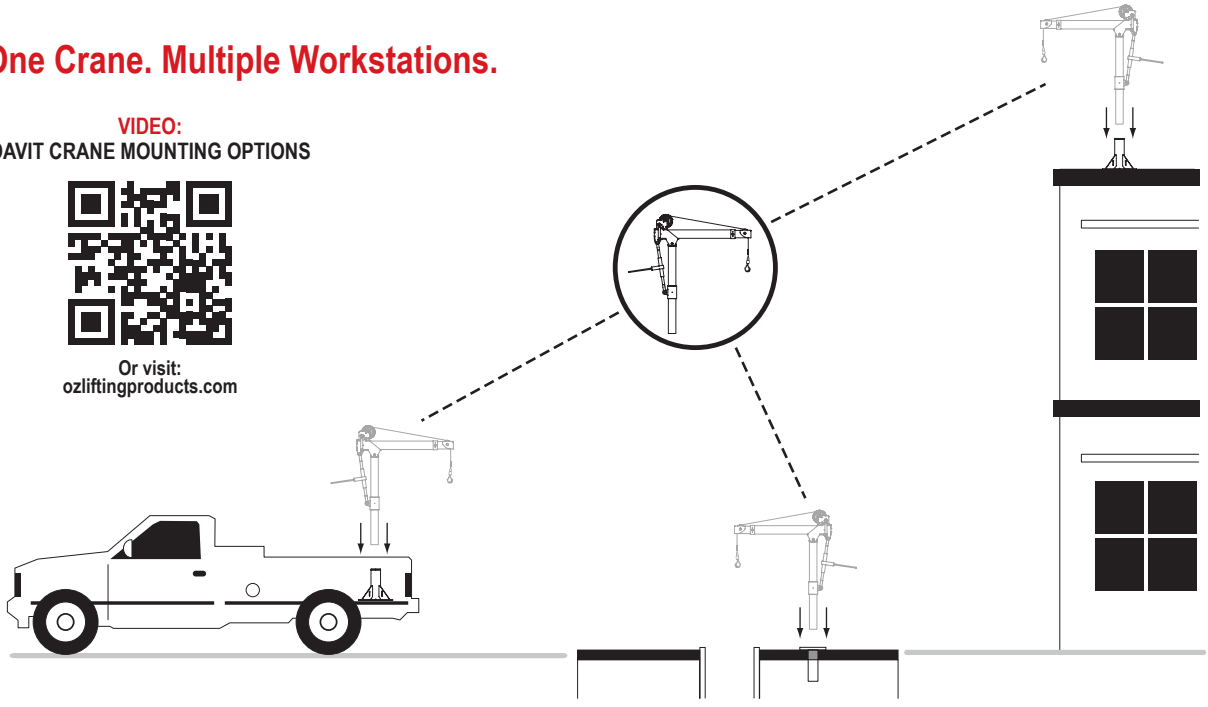
This portable and ultra lightweight davit crane can easily be transported from base to base for use at multiple workstations.



One Crane. Multiple Workstations.

VIDEO:
DAVIT CRANE MOUNTING OPTIONS

Or visit:
ozliftingproducts.com



Davit Crane
Steel - Zinc Plated

MADE IN USA

OZ LIFTING PRODUCTS LLC



*Cable assembly sold separately

Individually Tested
Test Certificate
- Included -

OZ PATRIOT LINE

OZ1000DAV
1000 lbs. Capacity

Also Available in
500 lbs. Capacity.

DAVIT 500 BY OZ

Contact us for more information.

DAVIT 1000 BY OZ

FEATURES:

- 360-degree rotation
- 4 boom height adjustments
- 1000 lb. rating
- Manual Din rated CE winch with brake. Includes power drill adaptor
- ROHS Compliant Zinc Plated Finish
- AC and DC winch option
- Individually tested and includes test certificate
- Portable
- Pedestal or socket bases (includes mounting template)

AC and DC power winches now available.

***Call for custom davit crane colors**

IMPORTANT!

Load ratings will vary depending on:
Wire Rope Length and
Wire Rope Diameter.
See Load Rating Table on Pg. 26

VIDEO:
DAVIT 1000 BY OZ FEATURES

Or visit: ozliftingproducts.com

*Pedestal, Socket, and Wall Mount Bases sold separately



***Call for a custom base**

Steel Wire Rope (FOR MANUAL WINCH)		
OZGAL.19-80B	3/16" x 80'	Galvanized cable assembly
OZSS.19-80B	3/16" x 80'	Stainless steel cable assembly
OZGAL.25-55B	1/4" x 55'	Galvanized cable assembly
OZSS.25-55B	1/4" x 55'	Stainless steel cable assembly

All cable assemblies come with swaged ball and swivel hook with latch. **Custom cable length available.**
3/16" - 90ft max. length • 1/4" - 45ft max. length

Steel Wire Rope (FOR MANUAL AND POWER WINCH)		
OZGAL.19-90	3/16" x 90'	Galvanized cable assembly
OZSS.19-90	3/16" x 90'	Stainless Steel cable assembly
OZGAL.25-45	1/4" x 45'	Galvanized cable assembly
OZSS.25-45	1/4" x 45'	Stainless Steel cable assembly

All cable assemblies come with swivel hook with latch.
Custom cable length available.
3/16" - 90ft max. length • 1/4" - 45ft max. length

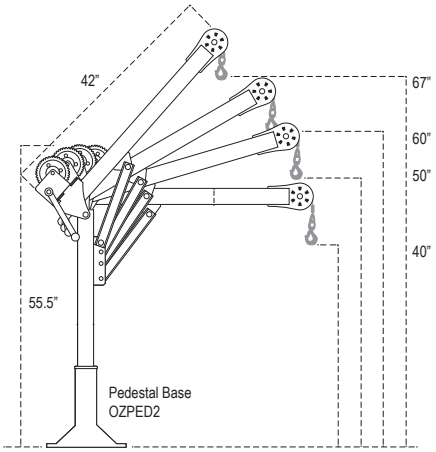
Davit Crane
Steel - Zinc Plated

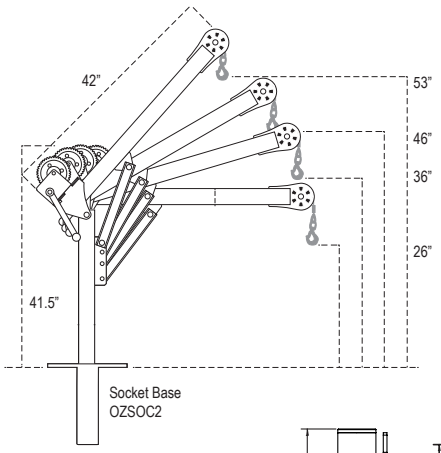
MADE IN USA

OZ LIFTING PRODUCTS LLC

SPECIFICATIONS OZ1000DAV

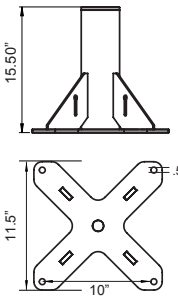
Dimensions are for reference only and subject to change without notice.



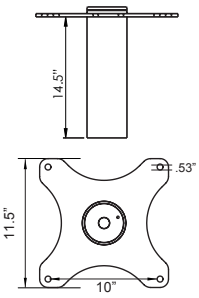


DAVIT 1000 BY OZ

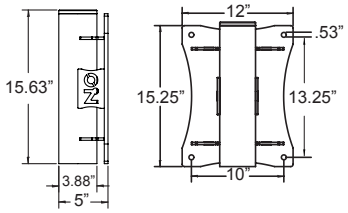
OZPED2



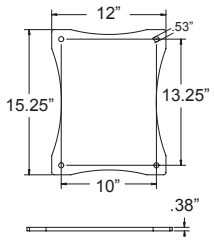
OZSOC2



OZWALL2



OZBACK2



LOAD RATINGS OZ1000DAV

Table based on 1/4 inch wire rope. 3/16" cable will be lower.

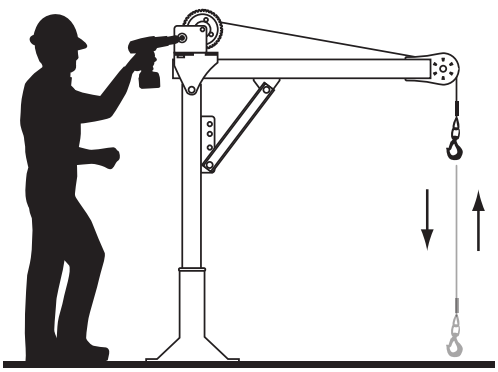
Load Ratings (lbs.)	1st. Layer	Mid Drum	Full Drum
	1000 lbs.	875 lbs.	550 lbs.

	3/16" Cable								
Lift	6 ft.	14 ft.	22 ft.	31 ft.	41 ft.	52 ft.	64 ft.	77 ft.	90 ft.
Capacity	800 lbs.	800 lbs.	800 lbs.	800 lbs.	775 lbs.	725 lbs.	650 lbs.	650 lbs.	550 lbs.

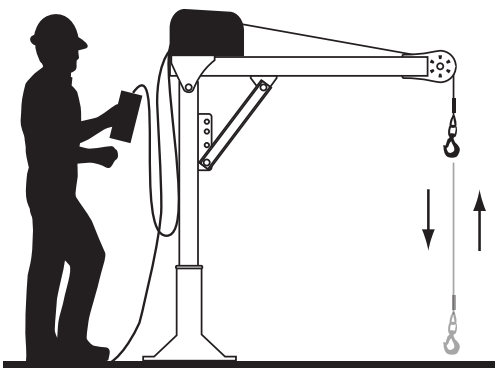
	1/4" Cable						
Lift	9 ft.	14 ft.	20 ft.	27 ft.	35 ft.	43 ft.	50 ft.
Capacity	1000 lbs.	875 lbs.	775 lbs.	700 lbs.	625 lbs.	575 lbs.	550 lbs.

OPTIONS FOR FASTER LOWERING AND RAISING

Detach winch handle for drill option.



AC / DC power winches now available. See page 20.
(OZACW, OZDCW)

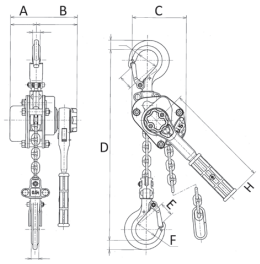


Manual Chain Hoists

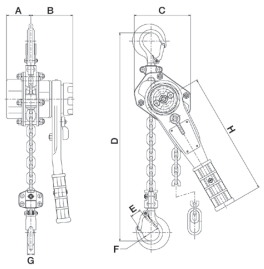
Lever Hoists, YA-Series

ELEPHANT LIFTING PRODUCTS™





YA-50



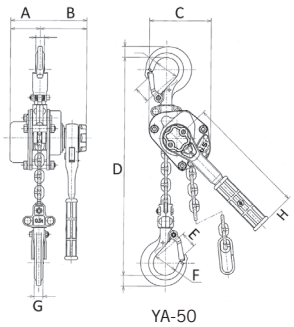
YA-50 - 1200, 6t+ has multiple falls

SPECIFICATIONS - YA LEVER HOIST								
Model	Capacity (lbs)	Capacity (mt)	Standard Lift (ft)	Hand Effort to Lift Full Working Load (lbf)	Dia. of Load Chain (mm)	Net Weight (lbs)	Load Chain Min Breaking Load	Safety Factor
YA-50	1100	0.5	5	82	4.3	7	5.2+	5.2
YA-80	1760	0.8	5	66	5.6	13	5.2+	6.5
YA-100	2200	1	5	82	5.6	14	5.2+	5.2
YA-160	3520	1.6	5	66	7.1	20	8.3+	5.3
YA-320	7040	3.2	5	82	9	34	13.4+	4.2
YA-630	13,860	6.3	5	84	9 x 2	59	26.8+	4.3
YA-900	19,800	9	5	86	9 x 3	93	40.2+	4.5
YA-1200	26,400	12	5	88	9 x 4	159	53.6+	4.2

*Test Load is 150% of Rated Load

DIMENSIONS (IN.) - YA LEVER HOIST								
Model	A	B	C	D	E	F	G	H
YA-50	1.7	2.7	3.6	9.4	0.94	1.4	0.51	7.0
YA-80	2.1	3.6	4.8	11.4	0.91	1.4	0.59	10.6
YA-100	2.1	3.6	4.8	12.3	1.1	1.7	0.63	10.6
YA-160	2.5	3.9	5.4	13.9	1.2	1.7	0.83	12.2
YA-320	3.3	4.1	7.1	16.2	1.4	2.1	1.1	12.2
YA-630	3.3	4.1	9.3	22.2	1.9	2.8	1.3	12.2
YA-900	3.3	4.1	11.8	27.1	2.9	3.4	1.88	12.2
YA-1200	3.25	4.09	14.57	31.06	2.91	3.35	1.87	12.2

* Specifications & Dimensions are subject to change without notice



YA-50

SPECIFICATIONS		
Model	YII-25	YA-50
Rated Load (lbs)	550	1100
Rated Load (mt)	250kg	500kg
Standard Lift (ft)	3.25	5
Min. Headroom (in)	9.25	10.4
Hand Effort to Lift Full Working Load (lbf)	66	75
Load Chain Dia. (mm)	4	4
Number of Chain Falls	1	1
Grade of Chain (JIS)	+V	+V
Net Weight (lbs)	4	8

DIMENSIONS (IN.)		
Model	YII-25	YA-50
A	0.82	1.70
B	2.75	2.70
C	2.36	3.60
D	9.25	9.40
E	0.74	0.94
F	1.22	1.40
G	0.47	0.51
H	6.1	7.00


CE
YA-50
Rated load 1100lbs


CE
YII-25
Rated load 550lbs

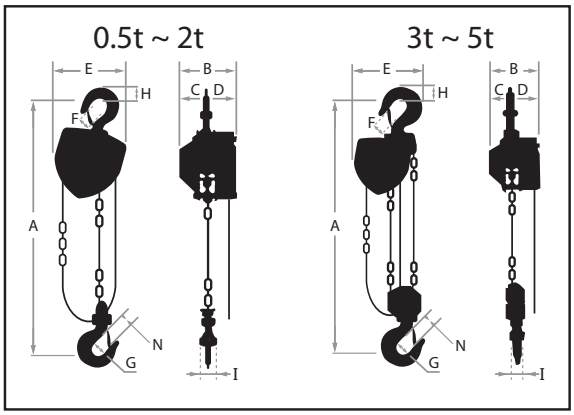
Manual Chain Hoists
Chainfalls, C-21 Series

ELEPHANT LIFTING PRODUCTS™



HAND CHAIN HOISTS

- Grade 105 galvanized load chain, which adheres to the strict German DIN 5684 standard
- Zinc plated hand chain
- Heavy duty frame
- Lightweight lifting capacity ratio, a 1 ton unit with 10' lift weighs 20% less than other Japanese hoists
- Long lasting friction discs
- Extremely wear resistant
- Load chain, hooks, and braking parts have a safety factor of 4+ times. 0.5t ~ 1t units have a safety factor of 5+ times.
- Durable powder coat finish



5 ton model has triple falls

SPECIFICATIONS - C-21 MANUAL CHAIN HOIST

Model	Max working load (lbs)	Max working load (mt)	Standard Lift (ft)	Manufacturer's Test Load	Headroom (in) Dim. A	Hand Effort to Lift Full Working Load (lbf)	Load Chain		Hand Chain	Net Weight (lbs)
							Dia. X Pitch (mm)	No. of Falls	Dia. X Pitch (mm)	
C21-0.5	1100	0.5	10	150% Max. working load	10.9	57.3	4.3 x 12	1	4.5 x 23.0	15
C21-1	2200	1	10		12.2	70.6	5.6 x 17			22
C21-1.5	3500	1.5	10		13.4	72.8	6.5 x 19			28
C21-2	4400	2	10		15	72.8	7.5 x 21			37
C21-3	6000	3	10		18.9	83.8	6.5 x 19	2		43
C21-5	11000	5	10		21.9	74.9	7.5 x 21	3		75

DIMENSIONS (IN.) - C-21 MANUAL CHAIN HOIST

Capacity(lbs)	A	B	C	D	E	F	G	H	I	N
C21-0.5	10.9	5.2	2.2	3	4.8	1.2	1.4	0.63	0.51	0.95
C21-1	12.2	5.7	2.4	3.3	5.8	1.4	1.7	0.87	0.63	1.2
C21-1.5	13.4	6	2.7	3.3	6.6	1.4	1.7	1	0.83	1.2
C21-2	15	6.5	3	3.5	7.6	1.7	2.1	1.2	0.87	1.4
C21-3	18.9	9	2.7	3.3	8.2	1.7	2.1	1.4	1.1	1.4
C21-5	21.9	6.5	3	3.5	11.7	2.3	2.8	1.8	1.3	1.8

WARNING
ELEPHANT'S ORIGINAL LONG-LIFE CHAIN MUST BE USED FOR THIS HOIST!

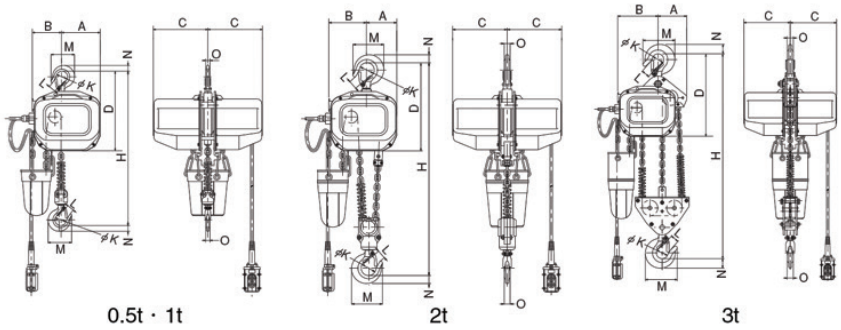
Electric Chain Hoists

1 Speed & 2 Speed Three Phase, Single Brake

ELEPHANT LIFTING PRODUCTS™



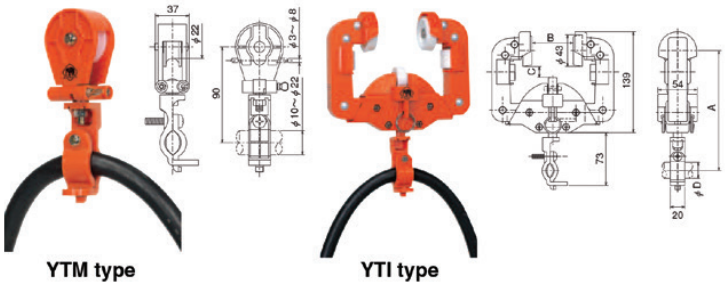
FA/FB HOOK SUSPENSION



SPECIFICATIONS - FA/FB TYPE HOOK SUSPENSION											
Model	W.L.L. (lbs)	W.L.L. (mt)	Test Load (mt)	Standard Lift (ft)	Standard Push Button Cord Length (ft)	Load Chain Dia. X Number of Falls	Lifting Motor Output (H.P.), (FB) High: Low Speed	Lifting Spd. (ft/min) (FB) High:Low speed		Min. Distance H (in)	Net Weight (lbs)
								50Hz	60Hz		
FA-0.5	1100	0.5	0.625	10	8	6.3 x 1	1.22	23	27.5	21.85	95
FA-1	2200	1	1.25	10	8	7.1 x1	2.18	20	24.5	23.23	123
FA-2	4400	2	2.5	10	8	7.1 x 2	2.18	10	12.5	29.33	141
FA-3	6600	3	3.75	10	8	7.1 x 3	2.18	7	8	33.07	183
FA-5	11000	5	6.25	10	8	7.1 x 5	2.18	4.1	4.8	38.2	246
FB-0.5	1100	0.5	0.625	10	8	6.3 x 1	1.22 : 0.34	23 / 6	27.5 / 7	21.85	97
FB-1	2200	1	1.25	10	8	7.1 x 1	2.18 : 0.54	21 / 5	24.6 / 6	23.23	126
FB-2	4400	2	2.5	10	8	7.1 x 2	2.18 : 0.54	10 / 1.6	12.5 / 3	29.33	143
FB-3	6600	3	3.75	10	8	7.1 x 3	2.18 : 0.54	7 / 1.6	8 / 2	33.07	185
FB-5	11000	5	6.25	10	8	7.1 x 5	2.18 : 0.54	4.1	4.8/1.2	38.2	246

DIMENSIONS (IN.) - FA/FB TYPE HOOK SUSPENSION										
W.L.L (lbs)	W.L.L. (mt)	A	B	C	D	K	L	M	N	O
1100	0.5	6.34	4.88	8.82	12.46	1.69	1.04	3.31	0.75	0.55
2200	1	6.69	5.04	9.41	13.74	1.97	1.22	4.09	0.98	0.75
4400	2	5.24	6.5	9.41	15.22	2.56	1.5	5.33	1.38	1.02
6600	3	5.83	8.19	9.41	16.81	2.36	1.69	6.5	1.93	1.26
11000	5	7.2	10.74	9.4	19.2	2.76	1.85	6.7	2.08	1.38

CABLE HANGER



DIMENSIONS (IN.) - CABLE HANGER					
Model	I-Beam Width	A	B	C	D (Cable Dia.)
YTI-100	2.95	6.54	1.26	0.59	0.39 - 0.87
	3.94	6.54	2.24	0.59	0.39 - 0.87
YTI-150	4.92	6.54	3.23	0.98	0.39 - 0.87
	5.91	6.54	4.21	0.98	0.39 - 0.87

Electric Chain Hoists

Three Phase, Single Brake
1 Speed & 2 Speed

ELEPHANT
LIFTING PRODUCTS™



FAMB/FBMB 1 SPEED & 2 SPEED HOIST, WITH 1 SPEED MOTORIZED TROLLEY

SPECIFICATIONS - FAM/FBM 1 SPEED & 2 SPEED HOIST, 1 SPEED & 2 SPEED MOTORIZED TROLLEY											
Model	W.L.L. (lbs)	W.L.L. (mt)	Standard Lift (ft)	Lifting Speed (ft/min) (FB) High:Low Speed		Traversing Motor Output (H.P.)	Traversing Speed (ft/min)		Min. Distance H (in) Hook : Lug	Traversing I-beam Width	Trolley Min. Radius (in)	Net Weight (lbs)
				50Hz	60Hz		50Hz/60Hz	50Hz/60Hz				
FAM-0.5	1100	0.5	10	23	27.5	0.54	65 / 78 MAF type	32 /39 MAS type	27.36 (23.62)	2.95-5.91	43.31	163
FAM-1	2200	1	10	20	24.5				28.74 (24.61)		43.31	192
FAM-2	4400	2	10	10	12.5				35.83 (29.53)	3.94-5.91	59.06	229
FAM-3	6600	3	10	7	8				40.16 (33.86)		59.06	324
FAM-5	11000	5	10	*	4.8	1.02			38.8	5.00-7.00	78.74	428
FBM-0.5	1100	0.5	10	23 / 6	27.5 / 7	0.54	65 / 78 MAF type	32 /20 MAS type	27.36 (23.62)	2.95-5.91	43.31	165
FBM-1	2200	1	10	21 / 5	24.6 / 6				28.74 (24.61)		43.31	194
FBM-2	4400	2	10	10 / 1.6	12.5 / 3				35.83 (29.53)	3.94-5.91	59.06	232
FBM-3	6600	3	10	7 / 1.6	8 / 2				40.16 (33.86)		59.06	326
FBM-5	11000	5	10	*	4.8 / 1.2	1.02			38.8	5.00-7.00	78.74	430

FAMB/FBMB 1 SPEED & 2 SPEED HOIST, WITH 2 SPEED MOTORIZED TROLLEY

SPECIFICATIONS - FAMB/FBMB 1 SPEED & 2 SPEED HOIST, 2 SPEED MOTORIZED TROLLEY											
Model	W.L.L. (lbs)	W.L.L. (mt)	Standard Lift (ft)	Lifting Speed (ft/min) (FB) High:Low Speed		Traversing Motor Output (H.P.)	Traversing Speed (ft/min)		Min. Distance H (in) Hook : Lug	Traversing I-beam Width	Trolley Min. Radius (in)	Net Weight (lbs)
				50Hz	60Hz		50Hz	60Hz				
FAMB-0.5	1100	0.5	10	23	27.5	0.54	[16] [65] MB type	[19] [78] MB type	27.36 (23.62)	2.95-5.91	43.31	163
FAMB-1	2200	1	10	20	24.5				28.74 (24.61)		43.31	192
FAMB-2	4400	2	10	10	12.5				35.83 (29.53)	3.94-5.91	59.06	229
FAMB-3	6600	3	10	7	8				40.16 (33.86)		59.06	324
FAMB-5	11000	5	10	*	4.8	1.02			38.8	4.92-6.89	78.74	433
FBMB-0.5	1100	0.5	10	23 / 6	27.5 / 7	1.54	[16] [65] MB type	[19] [78] MB type	27.36 (23.62)	2.95-5.91	43.31	165
FBMB-1	2200	1	10	21 / 5	24.6 / 6				28.74 (24.61)		43.31	194
FBMB-2	4400	2	10	10 / 1.6	12.5 / 3				35.83 (29.53)	3.94-5.91	59.06	232
FBMB-3	6600	3	10	7 / 1.6	8 / 2				40.16 (33.86)		59.06	326
FBMB-5	11000	5	10	*	4.8 / 1.2	1.02			38.8	4.92-6.89	78.74	438

Electric Chain Hoists

Single Phase, Compact Beta

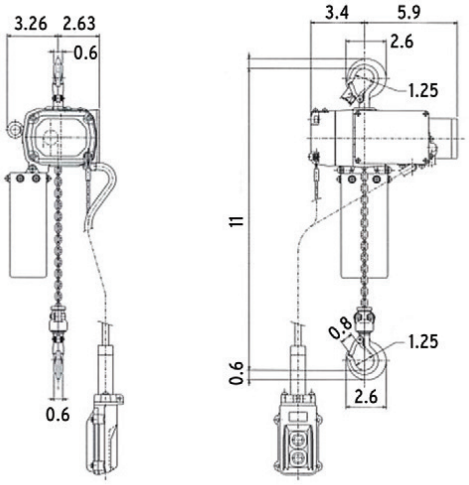
ELEPHANT LIFTING PRODUCTS™



- 125kg & 200kg
- 1 Phase 115V
- Unit weight with standard lift is 10 lbs
- 11” headroom
- Ideal for carrying in tool boxes
- Overload protection device
- Overwind protection
- Plastic chain container

SPECIFICATIONS - BETA COMPACT ELEC. CHAIN HOIST		
Model	BS-012	BS-020
Capacity (kg)	125	200
Capacity (lbs)	275 lb	440 lb
Motor output (H.P.)	0.25	
Short time rating (min.)	25	
%ED	30%	
Maximum starting frequency (times/h)	180	
Voltage	Single phase 115V	
Ampare (A)	4	
Lifting speed (ft / min.)	21	12.5
Headroom(in)	11	
Load chain (Dia. X Pitch)	3mm x 9mm	
Power cable (ft)	9.8 ft (1.25mm2 x 3cores) with plug	
Weight	16.5 lb (10 ft lift) : 17lb (20 ft lift)	

* Maximum lift is 32 ft



Above schematic measured in inches

Electric Chain Hoists

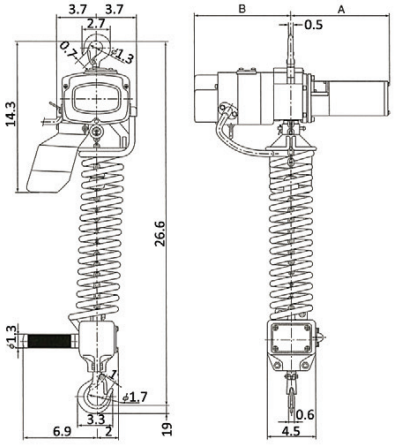
Single Phase - 1 Speed, 2 Speed & Variable

ELEPHANT LIFTING PRODUCTS™



SDH SERIES
1-PHASE
115V

HDH SERIES
1-PHASE
230V



Above schematic measured in inches

DIMENSIONS - ALPHA ERGO GRIP		
	Dimension A (in)	Dimension B (in)
Single Phase up to 100kg	7	8.7
Single Phase up to 250kg	9.1	9
Three Phase up to 250kg	8	9

SPECIFICATIONS - ALPHA ERGO GRIP 1 PHASE							
Type		Single - Speed Type		Dual-Speed Type		Variable Speed	
Model	115v	SDH-01	SDH-025	SBDH-01	SBDH-025	SVDH-01	SVDH-025
	230v	HDH-01	HDH-025	HBDH-01	HBDH-025	HDVH-01	HDVH-025
Rated Load (kg)		100	250	100	250	100	250
Rated Load (lbs)		220	550	220	550	220	550
Lift (ft)		8	8	8	8	8	8
Motor Output (W)		300	600	300	600	300	600
Motor Output (HP)		0.4	0.8	0.4	0.8	0.4	0.8
Short Time Rating (min)		25	25	25	25	25	25
Lifting Speed	Frequency (Hz)	60	60	60	60	60	60
	ft / min	43	33	13 / 43	13 / 33	3 - 43	3 - 33
Headroom (in)		26.5	26.5	26.5	26.5	26.5	26.5
Weight (lbs)		44	49	44	49	44	49

Notes:
1. A power source cable (2mm²X4 Core wires) 5M is included for 3phase.
2. Power supply voltage for operating the push-button switch is 24V 3 phase or 100V (or 200V) single phase.
3. 500kg type is also available to supply the equipment for the 490kg.

Manual Chain Hoists

Hand Crank & Power Cordless Drill Driven

ELEPHANT LIFTING PRODUCTS™



The Power Hoistman is beneficial for areas that lack electrification, useful within narrow spaces, and low headroom applications. The hoist can be operated by:

- Connecting a power drill directly to the drive mechanism
- Connecting a power drill to the flexible drive shaft
- Using the hand crank directly to the drive mechanism
- Connecting the hand crank handle to the flexible drive shaft
- Standard product is attached with powershaft 5ft, a bit and a handle
- Lifting speed meets the specifications (see pg 19) when r.p.m. of cordless driver drill is 1,300
- Please apply 15.6V cordless driver drill to EHMF-38.
- Do not use electric or pneumatic impact driver.

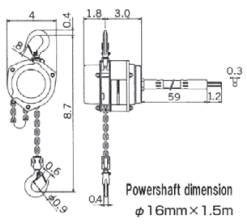
4 METHODS OF OPERATING THE HOIST



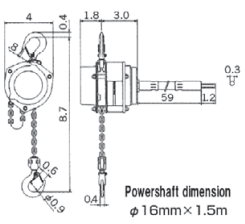
SPECIFICATIONS - POWER HOISTMAN CORDLESS DRILL DRIVEN & HAND CRANK HOIST

Model	Kind of Cordless Driver Drill	With Powershaft		Direct Connection		Standard Lift (ft)	Test Load (lbs)	Headroom (in)	Length of Power Shaft (ft)	Load Chain Dia x Pitch (mm)	Weight w/ Power Shaft (lbs)
		Rated Load (lbs)	Lifting Speed (ft / min)	Rated Load (lbs)	Lifting Speed (ft / min)						
EHMF-12.5	12V	275	10	275	10	10	125%	8.7	5	3.1 x 9.3	9
EHMF-20	12V	400	6	400	6	10	125%	8.7	5	3.1 x 9.3	9
EHMF-38	15.6V	838	5.5	838	5.5	10	125%	10.8	5	4.3 x 12	12

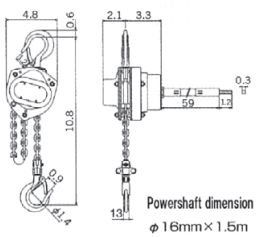
EHMF 12.5
Rated load 275 lbs.



EHMF 20
Rated load 400 lbs.



EHMF 38
Rated load 838 lbs.



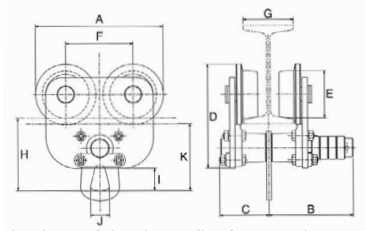
All schematics measured in inches

Beam Trolley Crawls

Push & Geared Trolleys

ELEPHANT LIFTING PRODUCTS™





The shape of the plain trolley for more than 8 ton is different from above drawing.

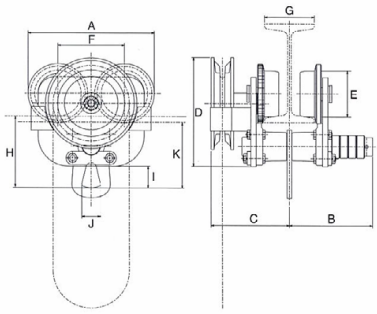
SPECIFICATIONS - ADJUSTABLE PLAIN TROLLEY

Model	Capacity (lbs)	Capacity (mt)	I-beam Width G (in)	Min. radius of I-beam (in)	Net Weight (lbs)
P-0.5	1102	0.5	2.3 - 5.11	35.4	18
P-1	2204	1	2.3 - 5.11	43.3	28
P-1.6	3527	1.6	2.7 - 6.1	47.2	47
P-2	4409	2	2.7 - 6.1	47.2	47
P-3.1	6944	3.15	3.5 - 6.2	66.93	60
P-5	11023	5	3.54 - 7.08	90.55	107
P-8	17636	8	5.91 - 6.89	118.11	216
P-10	22046	10	5.91 - 6.89	118.11	221
P-15	33069	15	6.89 - 7.48	236.22	650
P-20	44092	20	6.89 - 7.48	236.22	882

DIMENSIONS (IN.) - ADJUSTABLE PLAIN TROLLEY

Model	A	B	C	D	E	F	H	I	J	K
P-0.5	7.5	5	2.9	6.1	2.7	3.9	4.2	1.3	1.1	3.9
P-1	8.7	5	2.9	6.7	3.1	4.5	4.4	1.2	1.1	4
P-1.6	10.2	5.6	3.7	8.1	3.8	5.3	5.9	2	1.5	5.5
P-2	10.2	5.6	3.7	8.1	3.8	5.3	5.9	2.1	1.5	5.5
P-3.1	11.3	5.7	3.8	9.4	4.5	5.9	7.1	2.5	1.9	6.6
P-5	12.9	6.5	4.9	11.4	4.9	6.6	8.7	2.9	2.3	8.2
P-8	17	6.5	7	13	6.2	8.6	9.6	3.9	3.1	9.1
P-10	17	7	7	13	6.2	8.6	9.6	3.9	3.1	9.1
P-15	22.8	9	9	18.2	7.7	11.6	10.7	3.3	3.7	9.7
P-20	22.8	9	9	18.2	7.7	11.6	10.7	3.3	3.7	9.7





The shape of the geared trolley for more than 8 ton is different from above drawing.

SPECIFICATIONS - ADJUSTABLE GEARED TROLLEY

Model	Capacity (lbs)	Capacity (mt)	I-beam Width G (in)	Diameter x pitch of Hand Chain	Min. radius of I-beam (in)	Net Weight (lbs)
G-0.5	1102	0.5	2.3 - 5.11	5 x 22.5	35.4	27
G-1	2204	1	2.3 - 5.11	6 x 26.6	43.3	35
G-1.6	3527	1.6	2.7 - 6.1	6 x 26.6	47.2	54
G-2	4409	2	2.7 - 6.1	6 x 26.6	47.2	65
G-3.1	6944	3.15	3.5 - 6.2	6 x 26.6	66.93	74
G-5	11023	5	3.54 - 7.08	6 x 26.6	90.55	123
G-8	17636	8	5.91 - 6.89	5 x 23.6	118.11	236
G-10	22046	10	5.91 - 6.89	5 x 23.6	118.11	258
G-15	33069	15	6.89 - 7.48	5 x 23.6	236.22	695
G-20	44092	20	6.89 - 7.48	5 x 23.6	236.22	926
G-30	66138	30	7.48	5 x 23.6	472.44	1323

DIMENSIONS (IN.) - ADJUSTABLE GEARED TROLLEY

Model	A	B	C	D	E	F	H	I	J	K
G-0.5	7.5	5	4.6	6.4	2.7	3.9	4.2	1.3	1.1	3.9
G-1	8.7	5	4.8	7.3	3.1	4.5	4.4	1.2	1.1	4
G-1.6	10.2	5.6	5.3	9.1	3.8	5.3	5.9	2	1.5	5.5
G-2	10.2	5.6	5.3	9.1	3.8	5.3	5.9	2.1	1.5	5.5
G-3.1	11.3	5.7	5.3	9.9	4.5	5.9	7.1	2.5	1.9	6.6
G-5	12.9	6.5	6.5	11.8	4.9	6.6	8.7	2.9	2.3	8.2
G-8	17	7.4	11.7	12.1	6.2	8.6	9.6	3.9	3.1	9.1
G-10	17	7.4	11.8	12.1	6.2	8.6	9.6	3.9	3.1	9.1
G-15	22.8	9	12.8	17.4	7.7	11.6	10.7	3.3	3.7	9.7
G-20	22.8	9	12.9	17.4	7.7	11.6	10.7	3.3	3.7	9.7
G-30	36.8	12	17.4	22.7	9.6	23.6	23.1	7.2	5.9	22.1

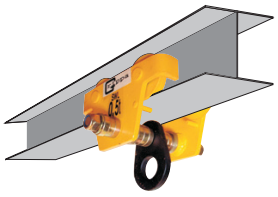
*If being paired with a motorized hoist, please consult with Elephant before proceeding. The brackets and connector between the side plates will change, to accommodate stresses generated by motorized hoists.

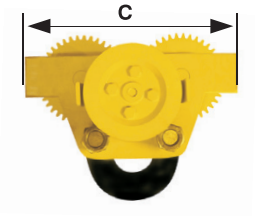
Beam Trolley Crawls

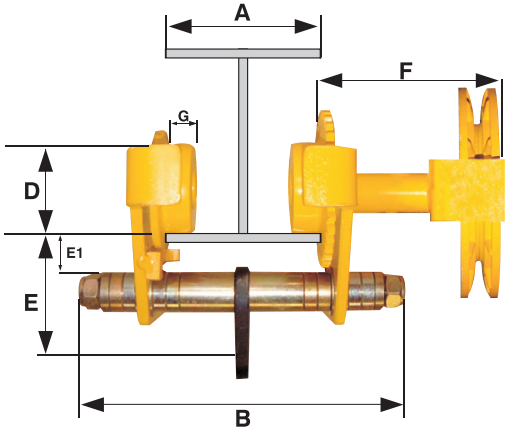
Grippa Beam Crawls

ELEPHANT LIFTING PRODUCTS™

0.25t / 0.5t

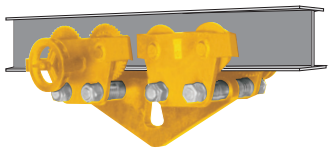


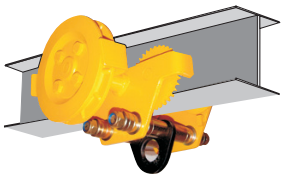




BC – Push Type
BCG – Geared Type

16t / 20t / 32t / 50t





Spark Resistant Units with 100% Stainless Steel Side Plates, Solid Bronze Wheels, and Solid Stainless Wheels are Available Upon Request

SPECIFICATIONS & DIMENSIONS - GRIPPA BEAM CRAWLS										
S.W.L. (mt)		250 kg	500 kg	1	2	3	5	10	16/20	32	50
S.W.L. (ton)		550 lbs	1100 lbs	1.1	2.2	3.3	5.5	11	17.6/22	35	50
MODEL		DIMENSIONS (in)									
"A" BEAM WIDTH RANGE	R1	1.97-2.95	1.97-2.95	2.99-6.02	3.54-6.02	3.94-6.54	4.96-6.54	6.06-7.56	6.06-7.56	Made to Specification	
	R2	2.99-5.63	2.99-5.63	5.55-8.27	6.06-8.5	6.57-8.27	6.57-8.27	7.6-9.02	7.6-9.02		
	R3	-	-	8.31-12.01	8.54-12.01	8.31-12.01	8.31-12.01	9.06-12.01	9.06-12.01		
"B" OVERALL CROSSHEAD WIDTH	R1	5.91	5.91	9.45	10.24	11.61	12.01	14.96	14.96		
	R2	9.45	9.45	12.01	12.8	13.39	13.78	16.54	16.54		
	R3	-	-	15.75	16.14	17.13	17.52	19.49	19.49		
"C" OVERALL LENGTH GEARED/PLAIN TROLLEY		6.38	7.87	10.08	12.99	13.11	15.04	19.69	40.16	47.2	70
"D" RUNNER TREAD DIAMETER		1.77	2.17	2.56	3.54	3.54	4.33	5.71	5.71	6.3	9.8
"E" HEADROOM - RUNNER TREAD TO SUPSENSION PLATE SEAT		4.13	4.25	3.15	3.5	4.49	4.49	9.37	10.16	ON REQUEST ONLY	ON REQUEST ONLY
"E1" HEADROOM - RUNNER TREAD TO SPACER		0.47	0.59	0.87	0.83	0.94	0.87	2.87	2.68	13.7	ON REQUEST ONLY
"F" EDGE OF RUNNER - FLANGE TO OUTSIDE OF CHAIN WHEEL		-	-	5.31	5.43	5.43	5.67	9.06	9.06	ON REQUEST ONLY	ON REQUEST ONLY
"G" THREAD WIDTH		0.71	0.71	0.75	0.98	0.98	1.18	1.89	1.89	ON REQUEST ONLY	ON REQUEST ONLY
MINIMUM RADIUS OF TRACK CURVE (ft)		2.46	2.46	4.92	4.92	4.92	5.91	9.84	ON REQUEST ONLY	ON REQUEST ONLY	ON REQUEST ONLY
WEIGHT (lbs) PUSH TROLLEY	R1	9	11	19	38	49	73	196	392	ON REQUEST ONLY	ON REQUEST ONLY

NOTE: 1/4t and 1/2t CAP. ONLY AVAILABLE AS PUSH CRAWL WITH A SINGLE CROSS HEAD BAR

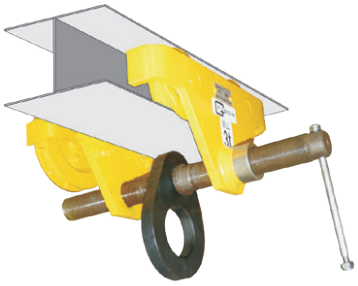
NOTE: ACCESSORIES AVAILABLE ON SPECIAL ORDER: 11.81 INCH EXTENSION FOR GEARED TROLLEY

Beam Trolley Crawls

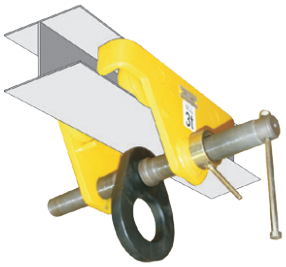
Quick Adjust Beam Crawls

ELEPHANT LIFTING PRODUCTS™

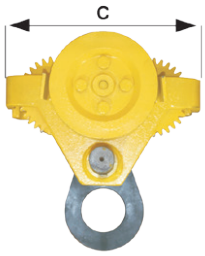
LH/RH single cross head
with locking bush.
Free swinging hook plate.
Anti tip pins.

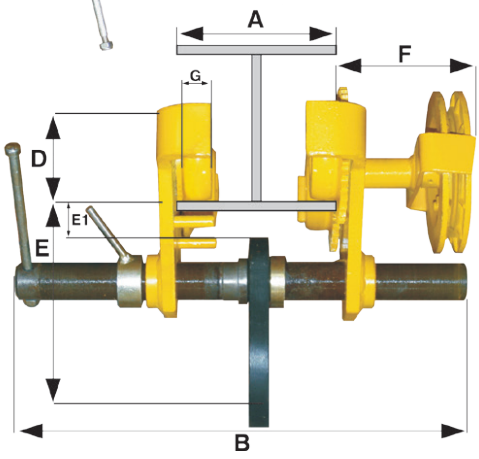


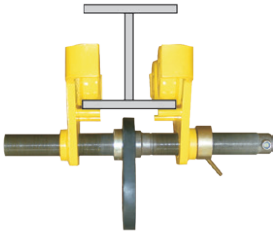
R-ADJG Geared Type



R-ADJP Push Type







SPECIFICATIONS & DIMENSIONS - GRIPPA - QUICK ADJUST RIGGER STYLE BEAM CRAWLS				
S.W.L. (mt)	1	2	3	5
S.W.L. (ton)	1.1	2.2	3.3	5.5
	DIMENSIONS (in)			
"A" BEAM WIDTH RANGE	1.77-11.02	2.56-11.02	2.76-11.81	3.54-11.81
"B" OVERALL CROSSHEAD WIDTH	17.38	17.72	18.11	19.09
"C" OVERALL LENGTH OF TROLLEY	10.24	12.99	12.99	15.16
"D" RUNNER TREAD DIAMETER	2.56	3.54	3.54	4.33
"E" HEADROOM - RUNNER TREAD TO SUPSENSION PLATE SEAT	5.91	5.91	7.48	8.66
"E1" HEADROOM - RUNNER TREAD TO TOP OF HOOK PLATE ASSY.	1.77	1.18	1.38	1.77
"F" EDGE OF RUNNER - FLANGE TO OUTSIDE OF CHAIN WHEEL	5.51	5.51	5.51	5.71
"G" THREAD WIDTH	0.75	0.98	0.98	1.18
MINIMUM RADIUS OF TRACK CURVE ft)	4.92	4.92	4.92	5.91
WEIGHT (lbs) PUSH TROLLEY	21	41	51	76

Beam Trolley Crawls

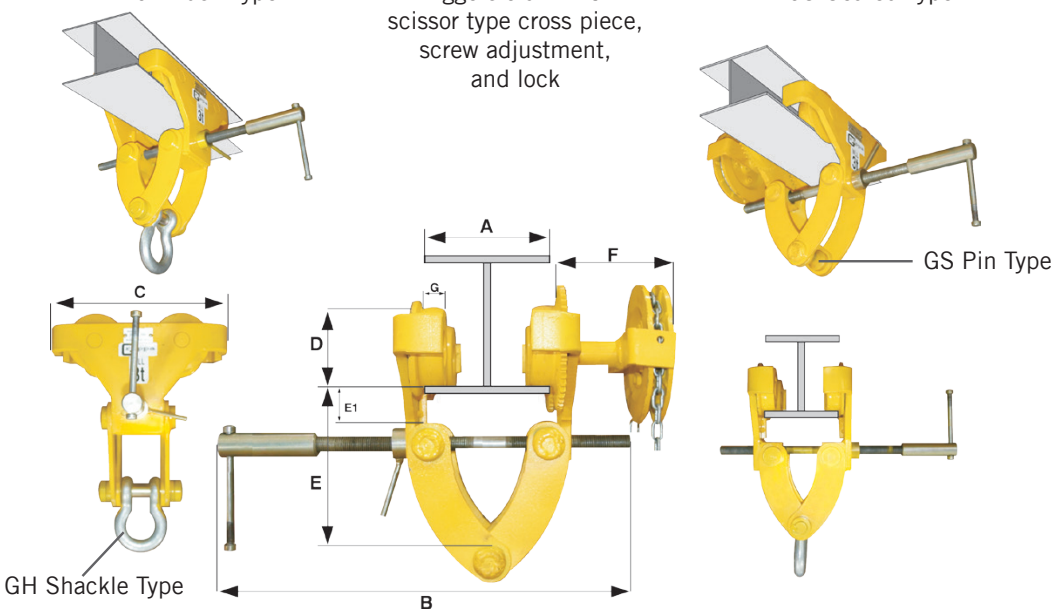
Quick Adjust Rigger Style Beam Crawls

ELEPHANT LIFTING PRODUCTS™

R-ADJP Push Type

Riggers crawl with scissor type cross piece, screw adjustment, and lock

R-ADJG Geared Type



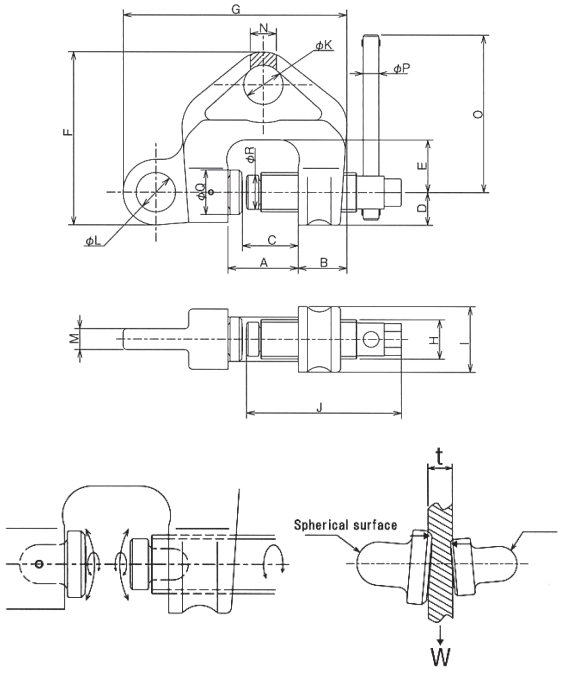
SPECIFICATIONS & DIMENSIONS - GRIPPA - QUICK ADJUST RIGGER STYLE BEAM CRAWLS												
S.W.L. (mt)	1		2		3		5		6		8	
S.W.L. (ton)	1.1		2.2		3.3		5.5		6.6		8.8	
TYPE	GS	GH	GS	GH	GS	GH	GS	GH	GS	GH	GS	GH
DIMENSIONS (in)												
"A" BEAM WIDTH RANGE	2.76-10.63		2.95-10.63		4.13-11.81		4.33-11.81		4.33-11.81		4.72-13.7	
"B" OVERALL CROSSHEAD WIDTH	20.08		20.47		20.87		22.05		22.05		22.2	
"C" OVERALL LENGTH OF TROLLEY	10.24		12.99		12.99		14.96		14.96		17.7	
"D" RUNNER TREAD DIAMETER	2.56		3.54		3.54		4.33		4.33		4.92	
"E" HEADROOM - RUNNER TREAD TO SUPSENSION PLATE SEAT	9	11.02-8.27	7.48-4.72	11.02-8.27	9.06-6.69	13.39-10.63	9.84-6.69	14.17-11.02	9.84-6.69	14.17-11.02	12.2-9.4	18.1-15.3
"E1" HEADROOM - RUNNER TREAD TO TOP OF CROSS BOLT ASSY.	1.97		1.38		2.56		2.76		2.76		3.14	
"F" EDGE OF RUNNER - FLANGE TO OUTSIDE OF CHAIN WHEEL	5.51		5.51		5.71		5.71		5.71		7.87	
"G" THREAD WIDTH	0.75		0.8		0.98		1.18		1.18		1.37	
MINIMUM RADIUS OF TRACK CURVE (ft)	4.92		4.98		4.92		5.91		5.91		6.56	
WEIGHT (lbs)	27		43		57		84		84		150	

Beam & Girder Clamps

Double Cam Lock Screw Type Clamp
Clamp Omnidirectional

ELEPHANT LIFTING PRODUCTS™





SPECIFICATIONS - WF SCREW TYPE CLAMP				
Model	Capacity (t)	Min. Capacity (t)	Jaw Opening (in)	Weight (lbs)
WF-0.5	0.5	0.05	.003-1.10	3.7
WF-1	1.0	0.1	.003-1.57	6.4
WF-2	2.0	0.2	.003-1.77	11.7
WF-3	3.0	0.3	.24-1.93	15.8
WF-5	5.0	0.5	.35-2.08	23.4

DIMENSIONS - WF SCREW TYPE CLAMP																		
Model	A	B	C	D	E	F	G	H	I	J	ø K	ø L	M	N	O	ø P	ø Q	ø R
WF-0.5	1.61	1.26	1.20	0.83	1.30	4.25	5.43	0.94	1.65	3.86	0.98	0.98	0.47	0.63	4.72	0.39	1.02	0.83
WF-1	2.11	1.50	1.67	0.98	1.57	5.20	6.77	1.18	1.97	4.65	1.18	1.18	0.63	0.79	4.72	0.47	1.34	1.42
WF-2	2.36	1.77	1.87	1.22	1.61	6.18	7.95	1.42	2.44	4.96	1.38	1.38	0.87	1.10	5.91	0.47	1.42	1.14
WF-3	2.58	2.05	2.03	1.38	2.17	6.69	9.06	1.65	2.76	5.47	1.65	1.65	1.10	1.30	6.30	0.47	1.57	1.42
WF-5	2.80	2.24	2.19	1.50	1.81	7.36	9.76	1.89	2.95	5.39	1.81	1.81	1.50	1.57	7.09	0.47	1.61	1.42

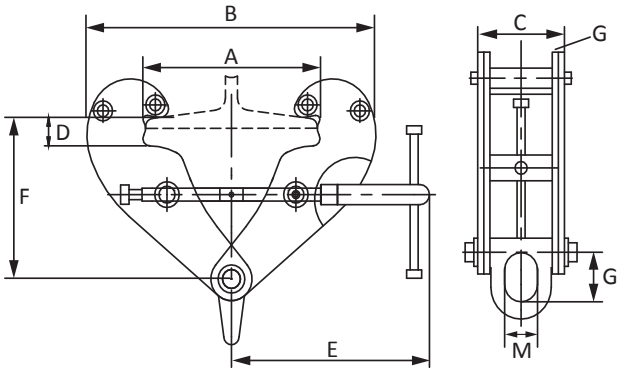
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Beam & Girder Clamps

Eye Beam Clamp

ELEPHANT LIFTING PRODUCTS™





The eye beam clamp can be used as an anchor for various applications and for any type of construction. The zinc plated clamp screw assembly allows for easy adjustment of the clamp. This clamp features metric capacities that range from 1, 2, 3, 5, and 10 tons.

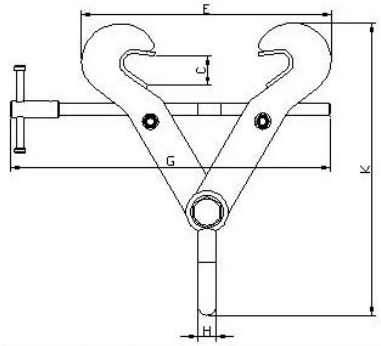
SPECIFICATIONS & DIMENSIONS - EYE BEAM CLAMP						
Model		EBC-1	EBC-2	EBC-3	EBC-5	EBC-10
S.W.L.	(lbs)	2200	4400	6600	11000	22000
S.W.L.	US ton	1.1	2.2	3.3	5.5	11
Weight	(lbs)	11	12	24	28	45
Dimensions (in)	A	3.1-9.6	3.1-9.6	3.5-12.2	3.5-12.2	3.5-11.8
	B	7.2-14.7	7.2-14.7	9.4-20.4	9.4-20.4	9.4-20.4
	C	2.6	2.9	4.1	4.4	4.7
	D	0.7	0.7	1.1	1.1	1.1
	E	8.3	8.3	10.2	10.2	11
	F	4-6.4	4-6.4	5.3-8.8	5.3-8.8	6.2-9
	G	0.98	0.98	1.77	1.77	1.97
	M	1.10	1.1	1.7	1.7	2.3

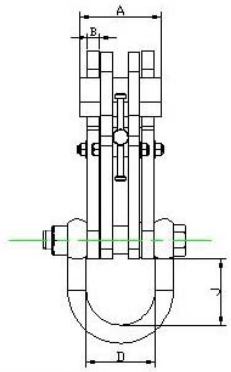
Beam & Girder Clamps

Jumbo Beam

ELEPHANT LIFTING PRODUCTS™







The Jumbo Beam Clamp is a great option for rigging applications. This clamp line features a wide jaw opening for wide flange beams used throughout industry. The JBC's clamp screw assembly is also zinc plated. This clamp series features metric capacities that range from 3, 5, 6, 10 and 16 tons.

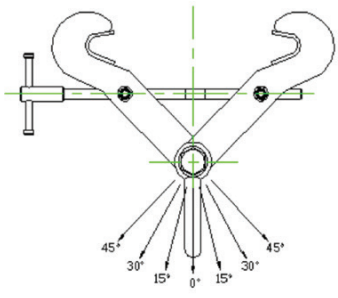
SPECIFICATIONS & DIMENSIONS - JUMBO BEAM CLAMP

Type	S.W.L. (lbs.)	S.W.L. US Ton	Beam Width (inch)	Dimensions (inch)									Jaw Type	Weight (lbs)
				A	B	C	D	E max	G	H	J	K min		
JBC-3A	6600	3.3	3.00-7.48	5.12	0.55	1.06	4.21	10.71	10.87	0.79	3.35	10.00	Fixed	18
JBC-5A	11000	5.5	6.00-12.00	5.50	0.55	1.81	4.80	17.72	16.10	0.98	3.90	12.56	Fixed	33
JBC-5B	11000	5.5	3.00-7.48	5.50	0.55	1.81	4.80	13.39	13.35	0.98	3.90	12.99	Fixed	22
JBC-6	13200	6.6	8.00-18.00	6.60	0.55	2.17	4.57	23.62	22.01	0.98	3.90	16.46	Fixed	42
JBC-10	22000	11	8.00-18.00	5.51	0.79	2.17	4.69	23.62	22.01	1.26	3.90	16.46	Fixed	62
JBC-16A	35000	17.6	16.00-24.00	6.89	0.79	3.00	5.12	24.02	31.89	1.77	7.87	25.75	Fixed	135
JBC-16B	35000	17.6	8.00-18.00	6.89	0.79	3.00	5.12	17.99	25.98	1.77	7.87	22.60	Fixed	119

SIDE LOAD ACROSS BEAM ONLY - CLAMP MUST BE FLUSH ON BEAM WITH SHACKLE AT A ZERO DEGREE DOWNWARD FACING ANGLE

Chart only applies to overhead beam attachment. If clamps are being used to lift beams, this information is not applicable. Table applies to the listed models only. Stress calculations should be performed by the end user's engineering dep.

Reduction in working load limit when side loads are applied				
Angle from vertical (degree)	0	0 to 15	15 to 30	30 to 45
Reduction Factor	NIL	17.00%	34.00%	50.00%
Model	WLL	WLL	WLL	WLL
JBC-3A	3 ton	2.5 ton	2 ton	1.5 ton
JBC-5A	5 ton	4.1 ton	3.3 ton	2.5 ton
JBC-6	6 ton	5 ton	4 ton	3 ton
JBC-10	10 ton	8.3 ton	6.6 ton	5 ton



* Warning: Clamps must be installed properly and fully tightened

* Always contact the manufacturer when in doubt

Beam & Girder Clamps

Monorail Construction & Adjustable Rail Lifting

ELEPHANT LIFTING PRODUCTS™





90° FIXED POSITION
MODEL FDE

MODEL	S.W.L. (kg)	S.W.L. (lbs)	WEIGHT (lbs)
FDE2	2000	4400	31
FDE3	3000	6600	46
FDE5	5000	11 000	84

ADJUSTABLE RADIAL AND HEIGHT POSITION
MODEL ADE

MODEL	S.W.L. (kg)	S.W.L. (lbs)	WEIGHT (lbs)
ADE2	2000	4400	29
ADE3	3000	6600	45
ADE5	5000	11 000	80

Conforms to CSIR tests: Endurance Test 60,000 Cycles at 1.5 x SWL and Factor of Safety Min 4 x SWL





*****SUITABLE FOR MOST RAIL SIZES*****

RAIL CLAMPS SHOULD BE USED IN PAIRS

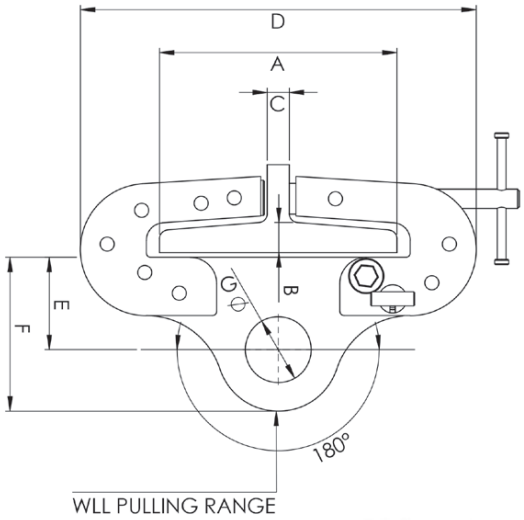
MODEL	S.W.L. (kg)	S.W.L. (lbs)	APERTURE	WIDTH	HOLE "C"	WEIGHT (lbs)
GCRC3	3000	6600	DIMENSIONS SAME AS MODELS GS/GH + 2T UNIT			17

Conforms to CSIR tests: Endurance Test 60,000 Cycles at 1.5 x SWL and Factor of Safety Min 4 x SWL

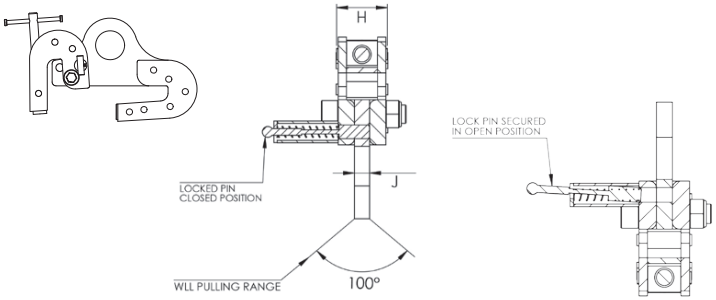
Beam & Girder Clamps
Universal Grippa

ELEPHANT
LIFTING PRODUCTS™





- Designed for vertical & side load applications at full rated capacity
- Developed for lifting, pulling, and as an anchor point
- The raised eye design allows for a full 90° side pull from both sides
- Low headroom concept
- Can be rated for personnel tie-off, upon request



SPECIFICATIONS & DIMENSIONS - UNIVERSAL GRIPPA CLAMP													
MODEL	S.W.L. (t)	S.W.L. (Ton)	APERTURE (in)			D	E	F	Ø G	H	J	Max Beam Flange Thickness (in)	WEIGHT (lbs)
			"A"	"B"	"C"								
UGC-2	2	2.2	9.8	1.4	0.9	15.4	4.1	6.0	2.0	2.4	0.7	1.4	38
UGC-3	3	3.3	11.8	1.4	1.1	17.3	4.1	6.9	3.0	2.7	0.9	1.4	45
UGC-4	4	4.4	11.8	1.4	1.1	17.3	4.72	7.8	3.0	2.7	0.9	1.4	53
UGC-5	5	5.5	16.9	1.6	1.3	24.2	5.1	8.1	3.0	3.3	1.0	1.6	94
UGC-10	10	11	18.1	1.8	1.4	26.0	5.1	9.4	4.7	3.3	1.2	1.8	117
UGC-20	20	22	20.5	1.8	1.6	27.6	5.1	10.2	4.7	3.7	1.6	1.8	145

If the end user is solely using the clamp for hanging vertical loads under a beam, then a standard girder clamp is recommended. Reasoning is that in the event of a shock load, the UGC could slide into the radius of the web, potentially causing damage to the clamp heads and the beam.

Manual Chain Hoists
Lever Hoists, LB-Series

HARRINGTON
HOISTS AND CRANES

3/4, 1, 11/2, 2, 2 3/4, 3, 6, and 9 Ton capacity

The LB Series of lever hoists offers a low headroom, compact design that is perfect for use in tight quarters. Regarded as the best lever hoist in the industry, our LB is recommended for use in heavy-duty construction work, mining, manufacturing, shipbuilding and day-to-day maintenance and repair.

Many Benefits From More Features:

- Rugged, all-steel construction that actually weighs less than comparable aluminum models.
- Get positive braking action with Weston-style load brake incorporating two moisture-resistant brake pads with four braking surfaces. Includes two brake pawls for additional reliability.
- Enjoy protection against dirt and moisture with a totally enclosed brake mechanism.
- Ensure long life with machined, heat-treated, split load double reduction gears.
- Operate in close quarters with short steel handle and 15-degree recovery strokes.
- Patented spring-loaded freewheel mechanism permits easy adjustment of the load chain and safeguards against accidental freewheeling under load.
- Equipped with standard rubber grip for non-slip operation.

Options: (See page 29)

- Load limit warning handle
- Top hook extender
- Point load hook
- Slip clutch
- Inspection hook
- Bullard® and Shur-Loc® hooks

Capabilities To Count On:

- 5-foot lift is standard, 10-, 15- and 20-foot lifts also stocked; nonstandard lifts available as well.
- Grade 100 heat-treated load chain is nickel plated for corrosion resistance.
- Forged and heat-treated alloy steel hooks open slowly without fracturing under excessive loads. Top and bottom hooks rotate 360°.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.21 requirements.



LB with Standard Handle

LB with Optional Load Limit Warning Handle

Manual Chain Hoists

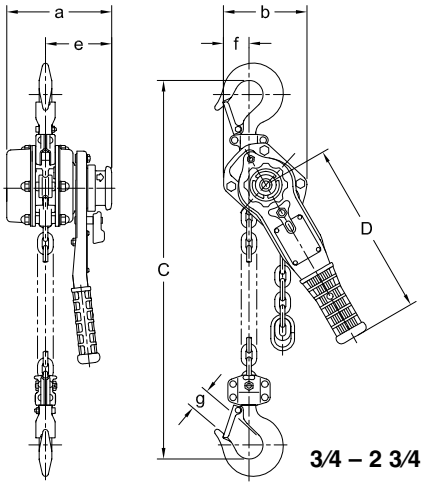
Lever Hoists, LB-Series

HARRINGTON
HOISTS AND CRANES

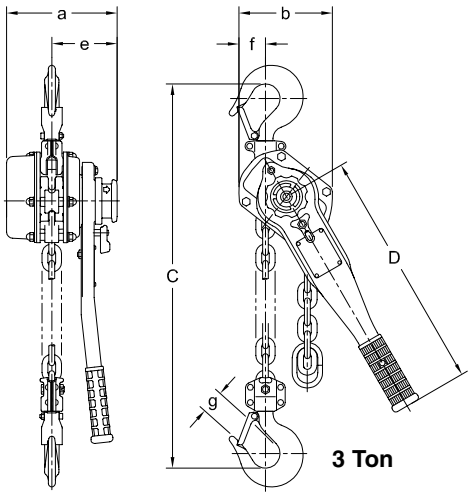
LB LEVER HOIST — SPECIFICATIONS & DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	Std. Lift (ft)	Pull to Lift Load* (lbs)	a (in)	b (in)	D* (in)	e (in)	f (in)	g (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Additional One Foot of Lift (lbs)
3/4	LB008	11.0	5	54 (36)	5.7	4.7	9.6 (14.4)	3.8	1.6	0.9	5.6 x 1	13	13	0.5
1	LB010	11.8		72 (46)						1.1		13	14	
1 1/2	LB015	13.2		64 (45)	6.3	5.0	10.4 (14.4)	3.9	1.5	1.3	7.1 x 1	18	18	0.7
2	LB020	14.8		59 (42)	6.8	5.9		4.0	1.8	1.4	8.8 x 1	25	26	1.1
2 3/4	LB028			81 (57)										
3	LB030	15.6		69	7.5	6.3	16.3 (16.9)	4.4		1.5	10.0 x 1	33	35	1.5
6	LB060	21.3		72		8.5			2.3	2.0	10.0 x 2	57	60	3.2
9	LB090	26.8		78		12.0			4.1	2.9	10.0 x 3	88	93	4.7

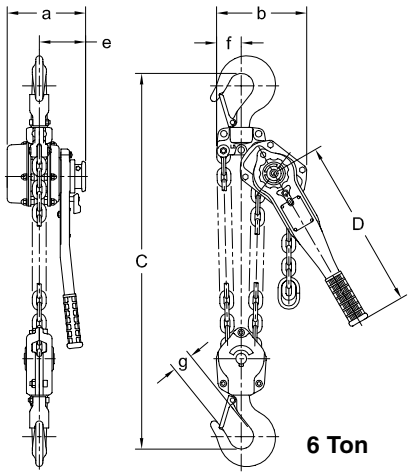
*Figures in parentheses are for hoists with the optional load limit warning handle.



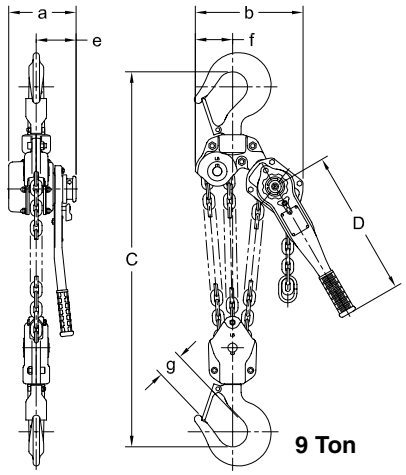
3/4 – 2 3/4 Ton



3 Ton



6 Ton



9 Ton

LB Lever Hoist

Manual Chain Hoists

Lever Hoists, LX-Series, Mini

HARRINGTON
HOISTS AND CRANES

1/4 and 1/2 Ton Capacities

Harrington's LX mini puller is lightweight, compact and built to perform. It fits conveniently in a toolbox and will easily handle pulling and moving jobs in many applications including transportation, construction and plumbing. Available in two capacities to fit all applications. The 1/2 Ton capacity is unique to the industry.

Many Benefits From More Features:

- Durable die-cast aluminum body with steel frame is compact and lightweight.
- Very low headroom design for use in tight spaces.
- Free-chain mechanism allows for quick adjustments.
- Extremely low pulling force is required for operation.
- Weston-style brake is totally enclosed to protect against dirt, dust and rain.
- Single step reduction gear assures load holding performance.
- Load chain guide mechanism permits smooth and quiet guiding of chain.
- Rubber handle grip for ease of use.
- Effortless to transport, install and store.

Options: (See page 30)

- Heavy duty carrying case

Capabilities To Count On:

- Grade 100, nickel-plated load chain is corrosion and wear resistant.
- Strong hook latches include notched tip.
- 5-foot lift is standard. Longer lifts are available in both capacities.
- Sold individually or in convenient multi-packs—1/4 Ton in 6-packs and 1/2 Ton in 4-packs.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity in accordance with ASME B30.21 requirements.



1/4 Ton



1/2 Ton

Manual Chain Hoists

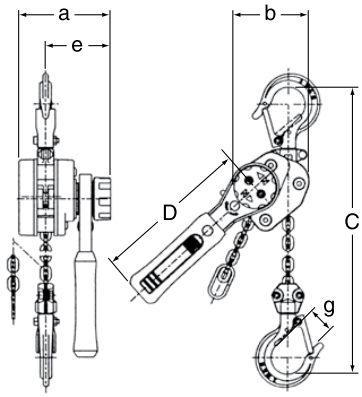
Lever Hoists, LX-Series, Mini

HARRINGTON
HOISTS AND CRANES

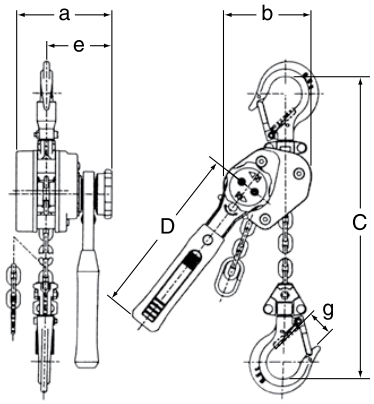
LX LEVER PULLER — SPECIFICATIONS & DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	Std. Lift (ft)	Pull to Lift Load (lbs)	a (in)	b (in)	D (in)	e (in)	g (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Additional One Foot of Lift (lbs)
1/4	LX003	8.1	5	40	3.5	2.9	5.9	2.4	0.8	3.2 x 1	3.5	4.0	0.15
1/2	LX005	9.7		62	3.9	3.7	7.1	2.7	0.9	4.3 x 1	5.7	6.2	0.25

Weights are approximate.



1/4 Ton LX



1/2 Ton LX

Manual Chain Hoists
Chainfalls, CF-Series

HARRINGTON
HOISTS AND CRANES

1/2 through 5 Ton capacity

Harrington CF hand chain hoists give you a practical alternative thanks to an economical design using fewer parts for trouble-free service. Outstanding durability is due to a die-cast aluminum body and high-strength, heat-treated main pinion shaft and load gear. Pre-lubricated ball bearings, precision machined gears, and Weston-style load brake make lifting smooth and easy while allowing long service and low maintenance.

Many Benefits From More Features:

- Experience exceptional strength with a thick die-cast aluminum body.
- Handle tough demands with high-strength, heat-treated main pinion shaft and load gear.
- Get positive braking action with Weston-style load brake incorporating two moisture-resistant brake pads with four braking surfaces.
- Minimize manual effort thanks to smooth running, pre-lubricated ball bearings, and precision machined drive train components.
- Simplify maintenance with fewer parts and an easy-to-work-on design.

Capabilities To Count On:

- 10-foot lift is standard, 15- and 20-foot lifts are also stocked; nonstandard lifts and hand chain drops available as well.
- Grade 100 heat-treated manganese alloy load chain resists abrasion and wear while minimizing chain weight.
- Forged and heat-treated alloy steel hooks are designed to open slowly and not fracture under excessive loads.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.16 requirements.

Options: (See Pages 28-29)

- Chain container
- Corrosion-resistant chain
- Inspection hook

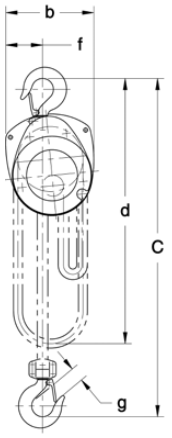


Manual Chain Hoists
Chainfalls, CF-Series

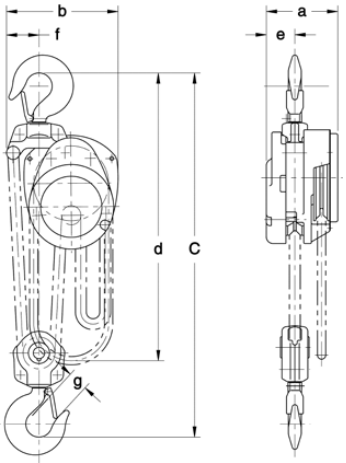
HARRINGTON
HOISTS AND CRANES

CF HAND CHAIN HOIST — DIMENSIONS

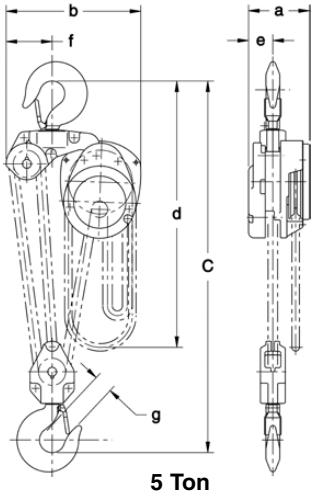
Cap. (Tons)	Product Code	a (in)	b (in)	d (ft)	e (in)	f (in)	g (in)
1/2	CF005	5.4	5.9	10	2.0	2.4	1.1
1	CF010	5.8	6.9		2.3	2.9	
1 1/2	CF015	6.0	8.0		2.4	3.4	1.3
2	CF020	5.8			2.3	2.3	1.4
3	CF030	6.0	9.4		2.4	2.7	1.7
5	CF050		13.5			4.5	1.8



1/2 – 1 1/2 Ton



2 – 3 Ton



5 Ton

CF HAND CHAIN HOIST — SPECIFICATIONS

Cap. (Tons)	Product Code	Headroom C (in)	Std. Lift (ft)	Pull to Lift Load (lbs)	Overhaul Ratio	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Additional One Foot of Lift (lbs)
1/2	CF005	12.8	10	60	19	5.0 x 1	24	26	1.0
1	CF010	14.6		72	31	6.3 x 1	29	31	1.2
1 1/2	CF015	17.3		84	41	7.1 x 1	40	42	1.4
2	CF020	20.1		80	63	6.3 x 2	47	49	1.8
3	CF030	23.2		92	81	7.1 x 2	62	66	2.1
5	CF050	24.4			134	7.1 x 3	82	86	2.9

Please Note: Special lengths of load and hand chain available upon request.
Weights are approximate.

CF Hand Chain Hoist

Manual Chain Hoists

Chainfalls, CB-Series With Slip Clutch

HARRINGTON
HOISTS AND CRANES

1/2 through 100 Ton capacity

Harrington CB hand chain hoists combine a rugged exterior shell with machined interior components to handle your most demanding lifting operations. An efficient drive train minimizes manual effort, while double enclosed brake cover, standard slip clutch, and double pawl springs enhance performance and reliability.

Many Benefits From More Features:

- Experience exceptional durability thanks to all-steel construction featuring rugged gear case enclosure and handwheel cover.
- Enjoy increased lifting height thanks to low headroom.
- Compact design results in lightweight and easy portability.
- Minimize manual effort thanks to efficient drive train.
- Standard slip clutch device prevents the hoist from being used to lift damaging loads beyond rated capacity.
- Double pawl springs provide redundancy for reliable operation of brake mechanism.
- Get reliable braking with double enclosed brake cover that keeps out dust, rain, and dirt.

Options:

- Chain container
- Corrosion-resistant chain
- Inspection hook

Capabilities To Count On:

- 8-foot standard lift (12-foot for 10 Ton and greater), nonstandard lifts and hand chain drops are also available.
- Grade 100 heat-treated manganese alloy load chain resists abrasion and wear while minimizing chain weight.
- Forged and heat-treated alloy steel hooks are designed to open slowly, without fracturing under excessive loads.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.16 requirements.



CB HAND CHAIN HOIST — SPECIFICATIONS

Cap. (Tons)	Product Code	Headroom C (in)	Std. Lift (ft)	Pull to Lift Load (lbs)	Overhaul Ratio	Load Chain Dia. (mm) x Chain Fall Lines	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Additional One Foot of Lift (lbs)
1/2	CB005	11.2	8	48	25	5.0 x 1	22	23	1.0
1	CB010	11.6		58	43	6.3 x 1	25	26	1.2
1 1/2	CB015	13.8		70	57	7.1 x 1	32	33	1.4
2	CB020	14.8		72	70	8.0 x 1	41	43	1.6
2 1/2	CB025	16.5		66	99	9.0 x 1	56	58	1.8
3	CB030	20.1		72	114	7.1 x 2	49	53	2.1
5	CB050	23.6		68	198	9.0 x 2	85	89	3.0
8	CB080	30.3		75	297	9.0 x 3	124	131	4.2
10	CB100	29.9	12	72	396	9.0 x 4	186	203	5.5
15	CB150	40.2		74	594	9.0 x 6	346	368	7.9
20	CB200	46.5		72 x 2	396 x 2	9.0 x 8	524	678	10.9
30	CB300	51.2		86 x 2	495 x 2	9.0 x 10	690	889	13.3
40	CB400	58.3			693 x 2	9.0 x 14	1068	1398	18.2
50	CB500	61.4		98 x 2	792 x 2	9.0 x 16	1422	1752	20.6
80	CB800	100.8		86 x 4	693 x 4	9.0 x 28	3392	—	36.3
100	CB1000	125.2		98 x 4	792 x 4	9.0 x 32	6525		41.2

Please Note: Special lengths of load and hand chain available upon request.
Weights are approximate.

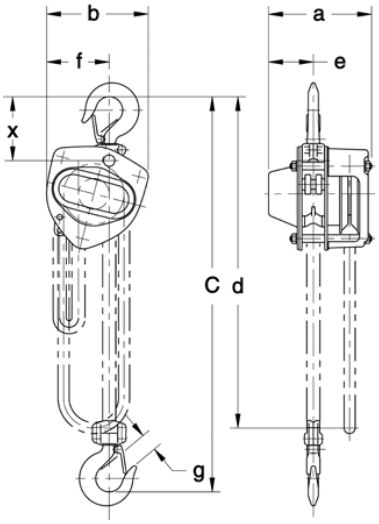
CB HAND CHAIN HOIST — DIMENSIONS

Cap. (Tons)	Product Code	a (in)	b (in)	d (ft)	e (in)	f (in)	g (in)	x (in)
1/2	CB005	6.2	6.3	8.0	2.7	3.9	1.1	3.5
1	CB010	6.4			2.8			4.0
1 1/2	CB015	6.7	7.2		3.1	4.4	1.3	4.7
2	CB020	7.2	8.0		3.4	4.9	1.4	4.9
2 1/2	CB025	7.6	9.2		3.6	5.6	1.6	5.4
3	CB030	6.7	9.3	8.3	3.1	6.4	1.7	5.8
5	CB050	7.6	11.1	10.0	3.6	7.6	1.8	6.8
8	CB080		14.7	10.3		10.0	2.9	10.8
10	CB100		17.2	14.9	4.4	12.1		11.6
15	CB150	10.6	19.4	15.9	4.7	13.3	3.1	12.6
20	CB200	14.7	29.4	16.3	7.4	14.7	3.2	13.8
30	CB300	15.9			8.0		4.1	15.7
40	CB400	19.8	29.9	16.6	9.9	15.0		17.5
50	CB500	21.4	31.3		10.7	15.7	4.4	18.4
80	CB800	29.9	55.2	15.9	13.8	27.6	5.1	—
100	CB1000	31.3	56.9	14.6	15.7	28.4	7.3	

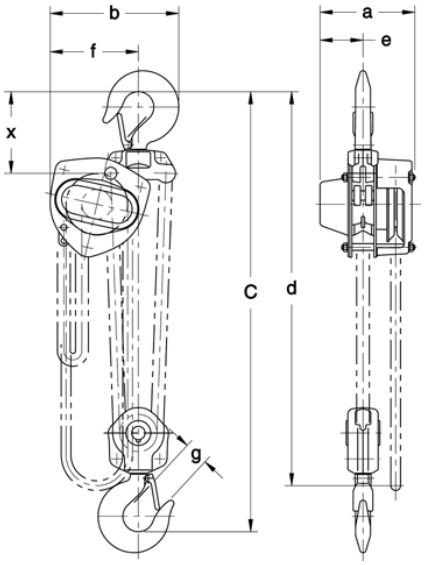
Manual Chain Hoists

Chainfalls, CB Series

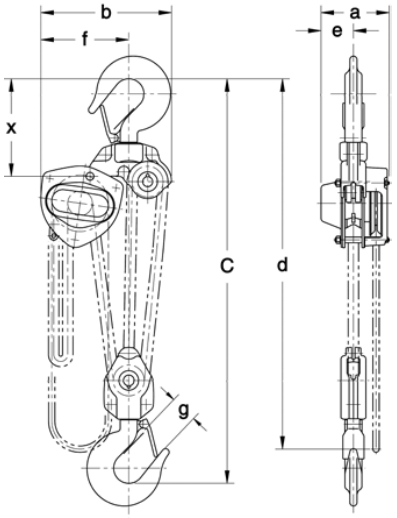
HARRINGTON HOISTS AND CRANES



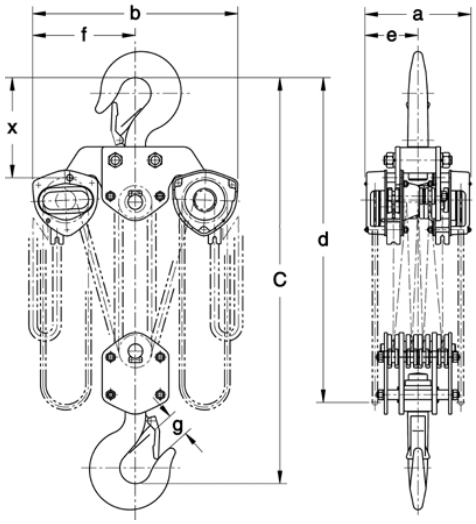
1/2 – 2 1/2 Ton



3 – 5 Ton



8 – 15 Ton



20 – 100 Ton

CB Hand Chain Hoist

Manual Chain Hoists

Chainfalls, CX-Series, Mini

HARRINGTON HOISTS AND CRANES

1/4 and 1/2 Ton Capacity

Harrington's CX mini hand chain hoist is the world's smallest industrial hoist. This uniquely compact and lightweight hoist is the perfect choice for jobs with light loads in high or difficult to reach places such as duct installation, plumbing and heating, home automobile maintenance and crane repair.

Many Benefits from More Features:

- Unique design is extremely compact and lightweight
- Aluminum body with steel frame provides superior strength.
- Load limiter prevents the hoist from being used to lift damaging loads beyond rated capacity.
- Very low force is required to lift load.
- Metal chain guide allows smooth operation.
- Effortless to transport, install and store.

Capabilities to Count On:

- Grade 100, nickel-plated load chain is corrosion and wear resistant.
- Strong hook latches include safety tip.
- 10-foot lift is standard, 20-foot lift is also stocked; nonstandard lifts and hand chain drops are also available.
- Sold individually or in convenient 4-packs.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity in accordance with ASME B30.16 requirements.



1/4 Ton

Manual Chain Hoists

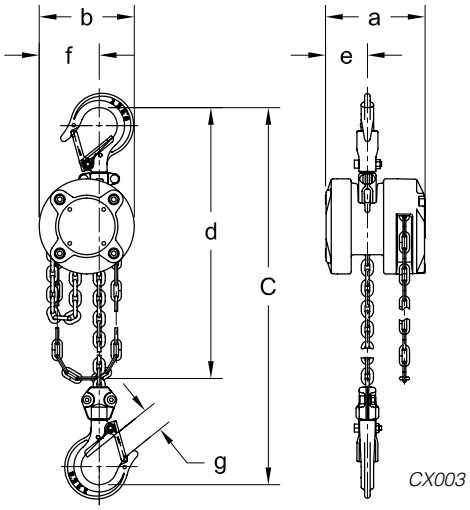
Chainfalls, CX-Series, Mini

HARRINGTON
HOISTS AND CRANES

CX MINI HAND CHAIN HOIST — SPECIFICATIONS & DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	Std. Lift (ft)	Pull to Lift Load (lbs)	Over-haul Ratio	a (in)	b (in)	d (ft)	e (in)	f (in)	g (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Shipping Weight Approx. (lbs)	Weight for Additional One Foot of Lift (lbs)
1/4	CX003	8.5	10	33	34	3.5	3.3	6.8	1.5	2.1	0.8	3.2 x 1	7.0	7.0	0.3
1/4	CX003	8.5	20	33	34	3.5	3.3	16.6	1.5	2.1	0.8	3.2 x 1	9.0	9.0	0.3
1/2	CX005	10.2	10	42	43	4.0	4.0	6.8	1.7	2.6	1.0	4.3 x 1	10	10.6	0.6
1/2	CX005	10.2	20	42	43	4.0	4.0	16.6	1.7	2.6	1.0	4.3x 1	16	16.4	0.6

Weights are approximate.



1/4 Ton CX

Manual Chain Hoists
NTH-Series

HARRINGTON
HOISTS AND CRANES

Harrington's NTH low headroom trolley hoist combines economical, trouble-free CF hoist performance with the space savings of an integral trolley. The NTH is ideal for applications requiring a low headroom hoist and trolley combination. Both push and geared trolley versions are available to best suit your application.

Many Benefits From More Features:

- Lift the load in tight quarters thanks to low headroom profile.
- Get the features, benefits, and capabilities of Harrington's CF hand chain hoist.
- Trolley moves smoothly on cast-iron flanged wheels equipped with sealed, lubed-for-life ball bearings.
- Easily adjust trolley to fit a wide variety of beam flange widths.

Capabilities To Count On:

- 10-foot lift is standard; nonstandard lifts and hand chain drops are also available.
- Trolley available in plain or geared models.
- Trolley wheels accommodate tapered or flat-flanged beams.
- Grade 100 heat-treated manganese alloy load chain resists abrasion and wear while minimizing chain weight.
- Forged and heat-treated alloy steel hooks are designed to open slowly and not fracture under excessive loads.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.16 requirements.

Options: (See pages 28–29)

- Chain container
- Corrosion-resistant chain
- Inspection hook

Also available—patented track applications; consult factory for details.

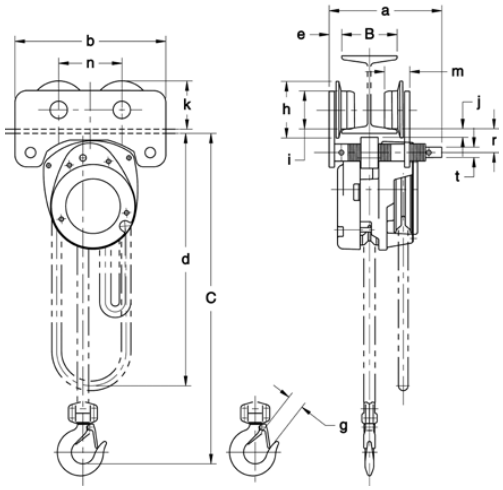


Manual Chain Hoists
NTH-Series

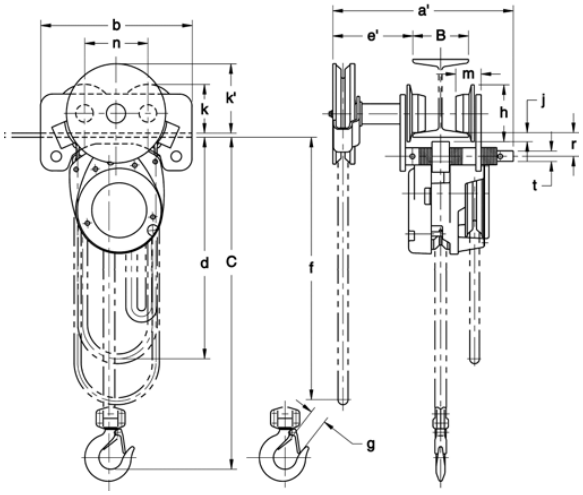
HARRINGTON HOISTS AND CRANES

NTH LOW HEADROOM TROLLEY HOIST — DIMENSIONS

Cap. (Tons)	a (in)	a' (in)	b (in)	d (ft)	e (in)	e' (in)	f (ft)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)
1	8.1	12.9	10.9		1.0	5.9		1.1	4.2	2.80	0.8	3.5	4.4	1.9	4.6	1.9	0.75
2	9.3	14.0	13.8	10.0	1.2	6.0	10.4	1.4	5.0	3.35		4.2	4.7	2.3	5.4	2.3	1.00
3	9.9	14.5	15.6		1.3	5.9	10.8	1.7	5.8	3.94	0.9	4.9	5.0	2.4	6.2	2.4	1.13
5	11.2	15.8	18.3	10.6	1.5	6.2	11.3	1.8	6.7	4.65	1.0	5.6	5.1	3.0	7.0	2.9	1.63



NTH (Push Trolley Model)



G-NTH (Geared Trolley Model)

NTH LOW HEADROOM TROLLEY HOIST — SPECIFICATIONS

Cap. (Tons)	Product Code: Push Trolley	Product Code: Geared Trolley	Head room C (in)	Std. Lift (ft)	Pull to Lift Load (lbs)	Overhaul Ratio	Min. Radius for Curve (in)	Flange Range B (in)*	Load Chain Dia. (mm) x Chain Fall Lines	Push: Net Weight (lbs)	Push: Shipping Weight (lbs)	Push: Weight for Additional One Foot of Lift (lbs)	Geared: Net Weight (lbs)	Geared: Shipping Weight (lbs)	Geared: Weight for Additional One Foot of Lift (lbs)
1	NTH010	G-NTH010	12.5	10	72	31	39	2.32–5.16	6.3 x 1	62	65	1.2	73	78	1.8
2	NTH020	G-NTH020	16.5		80	63	47	3.72–5.97	6.3 x 2	92	97	1.8	103	110	2.4
3	NTH030	G-NTH030	19.0		92	81	59	3.62–6.26	7.1 x 2	125	133	2.1	136	177	2.8
5	NTH050	G-NTH050	20.3			134	79	5.12–7.11	7.1 x 3	188	200	2.9	199	240	3.5

Please Note: Special lengths of load and hand chain available upon request.
**Other beam widths available. Consult factory.*
Weights are approximate.

Beam Trolley
Push & Geared Trolleys

HARRINGTON
HOISTS AND CRANES

Push trolley capacities from 1/2 through 10 Ton
Geared trolley capacities from 1/2 through 20 Ton

Harrington push and geared trolleys help you maneuver easily on your most demanding lifting operations. They feature specially designed contoured wheels that ensure reliable tracking, and their sealed ball bearings avoid maintenance hassles and provide smooth operation.

Many Benefits From More Features:

- Get sure trolley tracking with specially designed contoured wheels that fit both tapered and flat-flange beams.
- Maintenance-free, sealed precision ball bearings are lubed-for-life and offer smooth movement, with low friction and long life.
- Get strength and rigidity from a lightweight, compact design.
- Easily adjust trolley to fit a wide variety of beam flange widths.
- Load equalizing suspension distributes the load to all wheels.
- Wide standard flange ranges reduce the need for optional extended shaft kits.
- Match the needs of the job with a variety of trolley hoist suspenders.

Capabilities To Count On:

- Use the economical PT for applications involving longer traversing distances.
- Use the GT for precise load control and shorter traversing distances.
- 1/2 through 3 Ton are supplied with Suspender C, which is suitable for most applications. Alternate suspenders may be required for your application—see trolley hoist suspenders on page 26.
- Geared trolleys of larger capacities are available. Please consult factory for details.



PT Push Trolley


GT Geared Trolley

Beam Trolley

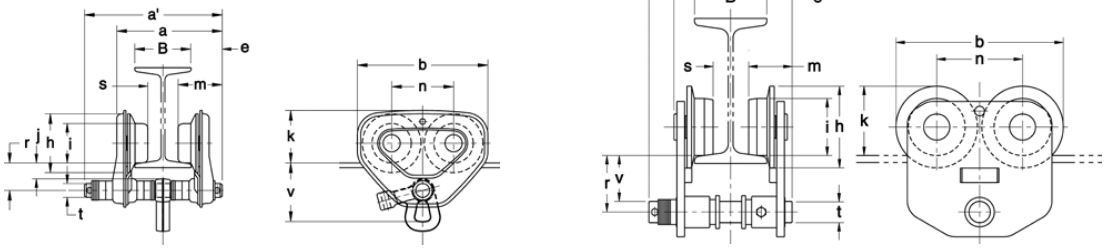
Push & Geared Trolleys

HARRINGTON
HOISTS AND CRANES

PT PUSH TROLLEY — SPECIFICATIONS & DIMENSIONS

Cap. (Tons)	Product Code	Min. Radius for Curve (in)	Flange Width Adjustability B (in)		a max (in)	a' (in)	b (in)	e (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	s (in)	t (in)	v (in)	Net Weight (lbs)	Shipping Weight (lbs)
			Standard	Option																
1/2	PTF2005	13.8	2.28 to 4.00	4.01 to 8.00 or 8.01 to 12.00	6.8	8.0	7.2	1.8	3.2	2.36	0.80	3.0	2.7	3.3	1.5	B-1.8	0.87	3.7	9	9
1	PTF2010	17.7	2.28 to 5.00	5.01 to 8.00 or 8.01 to 12.00	8.5	9.8	9.3	2.2	4.2	2.80	1.1	3.7	3.1	4.4	2.0	B-1.9	0.98	4.2	15	16
1 1/2–2	PTF2020	21.7	3.23 to 6.02	6.03 to 12.00	10.4	11.8	11.0	2.7	5.0	3.35	1.4	4.4	3.8	5.2	2.4	B-2.3	1.26	5.1	29	30
2 1/2–3	PTF2030	25.6			11.0	12.6	12.8	3.1	5.8	3.94		5.3	4.3	6.0	2.7		1.42	6.7	46	47
5	PTF2050	78.7	4.92 to 7.02	7.03 to 12.00	10.7	11.7	13.7	2.1	5.7	4.65	—	5.7	3.6	7.0	4.6	B-3.0	1.73	3.7	95	98
8	PT080	118.1	5.50 to 8.66	8.67 to 12.00	14.4	17.6	18.9	4.1	7.3	6.10		6.7	5.9	7.7	6.0	B-3.6	2.76	4.6	212	254
10	PT100																			

Weights are approximate.



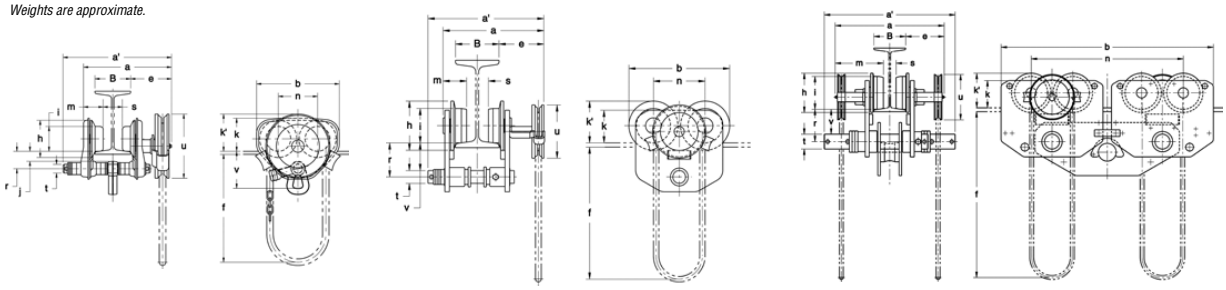
1/2 – 3 Ton

5 – 10 Ton

GT GEARED TROLLEY — SPECIFICATIONS & DIMENSIONS

Cap. (Tons)	Product Code	Min. Radius for Curve (in)	Flange Width Adjustability B (in)		a max (in)	a' (in)	b (in)	e (in)	f* (ft)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	s (in)	t (in)	u (in)	v (in)	Net Weight (lbs)	Shipping Weight (lbs)
			Standard	Option																			
1/2–1	GTF2010	17.7	2.28 to 5.00	5.01 to 8.00 or 8.01 to 12.00	10.8	12.2	9.3	4.6		4.2	2.80	1.1	3.7	4.2	2.2	4.4	2.0	B-1.9	0.98		4.2	24	25
1 1/2–2	GTF2020	21.7	3.23 to 6.02	6.03 to 12.00	13.7	15.2	11.0	6.1	8	5.0	3.35	1.4	4.4	4.3	2.8	5.2	2.4	B-2.3	1.26	7.2	5.1	37	39
2 1/2–3	GTF2030	25.6			14.1	15.7	12.8	6.2		5.8	3.94		5.3	4.5	3.1	6.0	2.7		1.42		6.7	55	57
5	GTF2050	78.7	4.92 to 7.02	7.03 to 12.00	14.8		13.7	6.1		5.7	4.65	—	5.7	5.2	3.2	7.0	4.6	B-3.0	1.73		3.7	104	107
8	GT080	118.1	5.50 to 8.66	8.67 to 12.00	17.4	20.6	18.9	7.0	12	7.3	6.10		6.7	6.5	4.7	7.7	6.0	B-3.6	2.76	8.4	4.6	218	260
10	GT100																						
15	GT150	∞			22.7	21.3	39.8								8.9	28.2	8.0		3.15		6.3	534	615
20	GT200																						

**Longer hand chain drops available upon request.*
Weights are approximate.



1/2 – 3 Ton

5 – 10 Ton

15 – 20 Ton

PT Push Trolley and GT Geared Trolley

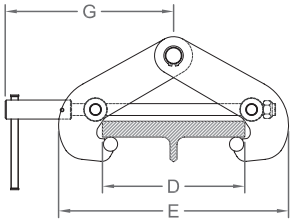
Beam Clamp
Universal

HARRINGTON
HOISTS AND CRANES

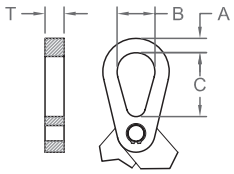
UBC UNIVERSAL BEAM CLAMP — SPECIFICATIONS AND DIMENSIONS

Capacity (Tons)	Product Code	Flange Range D (in)	Max. Beam Flange Thickness (in)	Max. E (in)	F (in)	G (in)	H (in)	J (in)	UBC Suspender Option				Net Weight (lbs)*	Shipping Weight Approx. (lbs)*
									A (in)	B (in)	C (in)	T (in)		
1	UBC010	3.00 to 7.50	0.83	12.25	3.00	9.25	0.88	2.10	0.75	2.00	2.00	0.63	8	10
2	UBC020												9	11
3	UBC030	4.00 to 12.00	1.00	19.75	4.25	11.0	1.25	2.38	1.00	2.50	2.50	1.00	19	22
5	UBC050												22	25
10	UBC100	6.00 to 13.25	1.75	22.50	6.00	14.63	1.75	4.65	1.38	3.75	6.25	1.25	55	60

**The weights listed are for standard universal beam clamps without large suspenders.*



Universal Beam Clamp



UBC Suspender Option









Electric Chain Hoists
NER

HARRINGTON
HOISTS AND CRANES

With Hook and Lug Suspensions



We have added several new features and upgrades to our NER/ER Series of electric chain hoists. These improvements to our high quality, full-featured hoist include the latest technologies making these models absolutely the best electric chain hoists in the market today.

Features and Benefits

UL® Listed**
Certified and listed to UL 1340 "Standard for Hoists."

Easy Access Suspension
External pins allow for quick change from hook to lug for trolley mount configurations on most models.

Green Initiative
Built smarter without the use of harmful materials. Environmentally friendly. RoHS compliant.

Notched Hook and Latch System
Provides positive closing and improves resistance against lateral forces.

Limit Switches
Low-profile upper and lower limit switches are standard.

Extended Chain Life
Decreased chain wear as a result of a revolutionary heat treatment process, improved material and chain size.

High Air Flow
Cooler motor and brake attributed to an engineered motor fin, fan blade and fan cover design.

Unique Load Sheave
Increased number of pockets reduce chain vibration and increase chain life. 5 pockets standard; 6 pockets on smaller body hoists.

Friction Clutch and Load Brake
Friction clutch is standard on NER/ER models and friction clutch with mechanical load brake standard on ER models. Carbon friction material provides consistent performance over a wide temperature range.

Standard Count Hour Meter
Records and displays the number of lowering starts and hoist on time which is valuable for preventive maintenance. Integral to VFD on dual speed models.

Contactors
Mechanically interlocked, heavy-duty contactors on single speed models.

High Strength, Corrosion and Wear Resistant Load Chain
Grade 80, super strength, nickel-plated load chain, certified to DIN standards, uses unique technology to greatly increase resistance to fatigue and wear.

Dual Speed VFD
Under-the-cover VFD standard for dual speed hoists. Speed ratio is 6:1 with adjustability up to 12:1.

"The Guardian": Smart Brake Technology
A current driven electromagnetic brake does not release unless the motor is energized. 10 year hoist brake warranty.

Pendant Controls
Ergonomic design for operator comfort. Red button emergency stop is standard on all 2-button dual speed pendants.

Standard Hoist Specifications

Capacity Range
NER/ER – 1/8 Ton – 5 Ton
(See page 30 for 8 – 20 Ton)

Standard Voltage
208-230 / 460-3-60
Optional voltages available
Dual speed models are not reconnectable

Control Voltage
110V (optional 24V)

Duty Cycle*
Single Speed – 60 Min.
Dual Speed – 30/10 Min. with VFD

Classification*
ASME H4
ISO M5 or M4
FEM 2M or 1Am

Conformance**
UL 1340

Ratings
Hoist – IP55
Pendant – IP65

Upper/Lower Limit Switch
Overwinding / overlifting device
Standard on all models

Chain Falls***
Single chain fall through 3 Ton

Standard Lift
10' (longer lifts available)

Standard Pendant Drop
4' less than lift (longer drops available)

Standard Power Supply Length
15' (longer lengths available)

Mounting
Hook, lug or trolley

Standard Pendants
Single speed: 2-button (momentary contacts)
Dual speed: 2-button (momentary contacts) with emergency On/Off (maintained contacts)

Chain Containers
Optional
Canvas, plastic or steel

Operating Conditions
Recommended for -4° to +104° F and humidity of 85% or less.

NER vs. ER Features
ER model has same high-quality features as NER plus the following:
- Second brake—Weston-style mechanical load brake

**See page 59 for additional information.*
***Most models shipped with UL listing. Contact Customer Service for listed models.*
******The 3 Ton (N)ER030L is the previous hoist model.***

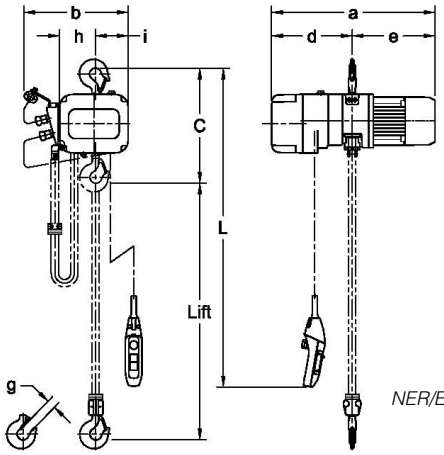
Electric Chain Hoists

NER, Single Speed

HARRINGTON
HOISTS AND CRANES



NER/ER010L
(Shown with optional canvas chain container)



NER/ER010L

SINGLE SPEED — SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V		NER	ER	
1/8	(N)ER001H	10	8.2	55	0.75	3.4	1.7	4.3 x 1	60	62	0.28
1/4	(N)ER003S			36	0.75	3.4	1.7	4.3 x 1	60	62	0.28
1/4	(N)ER003H			53	1.2	4.8	2.5	6.0 x 1	79	82	0.54
1/2	(N)ER005L			15	0.75	3.4	1.7	6.0 x 1	71	79	0.54
1/2	(N)ER005S			29	1.2	4.8	2.5	6.0 x 1	79	82	0.54
1	(N)ER010L			14	1.2	4.8	2.5	7.7 x 1	104	110	0.89
1	(N)ER010S			28	2.4	8.6	4.2	7.7 x 1	119	119	0.89
1 1/2	(N)ER015S			18	2.4	8.6	4.2	10.2 x 1	159	170	1.6
2	(N)ER020C			7	1.2	4.8	2.5	7.7 x 2	130	134	1.8
2	(N)ER020L			14	2.4	8.6	4.2	10.2 x 1	161	174	1.6
2	(N)ER020S			28	4.7	16.4	7.9	10.2 x 1	201	198	1.6
2 1/2	(N)ER025S			22	4.7	16.4	7.9	11.2 x 1	227	225	1.9
3	(N)ER030L*			16	4.7	18.3	9.2	12.5 x 1	256	256	2.3
3	(N)ER030C		9.2	17	4.7	16.4	7.9	10.2 x 2	234	234	3.2
5	(N)ER050L			11	4.7	16.4	7.9	11.2 x 2	289	284	3.8

**The (N)ER030L listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.*

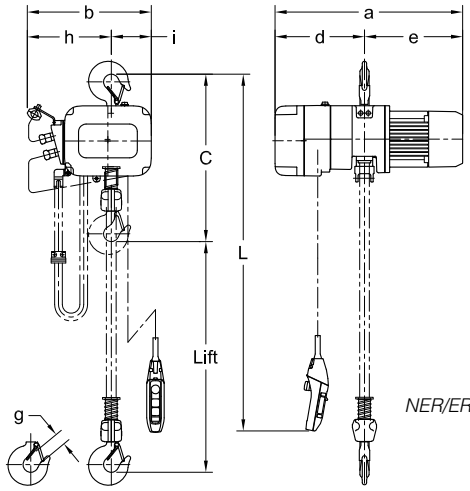
Electric Chain Hoists
NER, Single Speed

HARRINGTON
HOISTS AND CRANES

With Hook and Lug Suspensions



NER/ER020L (Shown with optional canvas chain container)



NER/ER020L

SINGLE SPEED — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)		b (in)		d (in)		e (in)		g (in)	h (in)	i (in)	
			NER	ER	NER	ER	NER	ER	NER	ER			NER	ER
1/8	(N)ER001H	13.8	18.8	22.2	12.6	13.6	8.6	12.0	10.2	10.2	1.1	3.9	3.7	4.6
1/4	(N)ER003S	13.8	18.8	22.2	12.6	13.6	8.6	12.0	10.2	10.2	1.1	3.9	3.7	4.6
1/4	(N)ER003H	14.6	20.0	23.3	13.7	13.7	9.5	12.8	10.5	10.5	1.1	4.4	4.2	4.2
1/2	(N)ER005L	14.6	20.2	23.5	13.7	13.7	9.5	12.8	10.6	10.7	1.1	4.4	4.2	4.2
1/2	(N)ER005S	14.6	20.0	23.3	13.7	13.7	9.5	12.8	10.5	10.5	1.1	4.4	4.2	4.2
1	(N)ER010L	16.9	23.2	24.9	14.8	14.8	11.4	13.1	11.7	11.8	1.2	5.1	4.6	4.6
1	(N)ER010S	16.9	23.5	25.2	14.8	14.8	11.4	13.1	12.1	12.1	1.2	5.1	4.6	4.6
1 1/2	(N)ER015S	20.1	25.4	29.0	16.8	16.8	12.1	15.6	13.3	13.4	1.4	6.3	5.4	5.4
2	(N)ER020C	27.8	23.2	24.9	14.8	14.8	11.4	13.1	11.7	11.8	1.5	7.0	2.7	2.7
2	(N)ER020L	22.6	25.4	29.0	16.8	16.8	12.1	15.6	13.3	13.4	1.6	6.3	5.4	5.4
2	(N)ER020S	23.2	27.6	30.8	16.8	16.8	13.6	16.8	14.0	14.0	1.6	6.3	5.4	5.4
2 1/2	(N)ER025S	24.6	28.9	32.5	17.5	17.5	13.2	16.8	15.7	15.7	1.6	6.9	5.6	5.6
3	(N)ER030L*	26.0	30.9	30.9	18.9	18.9	15.5	15.5	15.5	15.5	1.7	7.2	6.5	6.5
3	(N)ER030C	32.9	27.6	30.8	16.8	16.8	13.6	16.8	14.0	14.0	1.8	8.5	3.2	3.2
5	(N)ER050L	33.5	28.9	32.5	17.5	17.5	13.2	16.8	15.7	15.7	1.9	9.1	3.3	3.3

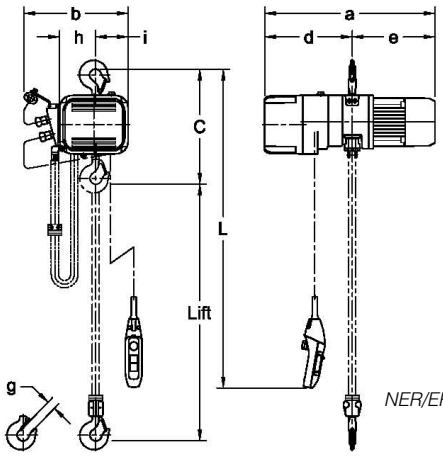
The (N)ER030L listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.

Electric Chain Hoists
NER, Dual Speed

HARRINGTON
HOISTS AND CRANES



NER/ER010LD (Shown with optional canvas chain container)



NER/ER010LD

DUAL SPEED — SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz‡			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps)					
						@208 – 230V	@460V		NER	ER	
1/8	(N)ER001HD	10	8.2	55/9	0.75	3.6	1.8	4.3 x 1	60	64	0.28
1/4	(N)ER003SD			36/6	0.75	3.6	1.8	4.3 x 1	60	64	0.28
1/4	(N)ER003HD			53/9	1.2	5.1	2.7	6.0 x 1	77	82	0.54
1/2	(N)ER005LD			15/2.5	0.75	3.6	1.8	6.0 x 1	68	79	0.54
1/2	(N)ER005SD			29/5	1.2	5.1	2.7	6.0 x 1	77	82	0.54
1	(N)ER010LD			14/2.5	1.2	5.1	2.7	7.7 x 1	99	108	0.89
1	(N)ER010SD			28/4.5	2.4	9.1	4.5	7.7 x 1	115	117	0.89
1 1/2	(N)ER015SD			18/3	2.4	9.1	4.5	10.2 x 1	159	172	1.6
2	(N)ER020CD			7/1	1.2	5.1	2.7	7.7 x 2	123	132	1.8
2	(N)ER020LD			14/2.5	2.4	9.1	4.5	10.2 x 1	161	174	1.6
2	(N)ER020SD			28/4.5	4.7	17.3	8.3	10.2 x 1	196	203	1.6
2 1/2	(N)ER025SD			22/3.5	4.7	17.3	8.3	11.2 x 1	218	231	1.9
3	(N)ER030LD*			17/6	4.7/1.6	19.6/9.4	9.8/4.7	12.5 x 1	300	300	2.3
3	(N)ER030CD		9.2	17/3	4.7	17.3	8.3	10.2 x 2	229	238	3.2
5	(N)ER050LD			11/2	4.7	17.3	8.3	11.2 x 2	280	293	3.8

The (N)ER030LD listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.

‡ *Although both 208/230 & 460 Volts are shown together, the motors are NOT reconnectable.*

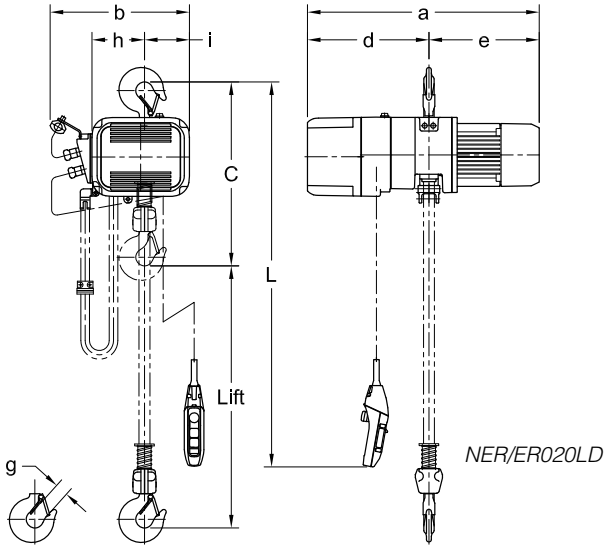
Speed ratio is 6:1 with adjustability up to 12:1.

Electric Chain Hoists
NER, Dual Speed

HARRINGTON
HOISTS AND CRANES

With Hook and Lug Suspensions





NER/ER020LD

DUAL SPEED — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)		b (in)	d (in)		e (in)		g (in)	h (in)	i (in)
			NER	ER		NER	ER	NER	ER			
1/8	(N)ER001HD	13.8	21.0	22.2	13.6	10.8	12.0	10.2	10.2	1.1	3.9	4.6
1/4	(N)ER003SD	13.8	21.0	22.2	13.6	10.8	12.0	10.2	10.2	1.1	3.9	4.6
1/4	(N)ER003HD	14.6	22.3	23.3	13.7	11.8	12.8	10.5	10.5	1.1	4.4	4.2
1/2	(N)ER005LD	14.6	22.4	23.5	13.7	11.8	12.8	10.6	10.7	1.1	4.4	4.2
1/2	(N)ER005SD	14.6	22.3	23.3	13.7	11.8	12.8	10.5	10.5	1.1	4.4	4.2
1	(N)ER010LD	16.9	24.1	24.9	14.8	12.4	13.1	11.7	11.8	1.2	5.1	4.6
1	(N)ER010SD	16.9	24.5	25.2	14.8	12.4	13.1	12.1	12.1	1.2	5.1	4.6
1 1/2	(N)ER015SD	20.1	27.9	29.0	16.8	14.6	15.6	13.3	13.4	1.4	6.3	5.4
2	(N)ER020CD	27.8	24.1	24.9	14.8	12.4	13.1	11.7	11.8	1.5	7.0	2.7
2	(N)ER020LD	22.6	27.9	29.0	16.8	14.6	15.6	13.3	13.4	1.6	6.3	5.4
2	(N)ER020SD	23.2	30.2	30.8	16.8	16.2	16.8	14.0	14.0	1.6	6.3	5.4
2 1/2	(N)ER025SD	24.6	31.5	32.5	17.5	15.8	16.8	15.7	15.7	1.6	6.8	5.6
3	(N)ER030LD*	22.6	26.9	26.9	16.5	12.4	12.4	14.4	14.4	1.5	6.1	5.2
3	(N)ER030CD	32.9	30.2	30.8	16.8	16.2	16.8	14.0	14.0	1.8	8.5	3.2
5	(N)ER050LD	33.5	31.5	32.5	17.5	15.8	16.8	15.7	15.7	1.9	9.1	3.4

The (N)ER030LD listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.
Speed ratio is 6:1 with adjustability up to 12:1.

Electric Chain Hoists
NER, Large Capacity

HARRINGTON
HOISTS AND CRANES

Large Capacity with Hook and Lug Suspensions



NER/ER100S
(Shown with optional canvas chain containers)

Large capacity lifting is now available in both our NER and ER models. Our three phase electric chain hoists provide the duty cycle, durability and ease of operation needed to support most heavy lifting applications.

Features and Benefits

UL® Listed**
Certified and listed to UL 1340 "Standard for Hoists."

Green Initiative
Built smarter without the use of harmful materials. Environmentally friendly. RoHS compliant.

Heavy-Duty Hook Latches
Standard

Limit Switches
Low-profile upper and lower limit switches are standard.

Extended Chain Life
Decreased chain wear as a result of a revolutionary heat treatment process, improved material and chain size.

Contactors
Mechanically interlocked, heavy-duty contactors on single speed models.

High Air Flow
Cooler motor and brake attributed to an engineered motor fin, fan blade and fan cover design.

Unique Load Sheave
Increased number of pockets reduce chain vibration and increase chain life. 5 pockets standard.

Friction Clutch and Load Brake
Friction clutch is standard on NER/ER models and friction clutch with mechanical load brake standard on ER models. Carbon friction material provides consistent performance over a wide temperature range.

Standard Count Hour Meter
Records and displays the number of lowering starts and hoist on time which is valuable for preventive maintenance. Integral to VFD on dual speed models.

High Strength, Corrosion and Wear Resistant Load Chain
Grade 80, super strength, nickel-plated load chain, certified to DIN standards, uses unique technology to greatly increase resistance to fatigue and wear.

Dual Speed VFD
Under-the-cover VFD standard for dual speed hoists. Speed ratio is 3:1 with adjustability up to 12:1.

"The Guardian": Smart Brake Technology
A current driven electromagnetic brake does not release unless the motor is energized. 10 year hoist brake warranty.

Pendant Controls
Ergonomic design for operator comfort. Red button emergency stop is standard on all 2-button dual speed pendants.

Standard Hoist Specifications

Large Capacity Range
NER/ER 8 Ton – 20 Ton
(See page 8 for 1/8 – 5 Ton

Standard Voltage
208-230/460-3-60
Optional voltages available
Dual speed models are not reconnectable

Control Voltage
110V (optional 24V)

Classification*
ASME H4
ISO M4
FEM 2M or 1Am

Conformance**
UL 1340

Duty Cycle*
Single Speed – 60 Min.
Dual Speed – 30/10 Min. with VFD

Ratings
Hoist – IP55
Pendant – IP65

Upper / Lower Limit Switch
Overwinding/overlifting device
Standard on all models

Standard Pendants
Single speed: 2-button (momentary contacts)
Dual speed: 2-button (momentary contacts) with emergency On/Off (maintained contacts)

Standard Lift
10' (longer lifts available)

Standard Pendant Drop
4' less than lift (longer drops available)

Standard Power Supply Length
30' (longer lengths available)

Mounting
Hook, lug or trolley

Chain Containers
Optional
Canvas or steel

Operating Conditions
Recommended for -4˚ to +104˚ F and humidity of 85% or less.

NER vs. ER Features
ER model has same high-quality features as NER plus the following:
- Second brake—Weston-style mechanical load brake

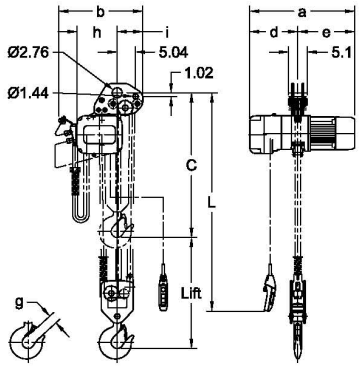
Electric Chain Hoists

NER, Large Capacity, Single Speed

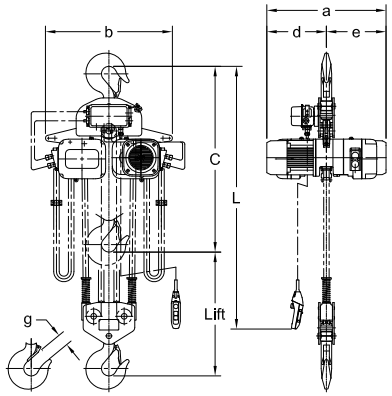
HARRINGTON
HOISTS AND CRANES



NER/ER100S
(Shown with optional canvas chain containers)



NER/ER080S



NER/ER100S

SINGLE SPEED — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps)					
						@208 – 230V	@460V		NER	ER	
8	(N)ER080S*	10	10.5	7.5	4.7	16.4	7.9	11.2 x 3	362	359	5.5
10	(N)ER100L		11.2	5.5	4.7	16.4	7.9	11.2 x 4	617	615	7.4
10	(N)ER100L-LG		10.5	5.5	4.7	16.4	7.9	11.2 x 4	573	571	7.4
10	(N)ER100S		11.2	11	4.7 x 2	16.4 x 2	7.9 x 2	11.2 x 4	668	666	7.4
15	(N)ER150S		12.1	7.5	4.7 x 2	16.4 x 2	7.9 x 2	11.2 x 6	891	886	11.4
20	(N)ER200S			5.5	4.7 x 2	16.4 x 2	7.9 x 2	11.2 x 8	1049	1045	14.8

**Available lug mount only. Push button cord dimension (L) is to center of lug hole.*

SINGLE SPEED — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)		b (in)	d (in)		e (in)		g (in)	h (in)	i (in)
			NER	ER		NER	ER	NER	ER			
8	(N)ER080S	40.3	28.9	32.5	23.2	13.2	16.8	15.7	16.8	2.5	11.1	7.1
10	(N)ER100L	53.9	28.9	32.5	38.3	13.2	16.8	15.7	16.8	3.2	13.3	20.0
10	(N)ER100L-LG	40.9	28.9	32.5	26.9	13.2	16.8	15.7	16.8	3.2	13.3	8.5
10	(N)ER100S	53.9	31.4	33.6	33.4	15.7	16.8	15.7	16.8	3.2	-	-
15	(N)ER150S	62.8	31.4	33.6	40.2	15.7	16.8	15.7	16.8	3.4	-	-
20	(N)ER200S	67.3	31.4	33.6	47.2	15.7	16.8	15.7	16.8	4.1	-	-

Electric Chain Hoists

NER, Large Capacity, Dual Speed

HARRINGTON
HOISTS AND CRANES

Large Capacity with Motorized Trolleys



NERM/ERM100S-L (Shown with optional canvas chain containers)

MR trolleys are suitable for harsh or outdoor applications and easily couple with NER/ER large capacity hoists for the heaviest lifting and traversing requirements. Features include thermal motor protection, side guide rollers for smooth operation and plug in electrical connections.

Features and Benefits

UL® Listed**
Certified and listed to UL 1340 "Standard for Hoists."

Perpendicular Orientation
MR motorized trolley mount hoists are configured as perpendicular to the beam.

Green Initiative
Built smarter without the use of harmful materials. Environmentally friendly. RoHS compliant.

Heavy-Duty Hook Latches
Standard

High Air Flow
Cooler motor and brake attributed to an engineered motor fin, fan blade and fan cover design.

Unique Load Sheave
Increased number of pockets reduce chain vibration and increase chain life. 5 pockets standard.

Extended Chain Life
Decreased chain wear as a result of a revolutionary heat treatment process, improved material and chain size.

Limit Switches
Low-profile upper and lower limit switches are standard.

Contactors
Mechanically interlocked, heavy-duty contactors on single speed models.

Friction Clutch and Load Brake
Friction clutch is standard on NER/ER models and friction clutch with mechanical load brake standard on ER models. Carbon friction material provides consistent performance over a wide temperature range.

Dual Speed VFD
Under-the-cover VFD standard for dual speed hoists. Speed ratio is 3:1 with adjustability up to 12:1.

High Strength, Corrosion and Wear Resistant Load Chain
Grade 80, super strength, nickel-plated load chain, certified to DIN standards, uses unique technology to greatly increase resistance to fatigue and wear.

Standard Count Hour Meter
Records and displays the number of lowering starts and hoist on time which is valuable for preventive maintenance. Integral to VFD on dual speed models.

"The Guardian": Smart Brake Technology
A current driven electromagnetic brake does not release unless the motor is energized. 10 year hoist brake warranty.

Pendant Controls
Ergonomic design for operator comfort. Red button emergency stop is standard on all 4-button pendants.

Standard Motorized Trolley Specifications

Capacity Range
8 Ton – 20 Ton
(See page 14 for 1/8 – 5 Ton)

Standard Voltage
208-230/460-3-60
Optional voltages available
Dual speed models are not reconnectable

Control Voltage
110V (optional 24V)

Duty Cycle*
Single Speed – 30 Min.
Dual Speed – 30 Min. with VFD

Classification*
ASME H4
ISO M4
FEM 2M or 1Am

Ratings
Trolley – IP55
Pendant – IP65

Standard Power Supply Length
30' (longer lengths available)

Shafts
Standard shafts fit wide flange range
Longer shafts for wider beams
Spacers for easy adjustments

Standard Pendants
4-button (momentary contacts) with emergency On/Off (maintained contacts)

Drop Stops
Standard

Standard Pendant Drop
4' less than lift
(longer drops available)

Bumpers
Standard

Wheels
All steel
Shielded ball bearings
Fit flat or tapered beam flange

Electric Chain Hoists

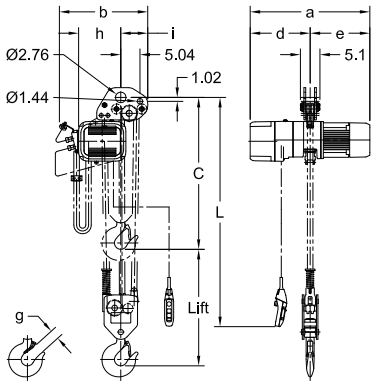
NER Series, Large Capacity, Dual Speed

HARRINGTON
HOISTS AND CRANES

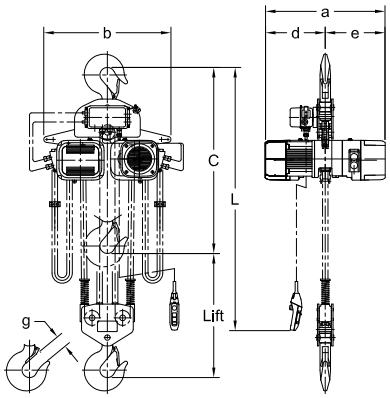
Large Capacity with Hook and Lug Suspensions



NER/ER100SD
(Shown with optional canvas chain containers)



NER/ER080SD



NER/ER100SD

DUAL SPEED — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor** 3 Phase 60 Hz			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V		NER	ER	
8	(N)ER080SD*	10	10.5	7.5/2.5	4.7	17.3	8.3	11.2 x 3	358	366	5.5
10	(N)ER100LD		11.2	5.5/2	4.7	17.3	8.3	11.2 x 4	609	622	7.4
10	(N)ER100LD-LG		10.5	5.5/2	4.7	17.3	8.3	11.2 x 4	569	578	7.4
10	(N)ER100SD		11.2	11/3.5	4.7 x 2	17.3 x 2	8.3 x 2	11.2 x 4	650	677	7.4
15	(N)ER150SD		12.1	7.5/2.5	4.7 x 2	17.3 x 2	8.3 x 2	11.2 x 6	873	899	11.4
20	(N)ER200SD			5.5/2	4.7 x 2	17.3 x 2	8.3 x 2	11.2 x 8	1032	1058	14.8

**Available lug mount only. Push button cord dimension (L) is to center of lug hole.*
***Although both 208/230 & 460 Volts are shown together, the motors are NOT reconnectable.*
Speed ratio is 3:1 with adjustability up to 12:1.

DUAL SPEED — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)		b (in)	d (in)		e (in)		g (in)	h (in)	i (in)
			NER	ER		NER	ER	NER	ER			
8	(N)ER080SD	40.3	31.5	32.5	23.2	15.8	16.8	15.7	15.7	2.5	11.1	7.1
10	(N)ER100LD	53.9	31.5	32.5	38.3	15.8	16.8	15.7	15.7	3.2	13.3	20.0
10	(N)ER100LD-LG	40.9	31.5	32.5	26.9	15.8	16.8	15.7	15.7	3.2	13.3	8.5
10	(N)ER100SD	53.9	31.5	33.6	33.4	15.8	16.8	15.8	16.8	3.2	-	-
15	(N)ER150SD	62.8	31.5	33.6	40.2	15.8	16.8	15.8	16.8	3.4	-	-
20	(N)ER200SD	67.3	31.5	33.6	47.2	15.8	16.8	15.8	16.8	4.1	-	-

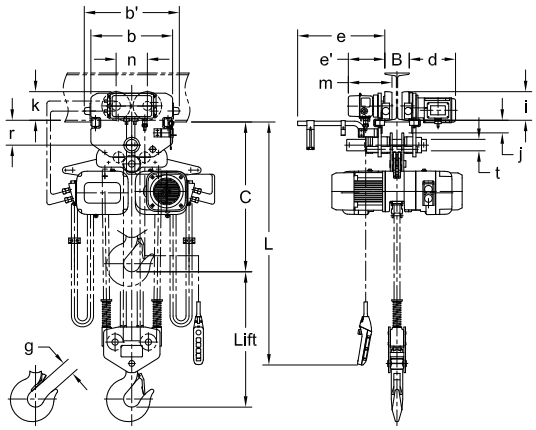
Speed ratio is 3:1 with adjustability up to 12:1.

Electric Chain Hoists
NERM, Single Speed

HARRINGTON
HOISTS AND CRANES



NERM/ERM100S-L
(Shown with optional canvas chain containers)



NERM/ERM100S-L

SINGLE SPEED HOIST WITH SINGLE SPEED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Traversing Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Traversing Motor 3 Phase 60 Hz			Flange Width Adjustability B (in)		Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
						Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Standard	Optional			NER	ER	
8	(N)ERM080S-L	10	10.8	7.5	40	4.7	16.4	7.9	1.0	5.1	2.5	5.50 to 8.66	8.67 to 12.00	98.4	11.2 x 3	624	622	5.5
10	(N)ERM100L-L			5.5		4.7	16.4	7.9	1.0	5.1	2.5			98.4	11.2 x 4	833	831	7.4
10	(N)ERM100S-L			11		4.7 x 2	16.4 x 2	7.9 x 2	1.0	5.1	2.5			98.4	11.2 x 4	880	877	7.4
15	(N)ERM150S-L			7.5		4.7 x 2	16.4 x 2	7.9 x 2	1.0 x 2	5.1 x 2	2.5 x 2			:	11.2 x 6	1259	1254	11.4
20	(N)ERM200S-L			5.5		4.7 x 2	16.4 x 2	7.9 x 2	1.0 x 2	5.1 x 2	2.5 x 2			:	11.2 x 8	1482	1479	14.8

SINGLE SPEED HOIST WITH SINGLE SPEED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	b (in)	b' (in)	d (in)	e (in)	e' (in)	g (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
8	(N)ERM080S-L	45.9	19.7	22.9	11.2	20.9	8.8	2.5	6.89	3.4	6.9	10.5	7.5	6.0	2.76
10	(N)ERM100L-L	46.5	19.7	22.9	11.2	20.9	8.8	3.2	6.89	3.1	6.9	10.5	7.5	6.0	2.76
10	(N)ERM100S-L	46.5	19.7	22.9	11.2	20.9	8.8	3.2	6.89	3.1	6.9	10.5	7.5	6.0	2.76
15	(N)ERM150S-L	51.6	40.2	43.4	11.2	20.9	8.8	3.4	6.89	3.2	6.9	10.5	28.0	6.0	2.76
20	(N)ERM200S-L	53.0	40.2	43.4	11.2	20.9	8.8	4.1	6.89	3.1	6.9	10.5	28.0	6.0	2.76

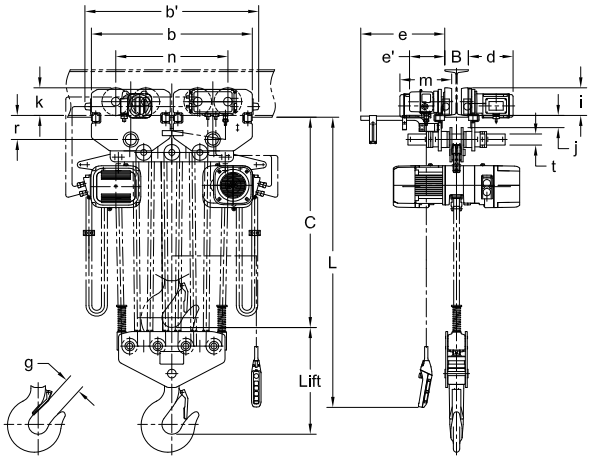
Electric Chain Hoists
NERM, Dual Speed

HARRINGTON HOISTS AND CRANES

Large Capacity with Motorized Trolleys



NERM/ERM100SD-L
(Shown with optional
canvas chain containers)



NERM/ERM200SD-L

DUAL SPEED HOIST WITH SINGLE SPEED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Traversing Speed (ft/min)	Lifting Motor** 3 Phase 60 Hz			Traversing Motor 3 Phase 60 Hz			Flange Width Adjustability B (in)		Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
						Output (Hp)	Rated Current (amps) @208–230V	Rated Current (amps) @460V	Output (Hp)	Rated Current (amps) @208–230V	Rated Current (amps) @460V	Standard	Optional			NER	ER	
8	(N)ERM080SD-L	10	10.8	7.5/2.5	40	4.7	17.3	8.3	1.0	5.1	2.5	5.50 to 8.66	8.67 to 12.00	98.4	11.2 x 3	615	628	5.5
10	(N)ERM100LD-L			5.5/2		4.7	17.3	8.3	1.0	5.1	2.5			98.4	11.2 x 4	825	838	7.4
10	(N)ERM100SD-L			11/3.5		4.7 x 2	17.3 x 2	8.3 x 2	1.0	5.1	2.5			98.4	11.2 x 4	862	888	7.4
15	(N)ERM150SD-L			7.5/2.5		4.7 x 2	17.3 x 2	8.3 x 2	1.0 x 2	5.1 x 2	2.5 x 2			∞	11.2 x 6	1241	1268	11.4
20	(N)ERM200SD-L			5.5/2		4.7 x 2	17.3 x 2	8.3 x 2	1.0 x 2	5.1 x 2	2.5 x 2			∞	11.2 x 8	1367	1393	14.8

***Although both 208/230 & 460 Volts are shown together, the motors are NOT reconnectable.*
Speed ratio is 3:1 with adjustability up to 12:1.

DUAL SPEED HOIST WITH SINGLE SPEED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	b (in)	b' (in)	d (in)	e (in)	e' (in)	g (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
8	(N)ERM080SD-L	45.9	19.7	22.9	11.2	20.9	8.8	2.5	6.89	3.4	6.9	10.5	7.5	6.0	2.76
10	(N)ERM100LD-L	46.5	19.7	22.9	11.2	20.9	8.8	3.2	6.89	3.1	6.9	10.5	7.5	6.0	2.76
10	(N)ERM100SD-L	46.5	19.7	22.9	11.2	20.9	8.8	3.2	6.89	3.1	6.9	10.5	7.5	6.0	2.76
15	(N)ERM150SD-L	51.6	40.2	43.4	11.2	20.9	8.8	3.4	6.89	3.2	6.9	10.5	28.0	6.0	2.76
20	(N)ERM200SD-L	53.0	40.2	43.4	11.2	20.9	8.8	4.1	6.89	3.1	6.9	10.5	28.0	6.0	2.76

Speed ratio is 3:1 with adjustability up to 12:1.

Electric Chain Hoists
NERP, Single Speed

HARRINGTON
HOISTS AND CRANES

Large Capacity with Push or Geared Trolleys



NERP/ERP080S (Shown with optional canvas chain container)

Harrington's PT push and GT geared trolleys provide added mobility to NER/ER hoists and feature a compact, lightweight design for ease of installation and use. Manual trolleys are the best choice for jobs requiring infrequent moves.

Features and Benefits

UL® Listed**
Certified and listed to UL 1340 "Standard for Hoists."

Perpendicular Orientation
PT push trolley mount hoists are configured as perpendicular to the beam.

Green Initiative
Built smarter without the use of harmful materials. Environmentally friendly. RoHS compliant.

Heavy-Duty Hook Latches
Standard

High Air Flow
Cooler motor and brake attributed to an engineered motor fin, fan blade and fan cover design.

Extended Chain Life
Decreased chain wear as a result of a revolutionary heat treatment process, improved material and chain size.

Unique Load Sheave
Increased number of pockets reduce chain vibration and increase chain life. 5 pockets standard.

Limit Switches
Low-profile upper and lower limit switches are standard.

Contactors
Mechanically interlocked, heavy-duty contactors on single speed models.

Friction Clutch and Load Brake
Friction clutch is standard on NER/ER models and friction clutch with mechanical load brake standard on ER models. Carbon friction material provides consistent performance over a wide temperature range.

Dual Speed VFD
Under-the-cover VFD standard for dual speed hoists. Speed ratio is 3:1 with adjustability up to 12:1.

High Strength, Corrosion and Wear Resistant Load Chain
Grade 80, super strength, nickel-plated load chain, certified to DIN standards, uses unique technology to greatly increase resistance to fatigue and wear.

Standard Count Hour Meter
Records and displays the number of lowering starts and hoist on time which is valuable for preventive maintenance. Integral to VFD on dual speed models.

"The Guardian": Smart Brake Technology
A current driven electromagnetic brake does not release unless the motor is energized. 10 year hoist brake warranty.

Pendant Controls
Ergonomic design for operator comfort. Red button emergency stop is standard on all 2-button dual speed pendants.

Standard Trolley Specifications

Capacity Range
Push – 8 Ton – 10 Ton
Geared – 8 Ton – 20 Ton
(See page 22 for 1/8 – 5 Ton)

Shafts
Standard shafts fit wide flange range
Longer shafts for wider beams
Spacers for easy adjustments

Drop Stops
Standard

Bumpers
Optional

Standard Hand Chain Drop
On geared trolleys
2' less than lift (longer drops available)

Wheels
All steel
Shielded ball bearings
Fit flat or tapered beam flange

Standard Hoist Pendant Drop
4' less than lift
(longer drops available)

Standard Hoist Power Supply Length
30' (longer lengths available)

Standard Pendants
Single speed: 2-button (momentary contacts)
Dual speed: 2-button (momentary contacts) with emergency On/Off (maintained contacts)

***Most models shipped with UL listing. Contact Customer Service for listed models.*

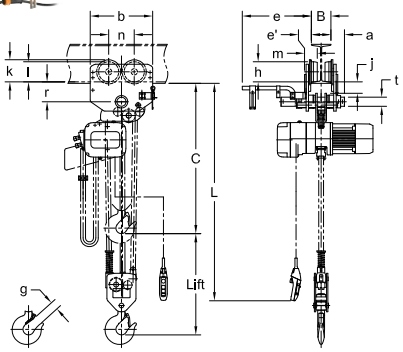
Electric Chain Hoists

NERP, Single Speed

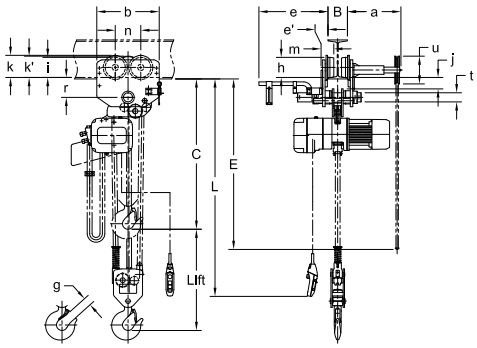
HARRINGTON
HOISTS AND CRANES



NERP/ERP080S
(Shown with optional
canvas chain container)



NERP/ERP080S



NERG/ERG080S

SINGLE SPEED HOIST WITH PUSH OR GEARED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Flange Width Adjustability B (in)		Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Standard	Optional			NER	ER	
8	(N)ERP(ERG)080S	10	10.8	7.5	4.7	16.4	7.9	5.50 to 8.66	8.67 to 12.00	118.1	11.2 x 3	536 (604)	534 (602)	5.5 (6.3)
10	(N)ERP(ERG)100L			5.5	4.7	16.4	7.9			118.1	11.2 x 4	747 (816)	745 (814)	7.4 (8.1)
10	(N)ERP(ERG)100S			11	4.7 x 2	16.4 x 2	7.9 x 2			118.1	11.2 x 4	805 (873)	802 (871)	7.4 (8.1)
15	(N)ERG150S			7.5	4.7 x 2	16.4 x 2	7.9 x 2			∞	11.2 x 6	1246	1241	12.8
20	(N)ERG200S			5.5	4.7 x 2	16.4 x 2	7.9 x 2			∞	11.2 x 8	1371	1369	16.1

Figures in parentheses are data for geared trolley.

SINGLE SPEED HOIST WITH PUSH TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	e (in)	e' (in)	g (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
8	(N)ERP080S	45.9	4.1	18.9	20.9	1.6	2.5	7.3	6.10	3.4	6.7	3.4	7.7	6.0	2.76
10	(N)ERP100L	46.5	4.1	18.9	20.9	1.6	3.2	7.3	6.10	3.1	6.7	3.4	7.7	6.0	2.76
10	(N)ERP100S	46.5	4.1	18.9	20.9	8.8	3.2	7.3	6.10	3.1	6.7	10.6	7.7	6.0	2.76

SINGLE SPEED HOIST WITH GEARED TROLLEY — DIMENSIONS

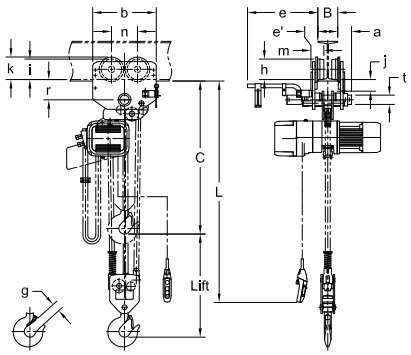
Cap. (Tons)	Product Code	Headroom C (in)	E (ft)	a (in)	b (in)	e (in)	e' (in)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)	u (in)
8	(N)ERG080S	45.9	10.5	16.2	18.9	20.9	1.6	2.5	7.3	6.10	3.4	6.7	6.5	3.4	7.7	6.0	2.76	8.4
10	(N)ERG100L	46.5	10.5	16.2	18.9	20.9	1.6	3.2	7.3	6.10	3.1	6.7	6.5	3.4	7.7	6.0	2.76	8.4
10	(N)ERG100S	46.5	10.5	16.2	18.9	20.9	8.8	3.2	7.3	6.10	3.1	6.7	6.5	10.6	7.7	6.0	2.76	8.4
15	(N)ERG150S	51.6	12.1	16.2	39.4	20.9	8.8	3.4	7.3	6.10	3.2	6.7	6.5	10.6	28.2	6.0	2.76	8.4
20	(N)ERG200S	53.0	12.1	16.2	39.4	20.9	8.8	4.1	7.3	6.10	3.1	6.7	6.5	10.6	28..2	6.0	2.76	8.4

Electric Chain Hoists
NERG, Dual Speed

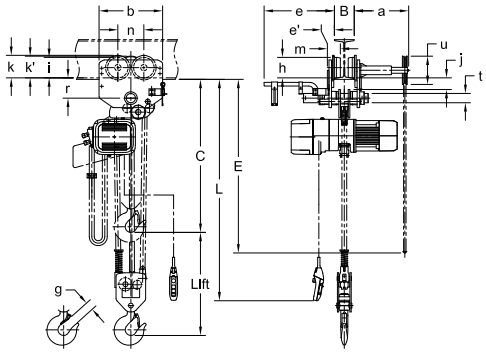
HARRINGTON
HOISTS AND CRANES



NERG/ERG080SD
(Shown with optional
canvas chain container)



NERP/ERP080SD



NERG/ERG080SD

DUAL SPEED HOIST WITH PUSH OR GEARED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz**			Flange Width Adjustability B (in)		Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Standard	Optional			NER	ER	
8	(N)ERP(ERG)080SD	10	10.8	7.5/2.5	4.7	17.3	8.3	5.50 to 8.66	8.67 to 12.00	118.1	11.2 x 3	527 (595)	541 (609)	5.5 (6.3)
10	(N)ERP(ERG)100LD			5.5/2	4.7	17.3	8.3			118.1	11.2 x 4	738 (807)	752 (821)	7.4 (8.1)
10	(N)ERP(ERG)100SD			11/3.5	4.7 x 2	17.3 x 2	8.3 x 2			118.1	11.2 x 4	787 (855)	809 (884)	7.4 (8.1)
15	(N)ERG150SD			7.5/2.5	4.7 x 2	17.3 x 2	8.3 x 2			∞	11.2 x 6	1228	1254	12.8
20	(N)ERG200SD			5.5/2	4.7 x 2	17.3 x 2	8.3 x 2			∞	11.2 x 8	1353	1382	16.1

Figures in parentheses are data for geared trolley.
***Although both 208/230 & 460 Volts are shown together, the motors are NOT reconnectable.*

DUAL SPEED HOIST WITH PUSH TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	e (in)	e' (in)	g (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
8	(N)ERP080SD	45.9	4.1	18.9	20.9	1.6	2.5	7.3	6.10	3.4	6.7	3.4	7.7	6.0	2.76
10	(N)ERP100LD	46.5	4.1	18.9	20.9	1.6	3.2	7.3	6.10	3.1	6.7	3.4	7.7	6.0	2.76
10	(N)ERP100SD	46.5	4.1	18.9	20.9	8.8	3.2	7.3	6.10	3.1	6.7	10.6	7.7	6.0	2.76

DUAL SPEED HOIST WITH GEARED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	E (ft)	a (in)	b (in)	e (in)	e' (in)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)	u (in)
8	(N)ERG080SD	45.9	10.5	16.2	18.9	20.9	1.6	2.5	7.3	6.10	3.4	6.7	6.5	3.4	7.7	6.0	2.76	8.4
10	(N)ERG100LD	46.5	10.5	16.2	18.9	20.9	1.6	3.2	7.3	6.10	3.1	6.7	6.5	3.4	7.7	6.0	2.76	8.4
10	(N)ERG100SD	46.5	10.5	16.2	18.9	20.9	8.8	3.2	7.3	6.10	3.1	6.7	6.5	10.6	7.7	6.0	2.76	8.4
15	(N)ERG150SD	51.6	12.1	16.2	39.4	20.9	8.8	3.4	7.3	6.10	3.2	6.7	6.5	10.6	7.7	6.0	2.76	8.4
20	(N)ERG200SD	53.0	12.1	16.2	39.4	20.9	8.8	4.1	7.3	6.10	3.1	6.7	6.5	10.6	7.7	6.0	2.76	8.4

Speed ratio is 3:1 with adjustability up to 12:1.

Electric Chain Hoists

NERM. Dual Speed

HARRINGTON
HOISTS AND CRANES

With Motorized Trolleys



NERM/ERM020L-L/S (Shown with optional canvas chain container)

The MR Series of electric trolleys further expand the capabilities of our NER/ER line of electric hoists. These trolleys feature an innovative side guide roller system that results in very smooth travel along the beam.

Features and Benefits

UL® Listed**
Certified and listed to UL 1340 "Standard for Hoists."

Easy Access Suspension
External pins allow for quick change from hook to lug for trolley mount configurations on most models.

Perpendicular Orientation
MR motorized trolley mount hoists are configured as perpendicular to the beam. Parallel mount is available as an option.

Green Initiative
Built smarter without the use of harmful materials. Environmentally friendly. RoHS compliant.

Notched Hook and Latch System
Provides positive closing and improves resistance against lateral forces.

High Air Flow
Cooler motor and brake attributed to an engineered motor fin, fan blade and fan cover design.

Unique Load Sheave
Increased number of pockets reduce chain vibration and increase chain life. 5 pockets standard; 6 pockets on smaller body hoists.

Extended Chain Life
Decreased chain wear as a result of a revolutionary heat treatment process, improved material and chain size.

Limit Switches
Low-profile upper and lower limit switches are standard.

Contactors
Mechanically interlocked, heavy-duty contactors on single speed models.

Friction Clutch and Load Brake
Friction clutch is standard on NER/ER models and friction clutch with mechanical load brake standard on ER models. Carbon friction material provides consistent performance over a wide temperature range.

High Strength, Corrosion and Wear Resistant Load Chain
Grade 80, super strength, nickel-plated load chain, certified to DIN standards, uses unique technology to greatly increase resistance to fatigue and wear.

Standard Count Hour Meter
Records and displays the number of lowering starts and hoist on time which is valuable for preventive maintenance. Integral to VFD on dual speed models.

Dual Speed VFD
Under-the-cover VFD standard for dual speed hoists and trolleys. Speed ratio is 6:1 with adjustability up to 12:1.

"The Guardian": Smart Brake Technology
A current driven electromagnetic brake does not release unless the motor is energized. 10 year hoist brake warranty.

Pendant Controls
Ergonomic design for operator comfort. Red button emergency stop is standard on all 4-button pendants.

Standard Motorized Trolley Specifications

Capacity Range
1/8 Ton – 5 Ton
(See page 34 for 8 – 20 Ton)

Standard Voltage
208-230/460-3-60
Optional voltages available
Dual speed models are not reconnectable

Control Voltage
110V (optional 24V)

Duty Cycle*
Single Speed – 30 Min.
Dual Speed – 30/10 Min. with VFD

Classification*
ASME H4
ISO M5 or M4
FEM 2M or 1Am

Ratings
Trolley – IP55
Pendant – IP65

Standard Pendants
4-button (momentary contacts) with emergency on/off (maintained contacts)

Shafts
Standard shafts fit wide flange range
Longer shafts for wider beams
Spacers for easy adjustments

Drop Stops
Standard

Bumpers
Standard

Wheels
All steel
Shielded ball bearings
Fit flat or tapered beam flange

Standard Power Supply Length
30' (longer lengths available)

Standard Pendant Drop
4' less than lift (longer drops available)

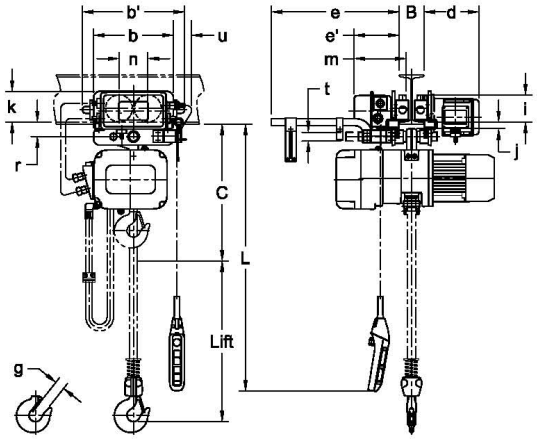
***Most models shipped with UL listing. Contact Customer Service for listed models.*
The 3 Ton (N)ERM030L is the previous hoist model.

Electric Chain Hoists
NERM, Single Speed

HARRINGTON HOISTS AND CRANES



NERM/ERM020L-L/S (Shown with optional canvas chain container)



NERM/ERM020L-L/S

SINGLE SPEED HOIST WITH SINGLE SPEED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Traversing Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Traversing Motor 3 Phase 60 Hz			Flange Width Adjustability B (in)		Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
						Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Standard	Optional			NER	ER	
1/8	(N)ERM001H-L/S	10	8.2	55	L = 40 S = 80	0.75	3.4	1.7	0.54	3.2	1.6	2.28 to 5.00	5.01 to 6.02 OR 6.03 to 12.00	31.5**	4.3 x 1	128	130	0.28
1/4	(N)ERM003S-L/S			36		0.75	3.4	1.7	0.54	3.2	1.6				4.3 x 1	128	130	0.28
1/4	(N)ERM003H-L/S			53		1.2	4.8	2.5	0.54	3.2	1.6				6.0 x 1	148	150	0.54
1/2	(N)ERM005L-L/S			15		0.75	3.4	1.7	0.54	3.2	1.6				6.0 x 1	139	146	0.54
1/2	(N)ERM005S-L/S			29		1.2	4.8	2.5	0.54	3.2	1.6				6.0 x 1	148	150	0.54
1	(N)ERM010L-L/S			14		1.2	4.8	2.5	0.54	3.2	1.6				7.7 x 1	170	176	0.89
1	(N)ERM010S-L/S			28		2.4	8.6	4.2	0.54	3.2	1.6				7.7 x 1	185	185	0.89
1 1/2	(N)ERM015S-L/S			18		2.4	8.6	4.2	0.54	3.2	1.6	3.23 to 6.02	6.03 to 7.02 OR 7.03 to 12.00	31.5†	10.2 x 1	243	254	1.6
2	(N)ERM020C-L/S			7		1.2	4.8	2.5	0.54	3.2	1.6				7.7 x 2	214	218	1.8
2	(N)ERM020L-L/S			14		2.4	8.6	4.2	0.54	3.2	1.6				10.2 x 1	245	256	1.6
2	(N)ERM020S-L/S			28		4.7	16.4	7.9	0.54	3.2	1.6				10.2 x 1	284	282	1.6
2 1/2	(N)ERM025S-L/S			22		4.7	16.4	7.9	0.54	3.2	1.6			39.4	11.2 x 1	333	331	1.9
3	(N)ERM030L-L/S*			16		4.7	18.3	9.2	0.5	3.2	1.6				12.5 x 1	362	362	2.3
3	(N)ERM030C-L/S		9.2	17		4.7	16.4	7.9	0.54	3.2	1.6				10.2 x 2	340	340	3.2
5	(N)ERM050L-L/S			11		4.7	16.4	7.9	1.0	5.1	2.5	3.94 to 7.01	7.02 to 7.60 OR 7.61 to 12.00	70.9	11.2 x 2	443	439	3.8

The (N)ERM030L-L/S listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.

***Flange widths smaller than 4 inches will have a minimum radius of 137.8 inches.*

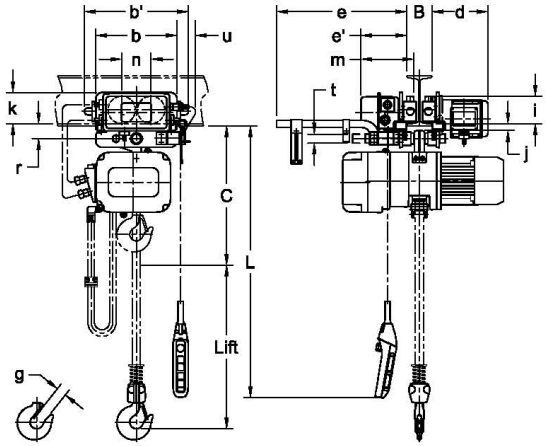
†Flange widths smaller than 5 inches will have a minimum radius of 39.4 inches.

Electric Chain Hoists
NERM, Single Speed

HARRINGTON
HOISTS AND CRANES

With Motorized Trolleys





NERM/ERM020L-L/S (Shown with optional canvas chain container)

SINGLE SPEED HOIST WITH SINGLE SPEED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	b (in)	b' (in)	d (in)	e (in)	e' (in)	g (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/8	(N)ERM001H-L/S	14.8	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/4	(N)ERM003S-L/S	14.8	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/4	(N)ERM003H-L/S	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/2	(N)ERM005L-L/S	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/2	(N)ERM005S-L/S	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1	(N)ERM010L-L/S	17.1	12.4	15.6	8.7	20.3	7.1	1.2	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1	(N)ERM010S-L/S	17.1	12.4	15.6	8.7	20.3	7.1	1.2	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1 1/2	(N)ERM015S-L/S	19.9	12.8	16.4	8.8	20.5	7.3	1.4	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020C-L/S	27.2	12.8	16.4	8.8	20.5	7.3	1.5	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020L-L/S	22.4	12.8	16.4	8.8	20.5	7.3	1.6	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020S-L/S	23.0	12.8	16.4	8.8	20.5	7.3	1.6	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2 1/2	(N)ERM025S-L/S	24.4	13.4	17.4	8.9	20.5	7.3	1.6	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.8
3	(N)ERM030L-L/S*	25.4	13.4	17.4	8.9	20.5	7.3	1.7	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.7
3	(N)ERM030C-L/S	32.9	13.4	17.4	8.9	20.5	7.3	1.8	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.8
5	(N)ERM050L-L/S	33.1	15.7	19.8	11.0	20.8	7.6	1.9	5.51	1.7	5.7	9.2	5.9	3.4	2.13	2.2

The (N)ERM030L-L/S listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.

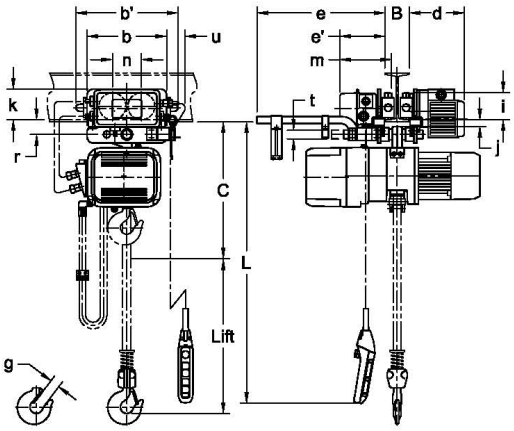
Electric Chain Hoists

NERM, Dual Speed

HARRINGTON
HOISTS AND CRANES



NERM/ERM020LD-L/S
(Shown with optional
canvas chain container)



NERM/ERM020LD-L/S

DUAL SPEED HOIST WITH SINGLE SPEED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Traversing Speed (ft/min)	Lifting Motor‡ 3 Phase 60 Hz			Traversing Motor 3 Phase 60 Hz			Flange Width Adjustability B (in)		Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
						Output (Hp)	Rated Current (amps) @208–230V	Rated Current (amps) @460V	Output (Hp)	Rated Current (amps) @208–230V	Rated Current (amps) @460V	Standard	Optional			NER	ER	
1/8	(N)ERM001HD-L/S	10	8.2	55/9	L = 40 S = 80	0.75	3.6	1.8	0.54	3.2	1.6	2.28 to 5.00	5.01 to 6.02 OR 6.03 to 12.00	31.5**	4.3 x 1	128	132	0.28
1/4	(N)ERM003SD-L/S			36/6		0.75	3.6	1.8	0.54	3.2	1.6				4.3 x 1	128	132	0.28
1/4	(N)ERM003HD-L/S			53/9		1.2	5.1	2.7	0.54	3.2	1.6				6.0 x 1	146	150	0.54
1/2	(N)ERM005LD-L/S			15/2.5		0.75	3.6	1.8	0.54	3.2	1.6				6.0 x 1	137	146	0.54
1/2	(N)ERM005SD-L/S			29/5		1.2	5.1	2.7	0.54	3.2	1.6				6.0 x 1	146	150	0.54
1	(N)ERM010LD-L/S			14/2.5		1.2	5.1	2.7	0.54	3.2	1.6				7.7 x 1	166	174	0.89
1	(N)ERM010SD-L/S			28/4.5		2.4	9.1	4.5	0.54	3.2	1.6				7.7 x 1	181	183	0.89
1 1/2	(N)ERM015SD-L/S			18/3		2.4	9.1	4.5	0.54	3.2	1.6	3.23 to 6.02	6.03 to 7.02 OR 7.03 to 12.00	31.5†	10.2 x 1	243	256	1.6
2	(N)ERM020CD-L/S			7/1		1.2	5.1	2.7	0.54	3.2	1.6				7.7 x 2	207	216	1.8
2	(N)ERM020LD-L/S			14/2.5		2.4	9.1	4.5	0.54	3.2	1.6				10.2 x 1	245	256	1.6
2	(N)ERM020SD-L/S			28/4.5		4.7	17.3	8.3	0.54	3.2	1.6				10.2 x 1	280	286	1.6
2 1/2	(N)ERM025SD-L/S			22/3.5		4.7	17.3	8.3	0.54	3.2	1.6			39.4	11.2 x 1	324	338	1.9
3	(N)ERM030LD-L/S*			17/6		4.7/1.6	19.6/9.4	9.8/4.7	0.5	3.2	1.6				12.5 x 1	406	406	2.3
3	(N)ERM030CD-L/S		9.2	17/3		4.7	17.3	8.3	0.54	3.2	1.6				10.2 x 2	336	344	3.2
5	(N)ERM050LD-L/S			11/2		4.7	17.3	8.3	1.0	5.1	2.5	3.94 to 7.01	7.02 to 7.60 OR 7.61 to 12.00	70.9	11.2 x 2	434	448	3.8

**The (N)ERM030LD-L/S listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.*

***Flange widths smaller than 4 inches will have a minimum radius of 137.8 inches.*

†Flange widths smaller than 5 inches will have a minimum radius of 39.4 inches.

‡ Although both 208/230 & 460 Volts are shown together, the motors are NOT reconnectable.

Speed ratio is 6:1 with adjustability up to 12:1.

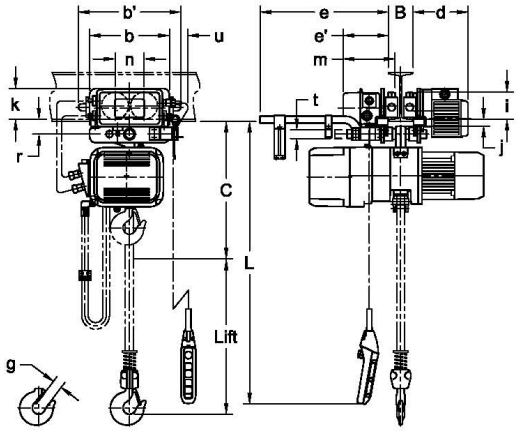
Electric Chain Hoists
NERM, Dual Speed

HARRINGTON
HOISTS AND CRANES

With Motorized Trolleys



NERM/ERM020LD-L/S (Shown with optional canvas chain container)



NERM/ERM020LD-L/S

DUAL SPEED HOIST WITH SINGLE SPEED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	b (in)	b' (in)	d (in)	e (in)	e' (in)	g (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/8	(N)ERM001HD-L/S	14.8	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/4	(N)ERM003SD-L/S	14.8	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/4	(N)ERM003HD-L/S	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/2	(N)ERM005LD-L/S	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/2	(N)ERM005SD-L/S	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1	(N)ERM010LD-L/S	17.1	12.4	15.6	8.7	20.3	7.1	1.2	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1	(N)ERM010SD-L/S	17.1	12.4	15.6	8.7	20.3	7.1	1.2	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1 1/2	(N)ERM015SD-L/S	19.9	12.8	16.4	8.8	20.5	7.3	1.4	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020CD-L/S	27.2	12.8	16.4	8.8	20.5	7.3	1.5	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020LD-L/S	22.4	12.8	16.4	8.8	20.5	7.3	1.6	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020SD-L/S	23.0	12.8	16.4	8.8	20.5	7.3	1.6	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2 1/2	(N)ERM025SD-L/S	24.4	13.4	17.4	8.9	20.5	7.3	1.6	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.8
3	(N)ERM030LD-L/S*	28.0	13.4	17.4	8.9	20.5	7.3	1.7	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.7
3	(N)ERM030CD-L/S	32.9	13.4	17.4	8.9	20.5	7.3	1.8	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.8
5	(N)ERM050LD-L/S	33.1	15.7	19.8	11.0	20.8	7.6	1.9	5.51	1.7	5.7	9.2	5.9	3.4	2.13	2.2

The (N)ERM030LD-L/S listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.

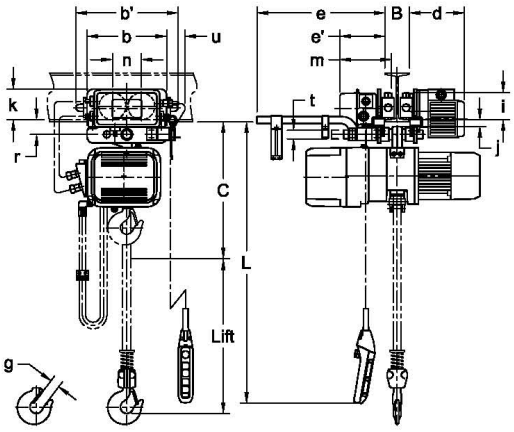
Speed ratio is 6:1 with adjustability up to 12:1.

Electric Chain Hoists
NERM, Dual Speed

HARRINGTON
HOISTS AND CRANES



NERM/ERM020LD-SD (Shown with optional canvas chain container)



NERM/ERM020LD-SD

DUAL SPEED HOIST WITH DUAL SPEED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Traversing Speed (ft/min)	Lifting Motor‡ 3 Phase 60 Hz			Traversing Motor‡ 3 Phase 60 Hz			Flange Width Adjustability B (in)		Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
						Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Standard	Optional			NER	ER	
1/8	(N)ERM001HD-SD	10	8.2	55/9	80/13	0.75	3.6	1.8	0.54	3.4	1.7	2.28 to 5.00	5.01 to 6.02 OR 6.03 to 12.00	31.5**	4.3 x 1	130	135	0.28
1/4	(N)ERM003SD-SD			36/6		0.75	3.6	1.8	0.54	3.4	1.7				4.3 x 1	130	135	0.28
1/4	(N)ERM003HD-SD			53/9		1.2	5.1	2.7	0.54	3.4	1.7				6.0 x 1	150	154	0.54
1/2	(N)ERM005LD-SD			15/2.5		0.75	3.6	1.8	0.54	3.4	1.7				6.0 x 1	141	150	0.54
1/2	(N)ERM005SD-SD			29/5		1.2	5.1	2.7	0.54	3.4	1.7				6.0 x 1	150	154	0.54
1	(N)ERM010LD-SD			14/2.5		1.2	5.1	2.7	0.54	3.4	1.7				7.7 x 1	170	179	0.89
1	(N)ERM010SD-SD			28/4.5		2.4	9.1	4.5	0.54	3.4	1.7				7.7 x 1	185	187	0.89
1 1/2	(N)ERM015SD-SD			18/3		2.4	9.1	4.5	0.54	3.4	1.7	3.23 to 6.02	6.03 to 7.02 OR 7.03 to 12.00	31.5†	10.2 x 1	245	260	1.6
2	(N)ERM020CD-SD			7/1		1.2	5.1	2.7	0.54	3.4	1.7				7.7 x 2	214	223	1.8
2	(N)ERM020LD-SD			14/2.5		2.4	9.1	4.5	0.54	3.4	1.7				10.2 x 1	247	262	1.6
2	(N)ERM020SD-SD			28/4.5		4.7	17.3	8.3	0.54	3.4	1.7				10.2 x 1	284	291	1.6
2 1/2	(N)ERM025SD-SD			22/3.5		4.7	17.3	8.3	0.54	3.4	1.7			39.4	11.2 x 1	331	344	1.9
3	(N)ERM030LD-SD*			17/6		4.7/1.6	19.6/9.4	9.8/4.7	0.9/0.2	3.6/3.1	1.8/1.6				12.5 x 1	412	412	2.3
3	(N)ERM030CD-SD		9.2	17/3		4.7	17.3	8.3	0.54	3.4	1.7				10.2 x 2	340	351	3.2
5	(N)ERM050LD-SD			11/2		4.7	17.3	8.3	1.0	5.4	2.7	3.94 to 7.01	7.02 to 7.60 OR 7.61 to 12.00	70.9	11.2 x 2	439	452	3.8

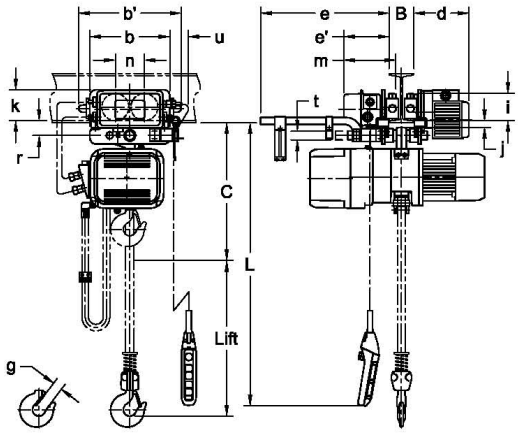
The (N)ERM030LD-SD listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.
***Flange widths smaller than 4 inches will have a minimum radius of 137.8 inches.*
†Flange widths smaller than 5 inches will have a minimum radius of 39.4 inches.
‡Although both 208/230 & 460 Volts are shown together, the motors are NOT reconnectable.
Hoist speed ratio is 6:1 with adjustability up to 12:1.
Trolley speed ratio is 6:1 with adjustability up to 10:1.

Electric Chain Hoists
NERM, Dual Speed

HARRINGTON
HOISTS AND CRANES

With Motorized Trolleys





NERM/ERM020LD-SD (Shown with optional canvas chain container)

DUAL SPEED HOIST WITH DUAL SPEED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	b (in)	b' (in)	d (in)	e (in)	e' (in)	g (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/8	(N)ERM001HD-SD	14.8	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/4	(N)ERM003SD-SD	14.8	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/4	(N)ERM003HD-SD	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/2	(N)ERM005LD-SD	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1/2	(N)ERM005SD-SD	15.6	12.4	15.6	8.7	20.3	7.1	1.1	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1	(N)ERM010LD-SD	17.1	12.4	15.6	8.7	20.3	7.1	1.2	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1	(N)ERM010SD-SD	17.1	12.4	15.6	8.7	20.3	7.1	1.2	3.74	0.9	5.1	8.1	4.3	2.0	1.22	3.3
1 1/2	(N)ERM015SD-SD	19.9	12.8	16.4	8.8	20.5	7.3	1.4	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020CD-SD	27.2	12.8	16.4	8.8	20.5	7.3	1.5	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020LD-SD	22.4	12.8	16.4	8.8	20.5	7.3	1.6	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2	(N)ERM020SD-SD	23.0	12.8	16.4	8.8	20.5	7.3	1.6	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
2 1/2	(N)ERM025SD-SD	24.4	13.4	17.4	8.9	20.5	7.3	1.6	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.8
3	(N)ERM030LD-SD*	28.0	13.4	17.4	10.8	20.5	7.3	1.7	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.7
3	(N)ERM030CD-SD	32.9	13.4	17.4	8.9	20.5	7.3	1.8	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.8
5	(N)ERM050LD-SD	33.1	15.7	19.8	11.1	20.8	7.6	1.9	5.51	1.7	5.7	9.2	5.9	3.4	2.13	2.2

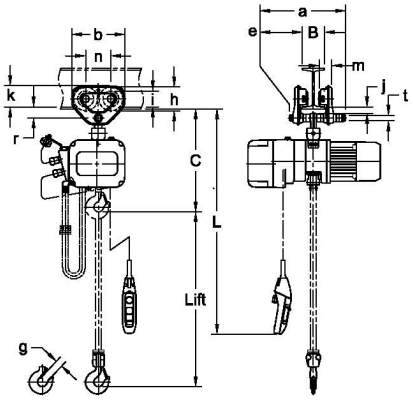
The (N)ERM030LD-SD listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.
Hoist speed ratio is 6:1 with adjustability up to 12:1.
Trolley speed ratio is 6:1 with adjustability up to 10:1.

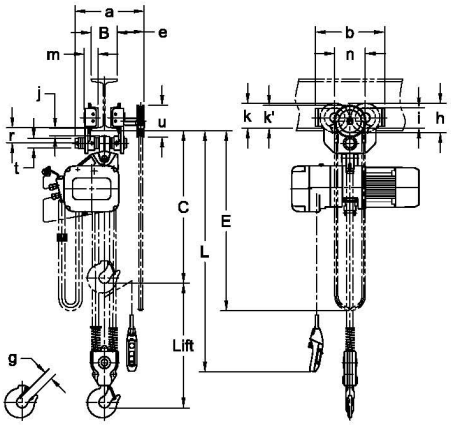
Electric Chain Hoists
NERP/NERG, Single Speed

HARRINGTON HOISTS AND CRANES

With Push or Geared Trolleys







NERP/ERP010S (Shown with optional canvas chain container and rubber bumpers)

SINGLE SPEED HOIST WITH PUSH OR GEARED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Flange Width Adjustability B (in)		Min.** Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Standard	Optional			NER	ER	
1/8	(N)ERP(ERG)001H	10	8.2	55	0.75	3.4	1.7	2.28 to 4.00 (2.28 to 5.00)	4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00	43.3 (51.2)	4.3 x 1	71 (88)	73 (90)	0.28 (.94)
1/4	(N)ERP(ERG)003S			36	0.75	3.4	1.7				4.3 x 1	71 (88)	73 (90)	0.28 (.94)
1/4	(N)ERP(ERG)003H			53	1.2	4.8	2.5				6.0 x 1	90 (108)	93 (110)	0.54 (1.1)
1/2	(N)ERP(ERG)005L			15	0.75	3.4	1.7				6.0 x 1	82 (99)	90 (106)	0.54 (1.1)
1/2	(N)ERP(ERG)005S			29	1.2	4.8	2.5				6.0 x 1	90 (108)	93 (110)	0.54 (1.1)
1	(N)ERP(ERG)010L			14	1.2	4.8	2.5	2.28 to 5.00	5.01 to 8.00 OR 8.01 to 12.00	51.2	7.7 x 1	121 (130)	128 (137)	0.89 (1.6)
1	(N)ERP(ERG)010S			28	2.4	8.6	4.2				7.7 x 1	137 (146)	137 (146)	0.89 (1.6)
1 1/2	(N)ERP(ERG)015S			18	2.4	8.6	4.2	3.23 to 6.02	6.03 to 12.00	59.1	10.2 x 1	187 (196)	201 (209)	1.6 (2.2)
2	(N)ERP(ERG)020C			7	1.2	4.8	2.5				7.7 x 2	161 (172)	165 (176)	1.8 (2.4)
2	(N)ERP(ERG)020L			14	2.4	8.6	4.2				10.2 x 1	190 (198)	203 (212)	1.6 (2.2)
2	(N)ERP(ERG)020S			28	4.7	16.4	7.9				10.2 x 1	231 (240)	229 (238)	1.6 (2.2)
2 1/2	(N)ERP(ERG)025S			22	4.7	16.4	7.9			66.9	11.2 x 1	280 (289)	278 (287)	1.9 (2.5)
3	(N)ERP(ERG)030L*			16	4.7	18.3	9.2				12.5 x 1	311 (322)	311 (322)	2.3(2.9)
3	(N)ERP(ERG)030C		9.2	17	4.7	16.4	7.9				10.2 x 2	284 (293)	282 (291)	3.2 (3.8)
5	(N)ERP(ERG)050L			11	4.7	16.4	7.9	3.94 to 7.02	7.03 to 12.00	90.6	11.2 x 2	399 (415)	395 (410)	3.8 (4.4)

Figures in parentheses are data for geared trolley.

The (N)ERP(ERG)030L listed are the previous hoist models. Refer to Harrington catalog C-EPH for features and benefits.

***Minimum Flange Width for curved beam: 1 Ton Push and 1/8 to 1 Ton Geared = 2.87 in.*
3 Ton Push or Geared = 3.50 in

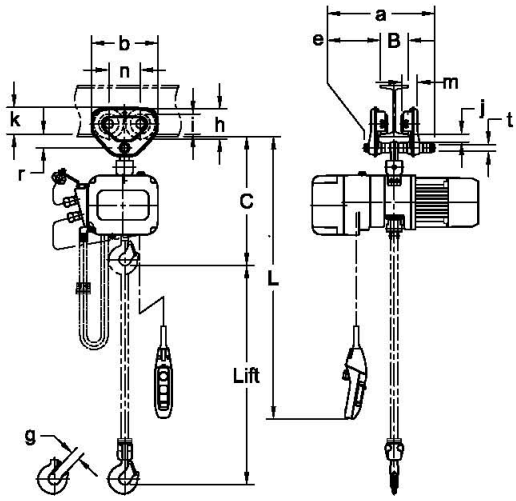
Electric Chain Hoists

NERP/ERP & NERG/ERG, Single Speed

HARRINGTON
HOISTS AND CRANES

With Push Trolleys





NERP/ERP010S

SINGLE SPEED HOIST WITH PUSH TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
1/8	(N)ERP001H	15.6	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1/4	(N)ERP003S	15.6	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1/4	(N)ERP003H	16.3	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1/2	(N)ERP005L	16.3	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1/2	(N)ERP005S	16.3	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1	(N)ERP010L	18.5	9.8	9.3	2.2	1.2	4.2	2.80	1.1	3.7	2.2	4.4	2.0	0.98
1	(N)ERP010S	18.5	9.8	9.3	2.2	1.2	4.2	2.80	1.1	3.7	2.2	4.4	2.0	0.98
1 1/2	(N)ERP015S	22.4	11.8	11.0	2.7	1.4	5.0	3.35	1.4	4.4	2.8	5.2	2.4	1.26
2	(N)ERP020C	27.4	11.8	11.0	2.7	1.5	5.0	3.35	1.4	4.4	2.8	5.2	2.4	1.26
2	(N)ERP020L	25.0	11.8	11.0	2.7	1.6	5.0	3.35	1.4	4.4	2.8	5.2	2.4	1.26
2	(N)ERP020S	25.6	11.8	11.0	2.7	1.6	5.0	3.35	1.4	4.4	2.8	5.2	2.4	1.26
2 1/2	(N)ERP025S	26.8	12.6	12.8	3.1	1.6	5.8	3.94	1.4	5.3	3.1	6.0	2.7	1.42
3	(N)ERP030L*	27.8	12.6	12.8	3.1	1.7	5.8	3.94	1.4	5.3	3.1	6.0	2.7	1.42
3	(N)ERP030C	32.7	12.6	12.8	3.1	1.8	5.8	3.94	1.4	5.3	3.1	6.0	2.7	1.42
5	(N)ERP050L	35.4	11.7	15.7	2.1	1.9	6.7	4.65	1.8	5.6	3.2	7.0	3.4	2.13

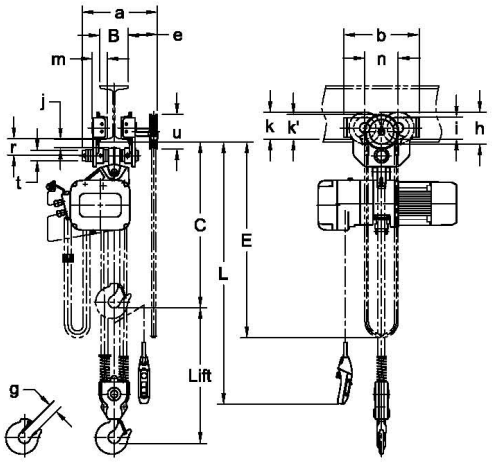
The (N)ERP030L listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.

Electric Chain Hoists
NERG, Single Speed

HARRINGTON
HOISTS AND CRANES

With Geared Trolleys





NERG/ERG050L

SINGLE SPEED HOIST WITH GEARED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	E (ft)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/8	(N)ERG001H	16.3	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1/4	(N)ERG003S	16.3	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1/4	(N)ERG003H	17.1	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1/2	(N)ERG005L	17.1	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1/2	(N)ERG005S	17.1	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1	(N)ERG010L	18.5	10.5	13.6	9.3	6.0	1.2	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1	(N)ERG010S	18.5	10.5	13.6	9.3	6.0	1.2	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1 1/2	(N)ERG015S	22.4	10.5	15.2	11.0	6.1	1.4	5.0	3.35	1.4	4.4	4.3	2.8	5.2	2.4	1.26	7.2
2	(N)ERG020C	27.0	10.5	15.2	11.0	6.1	1.5	5.0	3.35	1.4	4.4	4.3	2.8	5.2	2.4	1.26	7.2
2	(N)ERG020L	25.0	10.5	15.2	11.0	6.1	1.6	5.0	3.35	1.4	4.4	4.3	2.8	5.2	2.4	1.26	7.2
2	(N)ERG020S	25.6	10.5	15.2	11.0	6.1	1.6	5.0	3.35	1.4	4.4	4.3	2.8	5.2	2.4	1.26	7.2
2 1/2	(N)ERG025S	26.8	11.0	15.7	12.8	6.2	1.6	5.8	3.94	1.4	5.3	4.5	3.1	6.0	2.7	1.42	7.2
3	(N)ERG030L*	27.8	11.0	15.7	12.8	6.2	1.7	5.8	3.94	1.4	5.3	4.5	3.1	6.0	2.7	1.42	7.2
3	(N)ERG030C	32.7	11.0	15.7	12.8	6.2	1.8	5.8	3.94	1.4	5.3	4.5	3.1	6.0	2.7	1.42	7.2
5	(N)ERG050L	35.4	11.5	15.8	15.7	6.2	1.9	6.7	4.65	1.8	5.6	5.1	3.2	7.0	3.4	2.13	7.2

**The (N)ERG030L listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.*

Electric Chain Hoists

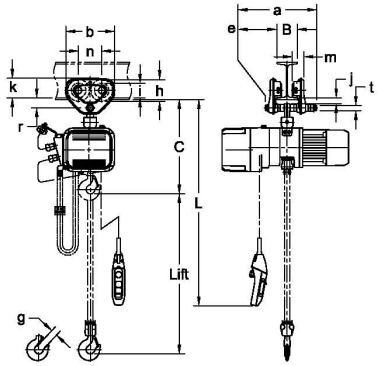
NERP/ERP & NERG/ERG, Dual Speed

HARRINGTON
HOISTS AND CRANES

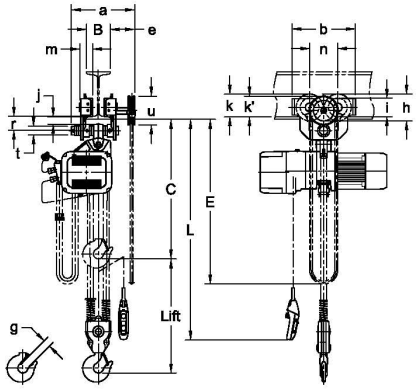
With Push or Geared Trolleys



NERP/ERP010SD
(Shown with optional canvas chain container and rubber bumpers)



NERP/ERP010SD



NERG/ERG050LD

DUAL SPEED HOIST WITH PUSH OR GEARED TROLLEY — SPECIFICATIONS

Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Flange Width Adjustability B (in)		Min.** Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)		Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V	Standard	Optional			NER	ER	
1/8	(N)ERP(ERG)001HD	10	8.2	55/9	0.75	3.6	1.8	2.28 to 4.00 (2.28 to 5.00)	4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00	43.3 (51.2)	4.3 x 1	71 (88)	75 (92)	0.28 (.94)
1/4	(N)ERP(ERG)003SD			36/6	0.75	3.6	1.8				4.3 x 1	71 (88)	75 (92)	0.28 (.94)
1/4	(N)ERP(ERG)003HD			53/9	1.2	5.1	2.7				6.0 x 1	88 (106)	93 (110)	0.54 (1.1)
1/2	(N)ERP(ERG)005LD			15/2.5	0.75	3.6	1.8				6.0 x 1	80 (97)	90 (106)	0.54 (1.1)
1/2	(N)ERP(ERG)005SD			29/5	1.2	5.1	2.7				6.0 x 1	88 (106)	93 (110)	0.54 (1.1)
1	(N)ERP(ERG)010LD			14/2.5	1.2	5.1	2.7	2.28 to 5.00	5.01 to 8.00 OR 8.01 to 12.00	51.2	7.7 x 1	117 (126)	126 (135)	0.89 (1.6)
1	(N)ERP(ERG)010SD			28/4.5	2.4	9.1	4.5				7.7 x 1	132 (141)	135 (143)	0.89 (1.6)
1 1/2	(N)ERP(ERG)015SD			18/3	2.4	9.1	4.5	3.23 to 6.02	6.03 to 12.00	59.1	10.2 x 1	187 (196)	203 (212)	1.6 (2.2)
2	(N)ERP(ERG)020CD			7/1	1.2	5.1	2.7				7.7 x 2	154 (165)	163 (174)	1.8 (2.4)
2	(N)ERP(ERG)020LD			14/2.5	2.4	9.1	4.5				10.2 x 1	190 (198)	203 (212)	1.6 (2.2)
2	(N)ERP(ERG)020SD			28/4.5	4.7	17.3	8.3				10.2 x 1	227 (236)	234 (243)	1.6 (2.2)
2 1/2	(N)ERP(ERG)025SD			22/3.5	4.7	17.3	8.3			66.9	11.2 x 1	271 (280)	284 (293)	1.9 (2.5)
3	(N)ERP(ERG)030LD*			17/6	4.7/1.6	19.6/9.4	9.8/4.7				12.5 x 1	355 (366)	355 (366)	2.3 (2.9)
3	(N)ERP(ERG)030CD		9.2	17/3	4.7	17.3	8.3				10.2 x 2	280 (289)	287 (295)	3.2 (3.8)
5	(N)ERP(ERG)050LD			11/2	4.7	17.3	8.3	3.94 to 7.02	7.03 to 12.00	90.6	11.2 x 2	390 (406)	404 (419)	3.8 (4.4)

Figures in parentheses are data for geared trolley.

The (N)ERP(ERG)030LD listed are the previous hoist models. Refer to Harrington catalog C-EPH for features and benefits.

***Minimum Flange Width for curved beam: 1 Ton Push and 1/8 to 1 Ton Geared = 2.87 in.*
3 Ton Push or Geared = 3.50 in

Speed ratio is 6:1 with adjustability up to 12:1.

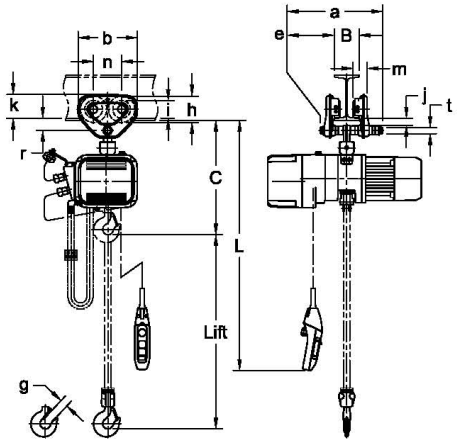
Electric Chain Hoists
NERP, Dual Speed

HARRINGTON HOISTS AND CRANES

With Push Trolleys



NERP/ERP010SD (Shown with optional canvas chain container and rubber bumpers)



NERP/ERP010SD

DUAL SPEED HOIST WITH PUSH TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
1/8	(N)ERP001HD	15.6	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1/4	(N)ERP003SD	15.6	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1/4	(N)ERP003HD	16.3	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1/2	(N)ERP005LD	16.3	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1/2	(N)ERP005SD	16.3	8.0	7.2	1.8	1.1	3.2	2.36	0.8	3.0	1.9	3.3	1.5	0.87
1	(N)ERP010LD	18.5	9.8	9.3	2.2	1.2	4.2	2.80	1.1	3.7	2.2	4.4	2.0	0.98
1	(N)ERP010SD	18.5	9.8	9.3	2.2	1.2	4.2	2.80	1.1	3.7	2.2	4.4	2.0	0.98
1 1/2	(N)ERP015SD	22.4	11.8	11.0	2.7	1.4	5.0	3.35	1.4	4.4	2.8	5.2	2.4	1.26
2	(N)ERP020CD	27.4	11.8	11.0	2.7	1.5	5.0	3.35	1.4	4.4	2.8	5.2	2.4	1.26
2	(N)ERP020LD	25.0	11.8	11.0	2.7	1.6	5.0	3.35	1.4	4.4	2.8	5.2	2.4	1.26
2	(N)ERP020SD	25.6	11.8	11.0	2.7	1.6	5.0	3.35	1.4	4.4	2.8	5.2	2.4	1.26
2 1/2	(N)ERP025SD	26.8	12.6	12.8	3.1	1.6	5.8	3.94	1.4	5.3	3.1	6.0	2.7	1.42
3	(N)ERP030LD*	30.3	12.6	12.8	3.1	1.7	5.8	3.94	1.4	5.3	3.1	6.0	2.7	1.42
3	(N)ERP030CD	32.7	12.6	12.8	3.1	1.8	5.8	3.94	1.4	5.3	3.1	6.0	2.7	1.42
5	(N)ERP050LD	35.4	11.7	15.7	2.1	1.9	6.7	4.65	1.8	5.6	3.2	7.0	3.4	2.13

The (N)ERP030LD listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.
Speed ratio is 6:1 with adjustability up to 12:1.

Electric Chain Hoists

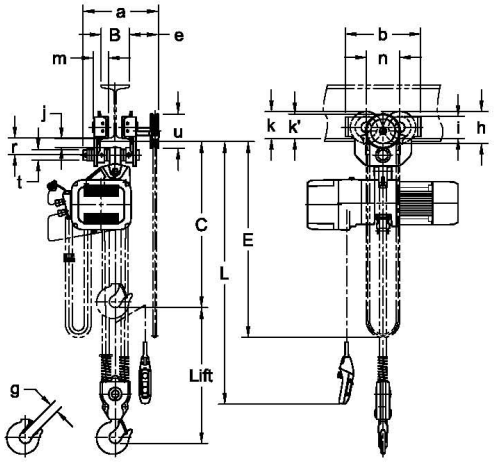
NERP/ERP & NERG/ERG, Dual Speed

HARRINGTON
HOISTS AND CRANES

With Geared Trolleys



NERG/ERG050LD



NERG/ERG050LD

DUAL SPEED HOIST WITH GEARED TROLLEY — DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	E (ft)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/8	(N)ERG001HD	16.3	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1/4	(N)ERG003SD	16.3	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1/4	(N)ERG003HD	17.1	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1/2	(N)ERG005LD	17.1	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1/2	(N)ERG005SD	17.1	10.5	13.6	9.3	6.0	1.1	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1	(N)ERG010LD	18.5	10.5	13.6	9.3	6.0	1.2	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1	(N)ERG010SD	18.5	10.5	13.6	9.3	6.0	1.2	4.2	2.80	1.1	3.7	4.2	2.2	4.4	1.9	0.98	7.2
1 1/2	(N)ERG015SD	22.4	10.5	15.2	11.0	6.1	1.4	5.0	3.35	1.4	4.4	4.3	2.8	5.2	2.4	1.26	7.2
2	(N)ERG020CD	27.0	10.5	15.2	11.0	6.1	1.5	5.0	3.35	1.4	4.4	4.3	2.8	5.2	2.4	1.26	7.2
2	(N)ERG020LD	25.0	10.5	15.2	11.0	6.1	1.6	5.0	3.35	1.4	4.4	4.3	2.8	5.2	2.4	1.26	7.2
2	(N)ERG020SD	25.6	10.5	15.2	11.0	6.1	1.6	5.0	3.35	1.4	4.4	4.3	2.8	5.2	2.4	1.26	7.2
2 1/2	(N)ERG025SD	26.8	11.0	15.7	12.8	6.2	1.6	5.8	3.94	1.4	5.3	4.5	3.1	6.0	2.7	1.42	7.2
3	(N)ERG030LD*	30.3	11.0	15.7	12.8	6.2	1.7	5.8	3.94	1.4	5.3	4.5	3.1	6.0	2.7	1.42	7.2
3	(N)ERG030CD	32.7	11.0	15.7	12.8	6.2	1.8	5.8	3.94	1.4	5.3	4.5	3.1	6.0	2.7	1.42	7.2
5	(N)ERG050LD	35.4	11.5	15.8	15.7	6.2	1.9	6.7	4.65	1.8	5.6	5.1	3.2	7.0	3.4	2.13	7.2

The (N)ERG030LD listed is the previous hoist model. Refer to Harrington catalog C-EPH for features and benefits.

Speed ratio is 6:1 with adjustability up to 12:1.

Electric Chain Hoists
NER/ER Cylinder Control

HARRINGTON
HOISTS AND CRANES

With Hook and Lug Suspensions



NER003SCC

We have expanded the benefits of the ergonomically designed cylinder control into our full-featured NER/ER Series of electric chain hoists. For three-phase applications requiring ease of control, one-handed operation, fast lifting speeds and heavy duty production, these hoists will increase productivity, add to operator comfort and answer your ergonomic needs.

Features and Benefits

Easy Access Suspension
External pins allow for quick change from hook to lug for trolley mount configurations on most models.

Green Initiative
Built smarter without the use of harmful materials. Environmentally friendly. RoHS compliant.

Notched Hook and Latch System
Provides positive closing and improves resistance against lateral forces.

Limit Switches
Low-profile upper and lower limit switches are standard.

Extended Chain Life
Decreased chain wear as a result of a revolutionary heat treatment process, improved material and chain size.

Low/High Speeds
Rocker switch above handgrip on dual speed models allows quick selection of low or high speed.

High Air Flow
Cooler motor and brake attributed to an engineered motor fin, fan blade and fan cover design.

Unique Load Sheave
Increased number of pockets reduce chain vibration and increase chain life. 5 pockets standard; 6 pockets on smaller body hoists.

Friction Clutch and Load Brake
Friction clutch is standard on NER/ER models and friction clutch with mechanical load brake standard on ER models. Carbon friction material provides consistent performance over a wide temperature range.

Standard Count Hour Meter
Records and displays the number of lowering starts and hoist on time which is valuable for preventive maintenance. Integral to VFD on dual speed models.

Removable Bottom Hook
Permits insertion of below-the-hook devices.

Contactors
Mechanically interlocked, heavy-duty contactors on single speed models.

High Strength, Corrosion and Wear Resistant Load Chain
Grade 80, super strength, nickel-plated load chain, certified to DIN standards, uses unique technology to greatly increase resistance to fatigue and wear.

Dual Speed VFD
Under-the-cover VFD standard for dual speed hoists. Speed ratio is 6:1 with adjustability up to 12:1.

"The Guardian": Smart Brake Technology
A current driven electromagnetic brake does not release unless the motor is energized. 10 year hoist brake warranty.

Unique Cylinder Control
In-line handgrip permits one handed operation. Available on hoist or as a kit for field installation.

Standard Hoist Specifications

Capacity Range
NER/ER – 1/8 Ton – 1/4 Ton

Standard Voltage
208-230 / 460-3-60
Optional voltages available
Dual speed models are not reconnectable

Control Voltage
110V (optional 24V)

Duty Cycle*
Single Speed – 60 Min.
Dual Speed – 30/10 Min. with VFD

Classification*
ASME H4
ISO M5
FEM 2M or 1Am

Ratings
Hoist – IP55
Pendant – IP65

Upper/Lower Limit Switch
Overwinding / overlifting device
Standard on all models

Chain Falls
Single chain fall

Standard Lift
6' (longer lifts not available)

Standard Reach
9' (approx)
(reach equals lift plus headroom)

Standard Power Supply Length
15' (longer lengths available)

Mounting
Hook, lug or trolley

Standard Pendants
Single speed: 2-button (momentary contacts)
Dual speed: 2-button (momentary contacts) with emergency On/Off (maintained contacts)

Chain Containers
Standard
Plastic

Operating Conditions
Recommended for -4˚ to +104˚ F and humidity of 85% or less.

NER vs. ER Features
ER model has same high-quality features as NER plus the following:
- Second brake—Weston-style mechanical load brake

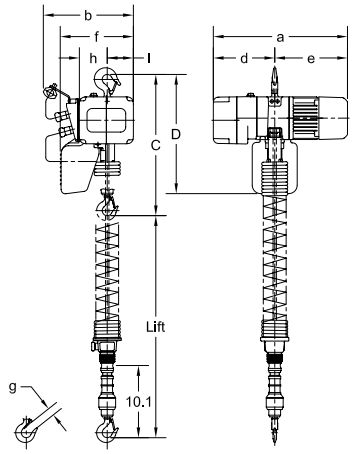
Electric Chain Hoists

NER/ER Single & Dual Speed

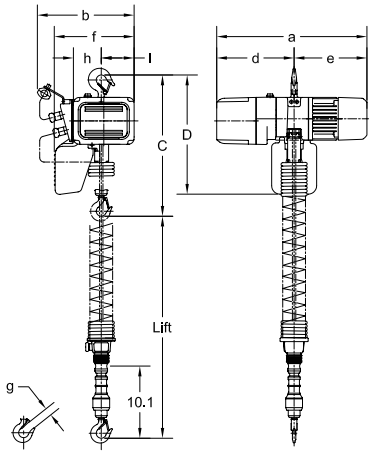
HARRINGTON
HOISTS AND CRANES



NER003SCC



NER003SCC



NER003SDCC

Dimensions for NER/ER Cylinder Control Model (inches)

NER/ER CYLINDER CONTROL — SINGLE SPEED SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	
				Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V		NER	ER
1/8	(N)ER001HCC	6	55	0.75	3.4	1.7	4.3 x 1	66	68
1/4	(N)ER003SCC	6	36	0.75	3.4	1.7	4.3 x 1	66	68

SINGLE SPEED DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	D (in)	a (in)		b (in)		d (in)		e (in)	f (in)		g (in)	h (in)	i (in)	
				NER	ER	NER	ER	NER	ER		NER	ER			NER	ER
1/8	(N)ER001HCC	41.9	19.3	18.8	22.2	12.6	13.6	8.6	12.0	10.2	10.2	11.2	1.1	3.9	3.7	4.6
1/4	(N)ER003SCC	41.9	19.3	18.8	22.2	12.6	13.6	8.6	12.0	10.2	10.2	11.2	1.1	3.9	3.7	4.6

NER/ER CYLINDER CONTROL — DUAL SPEED SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz*			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	
				Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V		NER	ER
1/8	(N)ER001HDCC	6	55/9	0.75	3.6	1.8	4.3 x 1	64	68
1/4	(N)ER003SDCC	6	36/6	0.75	3.6	1.8	4.3 x 1	64	68

Although both 208/230 & 460 Volts are shown together, the motors are **NOT reconnectable.*
Speed ratio is 6:1 with adjustability up to 12:1.

DUAL SPEED DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	D (in)	a (in)		b (in)	d (in)		e (in)	f (in)	g (in)	h (in)	i (in)
				NER	ER		NER	ER					
1/8	(N)ER001HDCC	41.9	19.3	21.1	22.2	13.6	10.9	12.0	10.2	11.2	1.1	3.9	4.6
1/4	(N)ER003SDCC	41.9	19.3	21.1	22.2	13.6	10.9	12.0	10.2	11.2	1.1	3.9	4.6

Electric Chain Hoists
SNER, Single Speed

HARRINGTON
HOISTS AND CRANES

SNER Electric Chain Hoists with Hook and Lug Suspensions and Motorized, Push and Geared Trolleys



SNER005L

Our SNER Series of electric chain hoists furnishes single-phase operation in a heavy-duty, low-headroom design. Available in hook mount or coupled with a trolley, it easily transports any load. Look to this model when high quality and convenience are important for the job.

Features and Benefits

Extreme Duty Motor
Higher horsepower and top duty ratings provide increased performance.

Pull-Rotor Motor Brake
Extremely durable and reliable, this advanced design has no brake coil to fail.

Unique Chain Guide
Provides quiet and smooth guiding of chain. Easily removed without disassembly of hoist. Heavy cast iron construction for improved wear.

Load Sheave
Deep-groove pockets fully support the load chain, reduces vibration and chain wear and provides a true vertical lift.

Long Life Friction Clutch
Protects hoist from damage and prevents overwinding.

Heat Treated Helical and Spur Gears
Precision machined for long life. Oil bath lubrication results in a quiet, smooth, cool operation.

Completely Sealed Body
Suitable for indoor, outdoor and harsh environments.

Compact Aluminum Body
Die-cast body is lightweight and offers low headroom.

Easy Maintenance Control Panel
Fast on-site access with hinged cover, single swing-out panel and simple layout of controls.

Superior Quality Chain
Grade 80 nickel-plated load chain is heat treated for wear resistance and extended life.

Forged Carbon Steel Hooks
Under excessive loads will open gradually and not fracture.
Bottom hook swivels 360 degrees.

Motorized Trolley Side Guide Rollers
Provide smooth trolley motion and reduced wear on wheels and beam.

Motorized Trolley Drop Stops and Rubber Bumpers
Built-in security for the operator and added protection for the equipment and load.

Standard Hoist/Trolley Specifications

Capacity Range
1/4 Ton–3 Ton

Reconnectible Voltage
115/230-1-60

Control Voltage
110V

Duty Cycle*
Hoist—60 Min., Trolley—30 Min.

Classification*
ASME H4, ISO M5 or M4, FEM 2m or 1Am

Ratings
Hoist/Trolley—IP55
Pendant—IP65

Limit Switch
Prevents overwinding/overlifting
Standard upper

Chain Falls
Single fall through 2 Ton

Standard Lengths
Lift—10'
Pendant Drop—4' less than lift
Power Supply—Hoist—15'
Power Supply—Motorized Trolley—30'
(longer lengths available)

Standard Pendants
Hoist—2 Button,
Hoist/Trolley—4 Button
Momentary contacts

Chain Containers
Optional
Canvas, plastic or steel

Geared Trolley Standard Hand Chain Drop
2' less than lift
(longer drops available)

Trolley Shafts
Standard shafts fit wide flange range
Longer shafts for wider beams
Spacers for easy adjustments

Trolley Wheels
All steel
Shielded ball bearings
Fit flat or tapered beam flange

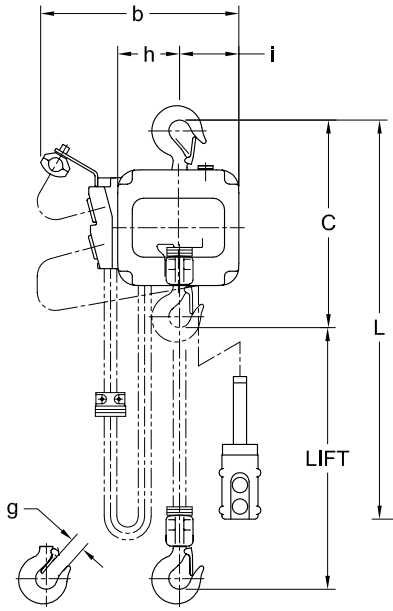
Electric Chain Hoists

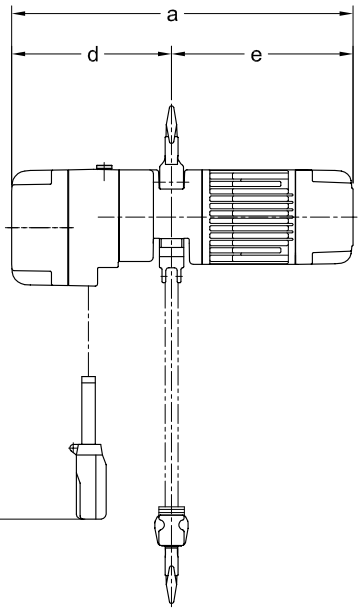
SNER, Single Speed

HARRINGTON
HOISTS AND CRANES



SNER005L





SNER005L

SINGLE SPEED—SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor Single Phase 60 Hz			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps) @115V	Rated Current (amps) @230V			
1/4	SNER003S	10	7.2	14	0.34	7.7	3.9	5.0 x 1	82	0.37
1/2	SNER005L			7				6.3 x 1	84	0.57
1/2	SNER005S			15	0.6	16.9	8.5	6.3 x 1	104	0.57
1	SNER010L			7				8.0 x 1	110	0.93
1	SNER010S			14	1.2	23.9	12.0	8.0 x 1	159	0.93
2	SNER020L			7				10.0 x 1	174	1.5
3	SNER030C		8.2	3.5				10.0 x 2	207	3.1

SINGLE SPEED—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)
1/4	SNER003S	13.8	22.2	13.0	10.4	11.9	0.9	4.0	3.9
1/2	SNER005L	14.0	22.2	13.0	10.4	11.9	0.9	4.0	3.9
1/2	SNER005S	14.6	23.2	13.8	10.6	12.6	0.9	4.7	4.1
1	SNER010L	16.1	23.2	13.8	10.6	12.6	1.2	4.7	4.1
1	SNER010S	17.3	26.9	16.5	12.4	14.4	1.2	6.1	5.2
2	SNER020L	22.6	26.9	16.5	12.4	14.4	1.5	6.1	5.2
3	SNER030C	29.5	26.9	16.5	12.4	14.4	1.7	8.2	3.0

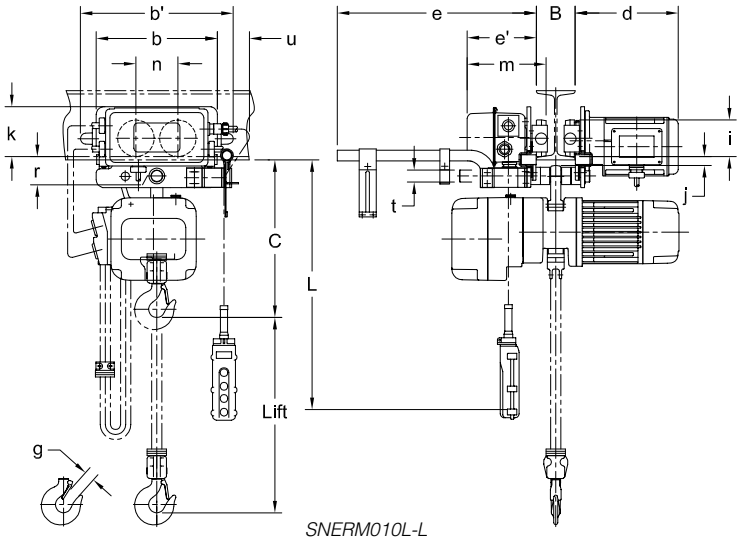
Electric Chain Hoists
SNER, Single Speed

HARRINGTON
HOISTS AND CRANES

SNER Electric Chain Hoists with Hook and Lug Suspensions and Motorized, Push and Geared Trolleys



SNERM005L



SNERM010L-L

SINGLE SPEED HOIST WITH SINGLE SPEED TROLLEY—SPECIFICATIONS

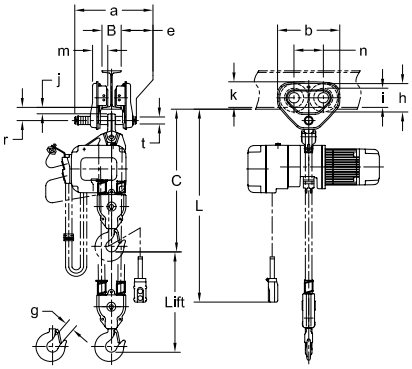
Cap. (Tons)	Product Code	Std. Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Traversing Speed (ft/min)	Lifting Motor Single Phase 60 Hz			Traversing Motor Single Phase 60 Hz			Flange Width Adjustability B (in)		Min. Allow. Radius for curve (in)	Load Chain Dia. (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
						Output (Hp)	Rated Current (amps) @ 115V	Rated Current (amps) @ 230V	Output (Hp)	Rated Current (amps) @ 115V	Rated Current (amps) @ 230V	Standard	Optional				
1/4	SNERM003S-L/S	10	7.5	14	L = 40 S = 80	0.34	7.7	3.9	0.54	6.2	3.1	2.28 to 5.00	5.01 to 6.02 OR 6.03 to 12.00	31.5	5.0 x 1	168	0.37
1/2	SNERM005L-L/S			7											6.3 x 1	170	0.57
1/2	SNERM005S-L/S			15		0.6	16.9	8.5							6.3 x 1	190	0.57
1	SNERM010L-L/S			7											8.0 x 1	196	0.93
1	SNERM010S-L/S			14		1.2	23.9	12.0							8.0 x 1	245	0.93
2	SNERM020L-L/S			7								3.23 to 6.02	6.03 to 7.02 OR 7.03 to 12.00	39.4	10.0 x 1	276	1.5
3	SNERM030C-L/S		8.2	3.5											10.0 x 2	322	3.1

SINGLE SPEED HOIST WITH SINGLE SPEED TROLLEY—DIMENSIONS

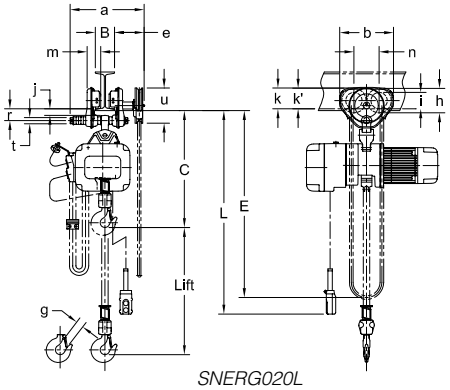
Cap. (Tons)	Product Code	Headroom C (in)	b (in)	b' (in)	d (in)	e (in)	e' (in)	g (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/4	SNERM003S-L/S	14.6	12.4	15.6	10.6	20.3	7.0	0.9	3.74	0.9	5.1	8.0	4.3	2.0	1.22	3.2
1/2	SNERM005L-L/S	14.6	12.4	15.6	10.6	20.3	7.0	0.9	3.74	0.9	5.1	8.0	4.3	2.0	1.22	3.2
1/2	SNERM005S-L/S	15.4	12.4	15.6	10.6	20.3	7.0	0.9	3.74	0.9	5.1	8.0	4.3	2.0	1.22	3.2
1	SNERM010L-L/S	16.5	12.4	15.6	10.6	20.3	7.0	1.2	3.74	0.9	5.1	8.0	4.3	2.0	1.22	3.2
1	SNERM010S-L/S	17.7	12.4	15.6	10.6	20.3	7.0	1.2	3.74	0.9	5.1	8.0	4.3	2.0	1.22	3.2
2	SNERM020L-L/S	22.2	12.8	16.4	10.7	20.5	7.2	1.5	4.33	1.1	4.9	8.3	4.6	2.4	1.42	3.0
3	SNERM030C-L/S	28.9	13.4	17.4	10.8	20.5	7.3	1.7	4.92	1.1	5.2	8.5	5.2	2.7	1.69	2.7

Electric Chain Hoists
SNERP, Single Speed

HARRINGTON
HOISTS AND CRANES



SNERP030C



SNERG020L

SINGLE SPEED HOIST WITH PUSH OR GEARED TROLLEY—SPECIFICATIONS

Cap. (Tons)	Product Code	Std Lift (ft)	Push Button Cord L (ft)	Lifting Speed (ft/min)	Lifting Motor Single Phase 60 Hz			Flange Width Adjustability B (in)		Min.* Allow. Radius for curve (in)	Load Chain Dia. (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps) @115V	Rated Current (amps) @230V	Standard	Optional				
1/4	SNERP(SNERG)003S	10	7.5	14	0.34	7.7	3.9	2.28 to 4.00 (2.28 to 5.00)	4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00	43.3 (51.2)	5.0 x 1	93 (110)	0.37 (1.0)
1/2	SNERP(SNERG)005L			7							6.3 x 1	95 (112)	0.57 (1.2)
1/2	SNERP(SNERG)005S			15	0.6	16.9	8.5				6.3 x 1	115 (135)	0.57 (1.2)
1	SNERP(SNERG)010L			7				2.28 to 5.00	5.01 to 8.00 OR 8.01 to 12.00	51.2	8.0 x 1	130 (141)	0.93 (1.5)
1	SNERP(SNERG)010S			14	1.2	23.9	12.0			51.2	8.0 x 1	179 (190)	0.93 (1.5)
2	SNERP(SNERG)020L			7				3.23 to 6.02	6.03 to 12.00	59.1	10.0 x 1	209 (220)	1.5 (2.2)
3	SNERP(SNERG)030C		8.2	3.5						66.9	10.0 x 2	251 (262)	3.1 (3.7)

Figures in parentheses are data for geared trolley.
**Minimum flange width for curved beam: 1 Ton Push and 1/4 to 1 Ton Geared = 2.87 in.; 3 Ton Push or Geared = 3.50 in.*

SINGLE SPEED HOIST WITH PUSH TROLLEY—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
1/4	SNERP003S	15.4	8.0	7.2	1.8	0.9	3.2	2.36	0.7	3.0	1.9	3.3	1.5	0.87
1/2	SNERP005L	15.4	8.0	7.2	1.8	0.9	3.2	2.36	0.7	3.0	1.9	3.3	1.5	0.87
1/2	SNERP005S	16.1	8.0	7.2	1.8	0.9	3.2	2.36	0.7	3.0	1.9	3.3	1.5	0.87
1	SNERP010L	18.1	9.8	9.3	2.2	1.2	4.2	2.80	1.1	3.7	2.2	4.4	2.0	0.98
1	SNERP010S	19.5	9.8	9.3	2.2	1.2	4.2	2.80	1.1	3.7	2.2	4.4	2.0	0.98
2	SNERP020L	24.6	11.8	11.0	2.7	1.5	5.0	3.35	1.3	4.4	2.8	5.2	2.4	1.26
3	SNERP030C	29.3	12.6	12.8	3.1	1.7	5.8	3.94	1.4	5.3	3.1	6.0	2.7	1.42

SINGLE SPEED HOIST WITH GEARED TROLLEY—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	E (ft)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/4	SNERG003S	16.1	10.5	13.6	9.3	6.0	0.9	4.2	2.80	1.1	3.7	4.2	2.2	4.4	2.0	0.98	7.2
1/2	SNERG005L	16.1	10.5	13.6	9.3	6.0	0.9	4.2	2.80	1.1	3.7	4.2	2.2	4.4	2.0	0.98	7.2
1/2	SNERG005S	16.9	10.5	13.6	9.3	6.0	0.9	4.2	2.80	1.1	3.7	4.2	2.2	4.4	2.0	0.98	7.2
1	SNERG010L	18.1	10.5	13.6	9.3	6.0	1.2	4.2	2.80	1.1	3.7	4.2	2.2	4.4	2.0	0.98	7.2
1	SNERG010S	19.5	10.5	13.6	9.3	6.0	1.2	4.2	2.80	1.1	3.7	4.2	2.2	4.4	2.0	0.98	7.2
2	SNERG020L	24.6	10.5	15.2	11.0	6.1	1.5	5.0	3.35	1.3	4.4	4.3	2.7	5.2	2.4	1.26	7.2
3	SNERG030C	29.3	11.0	15.7	12.8	6.2	1.7	5.8	3.94	1.4	5.3	4.5	3.1	6.0	2.7	1.42	7.2

Theatrical Chain Hoists
TNER Series, Single Speed

HARRINGTON
HOISTS AND CRANES

TNER Series Theatrical Chain Hoists



TNER010L

Our TNER Series theatrical chain hoists were designed using the latest technology for handling stage and theatrical equipment. These high quality, low-headroom, full-featured hoists provide reliable performance for use in theaters, concert halls, arenas and studios.

Features

Standards
Hoist exceeds stringent world standards; complies with German regulation BGV-D8. Standard configuration meets CE Declaration.

Pull-Rotor Motor Brake
World's most reliable theatrical hoist brake. Simple design. No brake coil to fail or brake disc to replace. **5 year hoist brake warranty.**

Unique Chain Guide
Provides quiet and smooth guiding of chain into hoist and chain container. Durable, heavy cast iron construction.

Sleek Rounded Body
Rugged aluminum housing; no sharp edges and flexible soft-grip handles.

Plug and Play Voltage Changer
Quickly change between 208/230V and 460V. Saves valuable time during setup and integration.

Low Profile Upper/Lower Limit Switches
No adjustment required. Protects hoist and provides maximum travel.

Size and Speed
Designed to fit standard road cases. ½ and 1 Ton—16 fpm; 2 Ton—8 fpm.

Grease-Packed Gearbox
For demanding theatrical applications. Maintenance free. No oil changes required.

Nickel-Plated Load Chain
Meets DIN and EN 818-7 standards. Optional black chain available.

Friction Clutch
Carbon friction material provides consistent performance over a wide temperature range.

Chain Container
Reversible black canvas chain container needed to meet **BGV-D8** regulations. Also designed with two secure attachment points.

Optional Pendant Control (Pickle)
Red button emergency stop. Nema 4X, UL/cUL (CSA) listed.

Standard Hoist Specifications

Capacity Range
1/2 Ton – 2 Ton

Reconnectible Voltage
208-230/460-3-60

Control Voltage
110V

Duty Cycle*
30 Minutes

Classification*
ASME H3
JS/ISO M3
FEM 1Bm

Ratings
Hoist — IP55
Optional Pendant — NEMA 4X, UL/cUL (CSA) listed

Chain Container
Standard
Canvas

Standard Lift
60' (other lengths available)

Standard Pendant and Power Supply Cord
2.5' (longer lengths available)

Optional**
Pendant (Pickle)
Pendant Cord
Power Supply Cord
Hubbell, 7-Pin or 14-Pin Connectors
Road Case
Black Load Chain
Bullard® and Shur-Loc® Hooks

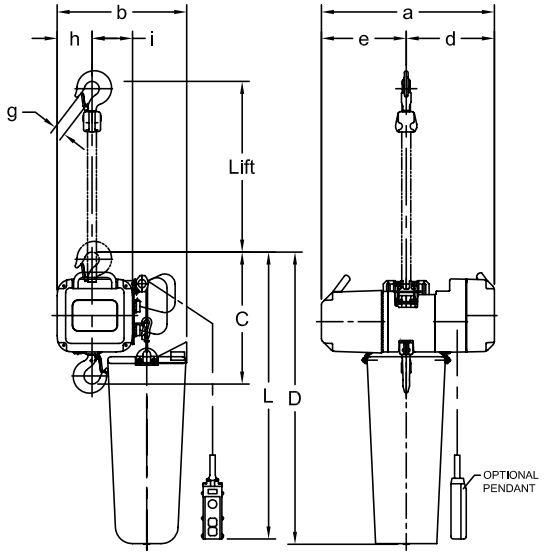
Theatrical Chain Hoists

TNER Series, Single Speed

HARRINGTON
HOISTS AND CRANES



TNER010L



TNER010L

SINGLE SPEED—SPECIFICATIONS

Capacity (Tons)	Product Code	Standard Lift (ft)	Standard Push Button Cord L* (ft)	Lifting Speed (ft/min)	Lifting Motor 3 Phase 60 Hz			Load Chain Diameter (mm) x Chain Fall Lines	Net Weight for 10' Lift (lbs)	Net Weight for 60' Lift (lbs)	Weight for Additional One Foot of Lift (lbs)
					Output (Hp)	Rated Current (amps) @208 – 230V	Rated Current (amps) @460V				
1/2	TNER005L	10 or 60	2.5	16	0.65	3.7	1.8	6.3 x 1	77	104	0.57
1	TNER010L				1.3	5.6	2.8	8.0 x 1	99	146	0.93
1	TNER010S			32	2.4	10.4	5.2		108	155	
2	TNER020L			8	1.3	5.6	2.8	8.0 x 2	126	217	1.9
2	TNER020S			16	2.4	10.4	5.2		135	225	

*Pendant (pickle) is optional.

SINGLE SPEED—DIMENSIONS

Capacity (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	D (in)
1/2	TNER005L	13.2	18.7	14.2	9.6	9.2	0.9	3.9	4.0	35.4
1	TNER010L	16.1	20.0	15.0	10.2	9.8	1.2	4.1	4.7	37.0
1	TNER010S	16.1			8.8	11.2				
2	TNER020L	22.8			10.2	9.8	1.5			48.8
2	TNER020S	22.8			8.8	11.2				

Air Hoists
TCR Series

HARRINGTON
HOISTS AND CRANES

TCR Air Powered Hoists with Pendant and Cord Controls and Hook Suspension

Harrington's TCR Series air hoists offer the benefit of lifting heavier loads while maintaining low headroom and a continuous duty cycle. These hoists are best suited for use in foundries, assembly lines, construction sites and many other demanding applications.

Features and Benefits	Standard Hoist Specifications
Unlimited Duty Cycle For continuous operation **Spring-Loaded Multi-Vane Motor Design** Permits very fine feathering control **High Strength Cast Iron Housing** Proven weather resistant and durable in harsh environments **Airtight Hoist** Results in efficient use of air **Comfortable Noise Levels** External muffler reduces noise level to 80dBA @ 1 yd. with no load **Heavy Duty Self-Adjusting Brake** For precise braking action **Standard Upper & Lower Limit Stops** Prevents over-travel of hook in either direction **Built-in Load Limiter** Pre-set to stop lifting when load is over rated capacity Adjustable **Wear Resistant Load Chain** Grade 80, case-hardened for superior strength	**Capacity Range** 1/4 – 6 Ton (see page 24 for 10 – 25 Ton) **Standard Lift** 10' (longer lifts available) **Standard Pendant or Cord Length** 4' less than lift (longer lengths available) **Air Supply Requirement** 48 – 90 cfm at 60 – 90 psi **Air Lubrication** Minimum 10 to 15 drops of oil per minute (0.2 – 0.3 cc/min.) **Air Filtration** Maximum 5 micron air filter or finer required **Air Inlet Port** 1/2" NPT **Air Supply Hose Minimum Size** 1/4 – 2 Tons — 1/2" 3 – 6 Tons — 3/4" **Operating Conditions** Temperature range +14° to 140°F Humidity 85% or less **Chain Containers** Optional Canvas or Steel

Air Hoists
TCR Series

HARRINGTON
HOISTS AND CRANES

LARGE CAPACITY PENDANT MODEL—SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Hose L (ft)	Up/Down Speeds (ft/min @ 90 psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	Full Load	No Load	Full Load			
10	TCR10000P2	10	8.8	7.2 / 5.9	5.1 / 7.6	220 / 180	180 / 210	16 x 2	476	3.8
25	TCR25000P2		9.4	2.1 / 1.6	1.8 / 2.2	210 / 190	170 / 200	22 x 2	1082	7.0

LARGE CAPACITY PENDANT MODEL—DIMENSIONS

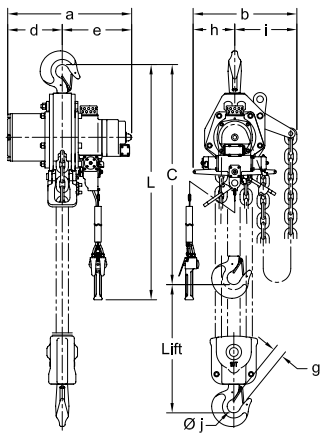
Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)
10	TCR10000P2	35.0	22	18.4	9.7	12.3	1.6	7.4	11.0	2.4
25	TCR25000P2	56.7	27.9	18.8	14.3	13.6	3.1	6.5	12.3	4.9

LARGE CAPACITY CORD MODEL—SPECIFICATIONS

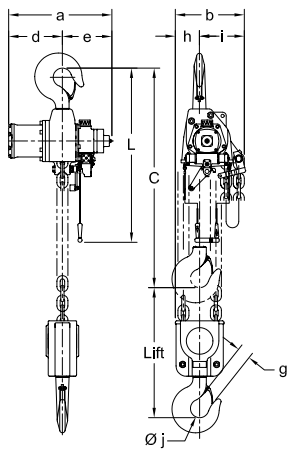
Cap. (Tons)	Product Code	Standard Lift (ft)	Cord L (ft)	Up/Down Speeds (ft/min @ 90 psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	Full Load	No Load	Full Load			
10	TCR10000C2	10	8.1	7.2 / 5.9	5.1 / 7.6	220 / 180	180 / 210	16 x 2	465	3.8
25	TCR25000C2		8.7	2.1 / 1.6	1.8 / 2.2	210 / 190	170 / 200	22 x 2	1074	7.0

LARGE CAPACITY CORD MODEL—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)
10	TCR10000C2	35.0	22	18.4	9.7	12.3	1.6	7.4	11.0	2.4
25	TCR25000C2	56.7	27.9	18.8	14.3	13.6	3.1	6.5	12.3	4.9



TCR10000P2



TCR25000C2

Air Hoists
TCR Series

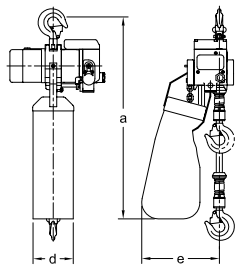
HARRINGTON
HOISTS AND CRANES

TCR Air Powered Hoists with Options

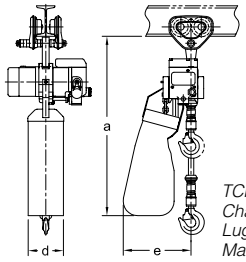
HOISTS WITH CANVAS CHAIN CONTAINERS—DIMENSIONS

Product Code	a (in)				d (in)	e (in)
	TCR	TCRM	TCRP	TCRG		
TCR250C/P	28.7	29.8	29.1	28.8	5.7	11.0
TCR500C/P	28.7	29.8	29.1	28.8	5.7	11.0
TCR1000C2/P2	28.7	29.8	29.5	29.5	5.7	12.0
TCR1000C/P	28.7	29.8	29.5	29.5	5.7	11.0
TCR2000C2/P2	29.7	30.1	29.7	29.7	5.7	12.1
TCR3000C/P	34.6	34.2	34.0	34.0	8.3	12.8
TCR6000C2/P2	35.6	34.4	38.1	38.1	8.3	14.5

**Single fall hoist shown, double fall hoist may look different.*



*TCR with Canvas Chain Container Hook Mount**

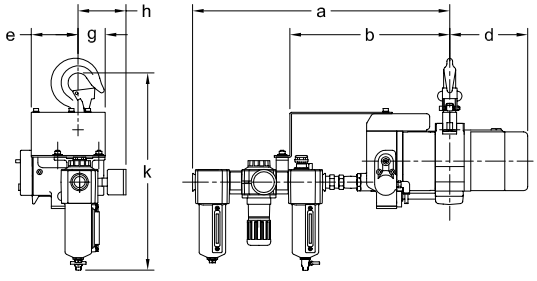


*TCR with Canvas Chain Container Lug Mounted to Manual Trolley**

HOISTS WITH L, FL AND FRL—DIMENSIONS

Cap. (Tons)	Product Code	a (in)			b (in)	d (in)	e (in)	g (in)	h (in)	k (in)
		L	FL	FRL					FRL	
1/4	TCR250C/P	14.2	16.6	20.3	12.6	6.1	3.7	2.1	3.8	15.6
1/2	TCR500C/P	14.2	16.6	20.3	12.6	6.1	3.7	2.1	3.8	15.6
1	TCR1000C2/P2	14.2	16.6	20.3	12.6	6.1	3.7	2.1	3.8	15.6
1	TCR1000C/P	14.2	16.6	20.3	12.6	6.1	3.7	2.1	3.8	15.6
2	TCR2000C2/P2	14.2	16.6	20.3	12.6	6.1	3.7	2.1	3.8	16.6
3	TCR3000C/P	16.6	19.0	22.7	15.0	8.0	3.7	2.1	3.8	18.4
6	TCR6000C2/P2	16.6	19.0	22.7	15.0	8.0	3.7	2.1	3.8	19.4

L = Lubricator
FL = Filter and Lubricator
FRL = Filter, Regulator and Lubricator



TCR with L, FL and FRL

Air Hoists
TCR Series

HARRINGTON
HOISTS AND CRANES

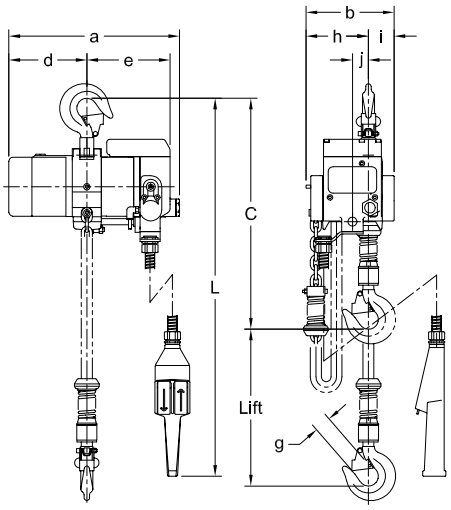
TCR Air Powered Hoists with Pendant and Cord Controls and Hook Suspension

PENDANT MODEL—SPECIFICATIONS

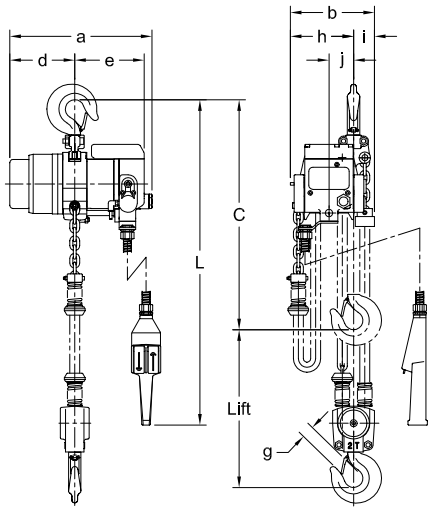
Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Hose L (ft)	Up/Down Speeds (ft/min @ 90 psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	Full Load	No Load	Full Load			
1/4	TCR250P	10	7.5	68 / 44	52 / 51	63 / 49	48 / 57	6.3 x 1	68	0.6
1/2	TCR500P		7.5	68 / 44	37 / 57	63 / 49	48 / 57	6.3 x 1	68	0.6
1	TCR1000P2		7.5	34 / 22	19 / 29	63 / 49	48 / 57	6.3 x 2	78	1.2
1	TCR1000P		7.5	37 / 22	21 / 33	62 / 53	53 / 60	7.1 x 1	77	0.8
2	TCR2000P2		7.5	19 / 11	11 / 16	62 / 53	53 / 60	7.1 x 2	88	1.5
3	TCR3000P		8.0	18 / 11	10 / 15	90 / 65	71 / 74	11.2 x 1	152	2.0
6	TCR6000P2		8.0	9 / 5	5 / 7	90 / 65	71 / 74	11.2 x 2	198	4.0

PENDANT MODEL—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)
1/4	TCR250P	18.2	13.5	6.9	6.1	6.6	1.2	4.9	2.0	1.3
1/2	TCR500P	18.2	13.5	6.9	6.1	6.6	1.2	4.9	2.0	1.3
1	TCR1000P2	20.4	13.5	7.7	6.1	6.6	1.2	5.9	1.9	2.2
1	TCR1000P	18.3	13.5	6.9	6.1	6.6	1.2	4.9	2.0	1.3
2	TCR2000P2	21.8	13.5	8.0	6.1	6.6	1.2	6.0	2.0	2.3
3	TCR3000P	22.2	17.7	8.9	8.0	9.0	1.3	1.9	6.9	1.7
6	TCR6000P2	26.5	17.7	11.1	8.0	9.0	1.7	2.5	8.7	3.4



TCR500P
Single Fall Pendant Model



TCR2000P2
Double Fall Pendant Model

Air Hoists
TCR Series

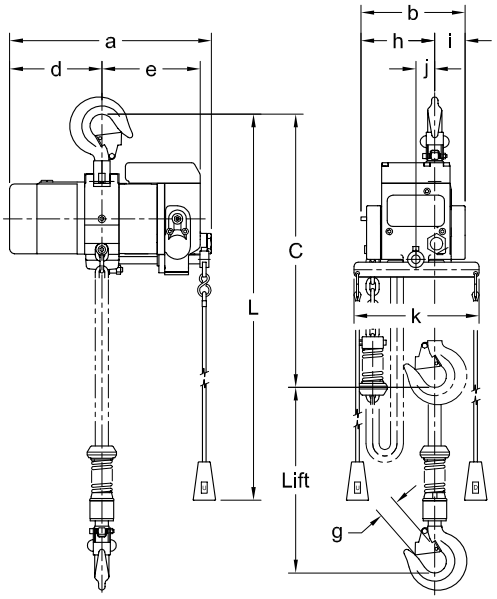
HARRINGTON HOISTS AND CRANES

CORD MODEL—SPECIFICATIONS

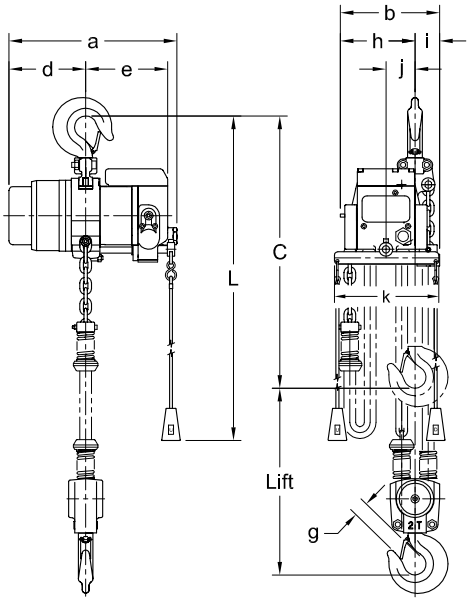
Cap. (Tons)	Product Code	Standard Lift (ft)	Cord L (ft)	Up/Down Speeds (ft/min @ 90 psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	Full Load	No Load	Full Load			
1/4	TCR250C	10	7.5	68 / 44	52 / 51	63 / 49	48 / 57	6.3 x 1	66	0.6
1/2	TCR500C		7.5	68 / 44	37 / 57	63 / 49	48 / 57	6.3 x 1	66	0.6
1	TCR1000C2		7.5	34 / 22	19 / 29	63 / 49	48 / 57	6.3 x 2	76	1.2
1	TCR1000C		7.5	37 / 22	21 / 33	62 / 53	53 / 60	7.1 x 1	75	0.8
2	TCR2000C2		7.5	19 / 11	11 / 16	62 / 53	53 / 60	7.1 x 2	86	1.5
3	TCR3000C		8.0	18 / 11	10 / 15	90 / 65	71 / 74	11.2 x 1	150	2.0
6	TCR6000C2		8.0	9 / 5	5 / 7	90 / 65	71 / 74	11.2 x 2	196	4.0

CORD MODEL—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)
1/4	TCR250C	18.2	13.5	6.9	6.1	6.6	1.2	4.9	2.0	1.3	8.3
1/2	TCR500C	18.2	13.5	6.9	6.1	6.6	1.2	4.9	2.0	1.3	8.3
1	TCR1000C2	20.4	13.5	7.7	6.1	6.6	1.2	5.9	1.9	2.2	8.3
1	TCR1000C	18.3	13.5	6.9	6.1	6.6	1.2	4.9	2.0	1.3	8.3
2	TCR2000C2	21.8	13.5	8.0	6.1	6.6	1.2	6.0	2.0	2.3	8.3
3	TCR3000C	22.2	17.7	8.9	8.0	9.0	1.3	1.9	6.9	1.7	8.3
6	TCR6000C2	26.5	17.7	11.1	8.0	9.0	1.7	2.5	8.7	3.4	8.3



TCR500C
Single Fall Cord Model



TCR2000C2
Double Fall Cord Model

Air Hoists

TCRM, TCRP & TORG

With Air Powered, Push & Geared Trolleys

HARRINGTON
HOISTS AND CRANES

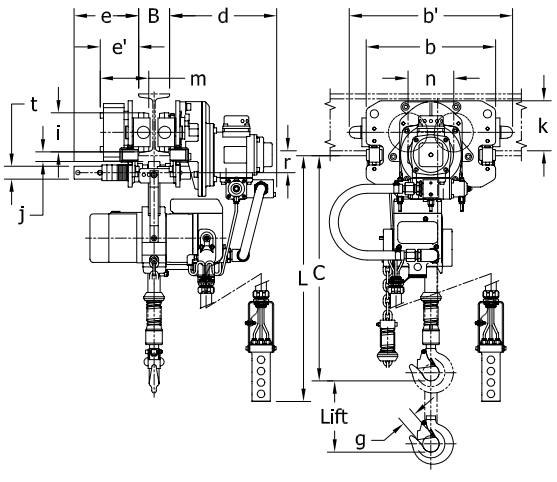
TCRM, TCRP and TCRG Air Powered Hoists with Air Powered, Push and Geared Trolleys

PENDANT MODEL WITH AIR POWERED TROLLEYS—SPECIFICATIONS

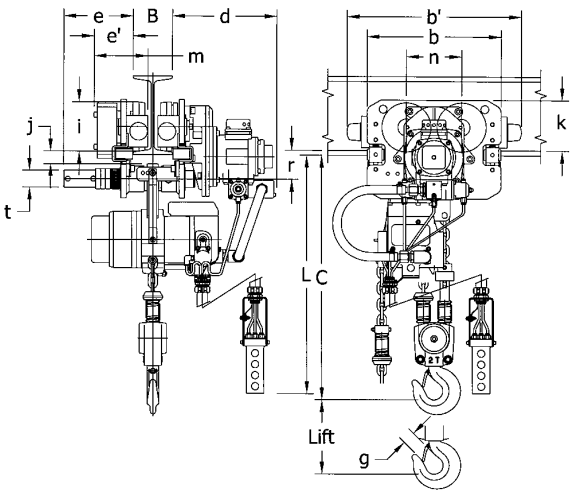
Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Hose L (ft)	Up/Down Speeds (ft/min @ 90 psi)		Traversing Speed (ft/min)	Up/Down Air Consumption Rates (cfm @ 90 psi)			Flange Width Adjustability B (in)	Minimum Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
							TCR		MCR					
				No Load	Full Load		No Load	Full Load	No Load Full Load					
1/4	TCRM250P	10	7.4	68 / 44	52 / 51	65	63 / 49	48 / 57	53	2.28 to 5.00	137.8	6.3 x 1	170	0.6
1/2	TCRM500P			68 / 44	37 / 57		63 / 49	48 / 57	53			6.3 x 1	170	0.6
1	TCRM1000P2			34 / 22	19 / 29		63 / 49	48 / 57	53			6.3 x 2	183	1.2
1	TCRM1000P			37 / 22	21 / 33		62 / 53	53 / 60	53			7.1 x 1	209	0.8
2	TCRM2000P2			18.5 / 11	11 / 16		62 / 53	53 / 60	53	3.94 to 6.02	51.2	7.1 x 2	254	1.5
3	TCRM3000P			18 / 11	10 / 15		90 / 65	71 / 74	53			11.2 x 1	254	2.0
6	TCRM6000P2			9 / 5	5 / 7		90 / 65	71 / 74	53	4.92 to 7.02	78.7	11.2 x 2	364	4.0

PENDANT MODEL WITH AIR POWERED TROLLEYS—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	b (in)	b' (in)	d (in)	e (in)	e' (in)	g (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
1/4	TCRM250P	19.3	12.4	15.6	10.3	6.2	3.7	1.2	3.7	0.9	4.8	4.6	4.4	2.0	1.2
1/2	TCRM500P	19.3	12.4	15.6	10.3	6.2	3.7	1.2	3.7	0.9	4.8	4.6	4.4	2.0	1.2
1	TCRM1000P2	21.5	12.4	15.6	10.3	6.2	3.7	1.2	3.7	0.9	4.8	4.6	4.4	2.0	1.2
1	TCRM1000P	19.5	12.4	15.6	10.3	6.2	3.7	1.2	3.7	0.9	4.8	4.6	4.4	2.0	1.2
2	TCRM2000P2	23.3	13.4	17.4	10.5	6.9	3.9	1.2	4.9	1.3	5.0	5.1	5.5	2.8	1.7
3	TCRM3000P	21.8	13.4	17.4	10.5	6.9	3.9	1.3	4.9	1.4	5.0	5.1	5.5	2.8	1.7
6	TCRM6000P2	25.9	15.7	19.8	10.8	8.1	4.3	1.7	5.5	1.4	5.5	5.7	6.1	3.9	2.3



TCRM500P



TCRM2000P2

Air Powered Hoists

TCRM, TCRP & TORG

Pendant & Cord Models with Push or Geared Trolleys

HARRINGTON HOISTS AND CRANES

PENDANT MODEL WITH PUSH OR GEARED TROLLEYS—SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Hose L (ft)	Up/Down Speeds (ft/min @ 90 psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Flange Width Adjustability B (in)		Minimum* Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	Full Load	No Load	Full Load	Standard	Optional				
1/4	TCRP(TCRG)250P	10	7.5	68 / 44	52 / 51	63 / 49	48 / 57	2.28 to 4.00 (2.28 to 5.00)	4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00	13.8 (51.2)	6.3 x 1	76 (96)	0.6 (1.2)
1/2	TCRP(TCRG)500P		7.5	68 / 44	37 / 57	63 / 49	48 / 57				6.3 x 1	76 (96)	0.6 (1.2)
1	TCRP(TCRG)1000P2		7.5	34 / 22	19 / 29	63 / 49	48 / 57	2.28 to 5.00	5.01 to 8.00 OR 8.01 to 12.00	17.7 (51.2)	6.3 x 2	94 (108)	1.2 (1.8)
1	TCRP(TCRG)1000P		7.5	37 / 22	21 / 33	62 / 53	53 / 60				7.1 x 1	91 (105)	0.8 (1.4)
2	TCRP(TCRG)2000P2		7.5	19 / 11	11 / 16	62 / 53	53 / 60	3.23 to 6.02	6.03 to 12.00	21.7 (59.1)	7.1 x 2	113 (130)	1.5 (2.1)
3	TCRP(TCRG)3000P		8.0	18 / 11	10 / 15	90 / 65	71 / 74			25.6 (66.9)	11.2 x 1	190 (207)	2.0 (2.6)
6	TCRP(TCRG)6000P2		8.0	9 / 5	5 / 7	90 / 65	71 / 74	5.50 to 8.66	8.67 to 12.00	118.1	11.2 x 2	409 (444)	4.0 (4.6)

Figures in parenthesis are data for geared trolley
**Minimum flange width for curved beam: 1 Ton Push and 1/8 to 1Ton Geared = 2.87 in.*
3 Ton Push and Geared = 3.50 in.

CORD MODEL WITH PUSH OR GEARED TROLLEYS—SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Cord L (ft)	Up/Down Speeds (ft/min @ 90 psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Flange Width Adjustability B (in)		Minimum* Allow. Radius for Curve (in)	Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	Full Load	No Load	Full Load	Standard	Optional				
1/4	TCRP(TCRG)250C	10	7.5	68 / 44	52 / 51	63 / 49	48 / 57	2.28 to 4.00 (2.28 to 5.00)	4.01 to 8.00 (5.01 to 8.00) OR 8.01 to 12.00	13.8 (51.2)	6.3 x 1	74 (94)	0.6 (1.2)
1/2	TCRP(TCRG)500C		7.5	68 / 44	37 / 57	63 / 49	48 / 57				6.3 x 1	73 (94)	0.6 (1.2)
1	TCRP(TCRG)1000C2		7.5	34 / 22	19 / 29	63 / 49	48 / 57	2.28 to 5.00	5.01 to 8.00 OR 8.01 to 12.00	17.7 (51.2)	6.3 x 2	91 (106)	1.2 (1.8)
1	TCRP(TCRG)1000C		7.5	37 / 22	21 / 33	62 / 53	53 / 60				7.1 x 1	89 (103)	0.8 (1.4)
2	TCRP(TCRG)2000C2		7.5	19 / 11	11 / 16	62 / 53	53 / 60	3.23 to 6.02	6.03 to 12.00	21.7 (59.1)	7.1 x 2	111 (128)	1.5 (2.1)
3	TCRP(TCRG)3000C		8.0	18 / 11	10 / 15	90 / 65	71 / 74			25.6 (66.9)	11.2 x 1	188 (205)	2.0 (2.6)
6	TCRP(TCRG)6000C2		8.0	9 / 5	5 / 7	90 / 65	71 / 74	5.50 to 8.66	8.67 to 12.00	118.1	11.2 x 2	407 (442)	4.0 (4.6)

Figures in parenthesis are data for geared trolley
**Minimum flange width for curved beam: 1 Ton Push and 1/8 to 1Ton Geared = 2.87 in.*
3 Ton Push and Geared = 3.50 in.

Air Powered Hoists

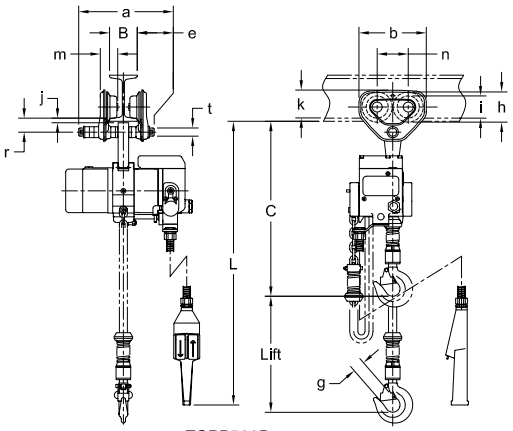
TCRM, TCRP & TORG
with Air Powered, Push & Geared Trolleys

HARRINGTON
HOISTS AND CRANES

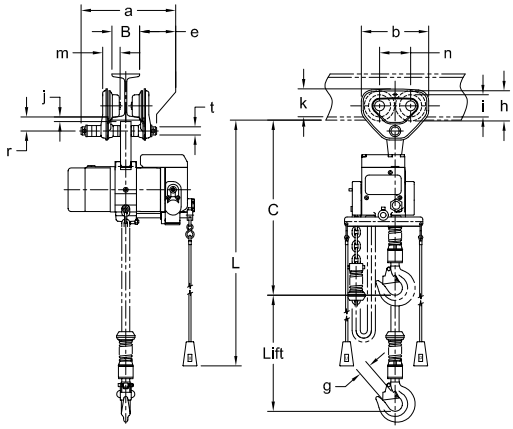
TCRM, TCRP and TCRG Air Powered Hoists with Air Powered, Push and Geared Trolleys

PENDANT AND CORD MODELS WITH PUSH TROLLEYS—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	m (in)	n (in)	r (in)	t (in)
1/4	TCRP250C/P	18.6	8.0	7.2	1.8	1.1	3.2	2.36	0.5	3.0	1.9	3.3	1.5	0.87
1/2	TCRP500C/P	18.6	8.0	7.2	1.8	1.1	3.2	2.36	0.5	3.0	1.9	3.3	1.5	0.87
1	TCRP1000C2/P2	21.3	9.8	9.3	2.2	1.1	4.2	2.80	0.9	3.7	2.2	4.4	2.0	0.98
1	TCRP1000C/P	19.2	9.8	9.3	2.2	1.1	4.2	2.80	1.0	3.7	2.2	4.4	2.0	0.98
2	TCRP2000C2/P2	21.9	11.8	11.0	2.7	1.1	5.0	3.35	1.0	4.4	2.8	5.2	2.4	1.26
3	TCRP3000C/P	21.6	12.6	12.8	3.1	1.3	5.8	3.94	1.5	5.3	3.1	6.0	2.7	1.42
6	TCRP6000C2/P2	29.0	17.6	18.9	4.1	1.7	7.3	6.10	3.8	6.7	3.4	7.7	6.0	2.76



TCRP500P



TCRP500C

Air Powered Hoists

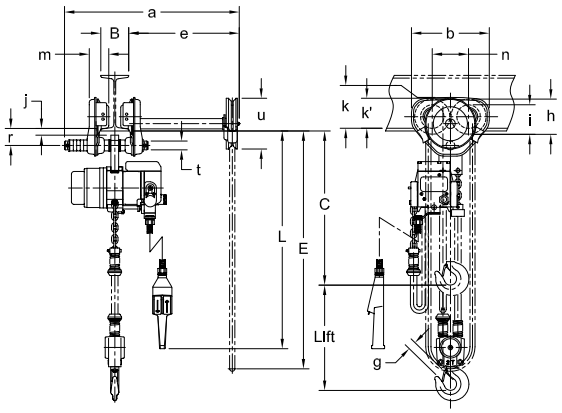
TCRM, TCRP & TORG

Pendant & Cord Models with Geared Trolleys

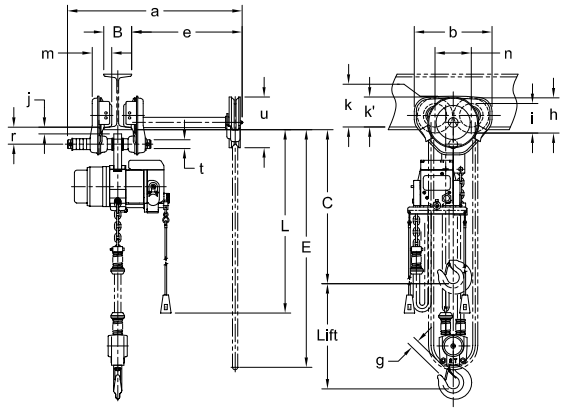
HARRINGTON
HOISTS AND CRANES

PENDANT AND CORD MODELS WITH GEARED TROLLEYS—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	E (ft)	a (in)	b (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)	k' (in)	m (in)	n (in)	r (in)	t (in)	u (in)
1/4	TCRG250C/P	19.0	10.5	20.9	9.3	13.3	1.1	4.2	2.80	1.0	3.7	4.2	2.2	4.4	2.0	0.98	7.2
1/2	TCRG500C/P	19.0	10.5	20.9	9.3	13.3	1.1	4.2	2.80	1.0	3.7	4.2	2.2	4.4	2.0	0.98	7.2
1	TCRG1000C2/P2	21.3	10.5	20.9	9.3	13.3	1.1	4.2	2.80	0.9	3.7	4.2	2.2	4.4	2.0	0.98	7.2
1	TCRG1000C/P	19.2	10.5	20.9	9.3	13.3	1.1	4.2	2.80	1.0	3.7	4.2	2.2	4.4	2.0	0.98	7.2
2	TCRG2000C2/P2	21.9	10.5	24.8	11.0	13.3	1.1	5.0	3.35	1.0	4.4	4.3	2.8	5.2	2.4	1.26	7.2
3	TCRG3000C/P	21.6	11.0	25.4	12.8	15.9	1.3	5.8	3.94	1.5	5.3	4.5	3.1	6.0	2.7	1.42	7.2
6	TCRG6000C2/P2	29.0	11.4	20.6	18.9	7.0	1.7	7.3	6.10	3.8	6.7	6.5	10.6	7.7	6.0	2.76	8.4



TCRG2000P2



TCRG2000C2

Air Powered Hoists

TCS Pendant Model/TCS Cord Model

HARRINGTON
HOISTS AND CRANES

TCS PENDANT MODEL—SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Hose L (ft)	Up/Down Speeds (ft/min @ 90 psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	Full Load	No Load	Full Load			
1/4	TCS250P	10	8.1	207 / 125	121 / 197	78 / 67	64 / 74	6.3 x 1	42	0.6
1/2	TCS500P	10	8.1	108 / 62	60 / 108	74 / 64	60 / 71	6.3 x 1	42	0.6
1	TCS1000P2	10	8.1	54 / 31	30 / 54	74 / 64	60 / 71	6.3 x 2	55	1.2

TCS PENDANT MODEL—DIMENSIONS

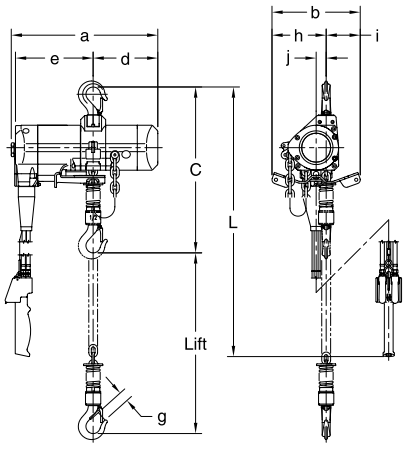
Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)
1/4	TCS250P	16.3	14.4	8.7	6.3	7.6	1.0	5.3	3.3	1.0
1/2	TCS500P	16.3	14.4	8.7	6.3	7.6	1.0	5.3	3.3	1.0
1	TCS1000P2	17.9	14.4	9.0	6.3	8.0	1.1	6.3	2.8	1.9

TCS CORD MODEL—SPECIFICATIONS

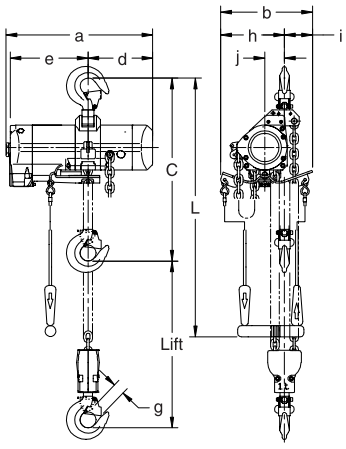
Cap. (Tons)	Product Code	Standard Lift (ft)	Cord L (ft)	Up/Down Speeds (ft/min @ 90 psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	Full Load	No Load	Full Load			
1/4	TCS250C	10	7.3	207 / 125	121 / 197	78 / 67	64 / 74	6.3 x 1	40	0.6
1/2	TCS500C	10	7.3	108 / 62	60 / 108	74 / 64	60 / 71	6.3 x 1	40	0.6
1	TCS1000C2	10	7.3	54 / 31	30 / 54	74 / 64	60 / 71	6.3 x 2	53	1.2

TCS CORD MODEL—DIMENSIONS

Cap. (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)
1/4	TCS250C	16.3	14.4	8.7	6.3	7.6	1.0	5.3	3.3	1.0
1/2	TCS500C	16.3	14.4	8.7	6.3	7.6	1.0	5.3	3.3	1.0
1	TCS1000C2	17.9	14.4	9.0	6.3	8.0	1.1	6.3	2.8	1.9



TCS250P
Single Fall Pendant Model



TCS1000C2
Double Fall Cord Model

Air Powered
Spark Resistant

HARRINGTON HOISTS AND CRANES

AL Ⓔx Certified Spark Resistant and Lube Free Air Hoists with Pendant and Cord Controls and Hook Suspension



Harrington's AL Series Ⓔx certified spark resistant and lube free air hoists can operate without air supply lubrication which leaves the surrounding environment free of oil mist from the air exhaust. Built for precise load positioning with pendant, cord or twist rod control this hoist is perfect for use in food, chemical and pharmaceutical industries or in any area where oil mist cannot be tolerated. Hoists can also operate with oil for longer vane life. All hoists are Ⓔx certified spark resistant to level Ⓔx II 2GD c T5 IIB T100°C and are in compliance with the EU ATEX Directive.

Features and Benefits

Ⓔx Certified Spark Resistant for Safe Operation
All hoists are Ⓔx certified spark resistant (Explosive atmospheres that require features that reduce the risk of spark) to level Ⓔx II 2GD c T5 IIB T100°C and are in compliance with the EU ATEX Directive. (See page 17 for more information.)

Lubrication Free
AL series air hoists are suitable for applications where a clean environment is a necessity. The hoists can operate completely dry leaving no lubrication in the exhaust air and are typically used in the food, chemical and pharmaceutical industries. (Note: Hoists can also operate with oil for longer vane life.)

Heavy-Duty Disk Brake
Harrington's patented disk brake mechanism eliminates load drift and ensures fine feathering control.

Vane Motor
Permits smooth operation and controlled travel.

Surface Hardened Steel Load Chain
Zinc-plated and blue-chromated for corrosion resistance and extended wear.

Bearing Supported Planetary Gearing System
For continuous operation at full load.

Lightweight and Compact Body
Allows for easy operation, transportation and provides exceptional headroom.

Hook and Latch System
Zinc-plated and blue-chromated and swivel 360 degrees.

Standard Hoist Specifications

Capacity Range
¼ - 5 Ton

Standard Lift
10' (longer lengths available)

Duty Cycle
Unlimited

Pendant or Cord Length
4' less than lift
(longer lengths available)

Air Filtration
Maximum 30 micron air filter or finer

Air Supply Requirement
90 PSI

Air Inlet Port
½" NPT

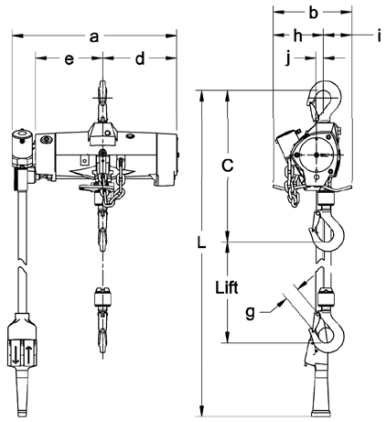
Air Supply Hose Minimum Size
½"

Operating Conditions
Temperature Range +14° to 104° F
Humidity 85% or less

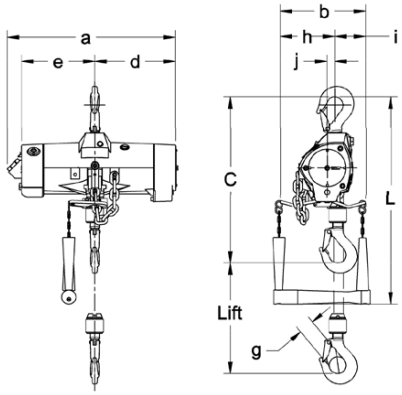
Options
Canvas Chain Container
Steel Chain Container
Twist Rod
Self-locking Hooks
Filter, Lubricator, Regulator
Load Limiter
Additional spark resistant components—consult Customer Service

Air Powered
Spark Resistant

HARRINGTON
HOISTS AND CRANES



AW005P



AW005C

AW PENDANT MODEL—SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Push Button Hose L (ft)	Up/Down Speeds (ft/min @ 90psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	w/Full Load	No Load	w/Full Load			
1/2	AW005P	10	7.5	78 / 49	41 / 72	102 / 68	81 / 74	6.5x1	39	0.6
1	AW010P2			39 / 25	21 / 36	102 / 68	81 / 74	6.5x2	55	1.2

AW PENDANT MODEL—DIMENSIONS

Capacity (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)
1/2	AW005P	14.8	15.9	7.7	7.2	6.6	1.1	5.1	2.6	1.0
1	AW010P2	17.5	15.9	7.7	7.2	6.6	1.1	5.1	2.6	1.0

AW CORD MODEL—SPECIFICATIONS

Cap. (Tons)	Product Code	Standard Lift (ft)	Cord L (ft)	Up/Down Speeds (ft/min @ 90psi)		Up/Down Air Consumption Rates (cubic ft/min @ 90 psi)		Load Chain Diameter (mm) x Chain Fall Lines	Net Weight (lbs)	Weight for Additional One Foot of Lift (lbs)
				No Load	w/Full Load	No Load	w/Full Load			
1/2	AW005C	10	7.5	78 / 49	41 / 72	102 / 68	81 / 74	6.5x1	37.5	0.6
1	AW010C2			39 / 25	21 / 36	102 / 68	81 / 74	6.5x2	53	1.2

For optional Twist Rod Control – Rod L = 3.5 to 6.5 feet.

AW CORD MODEL—DIMENSIONS

Capacity (Tons)	Product Code	Headroom C (in)	a (in)	b (in)	d (in)	e (in)	g (in)	h (in)	i (in)	j (in)	k (in)
1/2	AW005C	14.8	15.4	7.7	7.2	6.6	1.1	5.1	2.6	1.0	8.7
1	AW010C2	17.5	15.4	7.7	7.2	6.6	1.1	5.1	2.6	1.0	8.7

Lifting Clamps
Vertical, Locking

MADE IN USA

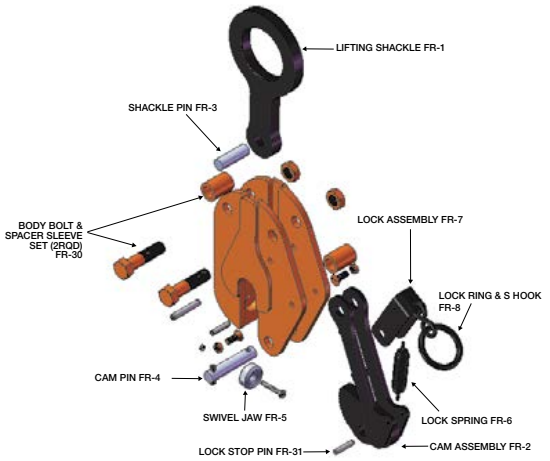
RENFROE

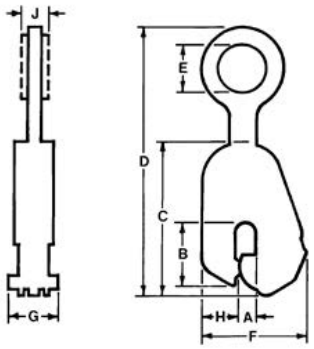


Model FR
Locking Type

The **Model FR** is a vertical lifting tool for relatively light work. It is small and easy to handle in capacities through three tons. It incorporates a "Lock Closed" feature which facilitates attaching the clamp to the plate.

MODEL FR EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	Weight (in pounds)
½	0-¾	2 13/16	7	11¼	2⅜	4⅝	2½	1½	½	8
	½-1	2 13/16	7	11¼	2⅜	4⅞	2½	1½	½	8
	¾-1¼	2 13/16	7	11¼	2⅜	5⅛	2½	1½	½	9
	1-1½	2 13/16	7	11¼	2⅜	5⅜	2½	1½	½	10
	1¼-1¾	2 13/16	7	11¼	2⅜	5⅝	2½	1½	½	11
1	0-¾	3 3/16	9	13¾	2⅝	5⅞	3 3/16	1⅝	⅝	14
	½-1	3 3/16	9	13¾	2⅝	6⅛	3 3/16	1⅝	⅝	15
	¾-1¼	3 3/16	9	13¾	2⅝	6⅜	3 3/16	1⅝	⅝	15
	1-1½	3 3/16	9	13¾	2⅝	6⅝	3 3/16	1⅝	⅝	16
	1¼-1¾	3 3/16	9	13¾	2⅝	6⅞	3 3/16	1⅝	⅝	17
	1½-2	3 3/16	9	13¾	2⅝	7⅛	3 3/16	1⅝	⅝	18
2	0-1	3½	9	16⅜	3⅝	6¾	3⅜	2⅛	¾	23
	¾-1½	3½	9	16⅜	3⅝	7¼	3⅜	2⅛	¾	23
	1¼-2	3½	9	16⅜	3⅝	7¾	3⅜	2⅛	¾	23
	1¾-2½	3½	9	16⅜	3⅝	8¼	3⅜	2⅛	¾	24
3	0-1¼	4 3/16	10¾	18⅜	3⅝	7⅝	3 9/16	2 7/16	¾	30
	¾-1½	4 3/16	10¾	18⅜	3⅝	7⅞	3 9/16	2 7/16	¾	31
	1¼-2	4 3/16	10¾	18⅜	3⅝	8⅜	3 9/16	2 7/16	¾	32
	1¾-2½	4 3/16	10¾	18⅜	3⅝	8⅞	3 9/16	2 7/16	¾	33

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Lifting Clamps
Vertical, Non-Locking

MADE IN USA

RENFROE

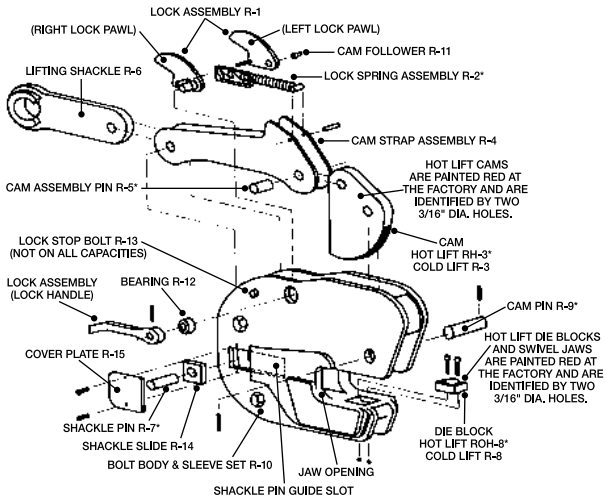


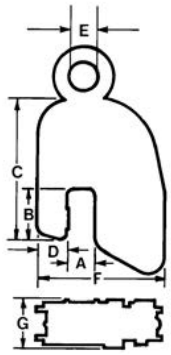
Model R
Non-Locking Type

The **Model R** is a vertical lifting clamp primarily used in the handling of heavy steel plate in a wide range of plate thicknesses. Specific models are available for handling "hot" plate (refer to factory for maximum temperatures and recommended application).

The **Model R** incorporates a "Lock Open," "Lock Closed" feature which facilitates attaching and removing the clamp from the plate.

MODEL R EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	Weight (in pounds)
35	¼-4¼	8⅜	23⅝	5 1/16	5	21⅜	8	470
	4-8	8⅜	23⅝	5 1/16	5	25⅛	8	515
50	½-6½	13	44¾	9	5	36	13½	1370
	6-12	13	44¾	9	5	41½	13½	1500
75	½-6½	16½	46¾	14¼	11	42½	12½	2700
	3-9	16½	46¾	14¼	11	45	12½	2775
	6-12	16½	46¾	14¼	11	48	12½	2850
	8-14	16½	46¾	14¼	11	50	12½	2900

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Lifting Clamps
Vertical, Locking

MADE IN USA

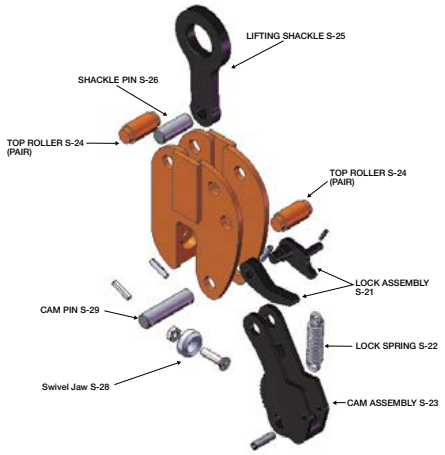
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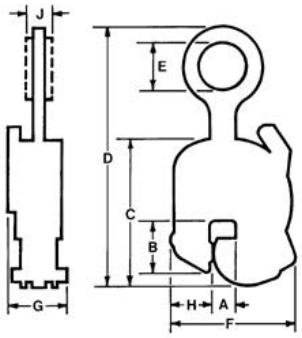


Model S
Locking Type

The **Model S** is a vertical lifting clamp and is an effective tool for construction and erection. It incorporates a "Lock Open," "Lock Closed" feature which facilitates attaching and removing the clamp from the plate.

MODEL S EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	Weight (in pounds)
1/2	0-⅝	2	5 1/16	7½	1⅛	4¼	2⅛	1¼	⅜	4
1	0-¾	2	5⅛	7¾	1⅛	4⅜	2 3/16	1⅜	½	5
2	0-1	3 7/16	10	17	3⅝	8½	3 13/16	2¾	¾	32
	¾-1½	3 7/16	10	17	3⅝	9	3 13/16	2¾	¾	33
	1¼-2	3 7/16	10	17	3⅝	9½	3 13/16	2¾	¾	33
	1¾-2½	3 7/16	10	17	3⅝	10	3 13/16	2¾	¾	36
4	0-1¼	4⅝	11½	19⅝	3⅝	10	4⅞	3 7/16	¾	41
	1-2	4⅝	11½	19⅝	3⅝	10¾	4⅞	3 7/16	¾	43
	1¾-2¾	4⅝	11½	19⅝	3⅝	11½	4⅞	3 7/16	¾	43
	2½-3½	4⅝	11½	19⅝	3⅝	12¼	4⅞	3 7/16	¾	52
	3¼-4¼	4⅝	11½	19⅝	3⅝	13	4⅞	3 7/16	¾	60
8	0-1½	4½	13 15/16	22½	3¾	10½	5⅛	3 5/16	1	70
	1-2	4½	13 15/16	22½	3¾	11	5⅛	3 5/16	1	73
	2-3	4½	13 15/16	22½	3¾	12	5⅛	3 5/16	1	77
	2¾-4	4½	13 15/16	22½	3¾	13	5⅛	3 5/16	1	81
	3¾-5	4½	13 15/16	22½	3¾	14	5⅛	3 5/16	1	85
12	0-2½	6½	18	28	3⅞	13½	6¼	3⅞	1¾	140
	½-3	6½	18	28	3⅞	14	6¼	3⅞	1¾	140
	2-4	6½	18	28	3⅞	15	6¼	3⅞	1¾	143
	4-6	6½	18	28	3⅞	17	6¼	3⅞	1¾	150
	5½-7½	6½	18	28	3⅞	18½	6¼	3⅞	1¾	160
20	½-3	7½	22¾	35	4 15/16	17	7⅜	5	2½	265
	3-5	7½	22¾	35	4 15/16	19	7⅜	5	2½	294
	5-7	7½	22¾	35	4 15/16	21	7⅜	5	2½	324
	7-9	7½	22¾	35	4 15/16	23	7⅜	5	2½	350
50*	½-3	8⅜	27⅝	41	4⅝	22	9¾	6⅝	3	470
100*	½-3	13½	34	44	4 15/16	26	12½	10½	4	1350

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. OTHER CAPACITIES AVAILABLE UPON REQUEST.

***For handling heavy plate or hot material, see Model R.**

Lifting Clamps
Vertical, Locking

MADE IN USA

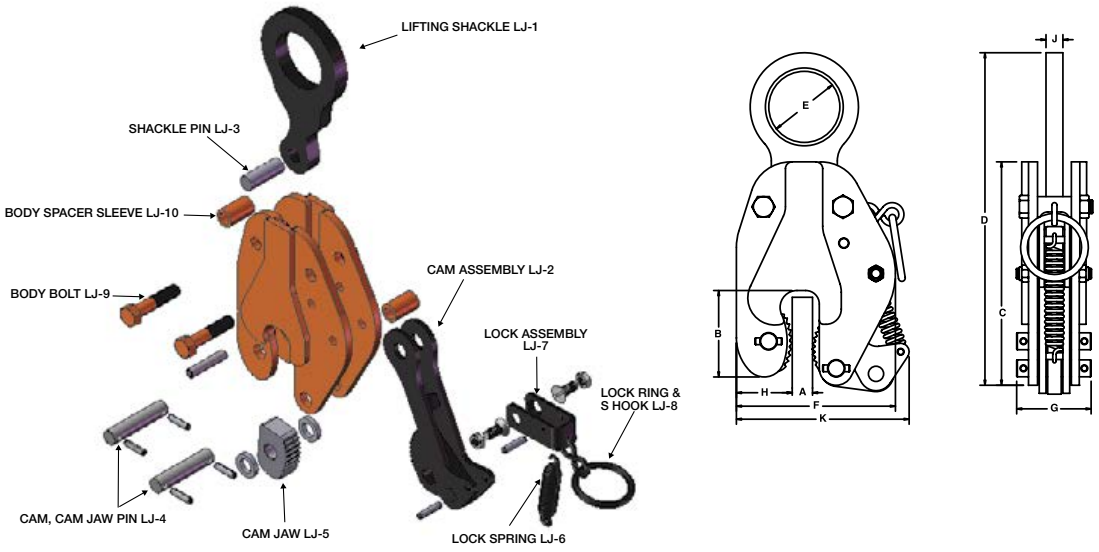
RENFROE



Model LJ
Locking Type

The **MODEL LJ** is a vertical lifting clamp capable of turning a plate from horizontal to vertical and back through the same ninety-degree arc. It is small and easy to handle in capacities through three tons. The Model LJ incorporates a "Lock Closed" feature, which facilitates attaching the clamp to the plate.

MODEL LJ EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	K	Weight (in pounds)
½	0-¾	2⅝	6⅝	10¼	2¼	5	2⅜	1⅞	½	5	9
1	0-¾	3 3/16	8¼	13 7/16	2⅝	5⅞	2⅞	2 1/16	⅝	6 7/16	15
2	0-1	3⅝	9	15 13/16	3⅝	7¼	3¼	2⅞	¾	7⅝	26
3	0-1¼	4¼	10¾	18	3⅝	8 3/16	3⅝	3	¾	8⅜	34

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Lifting Clamps
Vertical, Locking

MADE IN USA

RENFROE

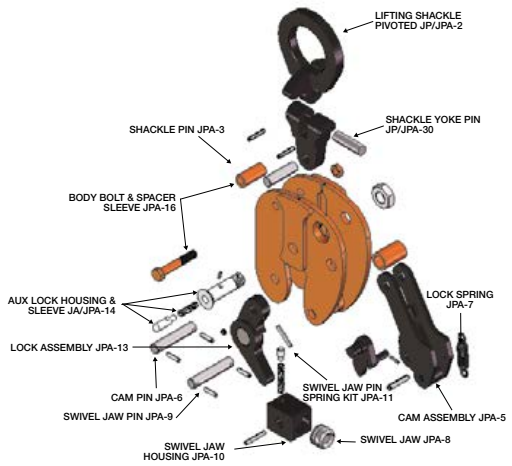


Model JPA
Locking Type

The **Model JPA** is a vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180 degree arc. Incorporates a push button auxiliary lock. Permits side loading of lifting shackle to 90 degrees by derating of clamp's rated capacity. Refer to FIGURE 1 for derated capacities.

Model JPA incorporates a pivoting shackle that permits side loading of the lifting shackle at 100 percent of rated capacity from vertical to 30 degrees, 75 percent of rated capacity between 30 and 45 degrees and 50 percent of rated capacity between 45 and 90 degrees.

MODEL JPA EXPLODED VIEW



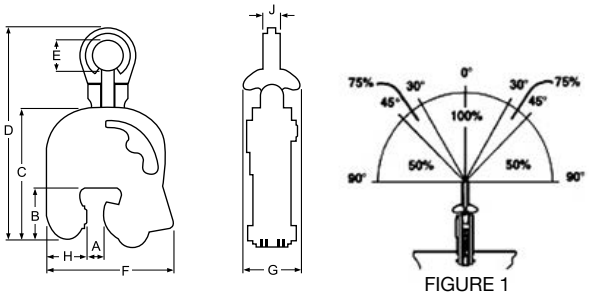


FIGURE 1

SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-⅝ ½-1 ⅜-1¼ 1¼-1¾	2¾ 2¾ 2¾ 2¾	6½ 6½ 6½ 6½	12 12 12 12	2⅜ 2⅜ 2⅜ 2⅜	5⅝ 6 6¼ 6¾	3¼ 3¼ 3¼ 3¼	2¼ 2¼ 2¼ 2¼	½ ½ ½ ½	12
1	0-¾ ½-1 ¾-1¼ 1-1½ 1½-2	3⅜ 3⅜ 3⅜ 3⅜ 3⅜	7¾ 7¾ 7¾ 7¾ 7¾	13¾ 13¾ 13¾ 13¾ 13¾	2⅝ 2⅝ 2⅝ 2⅝ 2⅝	7 7¼ 8 8¼ 8¾	3½ 3½ 3½ 3½ 3½	2⅝ 2⅝ 2⅝ 2⅝ 2⅝	⅝ ⅝ ⅝ ⅝ ⅝	20
2	0-1 ¾-1½ 1¼-2 2-2¾	3⅝ 3⅝ 3⅝ 3⅝	9½ 9½ 9½ 9½	17⅜ 17⅜ 17⅜ 17⅜	3½ 3½ 3½ 3½	8¾ 9¼ 9¾ 10½	4½ 4½ 4½ 4½	3 3 3 3	¾ ¾ ¾ ¾	40
4	3/16-1¼ 1-2 2-3 3-4	4⅜ 4⅜ 4⅜ 4⅜	11½ 11½ 11½ 11½	20⅛ 20⅛ 20⅛ 20⅛	3½ 3½ 3½ 3½	9¼ 10 11 12	4½ 4½ 4½ 4½	3¼ 3¼ 3¼ 3¼	1½ 1½ 1½ 1½	50
6	¼-1⅜ 1-2⅛ 2-3⅛ 3-4⅛	4⅞ 4⅞ 4⅞ 4⅞	12⅜ 12⅜ 12⅜ 12⅜	20⅞ 20⅞ 20⅞ 20⅞	3½ 3½ 3½ 3½	10¾ 11½ 12½ 13½	4¾ 4¾ 4¾ 4¾	3¾ 3¾ 3¾ 3¾	1¾ 1¾ 1¾ 1¾	72
8	⅜-1½ 1-2⅛ 2-3⅛ 3-4⅛	5⅜ 5⅜ 5⅜ 5⅜	12¾ 12¾ 12¾ 12¾	22⅝ 22⅝ 22⅝ 22⅝	3¾ 3¾ 3¾ 3¾	12⅜ 13 14⅝ 15⅝	5¼ 5¼ 5¼ 5¼	4¼ 4¼ 4¼ 4¼	2 2 2 2	93
12	½-2½ 2-4 4-6	7¼ 7¼ 7¼	17⅜ 17⅜ 17⅜	28⅛ 28⅛ 28⅛	3⅞ 3⅞ 3⅞	15 15/16 17 1/16 19 1/16	7 1/16 7 1/16 7 1/16	5⅜ 5⅜ 5⅜	2 2 2	203 212 222
16	½-2½	8	19 13/16	32 5/16	4½	19 13/16	8 11/16	6¼	2¼	350
20	½-3	8⅝	21 13/16	35⅞	5	21	11½	6⅞	2¾	456
25	½-2½ 3-5 4-6	8⅝ 8⅝ 8⅝	23⅝ 23⅝ 23⅝	35⅞ 35⅞ 35⅞	5 5 5	19 1/16 21 9/16 22 9/16	9⅝ 9⅝ 9⅝	6¾ 6¾ 6¾	3 3 3	483 495 502
30	½-3	9 9/16	24¼	39⅞	5	22 13/16	14 9/16	7⅝	3	625
50	3-5	10⅞	30⅞	46 7/16	5	29 3/16	11⅛	9¼	3½	1306

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Lifting Clamp
Vertical, Locking

MADE IN USA

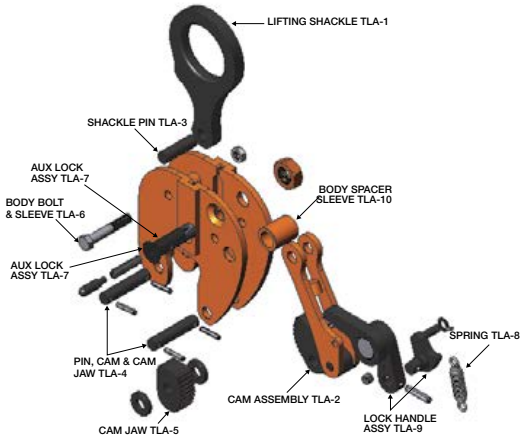
RENFROE

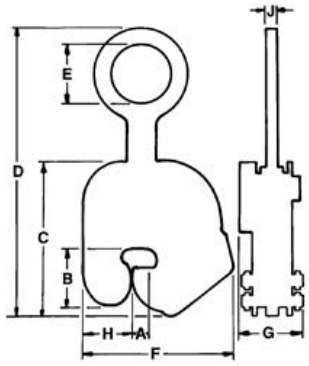


Model TLA
Locking Type

The **Model TLA** is a vertical lifting clamp incorporating a "Lock Open" and a "Lock Closed" feature and an auxiliary push button lock. The clamp is capable of turning a steel plate from horizontal to vertical to horizontal through a 180 degree arc. The "Lock Open," "Lock Closed" feature facilitates attaching and removing the clamp from the plate.

MODEL TLA EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
½	0-⅝	2⅜	6¼	11⅛	2⅜	4¾	2¾	1 13/16	½	9
	½-1	2⅜	6¼	11⅛	2⅜	5⅛	2¾	1 13/16	½	10
	¾-1¼	2⅜	6¼	11⅛	2⅜	5⅜	2¾	1 13/16	½	11
	1¼-1¾	2⅜	6¼	11⅛	2⅜	5⅞	2¾	1 13/16	½	13
1	0-¾	3	7½	13⅛	2⅝	6	2 13/16	2	⅝	14
	½-1	3	7½	13⅛	2⅝	6¼	2 13/16	2	⅝	15
	¾-1¼	3	7½	13⅛	2⅝	6½	2 13/16	2	⅝	16
	1-1½	3	7½	13⅛	2⅝	6¾	2 13/16	2	⅝	17
	1½-2	3	7½	13⅛	2⅝	7¼	2 13/16	2	⅝	18
2	0-1	3½	9⅜	16¼	3⅝	8⅞	3¾	2⅞	¾	32
	¾-1½	3½	9⅜	16¼	3⅝	9⅜	3¾	2⅞	¾	33
	1¼-2	3½	9⅜	16¼	3⅝	9⅞	3¾	2⅞	¾	35
	2-2¾	3½	9⅜	16¼	3⅝	10⅝	3¾	2⅞	¾	37
4	3/16-1¼	4	9⅞	17⅝	3⅝	9	3 13/16	3	¾	36
	1-2	4	9⅞	17⅝	3⅝	9¾	3 13/16	3	¾	37
	2-3	4	9⅞	17⅝	3⅝	10¾	3 13/16	3	¾	40
	3-4	4	9⅞	17⅝	3⅝	11¾	3 13/16	3	¾	43
6	¼-1⅜	4⅝	11⅛	20⅛	3½	10¼	3⅞	3⅜	¾	49
	1-2⅛	4⅝	11⅛	20⅛	3½	11	3⅞	3⅜	¾	51
	2-3⅛	4⅝	11⅛	20⅛	3½	12	3⅞	3⅜	¾	54
	3-4⅛	4⅝	11⅛	20⅛	3½	13	3⅞	3⅜	¾	57
8	⅜-1½	4 13/16	12 5/16	21 5/16	3¾	11½	4¾	3⅞	1	72
	1-2⅛	4 13/16	12 5/16	21 5/16	3¾	12⅛	4¾	3⅞	1	74
	2-3⅛	4 13/16	12 5/16	21 5/16	3¾	13⅛	4¾	3⅞	1	77
	3-4⅛	4 13/16	12 5/16	21 5/16	3¾	14⅛	4¾	3⅞	1	80
12	½-2½	6¼	15⅛	26 3/16	3⅞	14½	6¾	4⅜	1¾	142
	2-4	6¼	15⅛	26 3/16	3⅞	16	6¾	4⅜	1¾	150
	3-5	6¼	15⅛	26 3/16	3⅞	17	6¾	4⅜	1¾	154
	4-6	6¼	15⅛	26 3/16	3⅞	18	6¾	4⅜	1¾	158
20	½-3	8⅛	21¾	36 11/16	5	20 11/16	8 1/16	6 3/16	2¾	415
	2½-4½	8⅛	21¾	36 11/16	5	22 3/16	8 1/16	6 3/16	2¾	426
	3-5	8⅛	21¾	36 11/16	5	22 11/16	8 1/16	6 3/16	2¾	430
	5-7	8⅛	21¾	36 11/16	5	24 11/16	8 1/16	6 3/16	2¾	445

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

MADE IN USA

RENFROE

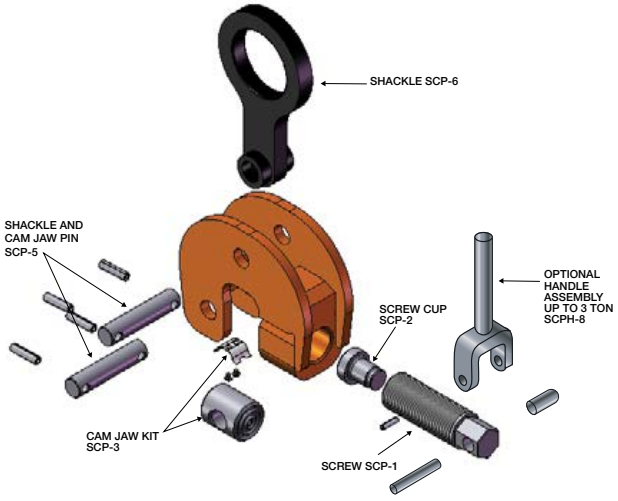
Lifting Clamp
Vertical/Horizontal Locking

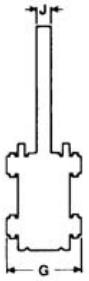


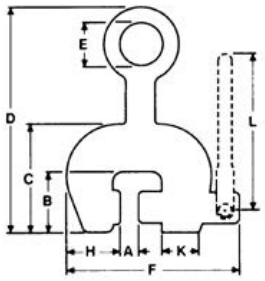
Model SCP
Locking, Screw Type

The **Model SCP** clamp is capable of handling steel plate from horizontal to vertical to horizontal through a 180 degree arc and may be used for handling plate at rolling and forming machines. These clamps feature a spring loaded pivoting cam jaw that "cams in" when a load is applied to the lifting shackle. Clamp is capable of handling plate horizontally when used in pairs or sets of pairs, or in a tripod arrangement.

MODEL SCP EXPLODED VIEW







SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	H	J	K	L	M	N	P	Weight (in pounds)
1/2	0-¾	2⅜	4½	9	2⅜	6⅝	2⅜	1⅞	½	1½	—	1¾	1¾	9/16	7
1½	0-1¼	2⅞	5½	10 9/16	2⅝	8 7/16	3⅜	2⅜	⅝	1¾	8¼	2	2	11/16	13
3	0-2	3⅛	5¾	12	2⅜	10 13/16	4 1/16	2 13/16	¾	2	8⅝	3	6	¾	19
6	0-2½	4 5/16	7 9/16	14⅜	3	14⅜	5⅜	3 7/16	1	2 15/16	—	3½	7	1	44
10	0-3	5½	9¾	19¼	3¼	16⅜	6¾	4⅜	1	3⅛	—	3½	7	1	93
15	0-4	7¼	12⅛	22⅞	3¾	21½	8¼	5 9/16	1¼	4	—	3⅞	8	1¼	210

20, 30, 50, 100 and 150 Ton capacities available upon request. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Lifting Clamp
Vertical-Horizontal Locking

MADE IN USA

RENFROE

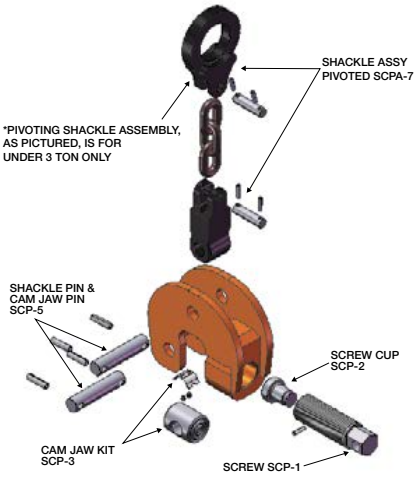


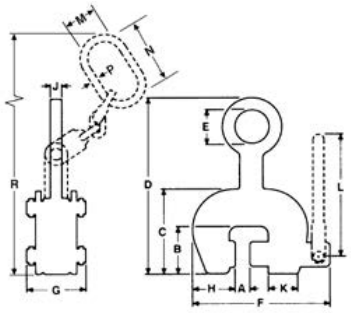
Model SCPA
Locking, Screw Type

The **SCPA** clamp is capable of handling steel plate from horizontal to vertical to horizontal through a 180 degree arc and may be used for handling plate at rolling and forming machines. These clamps feature a spring loaded pivoting cam jaw that "cams in" when a load is applied to the lifting shackle. Clamp is capable of handling plate horizontally when used in pairs or sets of pairs, or in a tripod arrangement.

*Pivoting shackle assembly, as shown, is available on capacities 3 tons and larger.

MODEL SCPA EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	E	F	G	H	J	K	L	M	N	P	R	Weight (in pounds)
1/2	0-3/4	2 3/8	4 1/2	2 3/8	6 5/8	2 3/8	1 7/8	1/2	1 1/2	—	1 3/4	1 3/4	9/16	12 3/16	8
1½	0-1 1/4	2 7/8	5 1/2	2 5/8	8 7/16	3 3/8	2 3/8	5/8	1 3/4	8 1/4	2	2	11/16	14 3/16	15
3	0-2	3 1/8	5 3/4	2 3/8	10 13/16	4 1/16	2 13/16	3/4	2	8 5/8	3	6	3/4	21 3/8	24
6	0-2 1/2	4 5/16	7 9/16	3	14 3/8	5 3/8	3 7/16	1	2 15/16	—	3 1/2	7	1	27 3/4	57
10	0-3	5 1/2	9 3/4	3 1/4	16 3/8	6 3/4	4 3/8	1	3 1/8	—	3 1/2	7	1	29 7/16	134
15	0-4	7 1/4	12 1/8	3 3/4	21 1/2	8 1/4	5 9/16	1 1/4	4	—	3 7/8	8	1 1/4	36 1/2	312

20, 30, 50, 100 and 150 Ton capacities available upon request. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Lifting Clamps
Horizontal-Vertical Locking

MADE IN USA

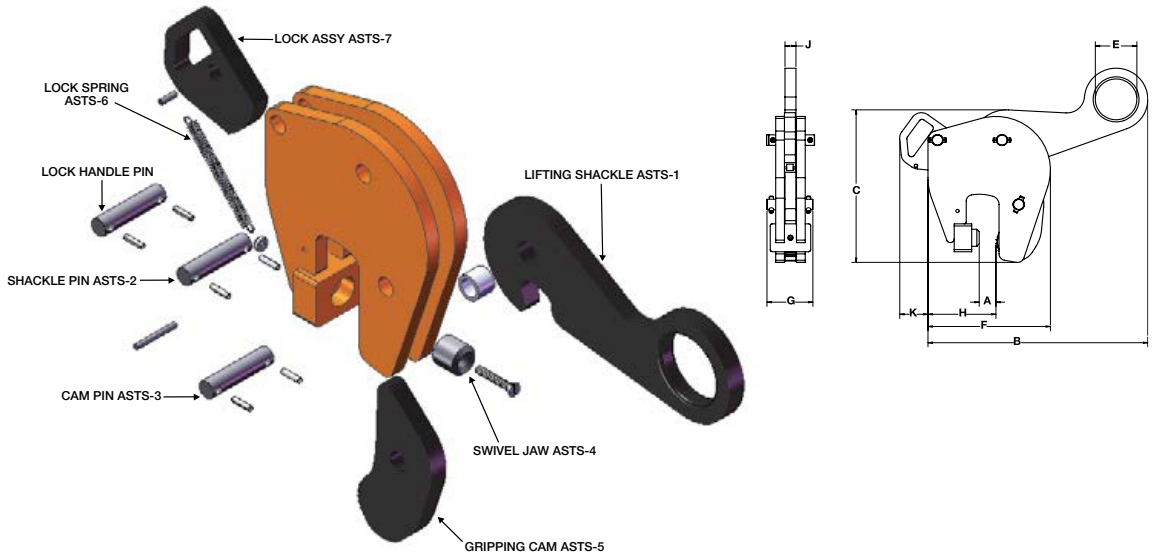
RENFROE



Model AST-S
Locking Type

The **Model ASTS** is the same as the Model AST with the exception that it incorporates a "Lock Closed" feature which facilitates attaching to the beam. Developed primarily for lifting, turning and stacking lightweight beams and structural shapes. The horizontal shackle permits a beam to be lifted with the web in a near horizontal position by placing the clamp on the load with the shackle positioned over the web, and between the flanges. With a beam lying in a horizontal position, and the clamp placed with the shackle over-hanging the flange, the beam can be lifted, turned 90 degrees, and raised in a vertical position.

MODEL AST-S EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	MAX. B	C	D	E	F	G	H	J	K	Weight (in pounds)
1/2	0-¾	10¾	6 11/16	-	1¾	6 3/16	1⅝	2½	½	1½	10
1½	0-¾	13	8½	-	2½	7	2 9/16	3	⅝	1½	20
3	0-1½	19¼	12½	-	3¾	11	3	4⅝	¾	1½	50

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Lifting Clamps
Horizontal, Non-Locking, Non-Marring

MADE IN USA

RENFROE

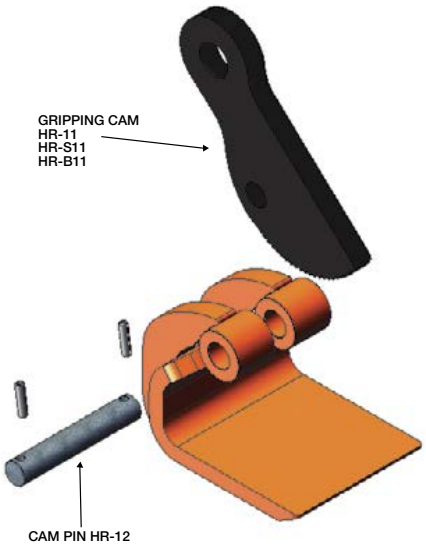


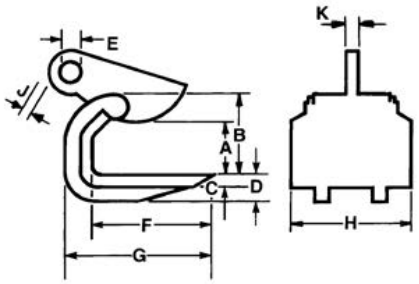
Model HR
Non-Locking Type

The **Model HR** is a horizontal lifting clamp intended to be used in pairs, sets of pairs, or in a tripod arrangement for transporting steel plates horizontally.

Equipped with serrated gripping cams as standard equipment, both the HR and HDR models are available with smooth, bronze or stainless steel gripping cams to prevent marring when handling polished metals such as stainless steel, copper, aluminum, etc.

MODEL HR EXPLODED VIEW





SPECIFICATIONS (in inches)

Rate Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	F	G	H	J	K	Weight (in pounds)
1/4	0-1	2¾	½	+	1	3 9/16	4 1/16	3	⅜	½	3½
1/2	0-2	4¼	½	+	1⅜	5⅝	6⅛	7	¾	½	14
3/4	0-2	4⅜	⅝	+	1⅜	5⅝	6¼	7	¾	¾	19
1½	0-2	4⅜	¾	+	1⅜	5⅝	6⅜	7	¾	¾	23
3	0-2	4⅝	⅝	1⅝	1⅜	5⅝	7¼	7	¾	¾	24
4	0-3	5⅝	¾	2⅛	1⅜	7½	9⅝	7	1⅛	1	44

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. **+ No backpad on capacities 1/4 ton thru 1 1/2 ton.**

Lifting Clamps
Horizontal
Locking, Non-Marring

MADE IN USA

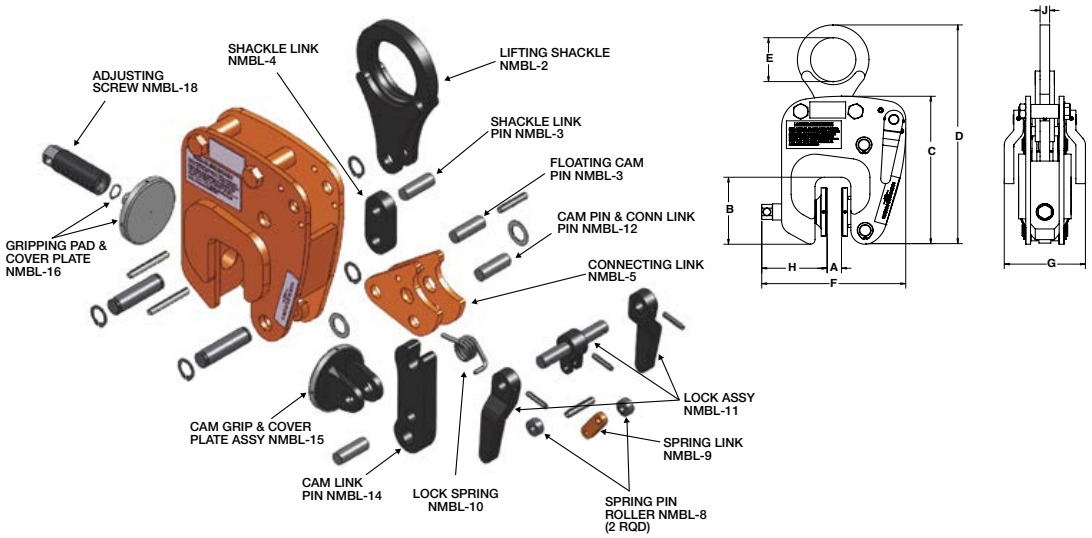
RENFROE



Model NMBL
Locking Type

The **NMBL** model is used to turn plates from the horizontal through a 180 degree arc. It is manufactured with smooth gripping surfaces to prevent marring when gripping stainless steel, copper, aluminum and other polished metal plates. The NMBL incorporates a lock open – lock closed feature to facilitate attaching and removing the clamp from the plate.

MODEL NMBL EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	3 5/8	8	12 5/16	2 3/8	7 5/8	4 1/4	3 7/16	1/2	15 5/8
1	0-3/4	3 5/8	8	11 7/8	2 3/8	7 9/16	4 1/4	3 7/16	1/2	17 1/4
2	0-2	4 7/8	10 7/8	17 9/16	3	12 1/32	5 1/2	5 7/16	3/4	31
4	1/4-1 1/2	7 11/64	16 3/16	23 25/32	3	6 1/4	8 1/2	8 9/64	1 1/4	126

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Lifting Clamps
Non-Marring
Locking

MADE IN USA

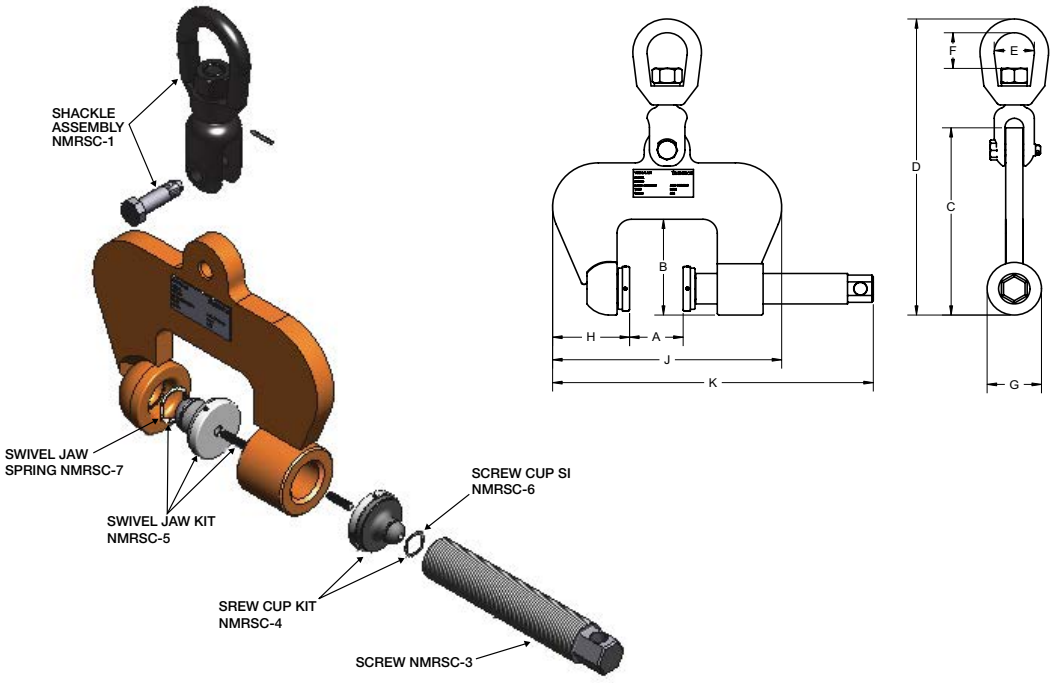
RENFROE



Model NMRSC
Locking, Screw Type

The **Model NMRSC** is a lightweight screw clamp for bench work on steel plates of large thickness, and weighing less than 1000 lbs. Supplied with smooth gripping surfaces to prevent marring when gripping stainless steel, copper, aluminum and other polished metal plates.

MODEL NMRSC EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	F	G	H	J	K	Weight (in pounds)
1/2	0-3	4 5/16	8 1/16	13 3/8	1 3/4	1 9/16	2 3/8	3 3/8	10	14	13 7/8
1/2	1 3/8-4 1/4	4 5/16	8 1/16	13 3/8	1 3/4	1 9/16	2 3/8	3 3/8	11 3/16	15 15/16	14 1/2

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Lifting Clamps
Safe Lifting Practices

RENFROE

SAFETY OPERATING AIDS (DO's and DON'TS)

1 **DO** read and understand the operator's manual before using clamp.

2 **DO** consult Operators Manual or RENFROE when in doubt.

3 **DON'T** lift over workmen. **DON'T** lift over safety areas or personnel.

4 **DO** attend a factory training class for establishing proper use of Renfroe Products.

5 **DO** Lock clamp closed when clamps are fitted with a lock. **DON'T** lift with lock in open or "lock open" position.

6 **DON"T** use a connection that may release the clamp.

7 **DON"T** attach clamp directly to crane hook. **DO** use a flexible connection between crane hook and clamp shackle. **DON'T** use heavy flexible connection.

8 **DO** use correct clamp for job. **DON'T** use large capacity clamps to lift light loads.

9 **DO** use an adequate number of clamps to balance load. **DON'T** lift loads that are not balanced.

10 **DO** use clamps within their rated capacity. **DON'T** overload clamps.

11 **DO** inspect clamp before each lift, follow inspection and maintenance instructions outlined in the manual and use RENFROE replacement parts to assure proper operation of the clamp.

12 **DON'T** use clamp that has been overloaded. **DO** refer to pre-lift inspection in Operator's Manual.

13 **DON'T** side load with a straight shackle clamp.

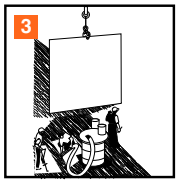
14 **DON'T** misuse. **DON'T** lift plate from bottom of plate stack.

15 **DON'T** rush. **DON'T** lift more than one plate at a time with a vertical clamp.

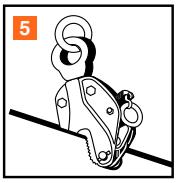
16 **DON'T** improvise. Always use correct clamp for the job. **DON'T** lift plate horizontally with a vertical lift only clamp.

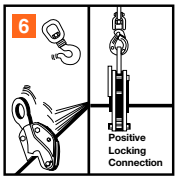
17 **DON'T** alter clamp. **DON'T** grind, weld or modify the clamp in any manner.

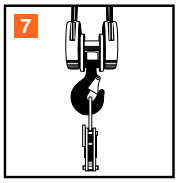


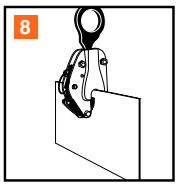


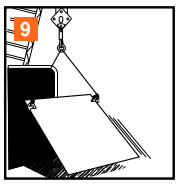






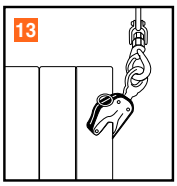


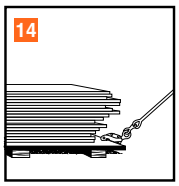


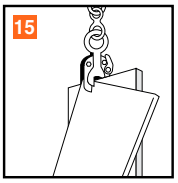


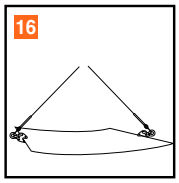














RENFROE FACTORY TRAINING IS AVAILABLE

NOTICE OF EXCLUSION OF WARRANTY

RENFROE HAS HEREIN SET FORTH IN CONSPICUOUS LANGUAGE AN EXCLUSION OF ANY WARRANTY EITHER EXPRESSED OR IMPLIED, WHICH IS NOT SPECIFICALLY AND PARTICULARLY CONTAINED HEREIN. PLEASE REFER TO THAT STATEMENT FOR REPRESENTATIONS AND WARRANTIES OF PRODUCTS MANUFACTURED BY J.C. RENFROE & SONS.

Lifting Clamps
Replacement Kits

RENFROE

RENFROE® Operator's Manuals

No operator should engage or attempt to engage in the use of any Renfroe product until the applicable manual has been read and fully understood.

Failure to review and utilize recommended applications, operating and maintenance instructions could result in serious injury to the operator and others.

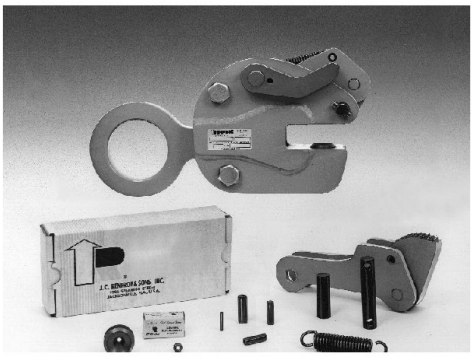
An Application, Operation and Maintenance Manual is packaged with each Renfroe product. Additional copies are available by contacting J. C. Renfroe & Sons, Inc. at 1-800-874-8454 or by email: sales@jcrenfroe.com.



RENFROE® Rebuild Kit

The construction of RENFROE products permits the installation of repair parts to be accomplished by qualified personnel utilizing recommended procedures for inspection and installation of each product model as recommended in the Maintenance Section of the Operator's Manuals.

When necessary, the worn or damaged parts may be replaced by installing individual replacement parts or through the use of a RENFROE Rebuild Kit which includes all parts generally replaced due to normal wear. Parts not subjected to daily operating wear are not included in the Rebuild Kit and may be purchased separately.



KITS ARE AVAILABLE FOR THE FOLLOWING MODELS:

- MODEL AST
- MODEL ASTS
- MODEL ASTL
- MODEL BD
- MODEL DC
- MODEL DG
- MODEL DWS
- MODEL FR
- MODEL FRD
- MODEL J SERIES
- MODEL LJ
- MODEL M
- MODEL NM
- MODEL R
- MODEL RSC
- MODEL S
- MODEL SH
- MODEL SCP
- MODEL SCPA
- MODEL SCSL
- MODEL SD
- MODEL SEA
- MODEL SX
- MODEL TL
- MODEL TLA
- MODEL WHSR

AND HOT LIFT CLAMPS

Lifting Clamps
Universal Lifting, Locking

TERRIER LIFTING CLAMPS & EQUIPMENT
Quality clamps you can trust

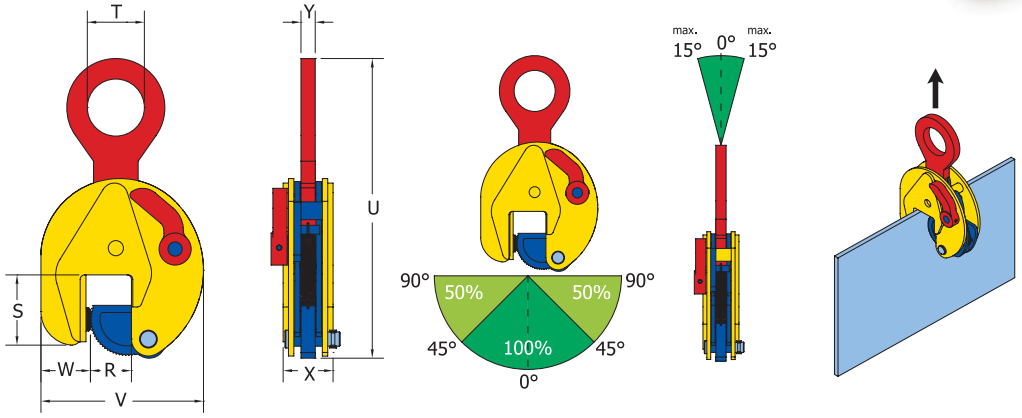
Heavy duty lightweight vertical lifting clamp



Application:
- For vertical lifting, transporting, and turning of all steel plates and structures
- Jaw openings available from: 0 to 5.90 in.
- TSE / STS types are supplied with enlarged jaw opening
- Working load limit (W.L.L.) 1,650 - 66,000 lbs (Higher W.L.L. available upon request)
- Min. W.L.L. is 10% of max. W.L.L.

Note: The plate surface of the material must have a hardness level of max. HRC 37/345 Hb

Features and Benefits:
- Lightweight design for easy handling
- Tough quality heavy-duty welded shell body
- Always equipped with a safety mechanism, ensuring the clamp does not slip when lifting force is applied and when load is being lowered
- Clamp is locked in closed as well as open position
- Maintenance-friendly. Easy to exchange parts are available upon request



Reference No.	Type	Capacity/W.L.L. (lb/pc)	Jaw opening (R) (inches)	Dimensions in inches							Weight (lb/pc)
				S	T	U	V	W	X	Y	
850000	0.75 TS	1,650	0 - .51	1.85	1.18	7.95	3.94	1.46	1.46	.39	4
850880	1 TSE	2,200	0 - .98	2.20	1.77	10.35	5.55	1.46	1.85	.59	8
850901	2 TSE	4,400	0 - 1.37	3.07	2.52	13.23	7.20	2.20	2.20	.63	16
850331	3 TSE	6,600	0 - 1.37	3.07	2.52	13.23	7.20	2.20	2.20	.63	16
850441	4.5 TS	9,900	0 - .98	3.35	2.76	16.65	7.99	2.36	3.03	.79	34
850451	4.5 TSE	9,900	0 - 1.77	3.35	2.76	16.73	8.98	2.36	3.07	.79	36
850301	6 TS	13,200	0 - 1.25	4.49	2.95	19.29	8.86	3.07	3.07	.79	42
851411	6 TSE	13,200	0 - 1.96	4.49	2.95	19.29	10.20	3.23	3.07	.79	47
850401	7.5 TS	16,500	0 - 1.57	4.37	2.95	20.87	9.69	2.99	3.23	.79	53
851501	7.5 TSE	16,500	0 - 2.16	4.37	2.95	20.55	10.51	2.76	3.39	.79	58
851551	9 TS	19,800	0 - 2.16	4.37	2.95	20.55	10.51	2.76	3.39	.79	60
850501	12 TS	26,400	0 - 2.04	5.83	3.35	24.29	11.61	3.94	3.70	1.73	82
850601	15 TS	33,000	0 - 2.99	8.23	3.39	31.89	14.69	5.35	4.17	1.93	155
850605	17 TS	37,400	0 - 2.99	8.23	3.39	31.89	14.69	5.35	4.17	1.93	157
850700	20 TS	44,000	0 - 3.14	9.84	3.94	36.73	22.17	6.02	5.51	2.60	329
850701	25 TS	55,000	.19 - 3.34	9.84	3.94	36.42	22.17	5.83	5.51	2.60	329
850721	30 TS	66,000	.39 - 3.54	9.84	3.94	36.14	22.36	6.02	5.59	2.60	343
852200	6 STS	13,200	1.57 - 3.54	4.49	2.95	19.13	10.83	2.76	3.07	.79	47
854300	7.5 STS	16,500	1.96 - 3.93	4.37	2.95	20.63	12.28	2.76	3.39	.79	59
853305	9 STS	19,800	1.96 - 3.93	4.37	2.95	20.55	12.28	2.76	3.39	.79	61
852401	12 STS	26,400	1.96 - 3.93	5.98	3.35	24.21	13.54	3.94	3.70	1.73	91
852501	15 STS	33,000	3.14 - 5.90	8.82	3.39	31.50	17.72	5.35	4.17	1.93	168
852600	20 STS	44,000	3.14 - 5.90	9.80	3.94	36.38	25.20	6.02	5.51	2.60	353
852601	25 STS	55,000	3.14 - 5.90	9.80	3.94	36.38	25.20	6.02	5.51	2.60	353
852721	30 STS	66,000	3.14 - 5.90	9.80	3.94	35.67	25.39	6.14	5.59	2.60	365

Lifting Clamps
Vertical, Locking

TERRIER
LIFTING CLAMPS & EQUIPMENT
Quality clamps you can trust

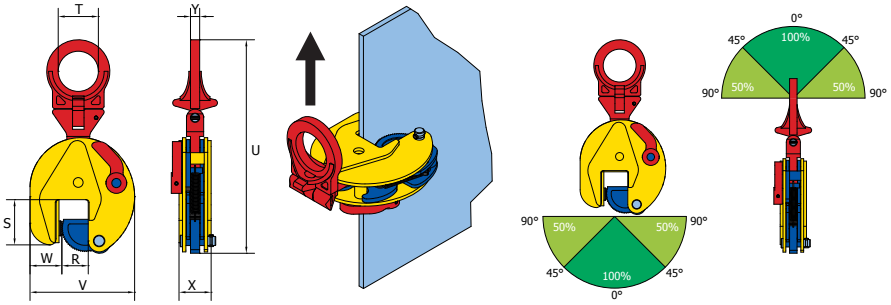
Best selling lightweight heavy duty clamp for universal lifting



Application:
- For vertical lifting, transporting, and turning of all steel plates and structures from all positions
- Jaw openings available from: 0 to 5.90 in.
- TSEU / STSU types are supplied with enlarged jaw opening
- Working load limit (W.L.L.) 1,650 - 66,000 lbs (Higher W.L.L. available upon request)
- Min. W.L.L. is 10% of max. W.L.L.

Note: The plate surface of the material must have a hardness level of max. HRC 37/345 Hb

Features and Benefits:
- Articulated lifting shackle for universal lifting flexibility at various angles
- The articulated lifting shackle guarantees a pressure grip in every position, even when side loading up to 90 degrees. Note a lower load capacity when lifting in an angle higher than 45 degrees. Please check W.L.L. illustrations below.
- Longer plates can be lifted without the use of a spreader beam when using two clamps on a two legged chain sling
- Always equipped with a safety mechanism, ensuring the clamp does not slip when lifting force is applied and when load is being lowered
- Clamp is locked in closed as well as open position
- Tough quality heavy-duty welded shell body
- Maintenance-friendly. Easy to exchange parts are available upon request



Reference No.	Type	Capacity/W.L.L. (lb/pc)	Jaw opening (R) (inches)	Dimensions in inches							Weight (lb/pc)
				S	T	U	V	W	X	Y	
855000	0.75 TSU	1,600	0 - .51	1.85	1.18	7.99	3.94	1.46	1.46	.39	4
865800	1 TSEU	2,200	0 - .98	2.20	1.97	11.50	5.55	1.46	1.85	.59	9
855601	2 TSEU	4,400	0 - 1.37	3.07	2.76	14.65	7.20	2.20	2.20	.63	18
865331	3 TSEU	6,600	0 - 1.37	3.07	2.76	14.65	7.20	2.20	2.20	.63	18
865441	4.5 TSU	9,900	0 - .98	3.35	2.76	16.89	7.99	2.36	3.03	.79	36
865301	4.5 TSEU	9,900	0 - 1.77	3.35	2.76	16.97	8.98	2.36	3.07	.79	37
865401	6 TSU	13,200	0 - 1.25	4.49	3.07	20.79	8.86	3.07	3.07	1.26	49
865411	6 TSEU	13,200	0 - 1.96	4.49	3.07	20.75	10.20	3.23	3.07	1.26	53
865601	7.5 TSU	16,500	0 - 1.57	4.37	3.07	22.32	9.69	2.99	3.23	1.26	60
855400	7.5 TSEU	16,500	0 - 2.16	4.37	3.07	22.05	10.51	2.76	3.39	1.26	62
855405	9 TSU	19,800	0 - 2.16	4.37	3.07	22.05	10.51	2.76	3.39	1.26	64
865901	12 TSU	26,400	0 - 2.04	5.83	3.35	25.51	11.61	3.94	3.70	1.89	91
865151	15 TSU	33,000	0 - 2.99	8.23	3.35	32.13	14.69	5.35	4.17	1.89	161
865155	17 TSU	37,400	0 - 2.99	8.23	3.35	32.13	14.69	5.35	4.17	1.89	164
865700	20 TSU	44,000	0 - 3.14	9.84	3.94	37.32	22.17	6.02	5.51	2.80	353
865251	25 TSU	55,000	.19 - 3.34	9.84	3.94	37.32	22.17	5.83	5.51	2.80	353
865230	30 TSU	66,000	.39 - 3.54	9.84	3.94	37.17	22.36	6.02	5.59	2.80	369
856200	6 STSU	13,200	1.57 - 3.54	4.49	3.07	20.59	10.83	2.76	3.07	1.26	53
856300	7.5 STSU	16,500	1.96 - 3.93	4.37	3.07	22.05	12.28	2.76	3.39	1.26	67
855305	9 STSU	19,800	1.96 - 3.93	4.37	3.07	22.05	12.28	2.76	3.39	1.26	69
856401	12 STSU	26,400	1.96 - 3.93	5.98	3.35	25.35	13.54	3.94	3.70	1.89	100
856501	15 STSU	33,000	3.14 - 5.90	8.82	3.35	31.81	17.72	5.35	4.17	1.89	172
856600	20 STSU	44,000	3.14 - 5.90	9.80	3.94	37.01	25.20	6.02	5.51	2.80	377
856601	25 STSU	55,000	3.14 - 5.90	9.80	3.94	37.01	25.20	6.02	5.51	2.80	377
856331	30 STSU	66,000	3.14 - 5.90	9.80	3.94	37.24	25.39	6.14	5.59	2.80	390

Lifting Clamps
Horizontal, Locking

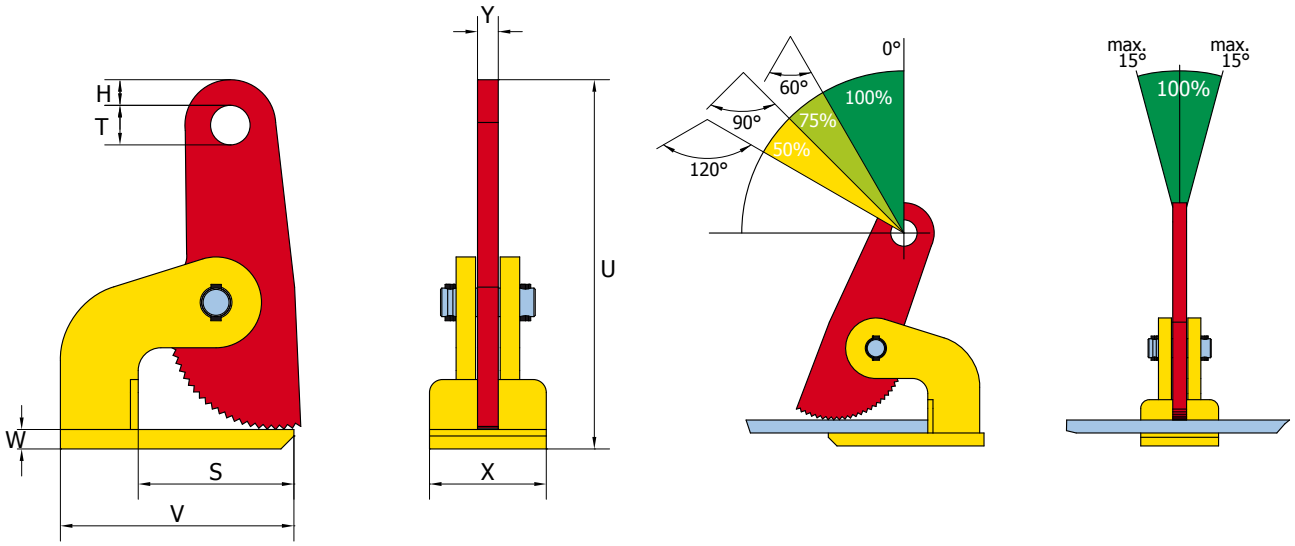
TERRIER LIFTING CLAMPS & EQUIPMENT
Quality clamps you can trust

Lightweight heavy duty clamp for horizontal lifting



Application:
- For horizontal lifting and transporting of steel plates and other non-deflecting materials
- Terrier FHX / FHSX lifting clamps must always be used in pairs (or multiple pairs)
- Jaw openings available from: 0 to 5.90 in.
- FHSX models are supplied with enlarged jaw opening
- Working load limit (W.L.L.) 2,200 - 55,000 lbs per pair (Higher W.L.L. available upon request)

Features and Benefits:
- Compact design and high lifting capacity
- Lightweight design for easy handling
- Tough quality heavy-duty welded body
- Maintenance-friendly. Easy to exchange parts are available upon request



Reference No.	Type	Capacity/W.L.L. (lb/pc)	Capacity/W.L.L. (lb/pair)	Jaw opening (R) (inches)	Dimensions in inches V	S	W	T	H	X	U	Y	Weight (lb/pc)
953100	1 FHX	1,100	2,200	0 - 1.37	5.51	3.90	.39	.98	.45	2.56	7.40	.59	6
953200	2 FHX	2,200	4,400	0 - 2.36	7.09	4.65	.59	1.20	.76	3.54	11.30	.63	16
953300	3 FHX	3,300	6,600	0 - 2.36	180	7.09	.79	1.20	.76	3.54	11.46	.63	18
953400	4 FHX	4,400	8,800	0 - 2.36	8.66	5.71	.98	1.20	.76	4.13	11.97	.79	29
953600	6 FHX	6,600	13,200	0 - 2.36	8.66	5.71	.98	1.20	.76	4.33	12.09	.79	31
953800	8 FHX	8,800	17,600	0 - 2.36	8.86	5.31	1.38	1.20	.76	4.72	13.23	1.18	42
953010	10 FHX	11,000	22,000	0 - 2.36	8.86	5.31	1.38	1.20	.76	4.72	13.23	1.18	42
953012	12 FHX	13,200	26,400	0 - 2.36	8.86	5.31	1.38	1.20	.76	4.72	13.23	1.18	42
953015	15 FHX	16,500	33,000	0 - 2.36	10.31	5.79	1.38	1.69	.84	6.30	13.54	1.38	67
953025	25 FHX	27,500	55,000	0 - 2.36	10.31	5.79	1.57	1.69	.84	6.89	13.74	1.38	73
954200	2 FHSX	2,200	4,400	0 - 3.93	7.09	4.72	.59	1.20	.76	3.54	15.08	.59	21
954300	3 FHSX	3,300	6,600	0 - 3.93	7.09	4.72	.79	1.20	.76	3.54	15.24	.59	23
954400	4 FHSX	4,400	8,800	0 - 3.93	8.66	5.71	.98	1.20	.76	4.13	16.30	.79	34
954600	6 FHSX	6,600	13,200	0 - 3.93	8.66	5.71	.98	1.20	.76	4.13	16.30	.79	37
954800	8 FHSX	8,800	17,300	0 - 3.93	8.86	5.31	1.38	1.20	.76	4.72	16.85	1.18	47
954010	10 FHSX	11,000	22,000	0 - 3.93	8.86	5.31	1.38	1.20	.76	4.72	16.85	1.18	49
954012	12 FHSX	13,200	26,400	0 - 3.93	8.86	5.31	1.38	1.20	.76	4.72	16.85	1.18	49
853820	15 FHSX	16,500	33,000	0 - 5.90	13.78	9.45	1.38	1.77	1.08	5.51	26.18	1.38	117

Lifting Clamps
Horizontal, Locking

TERRIER
LIFTING CLAMPS & EQUIPMENT
Quality clamps you can trust

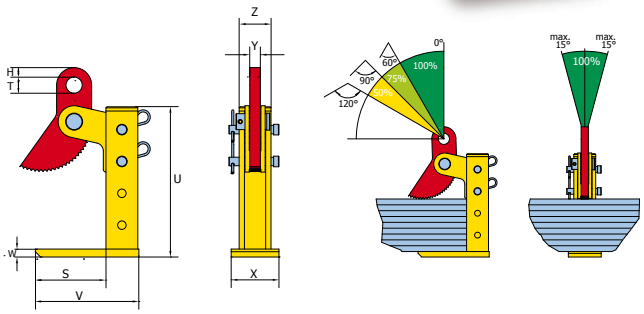
THSK

Adjustable extra large jaw opening for stacks, packages, and thick single plate lifting



Application:
- For horizontal lifting, handling, and transporting of banded/secured stacks, packages and or single thick steel plates
- Terrier THSK lifting clamps must always be used in pairs (or multiple pairs)
- Adjustable jaw offers wide variety of openings available from .11 to 16.53 in.
- Working load limit (W.L.L.) 3,300 - 19,800 lbs per pair (Higher W.L.L. available upon request)

Features and Benefits:
- Easy adjustable jaw opening
- Quick and easy placing and removing of the clamp
- Lightweight design for easy handling
- Tough quality heavy-duty welded body
- Maintenance-friendly. Easy to exchange parts are available upon request



Reference No.	Type	Capacity/W.L.L. (lb/pc)	Capacity/W.L.L. (lb/pair)	Jaw opening (R) (inches)	Dimensions in inches V	S	W	T	H	U	X	Z	Y	Weight (lb/pc)
815180	1.5 THSK/180	1,650	3,300	.11 - 7.08	7.91	5.31	.59	1.20	.71	11.38	3.54	2.36	.79	10
815300	1.5 THSK/300	1,650	3,300	.11 - 11.81	7.91	5.31	.59	1.20	.71	16.10	3.54	2.36	.79	11
830180	3 THSK/180	3,300	6,600	.11 - 7.08	9.49	6.50	.79	1.20	.71	11.65	4.13	2.72	.79	13
830300	3 THSK/300	3,300	6,600	.11 - 11.81	9.49	6.50	.79	1.20	.71	16.38	4.13	2.72	.79	15
845180	4.5 THSK/180	4,950	9,900	.11 - 7.08	9.49	6.50	.79	1.20	.71	11.65	4.13	2.72	.79	13
845420	4.5 THSK/420	4,950	9,900	.11 - 16.53	9.49	6.50	.79	1.20	.71	21.10	4.13	2.72	.79	17
860180	6 THSK/180	6,600	13,200	.11 - 7.08	10.08	6.30	.98	1.20	.71	11.97	4.72	2.95	.79	18
860420	6 THSK/420	6,600	13,200	.11 - 16.53	10.08	6.30	.98	1.20	.71	21.42	4.72	2.95	.79	24
890180	9 THSK/180	9,900	19,800	.11 - 7.08	10.08	6.30	.98	1.20	.71	11.97	4.72	2.95	.79	18
890420	9 THSK/420	9,900	19,800	.11 - 16.53	10.08	6.30	.98	1.20	.71	21.42	4.72	2.95	.79	24

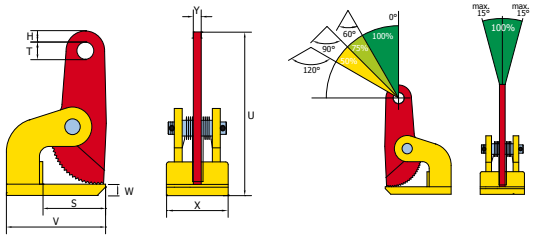
FHX-V

User-friendly horizontal clamp with torsion spring that ensures the clamp will stay in position after it has been set in place



Application:
- For horizontal lifting and transporting of steel plates and other non-deflecting materials
- Terrier FHX-V lifting clamps must always be used in pairs (or multiple pairs)
- Jaw openings available from: 0 to 2.36 in.
- Working load limit (W.L.L.) 2,200 - 13,200 lbs

Features and Benefits:
- Pre-tensioned spring cam feature for easy single operator usage
- Clamp can be closed and fixed on any desired spot
- Compact and lightweight design for easy handling
- Tough quality heavy-duty welded body
- Maintenance-friendly. Easy to exchange parts are available upon request



Reference No.	Type	Capacity/W.L.L. (lb/pc)	Capacity/W.L.L. (lb/pair)	Jaw opening (R) (inches)	Dimensions in inches V	S	W	T	H	U	X	Y	Weight (lb/pc)
953101	1 FHX-V	1,100	2,200	0 - 1.37	5.51	3.90	.39	1.04	.47	7.40	3.35	.59	7
953201	2 FHX-V	2,200	4,400	0 - 2.36	7.09	4.49	.59	1.20	.75	11.26	4.92	.63	18
953301	3 FHX-V	3,300	6,600	0 - 2.36	7.87	4.92	.79	30.5	.75	11.89	5.51	.79	27
953401	4 FHX-V	4,400	8,800	0 - 2.36	8.66	5.47	1.18	30.5	.75	12.44	6.50	.79	38
953601	6 FHX-V	6,600	13,200	0 - 2.36	8.66	5.47	1.18	30.5	.75	12.44	6.50	.79	38

Lifting Clamps
Horizontal

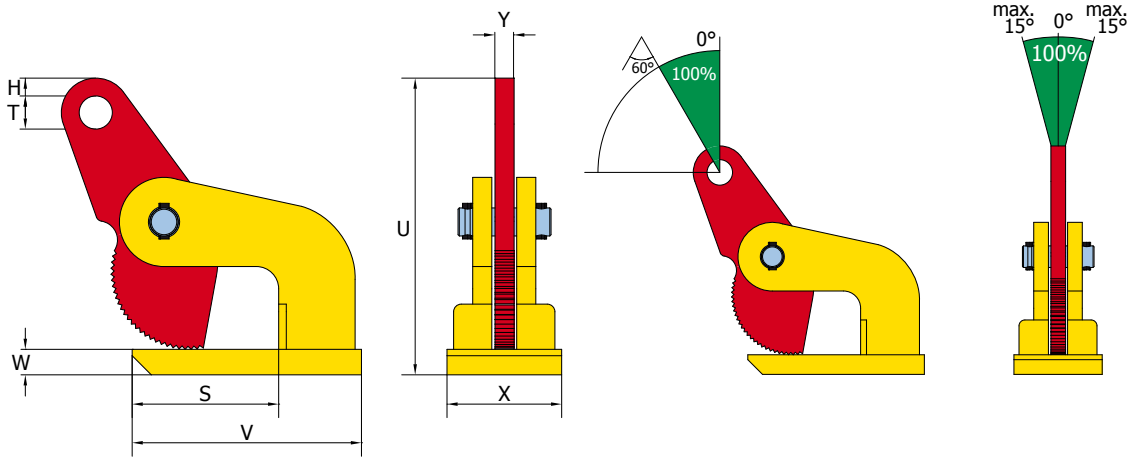
TERRIER LIFTING CLAMPS & EQUIPMENT
Quality clamps you can trust

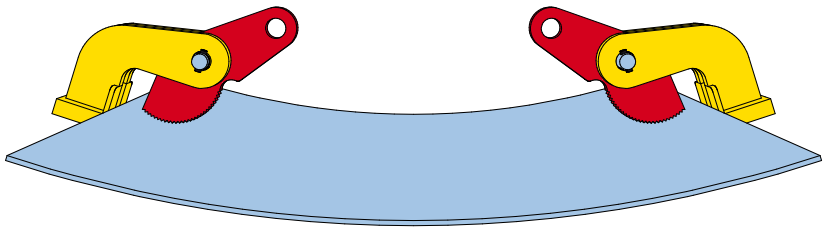
Lightweight heavy duty clamp for safe and easy lifting of bending sheets



Application:
- For horizontal lifting and transporting of sheets that will bend or deflect when being lifted
- Terrier TDH lifting clamps must always be used in pairs (or multiple pairs)
- Jaw openings available from: 0 to 1.96 in.
- Working load limit (W.L.L.) 2,200 - 13,200 lbs (Higher W.L.L. available upon request)

Features and Benefits:
- Compact design and high lifting capacity
- Lightweight design for easy handling
- Tough quality heavy-duty welded body
- Maintenance-friendly. Easy to exchange parts are available upon request





Reference No.	Type	Capacity/W.L.L. (lb/pc)	Capacity/W.L.L. (lb/pair)	Jaw opening (R) (inches)	Dimensions in inches V	S	W	T	H	X	U	Y	Weight (lb/pc)
970100	1 TDH	1,100	2,200	0 - .59	5.51	3.90	.39	.88	.53	2.56	6.57	.59	6
970200	2 TDH	2,200	4,400	0 - 1.37	7.09	4.49	.79	1.02	.55	3.54	9.17	.59	18
970400	4 TDH	4,400	8,800	0 - 1.96	9.25	5.08	1.18	1.57	.98	5.12	11.97	.79	40
970600	6 TDH	6,600	13,200	0 - 1.96	9.25	5.08	1.18	1.57	.98	5.12	11.97	.79	40

Specifications are subject to change

Lifting Clamps
Vertical

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Quality clamps you can trust

Special lifting clamp for handling and vertical in-position lifting of beams

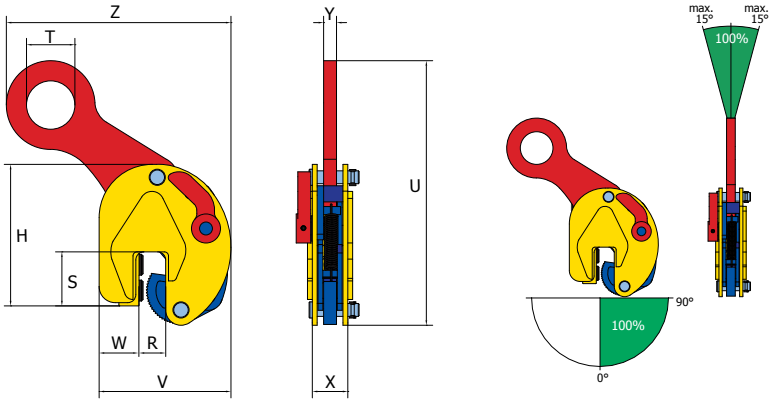


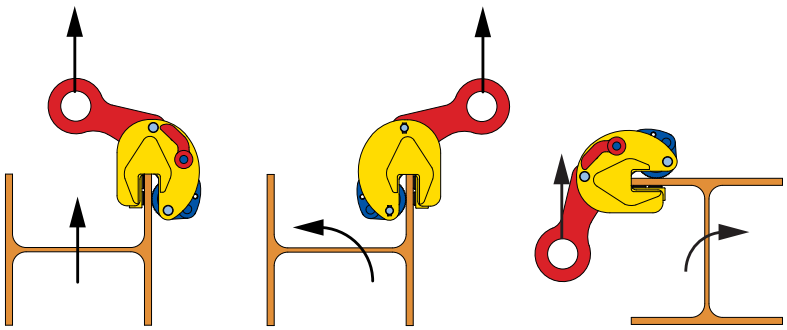
Application:

- For vertical lifting, transportation, and stacking of steel (H) beams, profiles, and structures where the load must stay perfectly in position
- Especially recommended for transportation and stacking of steel (H) beams (e.g. when sawing of steel beams, stacking of steel beams, and building of steel constructions)
- Jaw openings available from: 0 to .98 in.
- Working load limit (W.L.L.) 2,200 - 6,600 lbs
- Min. W.L.L. is 10% of max. W.L.L.

Features and Benefits:

- Special lifting shackle places the gravity center of the beam or load directly beneath the lifting shackle
- While lifting, the equilibrium of the beam is maintained and keeps the flanges vertical so the beam can easily be stacked or positioned
- Always equipped with a safety mechanism, ensuring the clamp does not slip when lifting force is applied and when load is being lowered
- Clamp is locked in closed as well as open position
- Lightweight design for easy handling
- Tough quality heavy-duty welded shell body
- Maintenance-friendly. Easy to exchange parts are available upon request





Reference No.	Type	Capacity/W.L.L. (lb/pc)	Jaw opening (R) (inches)	Dimensions in inches									Weight (lb/pc)
				V	W	S	H	T	Z	X	U	Y	
851010	1 FBK	2,200	0 - .59	5.35	1.69	1.77	6.06	1.38	7.87	1.85	8.86	.59	7
851000	1.5 FBK	3,300	0 - .78	6.69	2.20	2.64	8.27	2.36	12.28	2.20	14.72	.63	16
851100	3 FBK	6,600	0 - .98	8.19	2.28	2.60	9.92	2.76	14.96	3.03	16.14	.79	34

Lifting Clamps
Horizontal

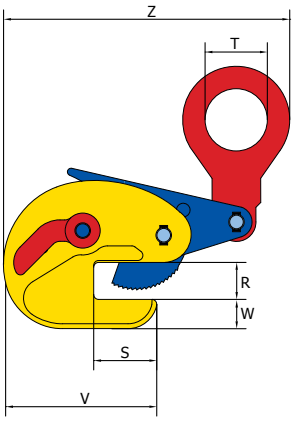
TERRIER
LIFTING CLAMPS & EQUIPMENT
Quality clamps you can trust

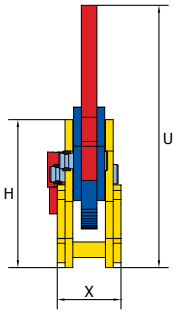
Easy horizontal H-beam lifting

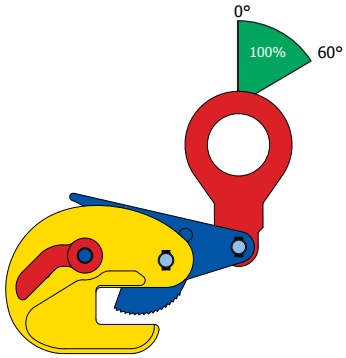
Application:
- For horizontal lifting, transportation, and stacking of steel (H) beams, profiles and structures
- Jaw openings available from: .11 to .78 in.
- Working load limit (W.L.L.) 4,400 lbs
- Min. W.L.L. is 10% of max. W.L.L.

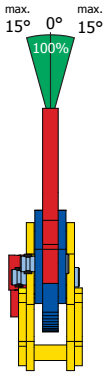
Features and Benefits:
- Special design makes it possible to lift steel (H) beams on the flange as well as on the upper ends of the beam
- Always equipped with a safety mechanism, ensuring the clamp does not slip when lifting force is applied and when load is being lowered
- Clamp is locked in closed as well as open position
- Lightweight design for easy handling
- Tough quality heavy-duty welded shell body
- Maintenance-friendly. Easy to exchange parts are available upon request

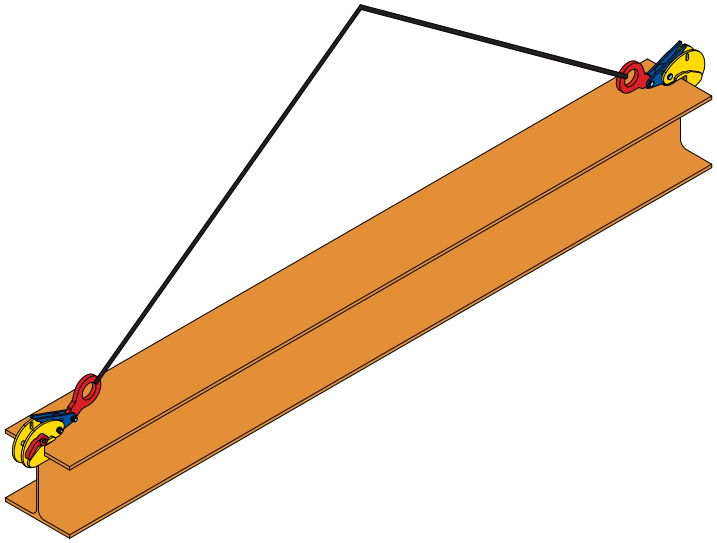












Reference No.	Type	Capacity/W.L.L. (lb/pc)	Jaw opening (R) (inches)	Dimensions in inches									Weight (lb/pc)
				V	W	S	H	T	Z	X	U	Y	
851001	2 TOBK	4,400	.11 - .78	7.56	1.18	2.52	6.06	2.52	11.22	2.56	12.20	.59	15

Specifications are subject to change

Lifting Clamps
Beam

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Multi purpose beam screw clamp

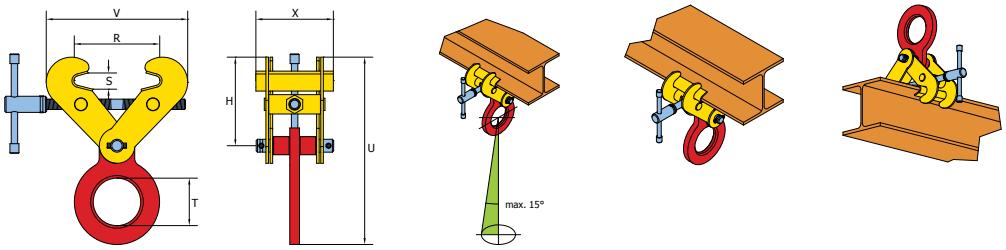


Application:
- For horizontal lifting and transportation of steel (H) beams, profiles, and structures
- Can be used as upside down attached anchor point (temporary)
- FSV Jaw openings available from: 2.95 to 17.71 in.
- FSVS / FSVSU types are supplied with enlarged jaw opening: 2.95 to 22.04 in.
- FSV Working load limit (W.L.L.) 2,200 - 22,000 lbs (Higher W.L.L. available upon request)
- FSVS / FSVSU Working load limit (W.L.L.) up to 11,000 lbs

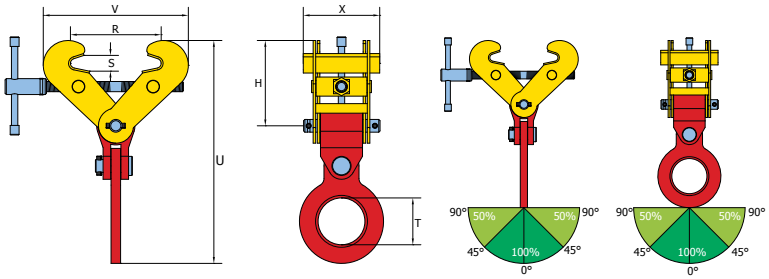


Features and Benefits:
- Special design makes it possible to lift steel (H) beams and structures
- Equal opening and closing of both jaws for simple and quick operation
- Welded jaw plates for better positioning and less risk of damaging load
- FSVSU types are supplied with reinforced body and articulated lifting shackle
- Lightweight, heavy-duty body
- Maintenance-friendly. Easy to exchange parts are available upon request

FSV



FSVSU



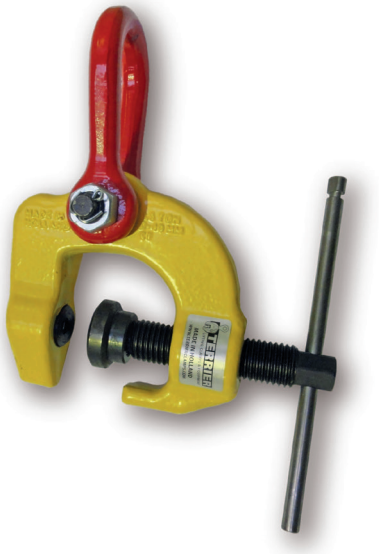
Reference No.	Type	Capacity/W.L.L. (lb/pc)	Jaw opening (R) (inches)	Dimensions in inches						Weight (lb/pc)
				S	T	V-max	U-max	H	X	
851400	1 FSV	2,200	2.95 - 7.48	1.18	2.89	14.06	13.58	4.44 - 7.55	4.72	12
851500	2 FSV	4,400	2.95 - 7.48	1.18	2.89	14.06	13.58	4.44 - 7.55	4.72	12
851600	3 FSV	6,600	2.95 - 7.48	1.18	2.89	14.06	13.58	4.44 - 7.55	4.72	12
851700	4 FSV	8,800	5.90 - 11.81	1.57	3.15	17.72	16.61	7.28 - 9.44	7.09	34
851800	5 FSV	11,000	5.90 - 11.81	1.57	3.15	17.72	16.61	7.28 - 9.44	7.09	34
851110	10 FSV	22,000	13.77 - 17.71	3.74	3.46	27.36	25.71	15.74 - 17.98	7.87	111
962000	2 FSVS	4,400	2.95 - 16.53	1.18	2.89	21.26	16.85	4.48 - 10.82	4.72	16
963000	3 FSVS	6,600	2.95 - 16.53	1.18	2.89	21.26	16.85	4.48 - 10.82	4.72	16
964000	4 FSVS	8,800	5.90 - 22.04	1.57	3.15	27.87	21.46	6.81 - 14.25	7.09	40
965000	5 FSVS	11,000	5.90 - 22.04	1.57	3.15	27.87	21.46	6.81 - 14.25	7.09	43
956300	3 FSVSU	6,600	2.95 - 16.53	1.18	2.89	21.26	19.35	4.48 - 10.82	4.72	18
956400	4 FSVSU	8,800	5.90 - 22.04	1.57	3.15	27.87	24.49	6.81 - 14.25	7.09	47
956500	5 FSVSU	11,000	5.90 - 22.04	1.57	3.15	27.87	24.49	6.81 - 14.25	7.09	49

Lifting Clamps
Vertical & Horizontal

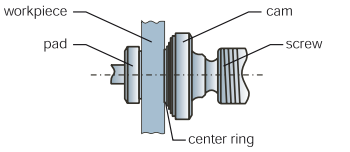
TERRIER LIFTING CLAMPS & EQUIPMENT
Quality clamps you can trust

Multi-purpose screw clamp

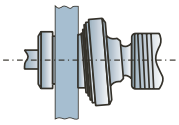
Application:
- For vertical and horizontal lifting and transportation of a large variety of steel structures
- Can also be used as upside down attached anchor point (temporary)
- Jaw openings available from: 0 to 2.95 in.
- TSCC-W types are supplied with enlarged jaw opening: .98 to 3.93 in.
- Working load limit (W.L.L.) 1,100 - 13,200 lbs
- **No min. W.L.L.**



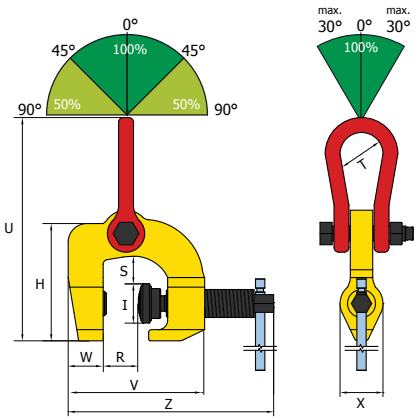
Features and Benefits:
- Special universal design ensures multi-purpose application of lifting steel structures
- Fitted with a moveable cam on the thread spindle which provides a powerful clamping force on the workpiece
- Equipped with a safety screw spindle mechanism, ensuring the clamp does not slip when lifting force is applied
- Lightweight design for easy handling
- Tough quality heavy-duty drop forged body
- Forged alloy components, where required
- Maintenance-friendly. Easy to exchange parts are available upon request
- All models equipped with tightening bar

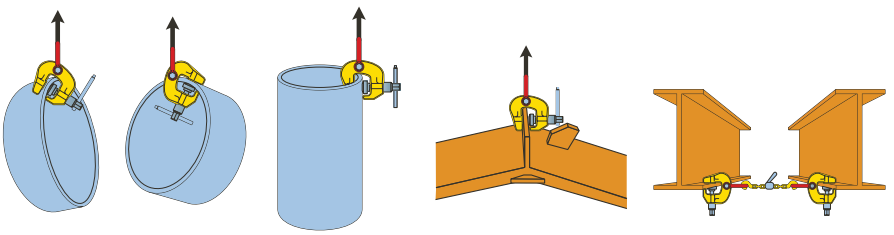


When under the initial tightening force



When under load





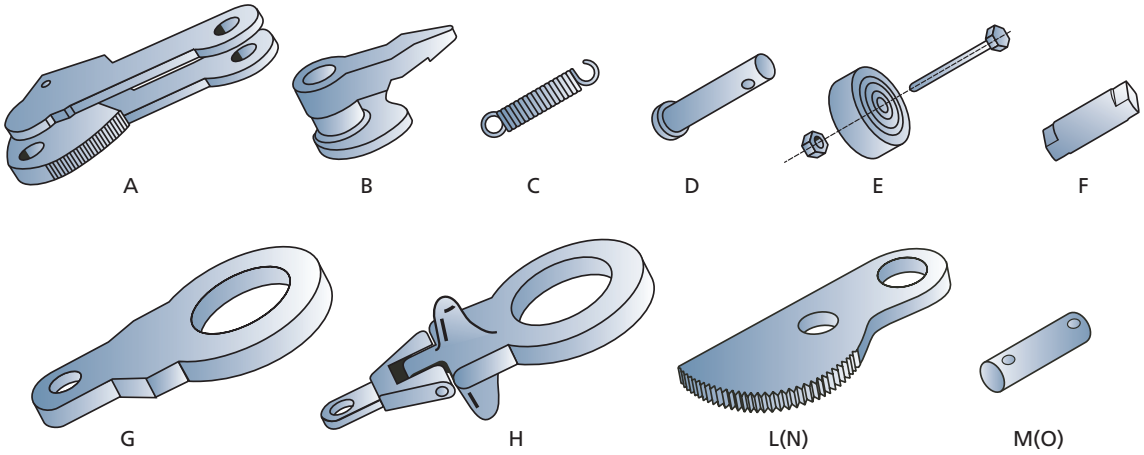
Reference No.	Type	Capacity/W.L.L. (lb/pc)	Jaw opening (R) (inches)	Dimensions in inches									Weight (lb/pc)
				S	I	W	V	Z	U	H	T	X	
900500	0.5 TSCC	1,100	0 - 1.37	.71	1.08	1.02	4.25	6.22	8.31	3.23	.98	1.06	3
862710	1 TSCC	2,200	0 - 1.18	1.73	1.65	1.81	6.89	8.27	8.03	5.04	1.50	1.81	8
901500	1.5 TSCC	3,300	0 - 1.57	1.14	1.65	1.57	5.91	8.66	9.13	5.51	1.81	1.81	12
903000	3 TSCC	6,600	0 - 2.36	1.50	1.97	1.81	7.48	11.02	10.94	7.24	1.97	2.36	18
906000	6 TSCC	13,200	0 - 3.93	2.36	2.48	2.76	11.65	17.56	15.35	9.80	3.94	2.95	49
862711	1 TSCC-W	2,200	1.96 - 3.93	3.46	1.65	1.97	8.86	10.16	10.75	7.48	1.77	1.81	14
862731	3 TSCC-W	6,600	.98 - 2.95	2.99	1.93	2.36	8.46	9.84	11.46	7.52	1.97	2.13	18

Lifting Clamps
Spare Parts

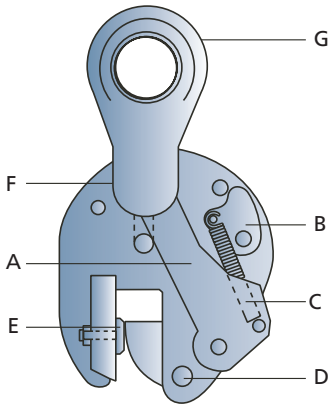
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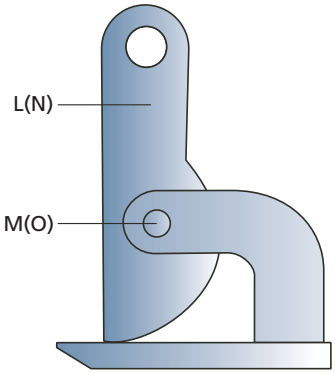
All spare parts are available either separately or as repair sets. Terrier spare parts sets come with a special discount. It is recommended when any parts are damaged to replace them straight away without taking any risk.

When ordering spare parts always give: model, lifting capacity, jaw opening, and serial number as well as the needed spare parts.



A Cam assembly
B Lock lever assembly
C Lock spring
D Cam pin
E Pivot set
F Shackle pin
G Lifting eye for TS, STS model
H Lifting eye for TSU, TSEU model
L Cam for FHX model
M Cam pin for FHX model
N Cam for FHSX model
O Cam pin for FHSX model





Repair / Revision sets are available for all vertical clamps

The ***repair sets*** contain:
A: Cam assembly
C: Lock spring
D: Cam pin
E: Pivot set

The ***revision sets*** contain:
A: Cam assembly
B: Lock lever assembly
C: Lock spring
D: Cam pin
E: Pivot set


Repair set

Specifications are subject to change

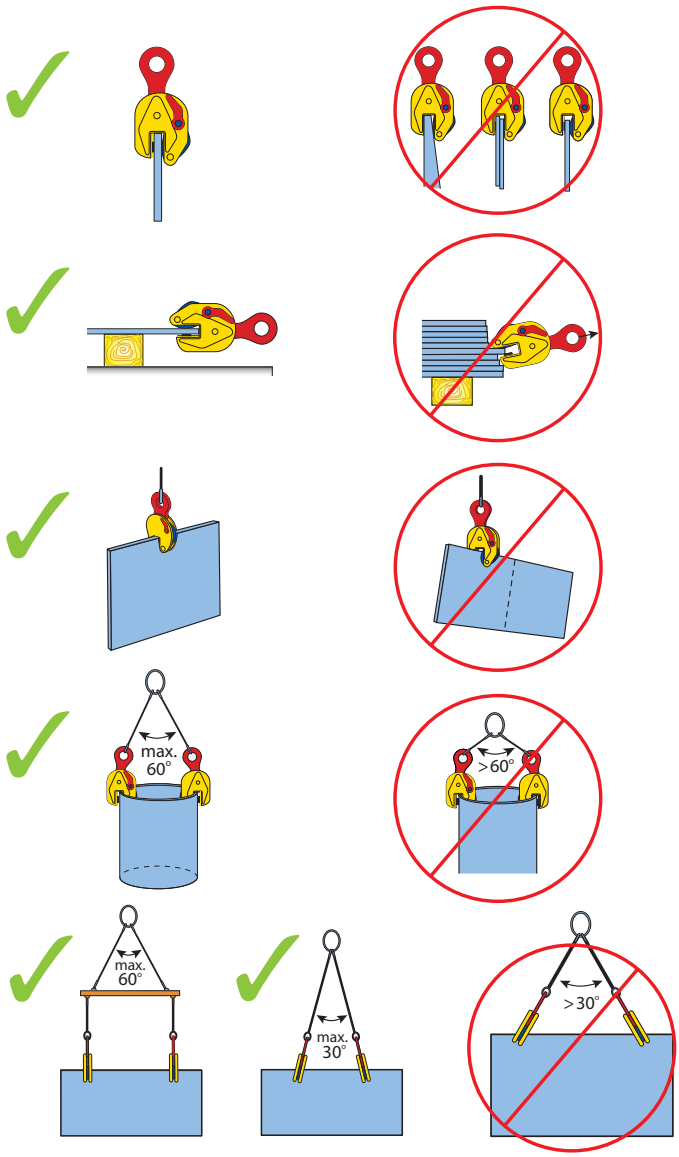
Lifting Clamps
Safe Lifting Practices

TERRIER
LIFTING CLAMPS & EQUIPMENT
Quality clamps you can trust

Absolute Safety

Your safety and safe lifting is our number one priority.
Make sure to read the safe lifting instructions below before using Terrier lifting clamps.
Each product sheet gives extra information on safe lifting and specific application.

- **Always read the manual first before using a clamp for operating, application, safety, maintenance, inspection, and warranty instructions**
- Lifting clamps are suitable for use in normal atmospheric conditions (-40°F up to +212°F) unless stated otherwise
- Never overload a clamp and prevent the shocking of loads
- When loading always use the whole jaw depth
- Never lift more than one plate at the same time
- Always keep your distance during lifting and lowering of a load
- Prevent situations where personnel are under the load
- Any welding to the clamp is forbidden. This can influence the integrity of the clamp

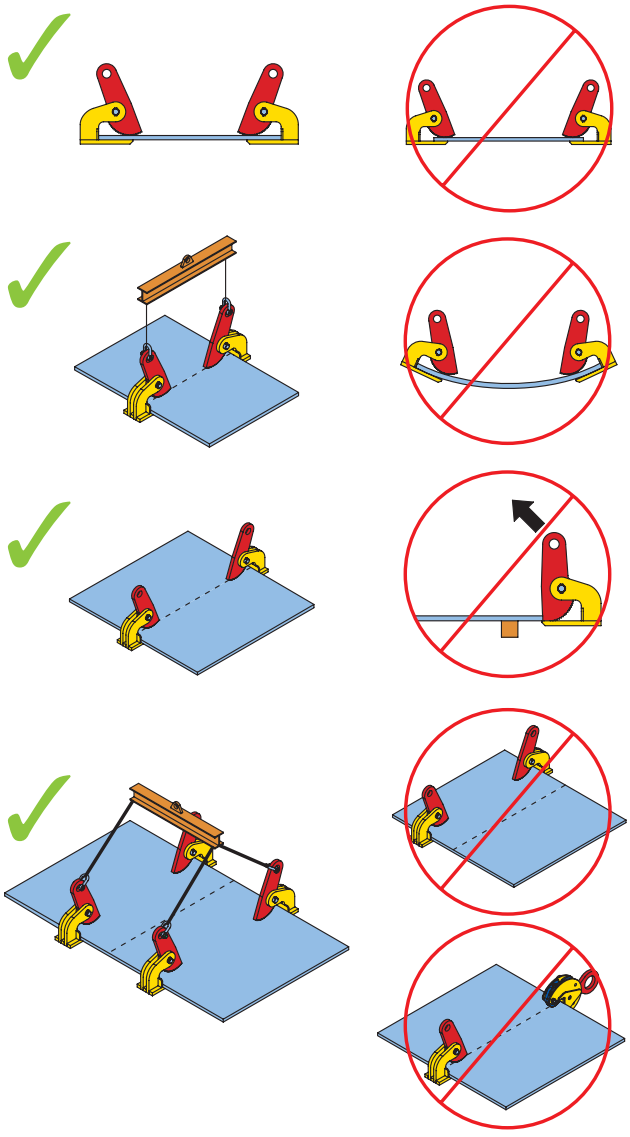


Safe Vertical Lifting

Lifting Clamps
Safe Lifting Practices

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Safe Horizontal Lifting

Swivels

MADE IN USA

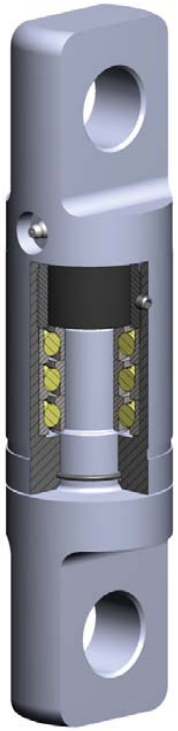
MILLER LIFTING PRODUCTS

MILLER SWIVELS- TYPES, USE, SELECTION

With the largest product line of load handling swivels worldwide, and continuous leadership and innovation in the use of swivels since our founding in 1935 in Pomona, California, Miller provides users worldwide with proven solutions to everyday problems in the field, under the sea, in the air, in the factory and in space. Miller also has provided many custom swivel solutions tailored to specific operations in the construction, mining, petroleum and natural gas, foundation drilling, nuclear, communications and other industries.

The five general categories of Miller Swivels are:

- Y-Link, angular contact ball bearing swivels
- Econo-Link, tapered thrust bearing swivels
- Special application swivels (marine, stainless, insulated, demolition, drilling, line pulling)
- Custom-designed swivels for specific operational requirements



Y-Link Angular Contact Ball Bearing Swivels

Developed by Miller, angular contact ball bearing swivels provide the most efficient way to handle the heavy thrust loads encountered in crane operation and other lifting and pulling jobs. The precision-ground, precisely matched bearings assure longer service life, superior performance, and much longer wire rope life where rope twist must be reduced or eliminated. The thrust load is transferred from an overlapping shoulder on the bearing race through the balls to the diagonally opposed shoulder on the outer bearing race. This distributes the load to the outer part of the barrel.

The angular contact bearings are mounted in complements of two or more, depending on the load capacity of the swivel. They permit the load to rotate freely, yet they prevent the load from spinning. By permitting the wire rope to neutralize itself, they can extend the wire rope life multiple times.

The angular contact ball bearing swivel design results in highly reduced torque levels- 50% to 70% less than the torque levels found for traditional thrust bearing swivels, especially as load increases.

External parts of Miller Y-Link Angular Contact Ball bearings are machined from high quality alloy steel and are zinc plated for long-term corrosion protection. Working loads range from ½ to 1000 tons.

Econo-Link Thrust Bearing Swivels



Outstanding economy and good service are the hallmarks of Miller's traditional swivel model. Miller thrust bearing swivels are economically priced, yet are surpassed only by Miller's angular contact bearing swivels. Miller Econo-Link Thrust Bearing Swivels incorporate a single heavy duty tapered roller bearing housed in a steel retainer. External parts are steel castings with forged steel hooks when hooks are used. A close-fitting bronze bushing seals lubricant in and keeps dirt out of the bearing. For many applications Miller Econo-Link Thrust Bearing Swivels offer the most economical, yet dependable, service available. Working loads range from 3 to 15 tons.

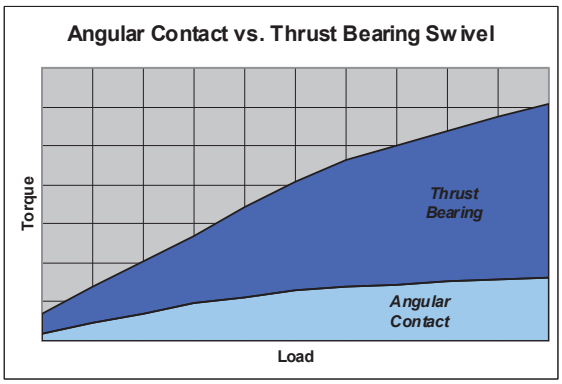
Swivels

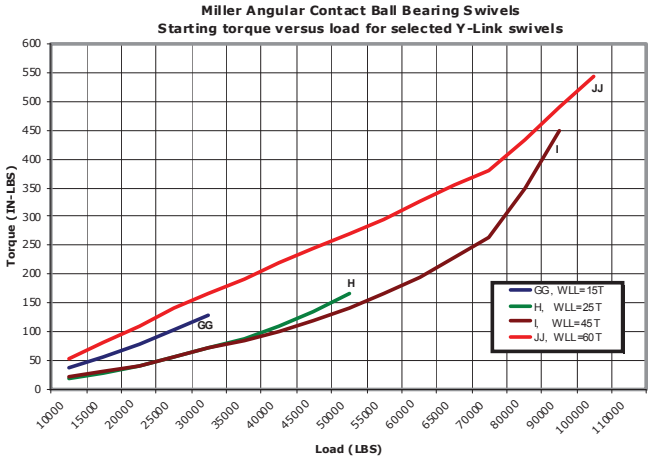
MILLER
LIFTING PRODUCTS

MILLER SWIVELS- TYPES, USE, SELECTION

Torque Considerations

Angular contact bearings allow much lower torque resistance. Starting torque under load for angular contact bearings is based on Miller testing and empirical data.





"General guide only, torque value may vary to a significant degree due to application conditions. Miller does not guarantee torque data shown, should specific torque performance be desired, contact Miller"

SPECIAL APPLICATION SWIVELS with Angular Contact Ball Bearings

Over the years Miller has developed a number of angular contact ball bearing swivels for given applications or environments. The following are the most common and those for which we have developed standard products available to order from Miller. All of these swivels are presented in the tables following in this section of the catalog.

Heavy Duty Swivels (HD-Link) – These swivels which feature heavy duty barrels are available to protect bearings and maximize swivel life under the heavy impact and abrasive environment of demolition work. Many other Miller swivels can be fitted with heavy duty barrels upon request.

Overhaul Swivels (g-Link) – Weighing from 2.5 to nearly 4 times as much as standard swivels of the same type, these special Miller Overhaul Swivels provide an excellent means of adding additional weight without increasing overall dimensions. Ideal for small truck cranes and hoists in applications where minimal additional overhaul weight is required.

Line Pulling Swivels (Miller-Pengo) – Designed specifically by Miller for the electrical distribution industry for stringing high tension wires and for pulling wires through conduit. They help to accommodate the inevitable twisting developed as lines are installed using sheaves over long distances. These swivels are not designed for general lifting applications. Please see Miller Y-Link and Econo-Link for lifting swivels.

Stainless Steel Swivels – These swivels are designed for cable and chain applications above the surface of the water where long term environmental considerations require the corrosion resistant qualities of stainless steel. In addition to above surface marine, other typical applications include chemical processing plants, nuclear plants, and applications with magnetic permeability restrictions.

Swivels

MILLER LIFTING PRODUCTS

SWIVELS- Y-LINK, ANGULAR CONTACT BEARINGS



- First ever angular contact bearing swivel, USA patent 2,651,533
- Working Load Limits from 0.45 through 300 tons
- Multiple Angular Contact Bearing Design extends the life of the wire rope, and swivel life
- Low starting torque enables immediate swivel response
- Angular contact bearings endure higher rotational speeds
- Models 5 tons and up include lubrication fitting
- Durable structural parts are made from forged alloy steel- not cast
- Zinc plated inside and out for effective protection against corrosion
- Design Factor is 5:1 through 35 tons and 4:1 above 35 tons
- Proof Load is 2 x WLL
- See table of contents for stainless steel, high pressure, and other special models

Swivels

MILLER LIFTING PRODUCTS

SWIVELS- Y-LINK, ANGULAR CONTACT BEARINGS

Y-LINK MODEL NUMBER SYSTEM

MODEL WEIGHT LBS	CAPS								BARRELS	SHANKS					
	CLEVIS	EYE	STUD	BULLET NOSE	SOCKET	THIMBLE	WEDGE	HOOK	EYE BOLT	STANDARD BARREL	CLEVIS	EYE	STUD	BULLET NOSE	HOOK	EYE BOLT
	1	2	3	4	5	6	7	8	9	1	1	2	3	4	5	6
A 0.5	✓	✓	✓	✓						✓	✓	✓	✓	✓		
BB 0.8	✓	✓	✓	✓						✓	✓	✓	✓	✓		
B 1.5	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓
C 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
D 5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EE 8.5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
G 10	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
GG 15	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
H 25	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
HH 35	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
I 45	✓	✓	✓	✓						✓	✓	✓		✓	✓	
J 50	✓	✓	✓	✓						✓	✓	✓			✓	
JJ 60	✓	✓	✓							✓	✓	✓			✓	
K 75	✓	✓	✓							✓	✓	✓			✓	
KK 100	✓	✓	✓							✓	✓	✓			✓	
KKK 150	✓	✓								✓	✓	✓			✓	
L 200	✓	✓								✓	✓	✓			✓	
M 300	✓	✓								✓	✓	✓			✓	
MODEL	1	2	3	4	5	6	7	8	9	1	1	2	3	4	5	6
	CAPS									BARRELS	SHANKS					

NOTE: ✓ CHECKED COMPONENTS ARE AVAILABLE AS STANDARD PRODUCTS. OTHERS MAY BE ADDED. FOR UNCHECKED, PLEASE CONTACT MILLER

MODEL NUMBER KEY:			
X	#	#	#
MODEL LETTER(S)	CAP NUMBER	BARREL NUMBER	SHANK NUMBER

EXAMPLE: D-115 = (D) 5 TON, (1) CLEVIS CAP, (1) STD. BARREL, (5) HOOK

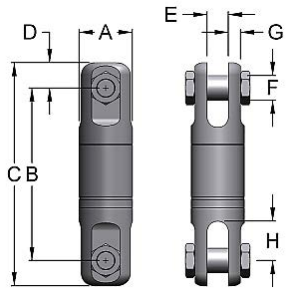
Swivels

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MILLER LIFTING PRODUCTS

SWIVELS- Y-LINK, ANGULAR CONTACT BEARINGS

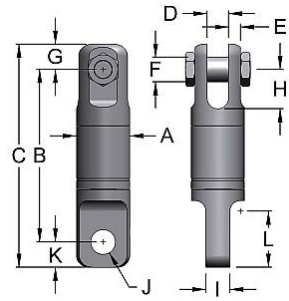
CLEVIS TO CLEVIS - TYPE 111



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	Weight Lbs.
0.45	A-111	1/8	0.88	2.38	3.13	0.38	0.25	0.25	0.19	0.41	0.37
0.75	BB-111	1/4	1.31	3.5	4.38	0.44	0.31	0.38	0.22	0.56	0.93
1.5	B-111	3/8	1.63	4.06	5.44	0.69	0.5	0.5	0.31	0.78	2
3	C-111	1/2	2	6.25	8.09	0.94	0.75	0.75	0.38	1.19	4.5
5	D-111	5/8	2.5	7.94	10.09	1.13	1	0.88	0.56	1.56	9.5
8.5	EE-111	3/4	2.88	9.63	12.31	1.34	1.56	1.19	0.53	2.09	15.25
10	G-111	7/8	4	14	17.5	1.75	1.75	1.5	0.81	3.5	40
15	GG-111	1	4	14	17.5	1.75	1.75	1.5	0.81	3.5	40
25	H-111	1 1/4	5	15.94	20.69	2.38	2	2	1.13	3.69	78
35	HH-111	1 1/2	5	15.94	20.69	2.38	2	2	1.13	3.69	78
45	I-111		6	20.06	26.06	3	2.5	2.25	1.25	4	146
50	J-111		7	20.94	27.94	3.5	3	2.5	1.5	4.5	207
60	JJ-111		7	20.94	27.94	3.5	3	2.5	1.5	4.5	207
75	K-111		8	24	32	4	3.5	3	1.75	5	300
100	KK-111		10	32.88	43.88	5.5	4.06	4	2	6.75	692
150	KKK-111		10	32.88	43.88	5.5	4.06	4	2	6.75	692
200	L-111		11.5	36.52	48.02	5.75	5.06	4.5	2.56	7.75	985
300	M-111		14	43.95	58.95	7.5	6.13	4.75	3.94	9.5	1680

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

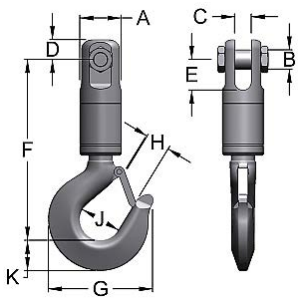
CLEVIS TO EYE - TYPE 112



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight Lbs.
0.45	A-112	1/8	0.88	2.5	3.25	0.25	0.19	0.25	0.38	0.41	0.25	.26	0.38	0.75	0.31
0.75	BB-112	1/4	1.31	3.56	4.44	0.31	0.22	0.38	0.44	0.56	0.31	0.38	0.44	0.94	0.94
1.5	B-112	3/8	1.63	4.13	5.38	0.5	0.31	0.5	0.69	0.78	0.5	0.66	0.63	1.34	1.94
3	C-112	1/2	2	6.19	8.13	0.75	0.38	0.75	0.94	1.19	0.75	0.91	1	1.94	4.25
5	D-112	5/8	2.5	7.88	10.19	1	0.56	0.88	1.13	1.56	1	1.28	1.19	2.5	8.94
8.5	EE-112	3/4	2.88	9.5	12.34	1.56	0.53	1.19	1.34	2.19	1.25	1.41	1.5	3.13	15.25
10	G-112	7/8	4	13.94	17.5	1.75	0.81	1.5	1.75	3.5	1.72	1.66	1.81	4.66	39
15	GG-112	1	4	13.63	17.5	1.75	0.81	1.5	1.75	3.5	1.94	2.03	2.13	4.91	40
25	H-112	1 1/4	5	15.94	20.69	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	75
35	HH-112	1 1/2	5	15.94	20.69	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	75
45	I-112		6	20.06	26.06	2.5	1.25	2.25	3	4	2.5	2.53	3	7	139
50	J-112		7	20.94	27.94	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	205
60	JJ-112		7	20.94	27.94	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	205
75	K-112		8	24	32	3.5	1.75	3	4	5	3.5	3.38	4	8.13	305
100	KK-112		10	32.88	43.88	4.06	2	4	5.5	6.75	4.5	4.03	5.5	11.38	647
150	KKK-112		10	32.88	43.88	4.06	2	4	5.5	6.75	4.5	4.28	5.5	11.38	647
200	L-112		11.5	35.52	47.27	5.06	2.56	4.5	5.75	7.75	5	4.81	6	13	925
300	M-112		14	43.45	58.95	6.13	3.94	4.75	7.5	9.5	6	6.06	8	17	1645

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

CLEVIS TO HOOK - TYPE 115



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	J	K	Weight Lbs.
1.5	B-115	3/8	1.63	0.5	0.5	0.69	0.78	5.88	3.63	1	1.63	1	2.31
3	C-115	1/2	2	0.75	0.75	0.94	1.19	8.56	4.88	1.34	2	1.38	5.94
5	D-115	5/8	2.5	0.88	1	1.13	1.56	10.81	6.5	1.34	2.5	1.81	11.81
8.5	EE-115	3/4	2.88	1.19	1.56	1.34	2.09	13.75	8.69	2.25	3.25	2.59	24
10	G-115	7/8	4	1.5	1.75	1.75	3.5	17.88	11	3	3.25	3	53
15	GG-115	1	4	1.5	1.75	1.75	3.5	17.88	11	3	4.25	3	53
25	H-115	1 1/4	5	2	2	2.38	3.69	23.01	12.02	3.54	4.41	4.21	131
35	HH-115	1 1/2	5	2	2	2.38	3.69	23.01	12.02	3.54	4.41	4.21	131
45	I-115		6	2.25	2.5	3	4	27.65	13.46	3.94	4.92	4.69	211
50	J-115		7	2.5	3	3.5	4.5	29.34	15.12	4.41	5.51	5.26	293
60	JJ-115		7	2.5	3	3.5	4.5	29.34	15.12	4.41	5.51	5.26	293
75	K-115		8	3	3.5	4	5	33.36	17	4.92	6.3	5.97	411
100	KK-115		10	4	4.06	5.5	6.75	45.31	21.34	6.3	7.87	7.55	922
150	KKK-115		10	4	4.06	5.5	6.75	45.31	21.34	6.3	7.87	7.5	907
200	L-115		11.5	4.5	5.06	5.75	7.75	50.48	26.95	7.87	9.84	9.29	1510
300	M-115		14	4.75	6.13	7.5	9.5	63.13	33.69	9.17	12.4	11.81	2800

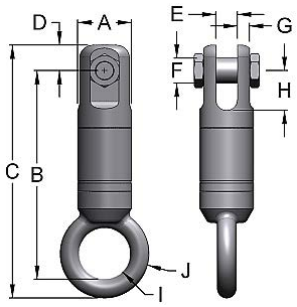
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SWIVELS- Y-LINK, ANGULAR CONTACT BEARINGS

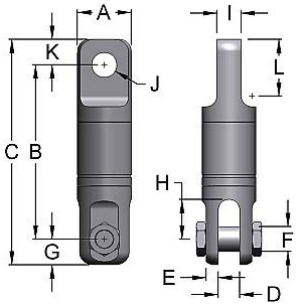
CLEVIS TO EYE BOLT - TYPE 116



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	Weight Lbs.
1.5	B-116	3/8	1.63	5.44	6.75	0.69	0.5	0.5	0.31	0.78	1.5	2.75	2.19
3	C-116	1/2	2	7.47	9.16	0.94	0.75	0.75	0.38	1.19	1.75	3.5	4.5
5	D-116	5/8	2.5	9.31	11.44	1.13	1	0.88	0.56	1.56	2	4	9.56
8.5	EE-116	3/4	2.88	11.09	13.44	1.34	1.56	1.19	0.53	2.09	2.5	4.5	14.75
10	G-116	7/8	4	15.91	19.47	1.75	1.75	1.5	0.81	3.5	3.25	6.88	43
15	GG-116	1	4	15.91	19.47	1.75	1.75	1.5	0.81	3.5	3.25	6.88	43

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

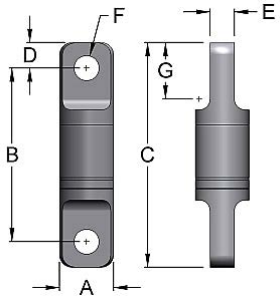
EYE TO CLEVIS - TYPE 211



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	H	I	J	K	L	Weight Lbs.
0.45	A-211	1/8	0.88	2.5	3.25	0.25	0.19	0.25	0.38	0.41	0.25	.26	0.38	0.75	0.38
0.75	BB-211	1/4	1.31	3.63	4.5	0.31	0.22	0.38	0.44	0.44	0.31	.39	0.44	0.94	0.94
1.5	B-211	3/8	1.63	4.13	5.44	0.5	0.31	0.5	0.69	0.78	0.5	0.66	0.63	1.34	1.88
3	C-211	1/2	2	6.19	8.13	0.75	0.38	0.75	0.94	1.19	0.75	0.91	1	1.94	4.31
5	D-211	5/8	2.5	7.88	10.19	1	0.56	0.88	1.13	1.56	1	1.28	1.19	2.5	9.06
8.5	EE-211	3/4	2.88	9.5	12.34	1.56	0.53	1.19	1.34	2.19	1.25	1.41	1.5	3.13	14.75
10	G-211	7/8	4	13.94	17.5	1.75	0.81	1.5	1.75	3.5	1.72	1.66	1.81	4.66	39
15	GG-211	1	4	13.63	17.5	1.75	0.81	1.5	1.75	3.5	1.94	2.03	2.13	4.91	40
25	H-211	1 1/4	5	15.94	20.69	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	75
35	HH-211	1 1/2	5	15.94	20.69	2	1.13	2	2.38	3.69	2.25	2.31	2.38	5.25	75
45	I-211		6	20.06	26.06	2.5	1.25	2.25	3	4	2.5	2.53	3	7	139
50	J-211		7	20.94	27.94	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	211
60	JJ-211		7	20.94	27.94	3	1.5	2.5	3.5	4.5	2.94	2.88	3.5	7	211
75	K-211		8	24	32	3.5	1.75	3	4	5	3.5	3.38	4	8.13	305
100	KK-211		10	32.88	43.88	4.06	2	4	5.5	6.75	4.5	4.03	5.5	11.38	678
150	KKK-211		10	32.88	43.88	4.06	2	4	5.5	6.75	4.5	4.28	5.5	11.38	678
200	L-211		11.5	36.67	48.42	5.06	2.56	4.5	5.75	7.75	5	4.81	6	13	960
300	M-211		14	43.45	58.95	6.13	3.94	4.75	7.5	9.5	6	6.06	8	17	1645

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

EYE TO EYE - TYPE 212



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
0.45	A-212	1/8	0.88	2.63	3.38	0.38	0.25	.26	0.75	0.31
0.75	BB-212	1/4	1.31	3.81	4.69	0.44	0.31	.39	0.94	0.93
1.5	B-212	3/8	1.63	4.13	5.38	0.63	0.5	0.66	1.34	1.87
3	C-212	1/2	2	6.13	8.13	1	0.75	0.91	1.94	4.06
5	D-212	5/8	2.5	7.81	10.19	1.19	1	1.28	2.5	8.5
8.5	EE-212	3/4	2.88	9.31	12.31	1.5	1.25	1.41	3.13	14.75
10	G-212	7/8	4	13.88	17.5	1.81	1.72	1.66	4.66	37
15	GG-212	1	4	13.25	17.5	2.13	1.94	2.03	4.91	39
25	H-212	11/4	5	15.94	20.69	2.38	2.25	2.31	5.25	72
35	HH-212	1 1/2	5	15.94	20.69	2.38	2.25	2.31	5.25	72
45	I-212		6	20.06	26.06	3	2.5	2.53	7	132
50	J-212		7	20.94	27.94	3.5	2.94	2.88	7	209
60	JJ-212		7	20.94	27.94	3.5	2.94	2.88	7	209
75	K-212		8	24	32	4	3.5	3.38	8.13	311
100	KK-212		10	32.88	43.88	5.5	4.5	4.03	11.38	653
150	KKK-212		10	32.88	43.88	5.5	4.5	4.28	11.38	657
200	L-212		11.5	35.67	47.67	6	5	4.81	13	900
300	M-212		14	42.95	58.95	8	6	6.06	17	1610

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

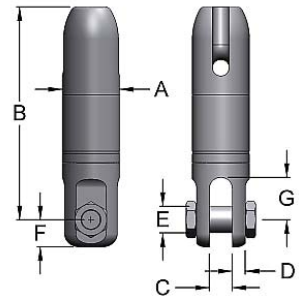
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SWIVELS- Y-LINK, ANGULAR CONTACT BEARINGS

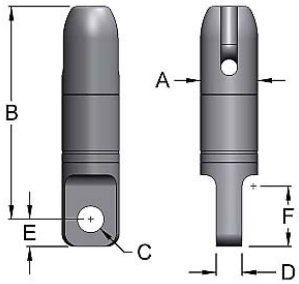
THIMBLE TO CLEVIS - TYPE 611



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
1.5	B-611	3/8	1.63	6	0.5	0.31	0.5	0.69	0.78	2.5
3	C-611	1/2	2	8.06	0.75	0.38	0.75	0.94	1.19	5.25
5	D-611	5/8	2.5	9.31	1	0.56	0.88	1.13	1.56	10
8.5	EE-611	3/4	2.88	11.38	1.56	0.53	1.19	1.34	2.09	16.5
10	G-611	7/8	4	15.38	1.75	0.81	1.5	1.75	3.5	42
15	GG-611	1	4	15.38	1.75	0.81	1.5	1.75	3.5	42
25	H-611	1 1/4	5	18.31	2	1.13	2	2.38	2.69	80
35	HH-611	1 1/2	5	18.31	2	1.13	2	2.38	2.69	80

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

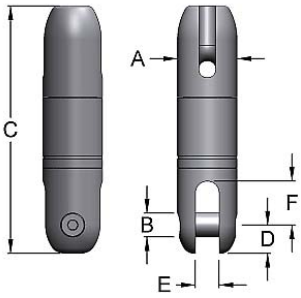
THIMBLE TO EYE - TYPE 612



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	Weight Lbs.
1.5	B-612	3/8	1.63	6.13	0.66	0.5	0.63	1.34	2.43
3	C-612	1/2	2	8	0.91	0.75	1	1.94	6
5	D-612	5/8	2.5	9.25	1.28	1	1.19	2.5	9.43
8.5	EE-612	3/4	2.88	11.31	1.41	1.25	1.5	3.13	16.5
10	G-612	7/8	4	15.44	1.66	1.72	1.81	4.66	41
15	GG-612	1	4	15.44	2.03	1.94	2.13	4.91	42
25	H-612	1 1/4	5	18.31	2.31	2.25	2.38	5.25	75
35	HH-612	1 1/2	5	18.31	2.31	2.25	2.38	5.25	75

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

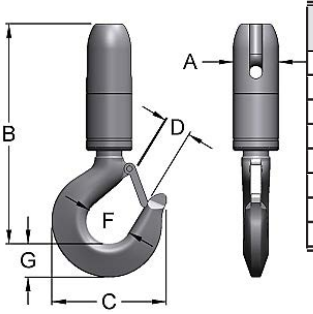
THIMBLE TO BULLET NOSE - TYPE 614



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	Weight Lbs.
1.5	B-614	3/8	1.63	0.44	6.61	1	0.5	1.5	2
3	C-614	1/2	2	0.63	8.55	1.34	0.75	2.63	6.06
5	D-614	5/8	2.5	0.88	10.44	1.69	1	3.13	9.5
8.5	EE-614	3/4	2.88	1	12.77	1.25	1.28	2.13	16.5
10	G-614	7/8	4	1.5	17.25	3	1.75	3	38.5
15	GG-614	1	4	1.5	17.25	3	1.75	3	38.5
25	H-614	1 1/4	5	2	20.69	3.63	2	4.25	76
35	HH-614	1 1/2	5	2	20.69	3.75	2	4.25	76

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

THIMBLE TO HOOK - TYPE 615



WLL* Tons	Model Number	Rope Size	A	B	C	D	F	G	Weight Lbs.
1.5	B-615	3/8	1.63	7.81	3.63	1	1.63	1	2.87
3	C-615	1/2	2	10.44	4.88	1.34	2	1.38	6.81
5	D-615	5/8	2.5	12.19	6.5	1.69	2.5	1.81	12.31
8.5	EE-615	3/4	2.88	15.56	8.69	2.25	3	2.59	25.25
10	G-615	7/8	4	19.38	11	3	3.25	3	55
15	GG-615	1	4	19.38	11	3	4.25	3	55
25	H-615	1 1/4	5	25.38	12.02	3.54	4.41	4.21	136
35	HH-615	1 1/2	5	25.38	12.02	3.54	4.41	4.21	136

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

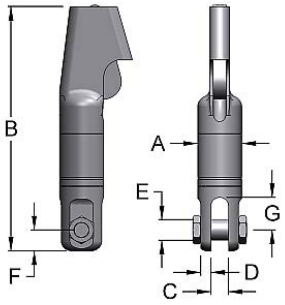
Swivels

MADE IN USA

MILLER LIFTING PRODUCTS

SWIVELS- Y-LINK, ANGULAR CONTACT BEARINGS

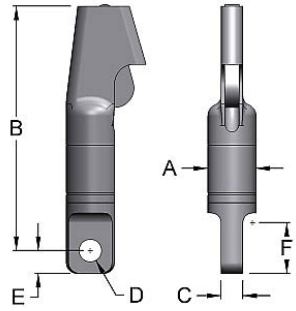
WEDGE TO CLEVIS - TYPE 711



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	G	Weight Lbs.
3	C-711	1/2	2	10.25	0.75	0.38	0.75	0.94	1.19	6.31
5	D-711	1/2, 5/8	2.5	12.53	1	0.56	0.88	1.13	1.56	12.56
8.5	EE-711	1/2, 5/8, 3/4	2.88	14.44	1.56	0.53	1.19	1.34	2.09	20.5
10	G-711	3/4, 7/8, 1	4	19.75	1.75	0.81	1.5	1.75	3.5	47
15	GG-711	3/4, 7/8, 1	4	19.75	1.75	0.81	1.5	1.75	3.5	47
25	H-711	1 1/8, 1 1/4	5	27.31	2	1.13	2	2.38	3.69	98
35	HH-711	1 1/8, 1 1/4	5	27.31	2	1.13	2	2.38	3.69	98

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

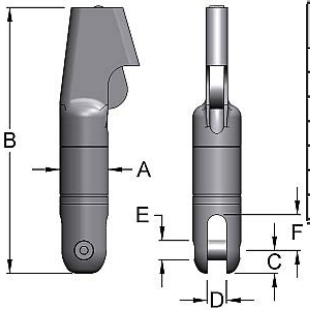
WEDGE TO EYE - TYPE 712



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	Weight Lbs.
3	C-712	1/2	2	10.25	0.75	0.91	1	1.94	6.06
5	D-712	1/2, 5/8	2.5	12.5	1	1.28	1.19	2.5	12
8.5	EE-712	1/2, 5/8, 3/4	2.88	14.25	1.25	1.41	1.5	3.13	20.5
10	G-712	3/4, 7/8, 1	4	19.69	1.72	1.66	1.81	4.66	45
15	GG-712	3/4, 7/8, 1	4	19.38	1.94	2.03	2.13	4.91	46
25	H-712	1 1/8, 1 1/4	5	25.43	2.25	2.31	2.38	5.25	94
35	HH-712	1 1/8, 1 1/4	5	25.43	2.25	2.31	2.38	5.25	94

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

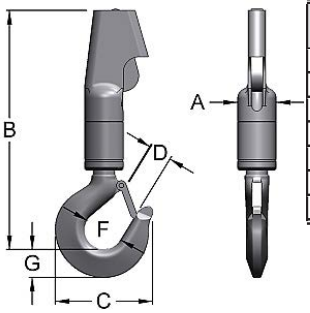
WEDGE TO BULLET NOSE - TYPE 714



WLL* Tons	Model Number	Rope Size	A	B	C	D	E	F	Weight Lbs.
3	C-714	1/2	2	9.92	0.81	0.75	0.63	0.94	3.87
5	D-714	1/2, 5/8	2.5	12.42	1.13	1	0.88	1.56	8.06
8.5	EE-714	1/2, 5/8, 3/4	2.88	14.47	1.25	1.28	1	2.13	14.5
10	G-714	3/4, 7/8, 1	4	19.75	1.75	1.75	1.5	3.25	40
15	GG-714	3/4, 7/8, 1	4	19.75	1.75	1.75	1.5	3.25	40
25	H-714	1 1/8, 1 1/4	5	27.3	2.38	2	2	3.69	96
35	HH-714	1 1/8, 1 1/4	5	27.3	2.38	2	2	3.69	96

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

WEDGE TO HOOK - TYPE 715



WLL* Tons	Model Number	Rope Size	A	B	C	D	F	G	Weight Lbs.
3	C-715	1/2	2	12.63	4.88	1.34	2	1.38	7.81
5	D-715	1/2, 5/8	2.5	15.44	6.5	1.81	2.5	1.81	14.87
8.5	EE-715	1/2, 5/8, 3/4	2.88	18.56	8.81	2.25	3.25	2.59	29.25
10	G-715	3/4, 7/8, 1	4	23.63	11	3	3.25	3	60
15	GG-715	3/4, 7/8, 1	4	23.63	11	3	4.25	3	60
25	H-715	1 1/8, 1 1/4	5	32	12.02	3.54	4.41	4.21	145
35	HH-715	1 1/8, 1 1/4	5	32	12.02	3.54	4.41	4.21	145

* Design factors for WLL=35T and below are 5:1; for 45T and above 4:1

Custom Swivels

MILLER
LIFTING PRODUCTS

MILLER CUSTOM SWIVELS

CUSTOM Y-LINK SWIVEL
QUOTE REQUEST

Requestor
Name:_____**Date:**_____**Quantity**_____
Company:_____ **Address:**_____
City:_____ **State:**_____ **Zip:**_____
Phone:_____ **E-mail:**_____

SWIVEL CONFIGURATION
CAP
CLEVIS__ EYE__ STUD__ BULLET__ SOCKET__ THIMBLE__ WEDGE__ HOOK__EYEBOLT__

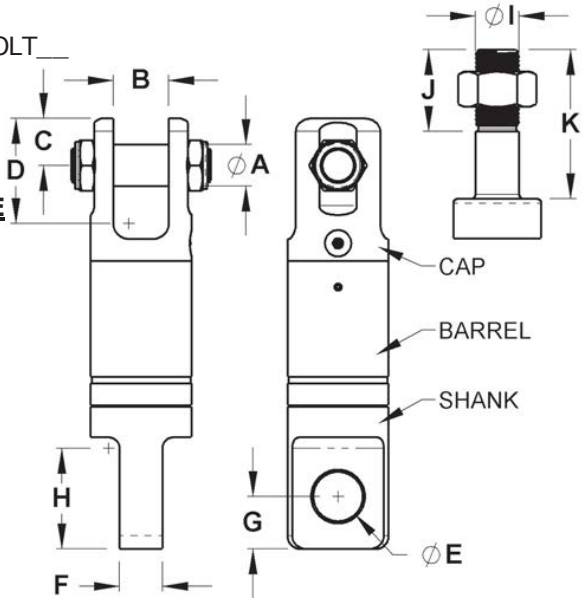
BARREL
STANDARD__ HEAVY DUTY__ HIGH PRESSURE__

SHANK
CLEVIS__ EYE__ STUD__ BULLET__ HOOK__ EYE BOLT__

SWIVEL MATERIAL
STANDARD___ STAINLESS STEEL___

SWIVEL CAPACITY & DIMENSIONS, WIRE ROPE
WORKING CAPACITY (LOAD LIMIT)_____
(INDICATE US / METRIC TONS)

DESIGN FACTOR_____ WIRE ROPE SIZE_____
CLEVIS DIMENSIONS A_____ B_____ C_____
D_____
EYE DIMENSIONS E_____ F_____ G_____
H_____
STUD DIMENSIONS I_____ J_____ K_____



OTHER REQUIEMENTS
ENVIRONMENT_____

SPECIAL TESTING, THIRD PARTY INSPECTION, ETC:
_____
_____

Swivels

MADE IN USA

MILLER LIFTING PRODUCTS

SWIVELS- PENGO-MILLER, FOR LINE STRINGING



PENGO-MILLER Swivels

- The original PENGO-MILLER tension line stringing swivels and 90° connectors.
- Designed specifically for horizontal pulling of tension lines and passage over sheaves, overhead or through conduit.
- Swivels have Working Loads up to 100,000 lbs. with a 3:1 design factor.
- Equipped with low friction angular contact ball bearings.
- Machined, heat treated from solid forged alloy steel bar. Single-piece shank.
- Zinc plating inside and out for effective protection against corrosion.
- Hex socket pins are standard. Optional slotted pins available for sizes A thru D.
- Factory lubricated and sealed with neoprene seals.
- 90° Connectors permit limited movement of connected cables in two perpendicular planes. Short, bullet shape accommodates passage though blocks. Mean Breaking Load up to 150,000 lbs.
- Order spare pins by type (hex or slotted), and by model number of the swivel or connector. For example, "two hex pins for A-13-L" or "two slotted pins for B-13-L-SL".



90 degree connectors

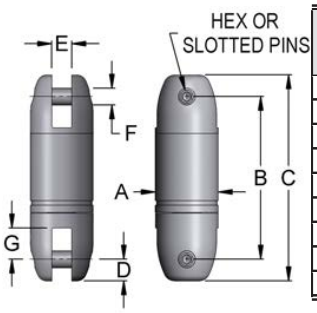


Green Dot = Proof Load Tested

*****NEW*****
*****PROOF LOAD TESTED*****
All swivel models A-13-L, BB-13-L and B-13-L are individually proof load tested to 120% of their working load limit as indicated by a green proof test marking. Test certificates available. Other sizes tested upon request.

Safety Note: These swivels are designed for straight line pulling and will not support side loads as would be encountered traveling over a bull wheel. Miller line stringing swivels are not intended for general lifting applications. Swivel selection should be based on pulling line diameter, grip size, opening dimensions, pin sizes, working load, and sheave groove diameter. For general lifting applications, see Miller Y-Link and Miller Econo-Link Swivels.

LINE STRINGING SWIVELS



Model # Hex Pin	Model # Slotted Pin	WLL* Lbs.	A	B	C	D	E	F	G	Weight Lbs.
A13L	A13L-SL	1,800	.875	2.34	3.09	0.375	0.31	.31	0.47	0.38
BB13L	BB13L-SL	4,000	1.25	3.66	4.51	0.44	0.59	.38	0.69	1
B13L	B13L-SL	7,500	1.44	4	5.13	0.56	0.59	.44	0.81	1.38
C13L	C13L-SL	10,000	1.875	5.44	7.06	0.81	0.75	.62	0.94	3.63
D13L	D13L-SL	16,000	2.44	7.88	10.19	1.125	1	.88	1.56	8
EE13L	N/A	25,000	2.875	9.81	12.31	1.25	1.28	1	2.13	15
D13-4BL	N/A	30,000	2.5	8.91	11.16	1.125	1	.88	1.56	9
GG13L	N/A	50,000	3.875	13.25	16.75	1.75	1.75	1.5	3.5	40
HH13L	N/A	100,000	4.875	15.81	20.56	2.375	2	2	3.69	78

90° CONNECTORS



Model # Hex Pin	Model # Slotted Pin	MBL Lbs.	ROPE	A	B	C	D	E	F	G	Weight Lbs.
PL 1/4	PL 1/4-SL	5,400	1/4	.88	1.31	2.06	.38	0.31	.31	0.47	0.19
PL 3/8	PL 3/8-SL	12,000	3/8	1.25	1.75	2.63	.44	0.59	.38	0.69	0.38
PL 1/2	PL 1/2-SL	22,500	1/2	1.44	2.13	3.25	.56	0.59	.44	0.81	0.69
PL 5/8	PL 5/8-SL	30,000	5/8	1.88	2.5	4.13	.81	0.75	.62	0.94	1.69
PL 3/4	PL 3/4-SL	60,000	3/4	2.44	3.38	5.63	1.13	1	.88	1.31	3.75
PL 7/8	N/A	75,000	7/8	2.63	3.88	6.38	1.25	1	1	1.5	6.5
PL 1	N/A	150,000	1	3.88	8	11.5	1.75	1.75	1.5	3.5	18.5

Overhaul Balls

MADE IN USA

MILLER LIFTING PRODUCTS

OVERHAUL BALLS- SPLIT BALL

- **Miller's Split Headache Balls provide a convenient way to add weight to wire rope at any point.**
- Split halves bolt together for clamping on the rope.
- Sizes for rope from 3/8" to 7/8".
- Overhaul weights of 20, 50 and 100 lbs.
- Cast iron with Miller Yellow enamel finish



Model Number	Rope Size	Diameter (in.)	Weight Lbs.
HB20	3/8	5	20
HB50	1/2, 5/8	7	50
HB100	5/8, 3/4, 7/8	9	100

OVERHAUL BALLS- ASSEMBLIES Y-LINK

MILLER *SOLID-BALL*® TOP SWIVELING OVERHAUL BALL ASSEMBLIES

Miller's highest-performance overhaul ball assemblies are uniquely equipped with angular contact ball bearing (ACBB) swivels for maximum response to wire rope dynamics under load. The ACBB swivel contains a set of multiple, precision-matched bearings which respond with significantly lower friction and torque than do the basic thrust bearing overhaul balls found elsewhere. In addition to the improved responsiveness, long term durability is greatly enhanced due to longer bearing life.

- Working load capacities from 5 to 35 tons
- Design safety factor of 5:1
- Weights to 1450 lbs. for up to 1 ½" rope
- Features Miller Y-Link® ACBB swivel
- Swivel lubrication fitting
- Drop forged steel eye hook with safety latch
- Optional positive locking latch
- Heavier & bottom swiveling models available
- Integrated wedge socket or clevis fittings available
- Available in full conformance with API2C



Top Swivel Bottom Swivel 3000 lbs.

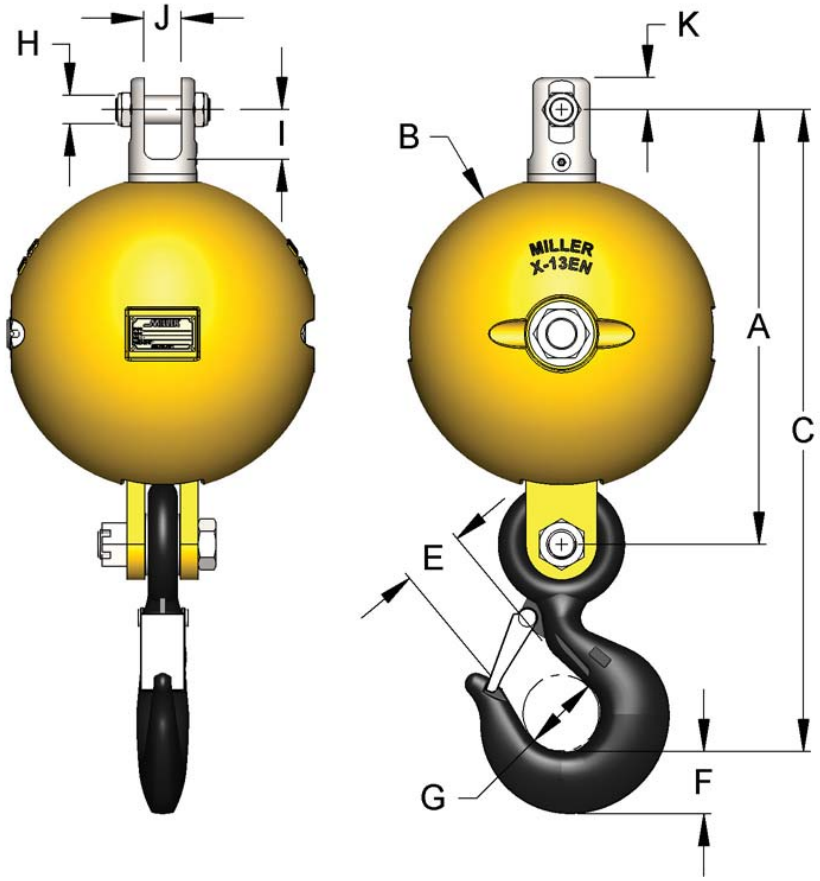
Overhaul Balls

MADE IN USA

MILLER LIFTING PRODUCTS

OVERHAUL BALLS- ASSEMBLIES Y-LINK

CLEVIS TO HOOK - TYPE 1



WLL* Tons	Model Number	Rope Size	A	B	C	E	F	G	H	I	J	K	Weight Lbs.	SWIVEL
5	HB7-1N	5/8	13.63	7	20.44	1.61	1.81	2.5	0.88	1.56	1	1.13	65	D-112
5	HB8-1N	5/8	13.63	8	20.44	1.61	1.81	2.5	0.88	1.56	1	1.13	100	D-112
8.5	HB9B-1N	3/4	16.5	9	25.75	2.27	2.59	3.25	1.19	2.19	1.56	1.34	130	EE-112
8.5	HB10B-1N	3/4	16.5	10	25.75	2.27	2.59	3.25	1.19	2.19	1.56	1.34	170	EE-112
8.5	HB11B-1N	3/4	17.38	11	26.63	2.27	2.59	3.25	1.19	2.19	1.56	1.34	215	EE-112
8.5	HB12-1N	3/4	17.38	12	26.63	2.27	2.59	3.25	1.19	2.19	1.56	1.34	265	EE-112
8.5	HB13B-1N	3/4	17.38	13	27.63	2.27	2.59	3.25	1.19	2.19	1.56	1.34	330	EE-112
10	HB13C-1N	7/8	22.13	13	32.88	3.02	3.00	4.25	1.5	3.5	1.75	1.75	364	GG-112
15	HB13D-1N	1	22.13	13	32.88	3.02	3.00	4.25	1.5	3.5	1.75	1.75	364	GG-112
25	HB13E-1N	1-1/2	25.44	13	37.75	3.25	3.62	5	2	3.69	2	2.38	416	H-112
35	HB13F-1N	1-1/2	25.44	13	41.5	3	4.56	5.38	2	3.69	2	2.38	490	HH-112
10	HB16-1N	7/8	24.63	16	35.38	3.02	3.00	4.25	1.5	3.5	1.75	1.75	600	GG-112
15	HB16B-1N	1	24.63	16	35.38	3.02	3.00	4.25	1.5	3.5	1.75	1.75	600	GG-112
25	HB16C-1N	1-1/2	26.94	16	39.63	3.25	3.62	5	2	3.69	2	2.38	650	H-112
35	HB16D-1N	1-1/2	26.94	16	44	3	4.56	5.38	2	3.69	2	2.38	720	HH-112
10	HB18G-1N	7/8	24.93	18	42.21	3.02	3.00	4.25	1.5	3.5	1.75	1.75	800	G-112
15	HB18GG-1N	1	24.93	18	42.21	3.02	3.00	4.25	1.5	3.5	1.75	1.75	800	GG-112
15	HB22GG-1N	1	30	22	40.78	3.02	3.00	4.25	1.5	3.5	1.75	1.75	1300	GG-112
25	HB22H-1N	1-1/2	32.19	22	44.5	3.25	3.62	5	2	3.69	2	2.38	1400	H-112
35	HB22HH-1N	1-1/2	32.19	22	48.13	3	4.56	5.38	2	3.69	2	2.38	1450	HH-112

* Design factor 5:1

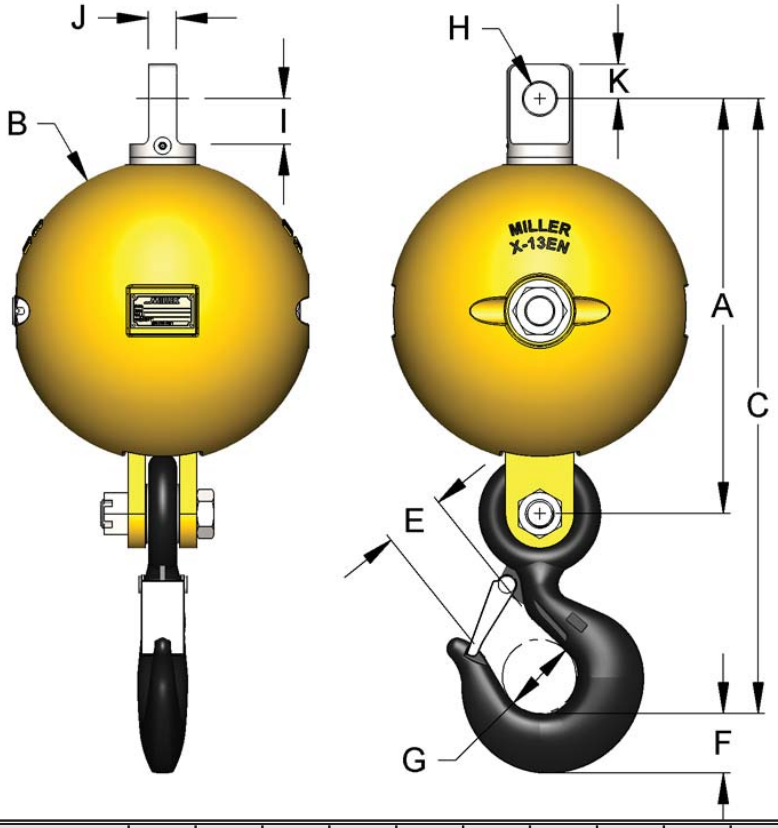
Overhaul Balls

MADE IN USA

MILLER LIFTING PRODUCTS

OVERHAUL BALLS- ASSEMBLIES Y-LINK

EYE TO HOOK - TYPE 2



WLL* Tons	Model Number	Rope Size	A	B	C	E	F	G	H	I	J	K	Weight Lbs.	SWIVEL
5	HB7-2N	5/8	13.56	7	20.38	1.61	1.81	2.5	1.28	1.56	1	1.19	65	D-212
5	HB8-2N	5/8	13.56	8	20.38	1.61	1.81	2.5	1.28	1.56	1	1.19	100	D-212
8.5	HB9B-2N	3/4	16.31	9	25.56	2.27	2.59	3.25	1.41	1.94	1.25	1.50	130	EE-212
8.5	HB10B-2N	3/4	16.31	10	25.56	2.27	2.59	3.25	1.41	1.94	1.25	1.50	170	EE-212
8.5	HB11B-2N	3/4	17.19	11	26.44	2.27	2.59	3.25	1.41	1.94	1.25	1.50	215	EE-212
8.5	HB12-2N	3/4	17.19	12	26.44	2.27	2.59	3.25	1.41	1.94	1.25	1.50	265	EE-212
8.5	HB13B-2N	3/4	18.19	13	27.44	2.27	2.59	3.25	1.41	1.94	1.25	1.50	330	EE-212
10	HB13C-2N	7/8	22.06	13	32.81	3.02	3.00	4.25	1.66	2.84	1.72	1.81	363	G3GG
10	HB13-2GN	9/16 THRU 1-1/4	21.84	13	32.59	3.02	3	4.25	1.78	2.75	1.25	2.00	363	G-212-2
15	HB13-2GGN	9/16 THRU 1-1/4	21.88	13	32.63	3.02	3	4.25	1.78	2.75	1.25	2.00	363	GG-212-2
15	HB13D-2N	1	21.75	13	32.5	3.02	3.00	4.25	2.03	2.78	1.94	2.13	363	GG-212
25	HB13E-2N	1-1/2	25.56	13	37.75	3.25	3.62	5	2.31	2.88	2.25	2.38	413	H-212
35	HB13F-2N	1-1/2	25.56	13	41.5	3	4.56	5.38	2.31	2.88	2.25	2.38	487	HH-212
10	HB16-2N	7/8	24.56	16	35.31	3.02	3.00	4.25	1.66	2.84	1.72	1.81	600	G3GG
10	HB16-2GN	9/16 THRU 1-1/4	24.34	16	35.09	3.02	3	4.25	1.78	2.75	1.25	2.00	600	G-212-2
15	HB16-2GGN	9/16 THRU 1-1/4	24.38	16	35.13	3.02	3	4.25	1.78	2.75	1.25	2.00	600	GG-212-2
15	HB16B-2N	1	24.25	16	35	3.02	3.00	4.25	2.03	2.78	1.94	2.13	600	GG-212
25	HB16C-2N	1-1/2	26.94	16	39.63	3.25	3.62	5	2.31	2.88	2.25	2.38	650	H-212
35	HB16D-2N	1-1/2	26.94	16	44	3	4.56	5.38	2.31	2.88	2.25	2.38	720	HH-212
10	HB18G-2N	7/8	25.19	18	37.71	3.02	3.00	4.25	1.66	2.84	1.72	1.81	800	G3GG
10	HB18-2GN	9/16 THRU 1-1/4	24.97	18	37.49	3.02	3	4.25	1.78	2.75	1.25	2.00	800	G-212-2
15	HB18GG-2N	1	24.87	18	37.4	3.02	3.00	4.25	2.03	2.78	1.94	2.13	800	GG-212
15	HB18-2GGN	9/16 THRU 1-1/4	25	18	37.53	3.02	3	4.25	1.78	2.75	1.25	2.00	800	GG-212-2
15	HB22GG-2N	1	29.25	22	40.03	3.02	3.00	4.25	2.03	2.78	1.94	2.13	1300	GG-212
15	HB22-2GGN	9/16 THRU 1-1/4	29.38	22	40.16	3.02	3	4.25	1.78	2.75	1.25	2.00	1300	GG-212-2
25	HB22H-2N	1-1/2	32.19	22	44.5	3.25	3.62	5	2.31	2.88	2.25	2.38	1400	H-212
35	HB22HH-2N	1-1/2	32.19	22	48.13	3	4.56	5.38	2.31	2.88	2.25	2.38	1450	HH-212

* Design factor 5:1

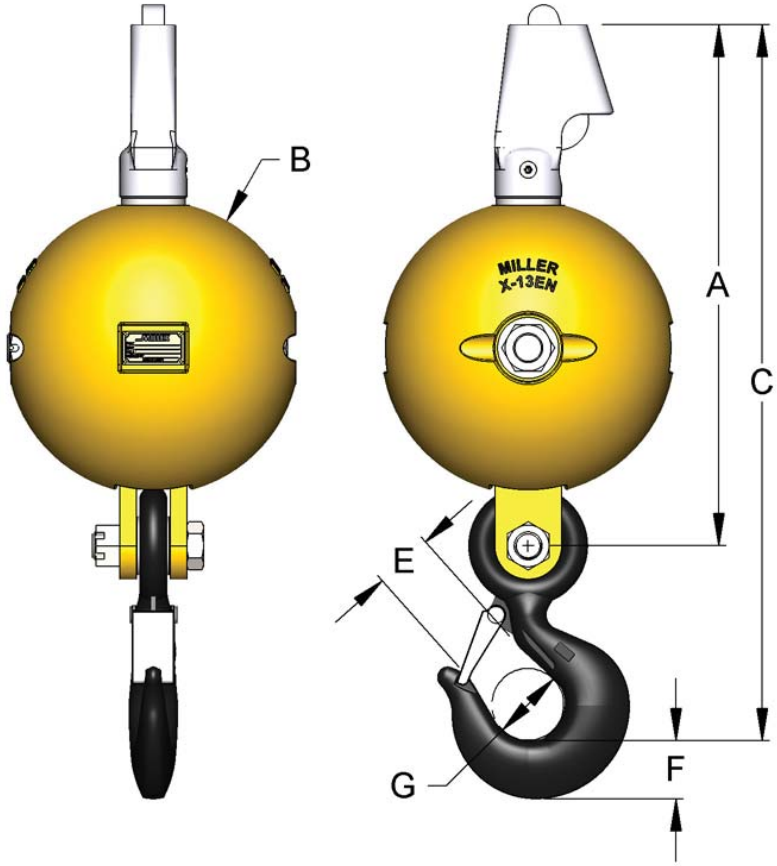
Overhaul Balls

MADE IN USA

MILLER LIFTING PRODUCTS

OVERHAUL BALLS- ASSEMBLIES Y-LINK

WEDGE TO HOOK - TYPE 3



WLL* Tons	Model Number	Rope Size	A	B	C	E	F	G	Weight Lbs.	SWIVEL
5	HB7-3N	1/2, 5/8	18.25	7	25.06	1.61	1.81	2.5	65	D-712
5	HB8-3N	1/2, 5/8	18.25	8	25.06	1.61	1.81	2.5	100	D-712
8.5	HB9B-3N	1/2, 5/8, 3/4	21.25	9	30.5	2.27	2.59	3.25	130	EE-712
8.5	HB10B-3N	1/2, 5/8, 3/4	21.25	10	30.5	2.27	2.59	3.25	170	EE-712
8.5	HB11B-3N	1/2, 5/8, 3/4	22.13	11	31.38	2.27	2.59	3.25	215	EE-712
8.5	HB12-3N	1/2, 5/8, 3/4	22.13	12	31.38	2.27	2.59	3.25	265	EE-712
8.5	HB13B-3N	1/2, 5/8, 3/4	23.13	13	32.38	2.27	2.59	3.25	336	E-712
10	HB13C-3N	3/4, 7/8, 1	27.88	13	38.63	3.02	3.00	4.25	370	GG-712
15	HB13D-3N	3/4, 7/8, 1	27.88	13	38.63	3.02	3.00	4.25	370	GG-712
25	HB13E-3N	1 1/8, 1 1/4	34.31	13	46.63	3.25	3.62	5	439	H-712
35	HB13F-3N	1 1/8, 1 1/4	34.31	13	50.38	3	4.56	5.38	513	HH-712
10	HB16-3N	3/4, 7/8, 1	28.31	16	39.56	3.02	3.00	4.25	600	GG-712
15	HB16B-3N	3/4, 7/8, 1	28.31	16	39.56	3.02	3.00	4.25	600	GG-712
25	HB16C-3N	1 1/8, 1 1/4	35.94	16	48.5	4	3.62	5	640	GG-712
35	HB16D-3N	1 1/8, 1 1/4	35.94	16	52.37	4.25	4.56	5.38	690	GG-712
10	HB18G-3N	3/4, 7/8, 1	24.93	18	45.03	3.02	3.00	4.25	800	G-712
15	HB22GG-3N	3/4, 7/8, 1	33.88	22	44.66	3.02	3.00	4.25	1300	GG-712
25	HB22H-3N	1 1/8, 1 1/4	41.68	22	53.99	3.25	3.62	5	1400	H-712
35	HB22HH-3N	1 1/8, 1 1/4	41.68	22	57.62	3	4.56	5.38	1450	HH-712

* Design factor 5:1

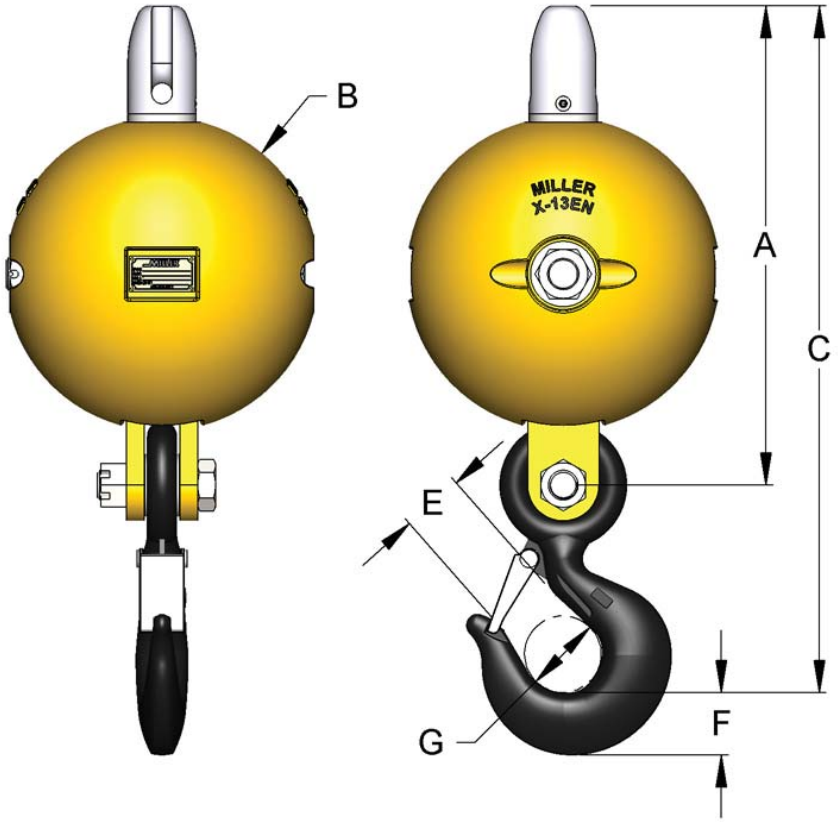
Overhaul Balls

MADE IN USA

MILLER LIFTING PRODUCTS

OVERHAUL BALLS- ASSEMBLIES Y-LINK

THIMBLE TO HOOK - TYPE 4



WLL* Tons	Model Number	Rope Size	A	B	C	E	F	G	Weight Lbs.	SWIVEL
5	HB7-4N	5/8	15	7	23.38	1.61	1.81	2.5	65	D-612
5	HB8-4N	5/8	15	8	23.38	1.61	1.81	2.5	100	D-612
8.5	HB9B-4N	3/4	18.44	9	27.1	2.27	2.59	3.25	130	EE-612
8.5	HB10B-4N	3/4	18.44	10	27.1	2.27	2.59	3.25	170	EE-612
8.5	HB11B-4N	3/4	19.19	11	27.85	2.27	2.59	3.25	215	EE-612
8.5	HB12-4N	3/4	19.44	12	28.1	2.27	2.59	3.25	265	EE-612
8.5	HB13B-4N	3/4	20.19	13	28.85	2.27	2.59	3.25	332	EE-612
10	HB13C-4N	7/8	23.63	13	34.38	3.02	3.00	4.25	366	G-612
15	HB13D-4N	1	23.63	13	34.38	3.02	3.00	4.25	366	GG-612
25	HB13E-4N	1-1/2	27.56	13	39.88	3.25	3.62	5	420	H-612
35	HB13F-4N	1-1/2	27.56	13	44.13	3	4.56	5.38	500	HH-612
10	HB16-4N	7/8	26.13	16	36.88	3.02	3.00	4.25	600	GG-612
15	HB16B-4N	1	26.13	16	36.88	3.02	3.00	4.25	600	GG-612
25	HB16C-4N	1-1/2	29.44	16	41.63	3.25	3.62	5	650	H-612
35	HB16D-4N	1-1/2	29.31	16	45.88	3	4.56	5.38	720	HH-612
10	HB18G-4N	7/8	26.44	18	37.5	3.02	3.00	4.25	800	G-612
15	HB18GG-4N	1	26.44	18	37.5	3.02	3.00	4.25	800	GG-612
15	HB22GG-4N	1	31.38	22	42.16	3.02	3.00	4.25	1300	GG-612
25	HB22H-4N	1-1/2	34.56	22	46.87	3.25	3.62	5	1400	H-612
35	HB22HH-4N	1-1/2	34.56	22	50.5	3	4.56	5.38	1450	HH-612

* Design factor 5:1

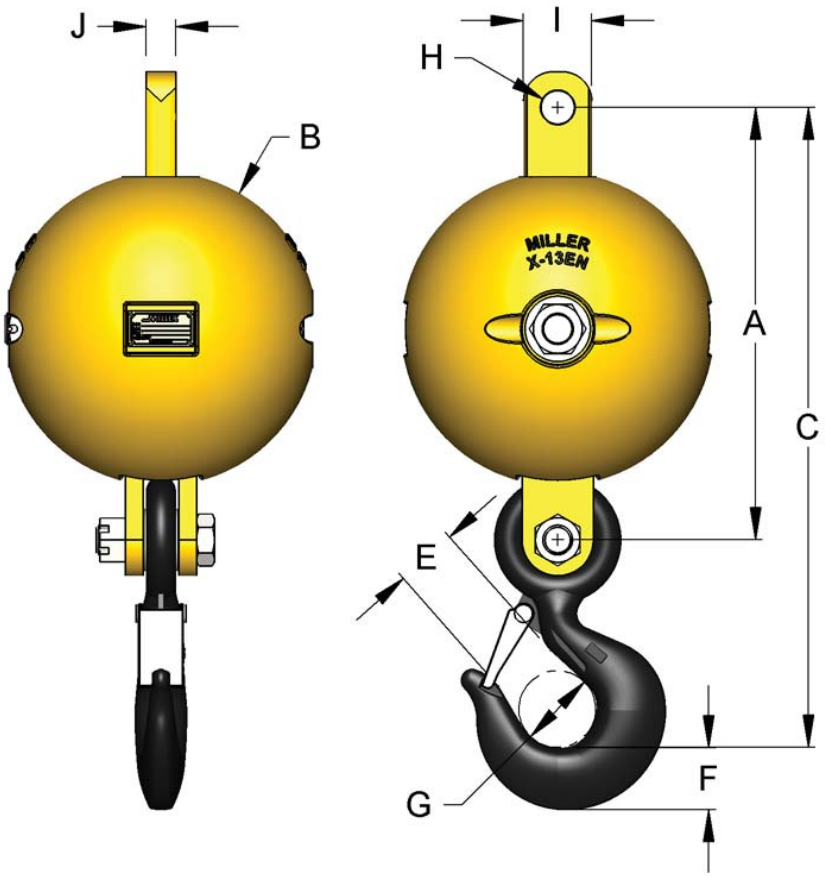
Overhaul Balls

MADE IN USA

MILLER LIFTING PRODUCTS

OVERHAUL BALLS- ASSEMBLIES Y-LINK

NON-SWIVELING EYE TO HOOK - TYPE 5



WLL* Tons	Model Number	A	B	C	E	F	G	H	I	J	Weight Lbs.
5	HB8-5N	13.5	8	19.88	1.61	1.81	2.5	1.03	2.5	0.88	95
8.5	HB10-5N	16.5	10	22.81	2.27	2.59	3.25	1.53	3	1.25	165
8.5	HB11-5N	17.13	11	26.78	2.27	2.59	3.25	1.53	3	1.25	215
5	HB12-5N	16.31	12	22.81	1.61	1.81	2.5	1.44	3	1.25	250
8.5	HB12B-5N	18.19	12	26.88	2.27	2.59	3.25	1.44	3	1.25	250
8.5	HB13-5N	17.38	13	26.03	2.27	2.59	3.25	1.53	3	1.25	328
15	HB13B-5N	21.75	13	32.5	3.02	3	4.25	1.81	3	1.5	364
10	HB16-5N	24.25	16	35	3.02	3	4.25	1.81	4	1.5	550
15	HB16B-5N	24.41	16	35.16	3.02	3	4.25	1.63	4	2	550
25	HB16C-5N	24.25	16	35	3.25	3.62	5	2.31	5	2.25	600
35	HB16D-5N	26.94	16	44	3	4.56	5.38	2.31	5	2.25	720
10	HB18G-5N	24.88	18	35.63	3.02	3	4.25	1.63	4	1.72	800
15	HB22GG-5N	28.25	22	39.03	3.02	3	4.25	2.03	4	1.94	1285
25	HB22H-5N	30.19	22	42.5	3.25	3.62	5	2.31	5	2.25	1375
35	HB22HH-5N	30.19	22	46.13	3	4.56	5.38	2.31	5	2.25	1425

* Design factor 5:1

Overhaul Balls

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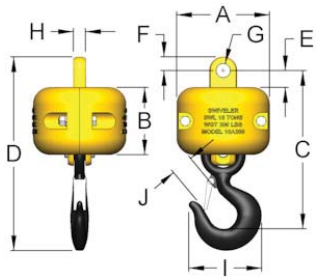
MILLER LIFTING PRODUCTS

OVERHAUL BALLS- ECONO-LINK SWIVELER

- **Compact headache ball assemblies using Miller Econo-Link thrust bearing swivels are ideal for low head-room applications.**
- Top swiveling- ball remains stationary if wire rope twists.
- Overhaul weights from 35 to 575 lbs.
- Working Loads from 3 to 15 tons, for ½" to 1" wire rope.
- Easy replacement of swivel with standard Miller Econo-Link Type 181 or 281 models.
- Drop forged carbon steel hook with safety latch.
- Design factor 4:1



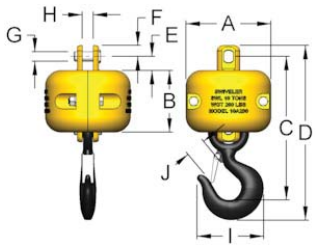
TYPE A



WLL* Tons	Model Number	ROPE	A	B	C	D	E	F	G	H	I	J	Weight Lbs.
3	3A35	1/2	6	5	10.38	12.88	1.25	1.13	1.06	1	4.88	1.34	35
6	6A100	5/8-3/4	9	6.5	14.06	17.38	1.31	1.5	1.41	1.19	6.5	1.34	100
6	6A250	5/8-3/4	12.5	8	14.06	17.38	1.31	1.5	1.41	1.19	6.5	1.34	250
10	10A200	3/4-7/8	11	8	18.63	22.88	2	1.63	1.66	1.44	8.69	2.25	200
10	10A325	3/4-7/8	13	10	18.63	22.88	2	1.63	1.66	1.44	8.69	2.25	325
15	15A320	1	13	9	22.5	27.31	2.5	1.87	2.06	1.88	11	3	320
15	15A575	1	15	12	22.5	27.31	2.5	1.87	2.06	1.88	11	3	575

* Design factor 4:1

TYPE O



WLL* Tons	Model Number	ROPE	A	B	C	D	E	F	G	H	I	J	Weight Lbs.
3	3O35	1/2	6	5	10.5	13.13	1.38	1.19	0.75	1	4.94	1.34	35
6	6O100	5/8-3/4	9	6.5	14.75	18	1.75	1.5	1	1.13	6.5	1.69	100
6	6O250	5/8-3/4	12.5	8	14.75	18	1.75	1.5	1	1.13	6.5	1.69	250
10	10O200	3/4-7/8	11	8	18.75	23	2.13	1.63	1.25	1.38	8.69	2.25	200
10	10O325	3/4-7/8	13	10	18.75	23	2.13	1.63	1.25	1.38	8.69	2.25	325
15	15O320	1	13	9	22.5	27.31	2.5	1.88	1.38	1.75	11	3	320
15	15O575	1	15	12	22.5	27.31	2.5	1.88	1.38	1.75	11	3	575

* Design factor 4:1

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

Wide capacity range available
- Standard capacities to 300T
- Design factor 4:1
- Larger capacities available
- Sheaves from 8" to 36"
- Wire rope sizes to 1 ¾"

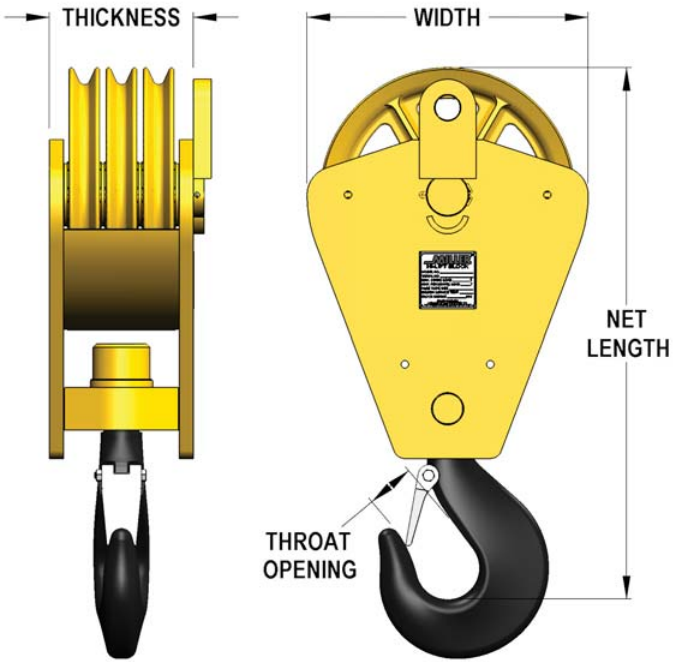
Hooks- high quality forged alloy steel
- Per DIN 15401 or DIN 15402
- Other hook standards available
- Heavy duty thrust bearing
- Dual motion- swing plus 360° rotation
- Safety latch on all hooks
- Double and other hooks available

Heavy welded steel plate construction
- provides rigidity and strength for longer life
- Designed for shortest possible overall length
- Enclosed sheave guard for easier threading- eliminates possibility of rope jumping sheave
- "H" models provide additional overhaul weight with detachable steel cheek plates
- "T" and "TF", extended or standard side plates- on 24" sheave models

Bearings and sheaves
- For sheave sizes 20" and below, hardened and ground sheave pin with roller bearings
- For sheaves 24" and higher, tapered roller bearings with lip seals on alloy steel sheave pin
- Bronze bushings optional
- Individual sheave lubrication for assured grease penetration.
- Heavy duty cast steel sheaves standard, roll formed/welded sheaves available
- Bronze spacers between sheaves eliminate galling

Options available
- Double hooks
- Higher load capacities
- Fittings other than hook
- Hook rotation locking device
- Third party certifications
- Cast hooks (quad)
- Custom





Crane Blocks
HI-Lift

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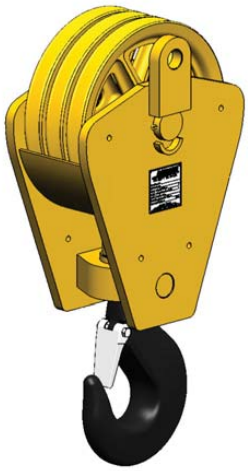
MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

MILLER Block Model Number Key						
#	**##**	**XX**	**-**	**###**	**-**	**XX**
(Number of Sheaves)	**(Sheave Outside Diameter (in))***	**(Configuration)****		**(Working load limit)*****		**(Special Designation)********

*Standard Outside Diameter Sheave Range from 8 to 36"
**Block Configuration Options:
F - Roller Bearing Mounted Sheaves, Low Profile Side Plates
H - Roller Bearing Mounted Sheaves, Low Profile Side Plates, Cheek weights
TF - Tapered Roller Bearing Mounted Sheaves, Low Profile Side Plates
T - Tapered Roller Bearing Mounted Sheaves, Extended Side Plates
***Working Load Limit Range from 5 to 300T
****Special Designations:
RT - Round Top Side Plates
LD - Locking Device, 4 Positions

******Specify Wire Rope Size When Ordering******



MODEL NO: 318F40
-3 SHEAVES, 18" DIAMETER
-LOW PROFILE SIDE PLATES
-40 TON WLL



MODEL NO: 520H80
-5 SHEAVES, 20" DIAMETER
-CHEEK WEIGHTS
-80 TON WLL



MODEL NO: 224T50
-2 SHEAVES, 24" DIAMETER
-EXTENDED SIDE PLATES
-50 TON WLL

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

5 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
5	108F5	8	1	5.75	9.5	17.5	1.88	1.63	7/16	70
5	108H5	8	1	8.75	9.5	17.5	1.88	1.63	7/16	120
5	110F5	10	1	9.5	11.5	19	1.88	1.63	9/16	90
5	110H5	10	1	13	11.5	19	1.88	1.63	9/16	160
5	112F5	12	1	7.5	13.5	22.5	1.88	2.5	5/8	140
5	112H5	12	1	10.5	13.5	22.5	1.88	2.5	5/8	240
5	114F5	14	1	7.5	15.5	27.06	1.88	2.5	3/4	160
5	114H5	14	1	11	15.5	27.06	1.88	2.5	3/4	320
5	208F5	8	2	5.75	9.5	19.75	1.88	1.63	7/16	80
5	208H5	8	2	8.75	9.5	19.75	1.88	1.63	7/16	130

10 TON

WLL* Tons	Model Number	SHEAVE DIA (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
10	108F10	8	1	5.75	9.5	19.75	2.5	1.63	7/16	80
10	108H10	8	1	8.75	9.5	19.75	2.5	1.63	7/16	130
10	110F10	10	1	6	11.5	22	2.5	1.63	9/16	100
10	110H10	10	1	9.5	11.5	22	2.5	1.63	9/16	170
10	112F10	12	1	7.5	13.5	24.75	2.5	2.5	5/8	150
10	112H10	12	1	10.5	13.5	24.75	2.5	2.5	5/8	250
10	114F10	14	1	7.5	15.5	27.75	2.5	2.5	3/4	170
10	114H10	14	1	11	15.5	27.75	2.5	2.5	3/4	330
10	116F10	16	1	8.75	17.5	30.56	2.5	3	7/8	250
10	116H10	16	1	13.75	17.5	30.56	2.5	3	7/8	490
10	118F10	18	1	8.75	19.5	32.75	2.5	3	7/8	285
10	118H10	18	1	12.75	19.5	32.75	2.5	3	7/8	585
10	208F10	8	2	5.75	9.5	19.75	2.5	1.63	7/16	85
10	208H10	8	2	8.75	9.5	19.75	2.5	1.63	7/16	135
10	210F10	10	2	6	11.5	22	2.5	1.63	9/16	110
10	210H10	10	2	9.5	11.5	22	2.5	1.63	9/16	180
10	212F10	12	2	7.5	13.5	24.75	2.5	2.5	5/8	165
10	212H10	12	2	10.5	13.5	24.75	2.5	2.5	5/8	265
10	214F10	14	2	7.5	15.5	28	2.5	2.5	3/4	215
10	214H10	14	2	11	15.5	28	2.5	2.5	3/4	365
10	308F10	8	3	7.25	9.5	19.75	2.5	1.63	7/16	95
10	308H10	8	3	10.25	9.5	19.75	2.5	1.63	7/16	145
10	310F10	10	3	7.5	11.5	22	2.5	1.63	9/16	125
10	310H10	10	3	11	11.5	22	2.5	1.63	9/16	195
10	312F10	12	3	9.75	13.5	24.75	2.5	2.5	5/8	210
10	312H10	12	3	12.75	13.5	24.75	2.5	2.5	5/8	310

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

15 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
15	114F15	14	1	7.5	15.5	29.63	3.38	2.5	3/4	215
15	114H15	14	1	11	15.5	29.63	3.38	2.5	3/4	365
15	116F15	16	1	8.75	17.5	32.5	3.38	3	7/8	265
15	116H15	16	1	13.75	17.5	32.5	3.38	3	7/8	585
15	118F15	18	1	8.75	19.5	34.5	3.38	3	7/8	305
15	118H15	18	1	12.75	19.5	34.5	3.38	3	7/8	605
15	210F15	10	2	7.5	11.5	25	3.38	1.63	9/16	120
15	212F15	12	2	7.5	11.5	26.88	3.38	2.5	5/8	185
15	212H15	12	2	10.5	13.5	26.88	3.38	2.5	5/8	285
15	214F15	14	2	7.5	15.5	27.06	3.38	2.5	3/4	220
15	214H15	14	2	11	15.5	27.06	3.38	2.5	3/4	380
15	216F15	16	2	8.75	17.5	32.5	3.38	3	7/8	315
15	216H15	16	2	13.75	17.5	32.5	3.38	3	7/8	555
15	310F15	10	3	7.5	11.5	22	3.38	1.63	9/16	125
15	310H15	10	3	11	11.5	22	3.38	1.63	9/16	195
15	312F15	12	3	9.75	13.5	27.06	3.38	2.5	5/8	220
15	312H15	12	3	12.75	13.5	27.06	3.38	2.5	5/8	320
15	314F15	14	3	9.75	15.5	29.5	3.38	2.5	3/4	255
15	314H15	14	3	13	15.5	29.5	3.38	2.5	3/4	415

20 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (IN.)	Weight Lbs.
20	114F20	14	1	7.5	15.5	29.5	3.38	2.5	3/4	215
20	114H20	14	1	11	15.5	29.5	3.38	2.5	3/4	365
20	116F20	16	1	8.75	17.5	32.69	3	3	7/8	265
20	116H20	16	1	13.75	17.5	32.69	3	3	7/8	505
20	118F20	18	1	8.75	19.5	34.25	3	3	7/8	305
20	118H20	18	1	12.75	19.5	34.25	3	3	7/8	605
20	214F20	14	2	7.5	15.5	29.5	3	2.5	3/4	220
20	214H20	14	2	11	15.5	29.5	3	2.5	3/4	380
20	216F20	16	2	8.75	17.5	32.69	3	3	7/8	315
20	216H20	16	2	13.75	17.5	32.69	3	3	7/8	555
20	218F20	18	2	8.75	19.5	34.25	3	3	7/8	340
20	218H20	18	2	12.75	19.5	34.25	3	3	7/8	640
20	312F20	12	3	9.75	13.5	27.06	3	2.5	5/8	220
20	312H20	12	3	12.75	13.5	27.06	3	2.5	5/8	320
20	314F20	14	3	9.75	15.5	29.5	3	2.5	3/4	255
20	314H20	14	3	13.25	15.5	29.5	3	2.5	3/4	415

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

25 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
25	116F25	16	1	8.75	17.5	33.5	3.63	3	7/8	310
25	116H25	16	1	13.75	17.5	33.5	3.63	3	7/8	460
25	118F25	18	1	8.75	19.5	34.5	3	3	7/8	330
25	118H25	18	1	12.75	19.5	34.5	3	3	7/8	630
25	120F25	20	1	9	21.5	38.5	4	3	1	400
25	120H25	20	1	13	21.5	38.5	4	3	1	765
25	214F25	14	2	7.5	15.5	29.5	3	2.5	3/4	250
25	214H25	14	2	11	15.5	29.5	3	2.5	3/4	415
25	216F25	16	2	8.75	17.5	33.75	3.63	3	7/8	340
25	216H25	16	2	13.75	17.5	33.75	3.63	3	7/8	580
25	218F25	18	2	8.75	19.5	35.75	3.63	3	7/8	365
25	218H25	18	2	12.75	19.5	35.75	3.63	3	7/8	665
25	220F25	20	2	9	21.5	38.5	3	3.25	1	445
25	220H25	20	2	13	21.5	38.5	3	3.25	1	810
25	314F25	14	3	9.75	15.5	29.88	3.63	2.5	3/4	285
25	314H25	14	3	13.25	15.5	29.88	3.63	2.5	3/4	445
25	316F25	16	3	8.75	17.5	33.75	3.63	3	7/8	415
25	316H25	16	3	13.75	17.5	33.75	3.63	3	7/8	655
25	318F25	18	3	11.38	19.5	35.75	3	3	7/8	425
25	318H25	18	3	15.38	19.5	35.75	3	3	7/8	725
25	414F25	14	4	12.88	15.5	31.19	3.5	2.5	3/4	425
25	414H25	14	4	16.38	15.5	31.19	3.5	2.5	3/4	645

30 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
30	120F30	20	1	9	21.5	38.5	3	3.25	1	400
30	120H30	20	1	13	21.5	38.5	3	3.25	1	765
30	130T30	30	1	14.88	33	62.25	3.63	5	1 1/4	1750
30	214F30	14	2	7.5	15.5	31	3.63	2.5	3/4	250
30	214H30	14	2	11	15.5	31	3.63	2.5	3/4	410
30	216F30	16	2	8.75	17.5	33.75	3.63	3	7/8	340
30	216H30	16	2	13.75	17.5	33.75	3.63	3	7/8	580
30	314F30	14	3	9.75	15.5	29.88	3.63	3	3/4	285
30	314H30	14	3	13.25	15.5	29.88	3.63	3	3/4	445
30	316F30	16	3	11.38	17.5	33.75	3.63	3	7/8	415
30	316H30	16	3	16.38	17.5	33.75	3.63	3	7/8	655
30	318F30	18	3	11.38	19.5	35.34	3	3	7/8	425
30	318H30	18	3	15.38	19.5	35.34	3	3	7/8	725
30	320F30	20	3	11.75	21.5	38.5	3	3.25	1	515
30	320H30	20	3	15.75	21.5	38.5	3	3.25	1	880
30	414F30	14	4	12.88	15.5	31.19	3.5	2.5	3/4	425
30	414H30	14	4	16.38	15.5	31.19	3.5	2.5	3/4	645
30	516F30	16	5	17.63	17.5	33.81	3.5	3	7/8	520
30	516H30	16	5	22.63	17.5	33.81	3.5	3	7/8	760

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

35 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
35	124T35	24	1	11.5	26.63	56.81	3.75	3.5	1 1/8	1255
35	124TF35	24	1	12	26.63	50.81	3.75	3.5	1 1/8	830
35	216F35	16	2	8.75	17.5	36.38	3.75	3	7/8	385
35	216H35	16	2	13.75	17.5	36.38	3.75	3	7/8	625
35	218F35	18	2	8.75	19.5	38.5	3.75	3	7/8	410
35	218H35	18	2	12.75	19.5	38.5	3.75	3	7/8	710
35	220F35	20	2	9	21.5	41.13	3.75	3.25	1	495
35	220H35	20	2	13	21.5	41.13	3.75	3.25	1	860
35	224T35	24	2	11.5	26	56.81	3.75	3.5	1 1/8	1360
35	224TF35	24	2	12	26.63	50.81	3.75	3.5	1 1/8	945
35	314F35	14	3	975	15.5	33.5	3.63	2.5	3/4	365
35	314H35	14	3	13.25	15.5	33.5	3.63	2.5	3/4	585
35	316F35	16	3	11.38	17.5	36.38	3.75	3	7/8	455
35	316H35	16	3	16.38	17.5	36.38	3.75	3	7/8	695
35	318F35	18	3	11.38	19.5	38.38	3.75	3	7/8	465
35	318H35	18	3	15.38	19.5	38.38	3.75	3	7/8	765
35	320F35	20	3	11.75	21.5	41.38	3.75	3.25	1	565
35	320H35	20	3	15.75	21.5	41.38	3.75	3.25	1	930
35	414F35	14	4	12.88	15.5	34.06	3.75	2.5	3/4	465
35	414H35	14	4	16.38	15.5	34.06	3.75	2.5	3/4	685
35	416F35	16	4	14.75	17.5	36.38	3.75	3	7/8	585
35	416H35	16	4	19.75	17.5	36.38	3.75	3	7/8	825
35	514F35	14	5	15.75	15.5	33.94	3.75	2.5	3/4	600
35	514H35	14	5	19.25	15.5	33.94	3.75	2.5	3/4	820
35	516F35	16	5	17.63	17.5	37.94	3.75	3	7/8	780
35	516H35	16	5	22.63	17.5	37.94	3.75	3	7/8	1020

40 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
40	124T40	24	1	11.5	26.63	56.68	3.75	3.5	1 1/8	1255
40	124TF40	24	1	12	26.63	56.68	3.75	3.5	1 1/8	830
40	130T40	30	1	14.88	33	65.81	3.75	5	1 1/4	1750
40	220F40	20	2	9	21.5	41.88	3.75	3.25	1	495
40	220H40	20	2	13	21.5	41.88	3.75	3.25	1	860
40	224T40	24	2	11.5	26	56.81	3.75	3.5	1 1/8	1360
40	224TF40	24	2	12	26.63	50.81	3.75	3.5	1 1/8	945
40	230T40	30	2	14.88	33	65.81	3.75	5	1 1/4	1900
40	316F40	16	3	11.38	17.5	35.38	3.75	3	7/8	455
40	316H40	16	3	16.38	17.5	35.38	3.75	3	7/8	695
40	318F40	18	3	11.38	19.5	38.88	3.75	3	7/8	465
40	318H40	18	3	15.38	19.5	38.88	3.75	3	7/8	765
40	320F40	20	3	11.75	21.5	42.06	3.75	3.25	1	565
40	320H40	20	3	15.75	21.5	42.06	3.75	3.25	1	930
40	414F40	14	4	13	15.5	35.25	3.75	2.5	3/4	465
40	414H40	14	4	16.5	15.5	35.25	3.75	2.5	3/4	685
40	416F40	16	4	14.75	17.5	37.88	3.75	3	7/8	585
40	416H40	16	4	19.75	17.5	37.88	3.75	3	7/8	825
40	418F40	18	4	14.75	19.5	39.63	3.75	3	7/8	640
40	418H40	18	4	18.75	19.5	39.63	3.75	3	7/8	940
40	514F40	14	5	15.75	15.5	34.06	3.75	2.5	3/4	600
40	514H40	14	5	19.25	15.5	34.06	3.75	2.5	3/4	820
40	516F40	16	5	17.63	17.5	37.88	3.75	3	7/8	770
40	516H40	16	5	22.63	17.5	37.88	3.75	3	7/8	1040
40	616F40	16	6	20	17.5	37.88	3.75	3	7/8	830
40	616H40	16	6	25	17.5	37.88	3.75	3	7/8	1100

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

45 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
45	220F45	20	2	9	21.5	41.88	4.25	3.25	1	640
45	220H45	20	2	13	21.5	41.88	4.25	3.25	1	900
45	224T45	24	2	11.5	26.63	58.69	4.25	3.5	1 1/8	1000
45	224TF45	24	2	12	26.63	52.69	4.25	3.5	1 1/8	1375
45	318F45	18	3	11.38	19.5	39.38	4.25	3	7/8	525
45	318H45	18	3	15.38	19.5	39.38	4.25	3	7/8	825
45	320F45	20	3	11.75	21.5	42.13	4.25	3.25	1	535
45	320H45	20	3	15.75	21.5	42.13	4.25	3.25	1	900
45	416F45	16	4	14.75	17.5	37.5	4.25	3	7/8	705
45	416H45	16	4	19.75	17.5	38.5	4.25	3	7/8	975
45	418F45	18	4	15.25	19.5	41.63	4.25	3	7/8	760
45	418H45	18	4	19.25	19.5	41.63	4.25	3	7/8	1050
45	514F45	14	5	15.75	15.5	35.5	4.25	2.5	3/4	605
45	514H45	14	5	19.25	15.5	35.5	4.25	2.5	3/4	970
45	516F45	16	5	17.63	17.5	37.5	4.25	3	7/8	820
45	516H45	16	5	22.63	17.5	37.5	4.25	3	7/8	1090

50 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
50	130T50	30	1	14.88	33	67.69	4.25	5	1 1/4	2000
50	136T50	36	1	14.88	39	74.25	4.25	5		2500
50	220F50	20	2	9	21.5	41.88	4.25	3.25	1	535
50	220H50	20	2	13	21.5	41.88	4.25	3.25	1	900
50	224T50	24	2	11.5	26.63	58.69	4.25	3.5	1 1/8	1375
50	224TF50	24	2	12	26.63	52.69	4.25	3.5	1 1/8	1000
50	230T50	30	2	14.88	33	67.69	4.25	5	1 1/4	2160
50	318F50	18	3	11.38	19.5	39.38	4.25	3	7/8	525
50	318H50	18	3	15.38	19.5	39.38	4.25	3	7/8	825
50	320F50	20	3	11.75	21.5	42.13	4.25	3.25	1	605
50	320H50	20	3	15.75	21.5	42.13	4.25	3.25	1	970
50	324T50	24	3	16.38	26.63	62.31	4.25	3.5	1 1/8	1740
50	324TF50	24	3	12	26.63	52.69	4.25	3.5	1 1/8	1000
50	416F50	16	4	14.75	17.5	37.5	4.25	3	7/8	705
50	416H50	16	4	19.75	17.5	37.5	4.25	3	7/8	975
50	418F50	18	4	15.25	19.5	41.63	4.25	3	7/8	760
50	418H50	18	4	19.25	19.5	41.63	4.25	3	7/8	1050
50	420F50	20	4	15.5	22	42.13	4.25	3.25	1	800
50	420H50	20	4	19.5	22	42.13	4.25	3.25	1	1200
50	516F50	16	5	17.63	17.5	37.5	4.25	3	7/8	820
50	516H50	16	5	22.63	17.5	37.5	4.25	3	7/8	1090
50	518F50	18	5	16.63	20	41.63	4.25	3	7/8	1010
50	518H50	18	5	20.63	20	41.63	4.25	3	7/8	1300
50	616F50	16	6	20	17.5	37.5	4.25	3	7/8	930
50	616H50	16	6	25	17.5	37.5	4.25	3	7/8	1200

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

60 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
60	130T60	30	1	14.88	33	71.75	5.13	5	1 1/4	2100
60	224T60	24	2	11.5	26.63	65.75	5.13	3.5	1 1/8	1650
60	224TF60	24	2	12	26.63	59.75	5.13	3.5	1 1/8	1100
60	230T60	30	2	14.88	33	71.75	5.13	5	1 1/4	2250
60	320F60	20	3	11.75	21.5	45.88	5.13	3.5	1	945
60	320H60	20	3	15.75	21.5	45.88	5.13	3.5	1	1345
60	324T60	24	3	16.38	26.63	65.75	5.13	3.5	1 1/8	1950
60	324TF60	24	3	15.38	26.63	59.75	5.13	3.5	1 1/8	1450
60	330T60	30	3	19.94	33	71.75	5.13	5	1 1/4	2735
60	418F60	18	4	16.25	19.75	45.88	5.13	3	7/8	1010
60	418H60	18	4	20.25	19.75	45.88	5.13	3	7/8	1300
60	420F60	20	4	17.25	22	48.38	5.13	3.5	1	1110
60	420H60	20	4	21.25	22	48.38	5.13	3.5	1	1510
60	516F60	16	5	18.63	17.5	43.5	5.13	3	7/8	1060
60	516H60	16	5	23.63	17.5	43.5	5.13	3	7/8	1330
60	518F60	18	5	18.63	20	56.5	5.13	3	7/8	1110
60	518H60	18	5	18.63	20	56.5	5.13	3	7/8	1400
60	520F60	20	5	19.75	22	48.38	5.13	3.5	1	1315
60	520H60	20	5	23.75	22	48.38	5.13	4	1	1715

65 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
65	420F65	20	4	17.25	22	48.38	5.13	3.5	1	1110
65	420H65	20	4	21.25	22	48.38	5.13	3.5	1	1510
65	516F65	16	5	18.63	17.5	43.5	5.13	3	7/8	830
65	516H65	16	5	23.63	17.5	43.5	5.13	3	7/8	1100
65	518F65	18	5	18.63	20	56.5	5.13	3	7/8	1100
65	518H65	18	5	22.63	20	56.5	5.13	3	7/8	1400
65	520F65	20	5	19.75	22	48.38	5.13	3.5	1	1315
65	520H65	20	5	23.75	22	48.38	5.13	3.5	1	1715
65	620F65	20	6	22.25	22	48.13	5.38	3.5	1	1450
65	620H65	20	6	26.25	22	48.13	5.38	3.5	1	1850

75 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
75	136T75	36	1	14.88	42.5	80.81	5.88	5		2800
75	230T75	30	2	14.88	33	74.31	5.88	5	1 1/4	2500
75	236T75	36	2	14.88	42.5	80.81	5.88	5		3000
75	320F75	20	3	11.75	21.5	50.25	5.88	3.5	1	1045
75	320H75	20	3	15.75	21.5	50.25	5.88	3.5	1	1445
75	324T75	24	3	16.38	26.56	68.31	5.88	3.5	1 1/8	2220
75	324TF75	24	3	15.38	26.63	62.44	5.88	3.5	1 1/8	1550
75	330T75	30	3	19.94	33	74.31	5.88	5	1 1/4	2835
75	420F75	20	4	16.75	22	50.63	5.88	3.5	1	1275
75	420H75	20	4	20.75	22	50.63	5.88	3.5	1	1675
75	424T75	24	4	19.75	26.5	68.31	5.88	3.5	1 1/8	2200
75	424TF75	24	4	20.25	26.63	62.44	5.88	3.5	1 1/8	1770
75	430T75	30	4	23.31	33	74.31	5.88	5	1 1/4	3625
75	520F75	20	5	19.75	22	51	5.88	3.5	1	1435
75	520H75	20	5	23.75	22	51	5.88	3.5	1	1835
75	620F75	20	6	22.25	22	49.5	5.88	3.5	1	1550
75	620H75	20	6	26.25	22	49.5	5.88	3.5	1	1950

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

80 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
80	324T80	24	3	16.38	26.63	68.31	5.88	3.5	1 1/8	2220
80	324TF80	24	3	15.38	26.63	62.44	5.88	3.5	1 1/8	1550
80	420F80	20	4	16.75	21.5	50.5	5.88	3.5	1	1275
80	420H80	20	4	20.75	21.5	50.5	5.88	3.5	1	1675
80	424T80	24	4	19.75	26.5	68.44	5.88	3.5	1 1/8	2200
80	424TF80	24	4	20.25	26.63	62.44	5.88	3.5	1 1/8	1770
80	520F80	20	5	19.75	22	51	5.88	3.5	1	1435
80	520H80	20	5	23.75	22	51	5.88	3.5	1	1835
80	524T80	24	5	24.38	26.63	68.81	5.88	3.5	1 1/8	2450
80	524TF80	24	5	24.88	26.63	62.81	5.88	3.5	1 1/8	2140

90 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
90	324T90	24	3	16.38	26.63	70.31	5.38	3.5	1 1/8	2385
90	324TF90	24	3	15.38	26.63	30.75	5.38	3.5	1 1/8	1715
90	424T90	24	4	19.75	26.5	70.18	5.38	3.5	1 1/8	2365
90	424TF90	24	4	20.25	26.63	60.75	5.38	3.5	1 1/8	1935
90	520F90	20	5	19.75	22	53.5	5.38	3.5	1	1600
90	520H90	20	5	23.75	22	53.5	5.38	3.5	1	2000
90	524TF90	24	5	24.88	26.63	64.88	5.38	3.5	1 1/8	2615
90	620F90	20	6	22.25	22	53.5	5.38	3.5	1	1750
90	620H90	20	6	26.25	22	53.5	5.38	3.5	1	2150
90	624T90	24	6	28	26	70.25	5.38	3.5	1 1/8	3170
90	624TF90	24	6	27	26.63	64.75	5.38	3.5	1 1/8	2800

100 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
100	136T100	36	1	14.88	42.5	86.38	5.38	5		3250
100	236T100	36	2	14.88	42.5	86.38	5.38	5		3450
100	324T100	24	3	16.38	26.63	73.88	5.38	3.5	1 1/8	2535
100	324TF100	24	3	15.38	26.63	67.75	5.38	3.5	1 1/8	1800
100	330T100	30	3	19.94	33	79.88	5.38	5	1 1/4	3175
100	336T100	36	3	19.94	42.5	86.38	5.38	5		3900
100	424T100	24	4	19.75	26.5	73.75	5.38	3.5	1 1/8	2515
100	424TF100	24	4	20.25	26.63	67.75	5.38	3.5	1 1/8	2015
100	430T100	30	4	23.31	36	79.88	5.38	5	1 1/4	3725
100	436T100	36	4	23.31	42.5	86.38	5.38	5		4490
100	520F100	20	5	19.75	22	54.13	5.38	3.5	1	2110
100	520H100	20	5	23.75	22	54.13	5.38	3.5	1	2575
100	524T100	24	5	24.38	26.63	74.25	5.38	3.5	1 1/8	2970
100	524TF100	24	5	24.88	26.63	67.75	5.38	3.5	1 1/8	2500
100	530T100	30	5	28	36	79.88	5.38	5	1 1/4	4530
100	536T100	36	5	28	42.5	86.38	5.38	5		5340
100	620F100	20	6	22.25	22	54.13	5.38	3.5	1	2000
100	620H100	20	6	26.25	22	54.13	5.38	3.5	1	2400
100	624T100	24	6	28	26	74.25	5.38	3.5	1 1/8	3320
100	624TF100	24	6	27	26.63	64.75	5.38	3.5	1 1/8	2875

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

115 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weigth Lbs.
115	424T115	24	4	19.75	26.5	73.75	5.38	3.5	1 1/8	2515
115	424TF115	24	4	20.25	26.63	67.75	5.38	3.5	1 1/8	2015
115	524TF115	24	5	24.88	26.63	67.75	5.38	3.5	1 1/8	2500
115	620F115	20	6	22.25	22	54.13	5.38	3.5	1	2000
115	620H115	20	6	26.25	22	54.13	5.38	3.5	1	2400
115	624T115	24	6	28	26	74.25	5.38	3.5	1 1/8	3320
115	624TF115	24	6	27	26.63	64.75	5.38	3.5	1 1/8	2875

125 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
125	236T125	36	2	14.88	42.5	87.38	5.5	5		3600
125	330T125	30	3	19.94	33	80.88	5.5	5	1 1/4	3200
125	336T125	36	3	19.94	42.5	87.38	5.5	5		3930
125	424T125	24	4	19.75	26.5	74.88	5.5	3.5	1 1/8	2670
125	424TF125	24	4	20.25	26.63	68.88	5.5	3.5	1 1/8	2150
125	430T125	30	4	23.31	36	80.88	5.5	5	1 1/4	3825
125	436T125	36	4	23.31	42.5	87.38	5.5	5		4590
125	524T125	24	5	24.38	26.63	75.38	5.5	3.5	1 1/8	3000
125	524TF125	24	5	27	26.63	69.38	5.5	3.5	1 1/8	2530
125	624T125	24	6	28	26	75.38	5.5	3.5	1 1/8	3350
125	624TF125	24	6	27	26.63	69.38	5.5	3.5	1 1/8	2975

135 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
135	424T135	24	4	19.75	26.5	74.88	5.5	3.5	1 1/8	2670
135	424TF135	24	4	20.25	26.63	68.88	5.5	3.5	1 1/8	2150

150 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
150	330T150	30	3	19.94	33	80.88	5.5	5	1 1/4	3200
150	336T150	36	3	19.94	42.5	87.88	5.5	5		3930
150	424T150	24	4	19.75	26.5	74.88	5.5	3.5	1 1/8	2670
150	424TF150	24	4	20.25	26.63	68.88	5.5	3.5	1 1/8	2150
150	430T150	30	4	23.31	36	80.88	5.5	5	1 1/4	3825
150	436T150	36	4	23.31	42.5	87.88	5.5	5		4590
150	524T150	24	5	24.38	26.63	75.38	5.5	3.5	1 1/8	3000
150	524TF150	24	5	24.88	26.63	69.38	5.5	3.5	1 1/8	2530
150	530T150	30	5	28	36	86.75	5.5	5	1 1/4	4560
150	536T150	36	5	28	42.5	87.88	5.5	5		5370
150	624T150	24	6	28	26	75.38	5.5	3.5	1 1/8	3350
150	624TF150	24	6	27	26.63	69.38	5.5	3.5	1 1/8	2975
150	630T150	30	6	31.75	36	86.75	5.5	5	1 1/4	4650
150	636T150	36	6	31.75	42.5	87.88	5.5	5		5600

Crane Blocks
HI-Lift

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- HI-LIFT BLOCKS

200 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
200	430T200	30	4	23.31	36	89	6	5	1 1/4	4200
200	436T200	36	4	23.31	42.5	95.5	6	5		4965
200	530T200	30	5	28	36	89	6	5	1 1/4	4700
200	536T200	36	5	28	42.5	95.5	6	5		5600
200	630T200	30	6	31.75	36	89	6	5	1 1/4	4900
200	636T200	36	6	31.75	42.5	95.5	6	5		5900

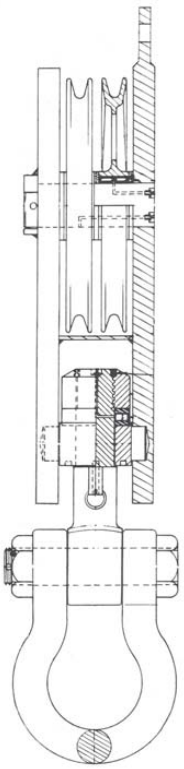
250 TON

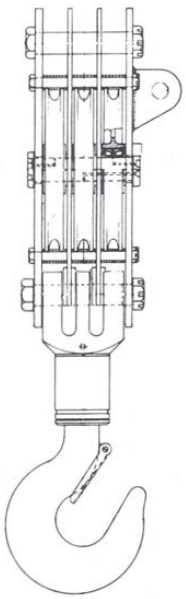
WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
250	630T250	30	6	31.75	36	93.5	7.5	5	1 1/4	5120
250	636T250	36	6	31.75	42.5	99.75	7.5	5		6125

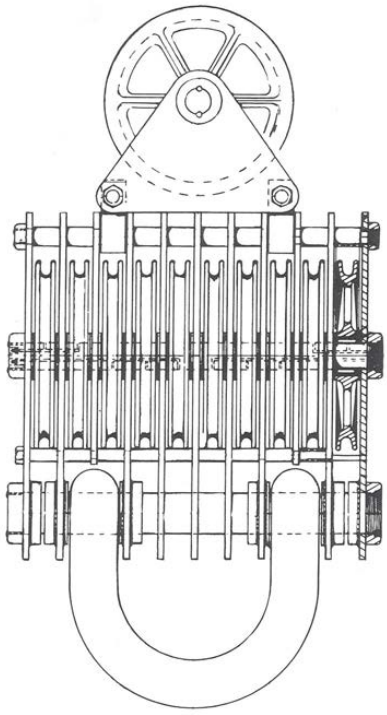
300 TON

WLL* Tons	Model Number	SHEAVE DIA. (in.)	# OF SHEAVES	THICKNESS (in.)	WIDTH (in.)	NET LENGTH (in.)	THROAT OPENING (in.)	SHEAVE PIN DIA. (in.)	STD WIRE ROPE DIA. (in.)	Weight Lbs.
300	530T300	30	5	30	36	94.25	8	5	1 1/4	6400
300	536T300	36	5	28	42.5	100.75	7.5	5		7025
300	630T300	30	6	33.75	36	94.25	7.5	5	1 1/4	6700
300	636T300	36	6	31.75	42.5	100.75	7.5	5		7370

Custom Miller Blocks are available to suit your special requirements.
Contact us for more information.







Crane Blocks
Mobile Crane

MADE IN USA

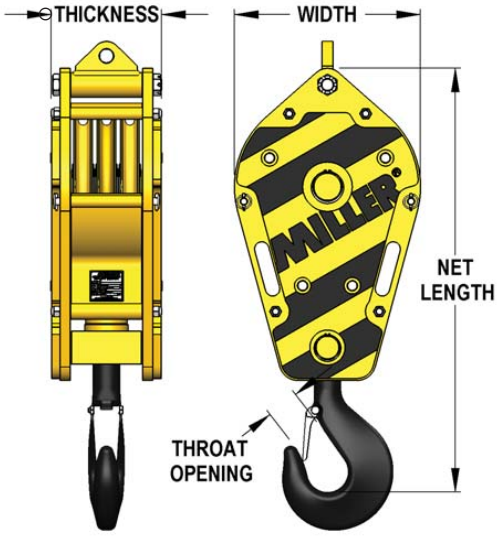
MILLER LIFTING PRODUCTS

BLOCKS- MOBILE CRANE BLOCKS

- **Product Range**
  - **Capacity** 15 to 80 tons standard with higher capacities available
  - **Sheave** sizes, to 24" for up to 1 ¼" wire rope, 1 to 7 sheaves
- **Technical Features**
  - **Quick-reeving** configuration with optional drop-away sheave guards allows easy passage of rope with end fitting in place. Dead end centered above the sheaves on 1-4 sheave blocks, 5 and up dead end to side plate.
  - **Hooks** are forged alloy steel, single or duplex, in accordance with DIN15401 or DIN15402. Single hook blocks include heavy-duty locking latches. Locking latches optional for duplex hooks. All hooks are individually certified for mechanical and physical properties including Charpy impact test, and include ultrasonic and magnetic particle evaluation.
  - **Design Factor** 4 to 1 minimum.
  - **Bearings** for sheaves are low-friction, double-row, full complement cylindrical roller type for tight sheave alignment and high resistance to axial forces caused by variation in fleet angles and require no friction spacers between sheaves. Hook bearings are tapered roller thrust type as used in all Miller Hi-Lift blocks.



  - **Lubrication** for sheave bearings via channels in the sheave pin. Hook bearing grease fitting is located in the hook upper end.
  - **Hook-locking** device is available for all models over 40 tons. Allows user to lock hook every 90°.
  - **Side plates** and cheek weights are full-length and provided for a range of overhaul weights.



Model Number Key

#	##	MC	###	-	#	XX
Number of Sheaves	*Sheave O.D.*	*Mobile Crane Block*	*Working Load Limit*		*Cheek Weights*	*Option Code**

**Option Codes*
D *- Duplex Hook*
DL *- Duplex Hook, Locking Latches*
LD *- Hook Locking Device, 4 Position*
DLD *- Duplex Hook, 4 Position Locking Device*
DLLD *- Duplex Hook, Locking Latches, 4 Position Locking Device*

Crane Blocks
Mobile Crane

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- MOBILE CRANE BLOCKS

15 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
15	110MC15	10	1	7.50	14.25	33.43	2.48	1/2 to 5/8"	240
15	110MC15-1	10	1	9.00	14.25	33.43	2.48	1/2 to 5/8"	310
15	112MC15	12	1	8.44	16.00	36.31	2.48	1/2 to 3/4"	315
15	112MC15-1	12	1	9.94	16.00	36.31	2.48	1/2 to 3/4"	400
15	114MC15	14	1	8.44	18.00	39.00	2.48	1/2 to 3/4"	360
15	114MC15-1	14	1	9.94	18.00	39.00	2.48	1/2 to 3/4"	470
15	116MC15	16	1	9.16	20.25	41.78	2.48	9/16 to 7/8"	460
15	116MC15-1	16	1	10.66	20.25	41.78	2.48	9/16 to 7/8"	590
15	118MC15	18	1	9.98	22.5	39.38	2.48	5/8 to 1"	365
15	118MC15-1	18	1	11.98	22.5	39.38	2.48	5/8 to 1"	535
15	210MC15	10	2	7.47	14.25	33.43	2.48	1/2 to 5/8"	255
15	210MC15-1	10	2	8.97	14.25	33.43	2.48	1/2 to 5/8"	325
15	212MC15	12	2	8.44	16.00	36.31	2.48	1/2 to 3/4"	335
15	212MC15-1	12	2	9.94	16.00	36.31	2.48	1/2 to 3/4"	420
15	214MC15	14	2	8.44	18.00	39.00	2.48	1/2 to 3/4"	380
15	214MC15-1	14	2	10.44	18.00	39.00	2.48	1/2 to 3/4"	490
15	216MC15	16	2	9.16	20.25	41.78	2.48	9/16 to 7/8"	490
15	216MC15-1	16	2	10.66	20.25	41.78	2.48	9/16 to 7/8"	625
15	218MC15	18	2	9.98	22.5	39.38	2.48	5/8 to 1"	405
15	218MC15-1	18	2	11.98	22.5	39.38	2.48	5/8 to 1"	575
15	310MC15	10	3	7.47	14.25	33.43	2.48	1/2 to 5/8"	295
15	310MC15-1	10	3	8.97	14.25	33.43	2.48	1/2 to 5/8"	345
15	312MC15	12	3	8.44	16.00	36.31	2.48	1/2 to 3/4"	365
15	312MC15-1	12	3	9.94	16.00	36.31	2.48	1/2 to 3/4"	450
15	314MC15	14	3	8.44	18.00	39.00	2.48	1/2 to 3/4"	425
15	314MC15-1	14	3	9.94	18.00	39.00	2.48	1/2 to 3/4"	530
15	316MC15	16	3	9.16	20.25	37.38	2.48	9/16 to 7/8"	540
15	316MC15-1	16	3	10.66	20.25	37.38	2.48	9/16 to 7/8"	675
15	318MC15	18	3	9.98	22.5	39.38	2.48	5/8 to 1"	445
15	318MC15-1	18	3	11.98	22.5	39.38	2.48	5/8 to 1"	615
15	412MC15	12	4	10.56	16.00	42.18	2.48	1/2 to 3/4"	430
15	412MC15-1	12	4	12.06	16.00	42.18	2.48	1/2 to 3/4"	515
15	414MC15	14	4	10.56	18.00	39.00	2.48	1/2 to 3/4"	485
15	414MC15-1	14	4	12.06	18.00	39.00	2.48	1/2 to 3/4"	595

Crane Blocks
Mobile Crane

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- MOBILE CRANE BLOCKS

20 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
20	110MC20-1	10	1	9.00	14.25	33.43	2.48	1/2 to 5/8"	310
20	112MC20	12	1	8.44	16.00	36.31	2.48	1/2 to 3/4"	315
20	112MC20-1	12	1	9.94	16.00	36.31	2.48	1/2 to 3/4"	400
20	114MC20	14	1	8.44	18.00	39.00	2.48	1/2 to 3/4"	360
20	114MC20-1	14	1	9.94	18.00	39.00	2.48	1/2 to 3/4"	470
20	116MC20	16	1	9.16	20.25	41.78	2.48	9/16 to 7/8"	460
20	116MC20-1	16	1	10.66	20.25	41.78	2.48	9/16 to 7/8"	590
20	118MC20	18	1	9.98	22.5	40.38	2.8	5/8 to 1"	375
20	118MC20-1	18	1	11.98	22.5	40.38	2.8	5/8 to 1"	525
20	210MC20	10	2	7.47	14.25	33.43	2.48	1/2 to 5/8"	255
20	210MC20-1	10	2	8.97	14.25	33.43	2.48	1/2 to 5/8"	325
20	212MC20	12	2	8.44	16.00	36.31	2.48	1/2 to 3/4"	335
20	212MC20-1	12	2	9.94	16.00	36.31	2.48	1/2 to 3/4"	420
20	214MC20	14	2	8.44	18.00	39.00	2.48	1/2 to 3/4"	380
20	214MC20-1	14	2	10.44	18.00	39.00	2.48	1/2 to 3/4"	490
20	216MC20	16	2	9.16	20.25	41.78	2.48	9/16 to 7/8"	490
20	216MC20-1	16	2	10.66	20.25	41.78	2.48	9/16 to 7/8"	625
20	218MC20	18	2	9.98	22.5	40.38	2.8	5/8 to 1"	415
20	218MC20-1	18	2	11.98	22.5	40.38	2.8	5/8 to 1"	565
20	310MC20	10	3	7.47	14.25	33.43	2.48	1/2 to 5/8"	295
20	310MC20-1	10	3	8.97	14.25	33.43	2.48	1/2 to 5/8"	345
20	312MC20	12	3	8.44	16.00	36.31	2.48	1/2 to 3/4"	365
20	312MC20-1	12	3	9.94	16.00	36.31	2.48	1/2 to 3/4"	450
20	314MC20	14	3	8.44	18.00	39.00	2.48	1/2 to 3/4"	425
20	314MC20-1	14	3	9.94	18.00	39.00	2.48	1/2 to 3/4"	530
20	316MC20	16	3	9.16	20.25	37.38	2.48	9/16 to 7/8"	540
20	316MC20-1	16	3	10.66	20.25	37.38	2.48	9/16 to 7/8"	675
20	318MC20	18	3	9.98	22.5	40.38	2.8	5/8 to 1"	455
20	318MC20-1	18	3	11.98	22.5	40.38	2.8	5/8 to 1"	605
20	412MC20	12	4	10.56	16.00	42.18	2.48	1/2 to 3/4"	430
20	412MC20-1	12	4	12.06	16.00	42.18	2.48	1/2 to 3/4"	515
20	414MC20	14	4	10.56	18.00	39.00	2.48	1/2 to 3/4"	485
20	414MC20-1	14	4	12.06	18.00	39.00	2.48	1/2 to 3/4"	595

25 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
25	116MC25-1	16	1	10.94	20.50	45.88	3.15	9/16 to 7/8"	670
25	118MC25	18	1	9.98	22.50	48.25	3.15	5/8 to 1"	595
25	118MC25-1	18	1	11.98	22.50	48.25	3.15	5/8 to 1"	800
25	120MC25	20	1	9.98	24.50	52.00	3.15	3/4 to 1-1/8"	690
25	120MC25-1	20	1	11.98	24.50	52.00	3.15	3/4 to 1-1/8"	935
25	214MC25	14	2	8.44	18.50	43.25	3.15	1/2 to 3/4"	440
25	214MC25-1	14	2	10.44	18.50	43.25	3.15	1/2 to 3/4"	580
25	216MC25	16	2	9.16	20.50	45.88	3.15	9/16 to 7/8"	540
25	216MC25-1	16	2	10.94	20.50	45.88	3.15	9/16 to 7/8"	705
25	218MC25	18	2	9.98	22.50	44.56	3.15	5/8 to 1"	655
25	218MC25-1	18	2	11.98	22.50	44.56	3.15	5/8 to 1"	860
25	220MC25	20	2	9.98	24.50	52.00	3.15	3/4 to 1-1/8"	765
25	220MC25-1	20	2	11.98	24.50	52.00	3.15	3/4 to 1-1/8"	1000
25	314MC25	14	3	8.44	18.50	43.25	3.15	1/2 to 3/4"	475
25	314MC25-1	14	3	10.44	18.50	43.25	3.15	1/2 to 3/4"	615
25	316MC25	16	3	9.16	20.50	43.88	3.15	9/16 to 7/8"	590
25	316MC25-1	16	3	10.94	20.50	43.88	3.15	9/16 to 7/8"	750
25	318MC25	18	3	9.98	22.50	48.25	3.15	5/8 to 1"	745
25	318MC25-1	18	3	11.98	22.50	48.25	3.15	5/8 to 1"	945
25	320MC25	20	3	9.98	24.50	52.00	3.15	3/4 to 1-1/8"	855
25	320MC25-1	20	3	11.98	24.50	52.00	3.15	3/4 to 1-1/8"	1100
25	414MC25	14	4	10.56	18.25	36.88	3.15	1/2 to 3/4"	480
25	414MC25-1	14	4	12.56	18.25	36.88	3.15	1/2 to 3/4"	580

Crane Blocks
Mobile Crane

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- MOBILE CRANE BLOCKS

30 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
30	116MC30-1	16	1	10.94	20.50	45.88	3.15	9/16 to 7/8"	670
30	118MC30	18	1	9.98	22.50	48.25	3.15	5/8 to 1"	595
30	118MC30-1	18	1	11.98	22.50	48.25	3.15	5/8 to 1"	800
30	120MC30	20	1	9.98	24.50	52.00	3.15	3/4 to 1-1/8"	690
30	120MC30-1	20	1	11.98	24.50	52.00	3.15	3/4 to 1-1/8"	935
30	214MC30	14	2	8.44	18.50	43.25	3.15	1/2 to 3/4"	440
30	214MC30-1	14	2	10.44	18.50	43.25	3.15	1/2 to 3/4"	580
30	216MC30	16	2	9.16	20.50	45.88	3.15	9/16 to 7/8"	540
30	216MC30-1	16	2	10.94	20.50	45.88	3.15	9/16 to 7/8"	705
30	218MC30	18	2	9.98	22.50	44.56	3.15	5/8 to 1"	655
30	218MC30-1	18	2	11.98	22.50	44.56	3.15	5/8 to 1"	860
30	220MC30	20	2	9.98	24.50	52.00	3.15	3/4 to 1-1/8"	765
30	220MC30-1	20	2	11.98	24.50	52.00	3.15	3/4 to 1-1/8"	1000
30	314MC30	14	3	8.44	18.50	43.25	3.15	1/2 to 3/4"	475
30	314MC30-1	14	3	10.44	18.50	43.25	3.15	1/2 to 3/4"	615
30	316MC30	16	3	9.16	20.50	43.88	3.15	9/16 to 7/8"	590
30	316MC30-1	16	3	10.94	20.50	43.88	3.15	9/16 to 7/8"	750
30	318MC30	18	3	9.98	22.50	48.25	3.15	5/8 to 1"	745
30	318MC30-1	18	3	11.98	22.50	48.25	3.15	5/8 to 1"	945
30	320MC30	20	3	9.98	24.50	52.00	3.15	3/4 to 1-1/8"	855
30	320MC30-1	20	3	11.98	24.50	52.00	3.15	3/4 to 1-1/8"	1100
30	414MC30	14	4	10.56	18.25	37.88	3.15	1/2 to 3/4"	480
30	414MC30-1	14	4	12.56	18.25	37.88	3.15	1/2 to 3/4"	580

35 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
35	124MC35-1	24	1	14.02	28.50	58.25	3.54	7/8 to 1-1/4"	1475
35	220MC35	20	2	10.48	24.50	52.00	3.54	3/4 to 1-1/8"	910
35	220MC35-1	20	2	12.48	24.50	52.00	3.54	3/4 to 1-1/8"	1160
35	224MC35	24	2	12.02	28.50	58.25	3.54	7/8 to 1-1/4"	1260
35	224MC35-1	24	2	14.02	28.50	58.25	3.54	7/8 to 1-1/4"	1610
35	314MC35	14	3	8.94	18.50	42.88	3.54	1/2 to 3/4"	525
35	314MC35-1	14	3	10.94	18.50	42.88	3.54	1/2 to 3/4"	635
35	316MC35	16	3	9.66	20.50	46.75	3.54	9/16 to 7/8"	720
35	316MC35-1	16	3	11.66	20.50	46.75	3.54	9/16 to 7/8"	900
35	318MC35	18	3	10.48	22.50	49.38	3.54	5/8 to 1"	860
35	318MC35-1	18	3	12.48	22.50	49.38	3.54	5/8 to 1"	1065
35	320MC35	20	3	10.48	24.50	52.00	3.54	3/4 to 1-1/8"	1000
35	320MC35-1	20	3	12.48	24.50	52.00	3.54	3/4 to 1-1/8"	1250
35	414MC35	14	4	11.06	18.25	43.63	3.54	1/2 to 3/4"	580
35	414MC35-1	14	4	13.06	18.25	43.63	3.54	1/2 to 3/4"	690
35	416MC35	16	4	12.02	20.50	46.75	3.54	9/16 to 7/8"	825
35	416MC35-1	16	4	14.02	20.50	46.75	3.54	9/16 to 7/8"	1000
35	418MC35	18	4	13.13	22.50	49.38	3.54	5/8 to 1"	980
35	418MC35-1	18	4	15.13	22.50	49.38	3.54	5/8 to 1"	1190
35	514MC35	14	5	13.19	18.25	43.63	3.54	1/2 to 3/4"	645
35	514MC35-1	14	5	15.19	18.25	43.63	3.54	1/2 to 3/4"	755
35	516MC35	16	5	14.38	20.31	47.19	3.54	9/16 to 7/8"	715
35	516MC35-1	16	5	16.38	20.31	47.19	3.54	9/16 to 7/8"	875
35	616MC35	16	6	16.75	20.31	48.19	3.54	9/16 to 7/8"	790
35	616MC35-1	16	6	18.75	20.31	48.19	3.54	9/16 to 7/8"	950

Crane Blocks
Mobile Crane

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BLOCKS- MOBILE CRANE BLOCKS

40 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
40	124MC40-1	24	1	14.02	28.50	58.25	3.54	7/8 to 1-1/4"	1475
40	220MC40	20	2	10.48	24.50	52.00	3.54	3/4 to 1-1/8"	910
40	220MC40-1	20	2	12.48	24.50	52.00	3.54	3/4 to 1-1/8"	1160
40	224MC40	24	2	12.02	28.50	58.25	3.54	7/8 to 1-1/4"	1260
40	224MC40-1	24	2	14.02	28.50	58.25	3.54	7/8 to 1-1/4"	1610
40	314MC40	14	3	8.94	18.50	42.88	3.54	1/2 to 3/4"	525
40	314MC40-1	14	3	10.94	18.50	42.88	3.54	1/2 to 3/4"	635
40	316MC40	16	3	9.66	20.50	46.75	3.54	9/16 to 7/8"	720
40	316MC40-1	16	3	11.66	20.50	46.75	3.54	9/16 to 7/8"	900
40	318MC40	18	3	10.48	22.50	49.38	3.54	5/8 to 1"	860
40	318MC40-1	18	3	12.48	22.50	49.38	3.54	5/8 to 1"	1065
40	320MC40	20	3	10.48	24.50	52.00	3.54	3/4 to 1-1/8"	1000
40	320MC40-1	20	3	12.48	24.50	52.00	3.54	3/4 to 1-1/8"	1250
40	414MC40	14	4	11.06	18.25	43.63	3.54	1/2 to 3/4"	580
40	414MC40-1	14	4	13.06	18.25	43.63	3.54	1/2 to 3/4"	690
40	416MC40	16	4	12.02	20.50	46.75	3.54	9/16 to 7/8"	825
40	416MC40-1	16	4	14.02	20.50	46.75	3.54	9/16 to 7/8"	1000
40	418MC40	18	4	13.13	22.50	49.38	3.54	5/8 to 1"	980
40	418MC40-1	18	4	15.13	22.50	49.38	3.54	5/8 to 1"	1190
40	514MC40	14	5	13.19	18.25	43.63	3.54	1/2 to 3/4"	645
40	514MC40-1	14	5	15.19	18.25	43.63	3.54	1/2 to 3/4"	755
40	516MC40	16	5	14.38	20.31	47.19	3.54	9/16 to 7/8"	715
40	516MC40-1	16	5	16.38	20.31	47.19	3.54	9/16 to 7/8"	875
40	616MC40	16	6	16.75	20.31	48.19	3.54	9/16 to 7/8"	790
40	616MC40-1	16	6	18.75	20.31	48.19	3.54	9/16 to 7/8"	950

45 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
45	220MC45-1	20	2	12.48	24.50	55.21	3.94	3/4 to 1-1/8"	1245
45	224MC45	24	2	12.02	28.50	59.50	3.94	7/8 to 1-1/4"	1320
45	224MC45-1	24	2	14.02	28.50	59.50	3.94	7/8 to 1-1/4"	1675
45	314MC45	14	3	8.94	18.25	43.59	3.94	1/2 to 3/4"	525
45	314MC45-1	14	3	10.94	18.25	43.59	3.94	1/2 to 3/4"	655
45	316MC45	16	3	9.66	20.50	49.50	3.94	9/16 to 7/8"	780
45	316MC45-1	16	3	11.66	20.50	49.50	3.94	9/16 to 7/8"	970
45	318MC45	18	3	10.48	22.50	51.65	3.94	5/8 to 1"	935
45	318MC45-1	18	3	12.48	22.50	51.65	3.94	5/8 to 1"	1155
45	320MC45	20	3	10.48	24.50	55.21	3.94	3/4 to 1-1/8"	1070
45	320MC45-1	20	3	12.48	24.50	55.21	3.94	3/4 to 1-1/8"	1335
45	324MC45	24	3	12.02	28.50	59.50	3.94	7/8 to 1-1/4"	1480
45	324MC45-1	24	3	14.02	28.50	59.50	3.94	7/8 to 1-1/4"	1840
45	414MC45	14	4	11.06	18.25	43.59	3.94	1/2 to 3/4"	570
45	414MC45-1	14	4	13.06	18.25	43.59	3.94	1/2 to 3/4"	700
45	416MC45	16	4	12.02	20.50	49.25	3.94	9/16 to 7/8"	890
45	416MC45-1	16	4	14.02	20.50	49.25	3.94	9/16 to 7/8"	1080
45	418MC45	18	4	13.13	22.50	51.65	3.94	5/8 to 1"	1060
45	418MC45-1	18	4	15.13	22.50	51.65	3.94	5/8 to 1"	1380
45	420MC45	20	4	13.13	24.50	55.21	3.94	3/4 to 1-1/8"	1225
45	420MC45-1	20	4	15.13	24.50	55.21	3.94	3/4 to 1-1/8"	1490
45	514MC45	14	5	13.19	18.25	43.59	3.94	1/2 to 3/4"	630
45	514MC45-1	14	5	15.19	18.25	43.59	3.94	1/2 to 3/4"	760
45	516MC45	16	5	14.38	20.31	47.38	3.94	9/16 to 7/8"	720
45	516MC45-1	16	5	16.38	20.31	47.38	3.94	9/16 to 7/8"	895
45	518MC45	18	5	15.75	22.5	49.38	3.94	5/8 to 1"	820
45	518MC45-1	18	5	17.75	22.5	49.38	3.94	5/8 to 1"	1045
45	616MC45	16	6	16.75	20.31	47.38	3.94	9/16 to 7/8"	780
45	616MC45-1	16	6	18.75	20.31	47.38	3.94	9/16 to 7/8"	955

Crane Blocks
Mobile Crane

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- MOBILE CRANE BLOCKS

50 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
50	220MC50-1	20	2	12.48	24.50	55.21	3.94	3/4 to 1-1/8"	1245
50	224MC50	24	2	12.02	28.50	59.50	3.94	7/8 to 1-1/4"	1320
50	224MC50-1	24	2	14.02	28.50	59.50	3.94	7/8 to 1-1/4"	1675
50	314MC50	14	3	8.94	18.25	43.59	3.94	1/2 to 3/4"	525
50	314MC50-1	14	3	10.94	18.25	43.59	3.94	1/2 to 3/4"	655
50	316MC50	16	3	9.66	20.50	49.50	3.94	9/16 to 7/8"	780
50	316MC50-1	16	3	11.66	20.50	49.50	3.94	9/16 to 7/8"	970
50	318MC50	18	3	10.48	22.50	51.65	3.94	5/8 to 1"	935
50	318MC50-1	18	3	12.48	22.50	51.65	3.94	5/8 to 1"	1155
50	320MC50	20	3	10.48	24.50	55.21	3.94	3/4 to 1-1/8"	1070
50	320MC50-1	20	3	12.48	24.50	55.21	3.94	3/4 to 1-1/8"	1335
50	324MC50	24	3	12.02	28.50	59.50	3.94	7/8 to 1-1/4"	1480
50	324MC50-1	24	3	14.02	28.50	59.50	3.94	7/8 to 1-1/4"	1840
50	414MC50	14	4	11.06	18.25	43.59	3.94	1/2 to 3/4"	570
50	414MC50-1	14	4	13.06	18.25	43.59	3.94	1/2 to 3/4"	700
50	416MC50	16	4	12.02	20.50	49.25	3.94	9/16 to 7/8"	890
50	416MC50-1	16	4	14.02	20.50	49.25	3.94	9/16 to 7/8"	1080
50	418MC50	18	4	13.13	22.50	51.65	3.94	5/8 to 1"	1060
50	418MC50-1	18	4	15.13	22.50	51.65	3.94	5/8 to 1"	1380
50	420MC50	20	4	13.13	24.50	55.21	3.94	3/4 to 1-1/8"	1225
50	420MC50-1	20	4	15.13	24.50	55.21	3.94	3/4 to 1-1/8"	1490
50	514MC50	14	5	13.19	18.25	43.59	3.94	1/2 to 3/4"	630
50	514MC50-1	14	5	15.19	18.25	43.59	3.94	1/2 to 3/4"	760
50	516MC50	16	5	14.38	20.31	47.38	3.94	9/16 to 7/8"	720
50	516MC50-1	16	5	16.38	20.31	47.38	3.94	9/16 to 7/8"	895
50	518MC50	18	5	15.75	22.5	49.38	3.94	5/8 to 1"	820
50	518MC50-1	18	5	17.75	22.5	49.38	3.94	5/8 to 1"	1045
50	616MC50	16	6	16.75	20.31	47.38	3.94	9/16 to 7/8"	780
50	616MC50-1	16	6	18.75	20.31	47.38	3.94	9/16 to 7/8"	955

55 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
55	224MC55-1	24	2	14.52	28.88	60.06	4.41	7/8 to 1-1/4"	1475
55	318MC55	18	3	10.98	22.50	53.66	4.41	5/8 to 1"	1080
55	318MC55-1	18	3	12.98	22.50	53.66	4.41	5/8 to 1"	1300
55	320MC55	20	3	10.98	24.50	56.79	4.41	3/4 to 1-1/8"	1235
55	320MC55-1	20	3	12.98	24.50	56.79	4.41	3/4 to 1-1/8"	1500
55	324MC55	24	3	12.52	28.50	61.41	4.41	7/8 to 1-1/4"	1700
55	324MC55-1	24	3	14.52	28.50	61.41	4.41	7/8 to 1-1/4"	2055
55	416MC55	16	4	12.52	20.31	50.13	4.41	9/16 to 7/8"	1000
55	416MC55-1	16	4	14.52	20.31	50.13	4.41	9/16 to 7/8"	1185
55	418MC55	18	4	13.63	22.5	52.88	4.41	5/8 to 1"	1080
55	418MC55-1	18	4	15.63	22.5	52.88	4.41	5/8 to 1"	1310
55	420MC55	20	4	13.63	24.50	56.79	4.41	3/4 to 1-1/8"	1400
55	420MC55-1	20	4	15.63	24.50	56.79	4.41	3/4 to 1-1/8"	1670
55	516MC55	16	5	14.88	20.31	50.13	4.41	9/16 to 7/8"	1100
55	516MC55-1	16	5	16.88	20.31	50.13	4.41	9/16 to 7/8"	1285
55	518MC55	18	5	16.25	22.5	52.88	4.41	5/8 to 1"	1160
55	518MC55-1	18	5	18.25	22.5	52.88	4.41	5/8 to 1"	1490
55	520MC55	20	5	16.25	24.50	56.79	4.41	3/4 to 1-1/8"	1565
55	520MC55-1	20	5	18.25	24.50	56.79	4.41	3/4 to 1-1/8"	1830
55	620MC55	20	6	18.89	24.63	56.06	4.41	3/4 to 1-1/8"	1420
55	620MC55-1	20	6	20.89	24.63	56.06	4.41	3/4 to 1-1/8"	1700

Crane Blocks
Mobile Crane

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- MOBILE CRANE BLOCKS

65 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
65	224MC65-1	24	2	14.52	28.88	60.06	4.41	7/8 to 1-1/4"	1475
65	318MC65	18	3	10.98	22.50	53.66	4.41	5/8 to 1"	1080
65	318MC65-1	18	3	12.98	22.50	53.66	4.41	5/8 to 1"	1300
65	320MC65	20	3	10.98	24.50	56.79	4.41	3/4 to 1-1/8"	1235
65	320MC65-1	20	3	12.98	24.50	56.79	4.41	3/4 to 1-1/8"	1500
65	324MC65	24	3	12.52	28.50	61.41	4.41	7/8 to 1-1/4"	1700
65	324MC65-1	24	3	14.52	28.50	61.41	4.41	7/8 to 1-1/4"	2055
65	416MC65	16	4	12.52	20.31	50.13	4.41	9/16 to 7/8"	1000
65	416MC65-1	16	4	14.52	20.31	50.13	4.41	9/16 to 7/8"	1185
65	418MC65	18	4	13.63	22.5	52.88	4.41	5/8 to 1"	1080
65	418MC65-1	18	4	15.63	22.5	52.88	4.41	5/8 to 1"	1310
65	420MC65	20	4	13.63	24.50	56.79	4.41	3/4 to 1-1/8"	1400
65	420MC65-1	20	4	15.63	24.50	56.79	4.41	3/4 to 1-1/8"	1670
65	516MC65	16	5	14.88	20.31	50.13	4.41	9/16 to 7/8"	1100
65	516MC65-1	16	5	16.88	20.31	50.13	4.41	9/16 to 7/8"	1285
65	518MC65	18	5	16.25	22.5	52.88	4.41	5/8 to 1"	1160
65	518MC65-1	18	5	18.25	22.5	52.88	4.41	5/8 to 1"	1490
65	520MC65	20	5	16.25	24.50	56.79	4.41	3/4 to 1-1/8"	1565
65	520MC65-1	20	5	18.25	24.50	56.79	4.41	3/4 to 1-1/8"	1830
65	620MC65	20	6	18.89	24.63	56.06	4.41	3/4 to 1-1/8"	1420
65	620MC65-1	20	6	20.89	24.63	56.06	4.41	3/4 to 1-1/8"	1700

70 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
70	320MC70-1	20	3	13.48	24.50	61.00	4.92	3/4 to 1-1/8"	1810
70	324MC70	24	3	13.02	28.50	65.18	4.92	7/8 to 1-1/4"	2000
70	324MC70-1	24	3	15.02	28.50	65.18	4.92	7/8 to 1-1/4"	2380
70	418MC70	18	4	14.13	22.5	58.75	4.92	5/8 to 1"	1430
70	418MC70-1	18	4	16.13	22.5	58.75	4.92	5/8 to 1"	1680
70	420MC70	20	4	14.13	24.50	61.00	4.92	3/4 to 1-1/8"	1685
70	420MC70-1	20	4	16.13	24.50	61.00	4.92	3/4 to 1-1/8"	1980
70	424MC70	24	4	16.16	28.50	65.18	4.92	7/8 to 1-1/4"	2270
70	424MC70-1	24	4	18.16	28.50	65.18	4.92	7/8 to 1-1/4"	2660
70	518MC70	18	5	16.75	22.5	58.75	4.92	5/8 to 1"	1540
70	518MC70-1	18	5	18.75	22.5	58.75	4.92	5/8 to 1"	1790
70	520MC70	20	5	16.75	24.63	62.31	4.92	3/4 to 1-1/8"	1615
70	520MC70-1	20	5	18.75	24.63	62.31	4.92	3/4 to 1-1/8"	1915
70	524MC70	24	5	19.31	28.50	65.18	4.92	7/8 to 1-1/4"	2535
70	524MC70-1	24	5	21.31	28.50	65.18	4.92	7/8 to 1-1/4"	2925
70	620MC70	20	6	19.39	22.5	62.31	4.92	3/4 to 1-1/8"	1785
70	620MC70-1	20	6	21.39	22.5	62.31	4.92	3/4 to 1-1/8"	2085

Crane Blocks
Mobile Crane

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- MOBILE CRANE BLOCKS

80 TON

WLL * Tons	Model Number	Sheave Diameter (in)	Number of Sheaves	Thickness (in)	Width (in)	Net Length (in)	Throat Opening (in)	Wire Rope Range (in)	Weight (lbs)
80	320MC80-1	20	3	13.48	24.50	61.00	4.92	3/4 to 1-1/8"	1810
80	324MC80	24	3	13.02	28.50	65.18	4.92	7/8 to 1-1/4"	2000
80	324MC80-1	24	3	15.02	28.50	65.18	4.92	7/8 to 1-1/4"	2380
80	418MC80	18	4	14.13	22.5	58.75	4.92	5/8 to 1"	1430
80	418MC80-1	18	4	16.13	22.5	58.75	4.92	5/8 to 1"	1680
80	420MC80	20	4	14.13	24.50	61.00	4.92	3/4 to 1-1/8"	1685
80	420MC80-1	20	4	16.13	24.50	61.00	4.92	3/4 to 1-1/8"	1980
80	424MC80	24	4	16.16	28.50	65.18	4.92	7/8 to 1-1/4"	2270
80	424MC80-1	24	4	18.16	28.50	65.18	4.92	7/8 to 1-1/4"	2660
80	518MC80	18	5	16.75	22.5	58.75	4.92	5/8 to 1"	1540
80	518MC80-1	18	5	18.75	22.5	58.75	4.92	5/8 to 1"	1790
80	520MC80	20	5	16.75	24.63	62.31	4.92	3/4 to 1-1/8"	1615
80	520MC80-1	20	5	18.75	24.63	62.31	4.92	3/4 to 1-1/8"	1915
80	524MC80	24	5	19.31	28.50	65.18	4.92	7/8 to 1-1/4"	2535
80	524MC80-1	24	5	21.31	28.50	65.18	4.92	7/8 to 1-1/4"	2925
80	620MC80	20	6	19.39	22.5	64.31	4.92	3/4 to 1-1/8"	1785
80	620MC80-1	20	6	21.39	22.5	64.31	4.92	3/4 to 1-1/8"	2085



Crane Blocks
Overhead

MADE IN USA

MILLER LIFTING PRODUCTS

BLOCKS- OVERHEAD CRANE

OVERHEAD BRIDGE CRANE BLOCKS

Wide capacity range, made to application, new or replacement

- Working loads from 15 tons to 300 tons
- Design factor 4:1 and up per specification
- All CMAA service classes (also FEM, DIN, ISO)
- Hooks are forged alloy in accord with DIN 15041 or 15402, single or duplex on thrust bearing and crosshead
- Hook lock or motorized hook available
- Fabricated, roll-formed or cast sheaves with roller bearings or bronze bushings
- Optional lubrication through sheave shaft
- Heavy duty sheave guards
- Optional slotted covers over sheaves
- Special configurations, sheave spacings
- Optional insulated hook





See next page for Quote Request form…

Crane Blocks
Overhead

MILLER LIFTING PRODUCTS

BLOCKS- OVERHEAD CRANE

OVERHEAD CRANE BLOCKS
QUOTE REQUEST

Requestor
Name:_____Date:_____Quantity_____
Company:_____ Address:_____
City:_____ State:_____ Zip:_____
Phone:_____ E-mail:_____

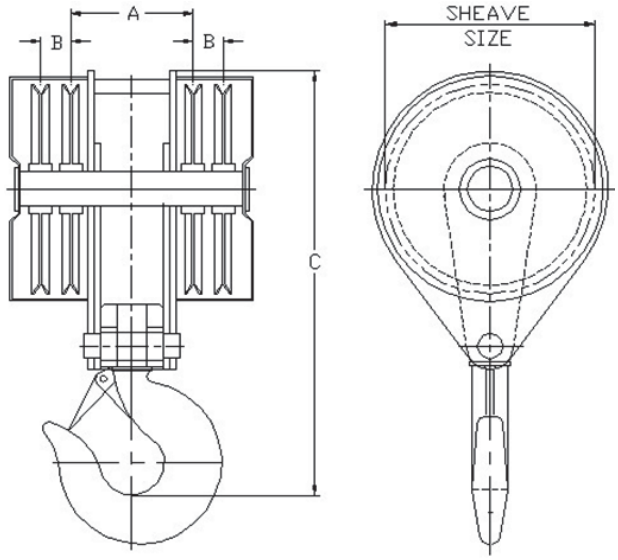
SHEAVES
NUMBER OF SHEAVES:_____ OUTSIDE DIAMETER:_____ WIRE ROPE SIZE:_____

SHEAVE BUSHINGS
BRONZE BUSHING_____ ROLLER BEARING_____

BLOCK CAPACITY & DIMENSIONS, WEIGHT
DIMENSIONS: A_____ B_____ C_____

WORKING CAPACITY (LOAD LIMIT)_____
(INDICATE US / METRIC TONS)

DESIGN FACTOR_____
OVERHAUL WEIGHT_____



HOOK / FITTING TYPE
HOOK_____ SINGLE_____ DOUBLE_____
LOCKING HOOK_____
MOTORIZED HOOK_____
OTHER FITTINGS_____

OTHER REQUIREMENTS

CMAA SERVICE CLASS:_____

SPECIAL TESTING, THIRD PARTY INSPECTION,
ETC:_____
_____
_____

Crane Hooks
General Information

MILLER LIFTING PRODUCTS

FORGED HOOKS

Miller's forged hooks are produced to the following comprehensive, international standards:

- DIN 15400- Materials, properties, capacities, stresses
- DIN 15401- Single hooks, forged
- DIN 15402- Double hooks, forged
- DIN 7540 - Eye hooks class 8 (grade 80), forged



DIN

DIN is the German Institute for Standardization (Deutsches Institut für Normung) and has been based in Berlin since 1917. DIN has historically developed the detailed and exacting standards used in German engineering and is the body that represents Germany in international standards organizations.

Forged Shank Hooks

Hooks are identified by hook number and material. Each hook number maintains identical dimensions across a range of different materials with its load capacity dependent on the material used. Shank hooks are forged and heat-treated for optimal strength and toughness and are available in single and double configurations in standard working loads to 1,100 tons. Standard design factor is 5:1.

Hook forgings are available in three increasingly stronger carbon and alloy steel materials:

DIN class P: Fine-grained carbon steel, St-E355/St-E420, similar to ASTMA573 Gr. 65
DIN class T: Structural low alloy steel, 34CrMo4 or 34CrNiMo6, similar to SAE 4135/4340
DIN class V: Super alloy steel, 34CrNiMo6 or 30CrNiMo8, similar to SAE 4340/4337

Forged hooks are also available to order, in bronze alloy or stainless steel for non-sparking or other special applications. Stainless steel hooks are forged from ANSI 304 or 316L stainless steel and bronze hooks are forged from a non-sparking aluminum-nickel bronze alloy (CuAl10Ni/C95500).

In the succeeding selection tables, working load limits (WLL) are indicated for each hook number depending on the material selected.

Standard safety latches are included with all hook forgings. Heavy duty positive locking latches are available upon request. See the special section of this catalog for instructions on how to order replacement latches.

Extended length shanks are available upon request.

All hooks are supplied with certifications by serial number for mechanical and chemical properties including Charpy testing, and include 100% ultrasonic and magnetic particle non-destructive examination. Hooks include markings of fixed distances ("y" dimension in tables) which allow confirmation that no deformation has occurred in use or during proof testing. Class V hooks are API-2C compliant.

Machined Hooks with Nut, Suspensions and Blocks

Miller can provide forged hooks fully machined and threaded to customer requirements, matching nut included and ready for assembly into the customer's structure. We can also provide the complete hook suspension with trunnion and thrust bearing, and since Miller is a block manufacturer, we can provide a complete hook block assembly for any crane type. Miller has a full range of standard blocks for mobile cranes and produces custom blocks to order for overhead cranes.



Forged Heavy-Duty Eye Hooks

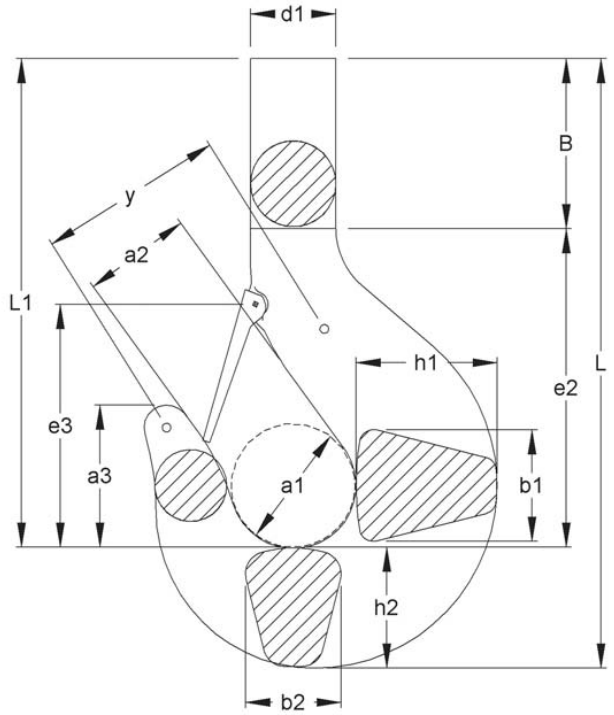
Miller's DIN 7540 Grade 80 Eye Hook features the traditional eye-ring of circular cross section allowing the maximum degree of motion in the connection and is available standard in working loads up to 400 metric tons (440 short tons). These heavy duty eye hooks are forged from 34CrNiMo6V alloy steel, include a safety latch, and can be adapted for ROV use. The standard design factor is 4:1. See detailed eye hook tables following the shank hook tables.

Crane Hooks
Single

MILLER LIFTING PRODUCTS

FORGED HOOKS- SINGLE HOOKS DIN 15401

Imperial Dimensions



Model Number	Capacity Short Tons Carbon Class P	Capacity Short Tons Alloy Class T	Capacity Short Tons Super Alloy Class V	Capacity Short Tons STAIN-LESS STEEL	a1	a2	a3	B	b1	b2	d1	e2	e3	h1	h2	L	L1	y	Weight Lbs.
GS 1,6	3	6	7	3	2.21	1.77	2.52	3.07	1.77	1.50	1.42	5.75	4.65	2.21	1.89	10.72	8.83		10
GS 2,5	6	9	11	3	2.48	1.97	2.84	3.39	2.09	1.77	1.65	6.58	5.20	2.64	2.29	12.25	9.97		14
GS 4	9	13	18	6	2.80	2.21	3.15	3.74	2.48	2.09	1.89	7.49	5.83	3.15	2.64	13.87	11.23		19
GS 5	11	18	22	9	3.15	2.48	3.55	4.06	2.80	2.36	2.09	8.47	6.50	3.55	2.96	15.48	12.53		27
GS 6	14	22	28	11	3.55	2.80	3.98	5.52	3.15	2.64	2.36	9.46	7.29	3.94	3.35	18.32	14.97	5.12	38
GS 8	18	28	35	14	3.94	3.15	4.45	5.91	3.55	2.96	2.64	10.56	8.27	4.41	3.74	20.21	16.47	5.71	53
GS 10	22	35	44	18	4.41	3.55	5.00	6.54	3.94	3.35	2.96	11.27	8.71	4.93	4.18	21.99	17.81	6.30	75
GS 12	28	44	55	22	4.93	3.94	5.63	8.23	4.41	3.74	3.35	12.45	9.93	5.52	4.65	25.33	20.69	7.09	121
GS 16	35	55	69	28	5.52	4.41	6.30	9.38	4.93	4.18	3.74	14.07	11.03	6.30	5.20	28.64	23.44	7.88	170
GS 20	44	69	88	35	6.30	4.93	7.09	10.24	5.52	4.65	4.18	15.96	13.00	7.09	5.91	32.11	26.20	8.87	247
GS 25	55	88	110	44	7.09	5.52	7.96	11.03	6.30	5.20	4.65	17.93	14.18	7.88	6.70	35.66	28.96	10.05	353
GS 32	69	110	138	55	7.88	6.30	8.87	11.82	7.09	5.91	5.20	20.09	15.76	8.83	7.49	39.40	31.91	11.43	485
GS 40	88	138	176	69	8.83	7.09	9.93	13.32	7.88	6.70	5.91	22.34	17.61	9.85	8.35	44.01	35.66	12.61	683
GS 50	110	176	220	88	9.85	7.88	11.23	13.99	8.83	7.49	6.70	25.02	19.11	11.03	9.30	48.30	39.01	13.99	948
GS 63	138	220	276	110	11.03	8.83	12.61	16.15	9.85	8.35	7.49	27.97	21.67	12.41	10.44	54.57	44.13	15.76	1323
GS 80	176	276	353	138	12.41	9.85	14.11	18.44	11.03	9.30	8.35	31.6	23.56	13.99	11.82	61.86	50.04	17.73	1896
GS 100	220	353	441	176	13.99	11.03	15.84	20.21	12.41	10.44	9.26	35.54	27.11	15.76	13.20	68.95	55.75	19.90	2690
GS 125	276	441	551	n/a	15.76	12.41	17.73	22.46	13.99	11.82	10.44	40.19	29.55	17.73	14.78	77.42	62.65	22.46	3836
GS 160	353	551	705	n/a	17.73	13.99	19.90	25.41	15.76	13.20	11.82	45.11	32.51	19.70	16.75	87.27	70.53	25.22	5467
GS 200	441	705	882	n/a	19.70	15.76	22.26	30.38	17.73	14.78	13.20	50.24	35.46	22.06	18.72	99.41	80.69	28.37	7540
GS 250	705	882	1102	n/a	22.83	17.71	25.00	34.44	19.68	16.73	14.76	56.29	38.58	24.80	20.86	111.6	90.75	39.96	10582

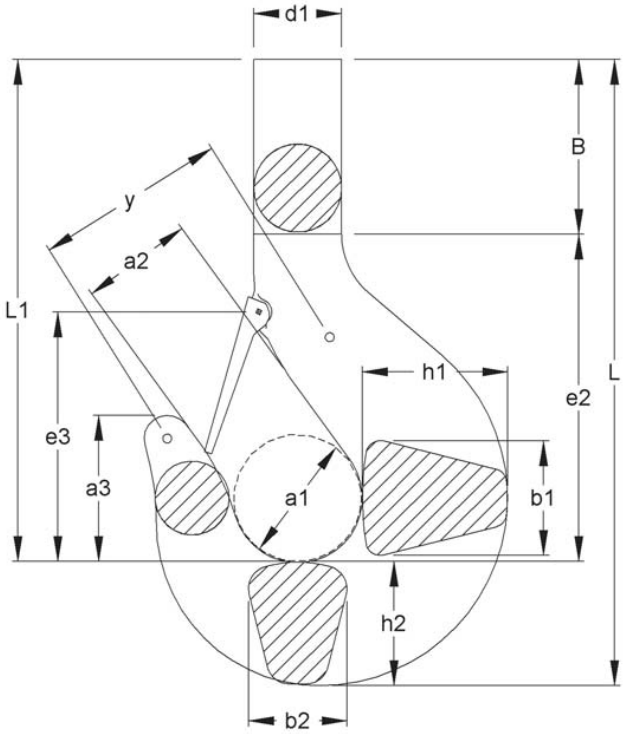
•Design factor is 5:1 •For dimensional tolerances and extended shank options see page 70 •Capacities listed are per DIN 15400 drive group 1Am, which generally reflect loading conditions for mobile crane applications. The 1Am drive group can generally be approximated to CMAA Specification No. 70, Service Class B. For application-specific information consult the relevant standard or contact Miller for assistance.

Crane Hooks
Single

MILLER LIFTING PRODUCTS

FORGED HOOKS- SINGLE HOOKS DIN 15401

Metric Dimensions



Model Number	Capacity Metric Tons Carbon Class P	Capacity Metric Tons Alloy Class T	Capacity Metric Tons Super Alloy Class V	Capacity Metric Tons STAIN-LESS STEEL	a1	a2	a3	B	b1	b2	d1	e2	e3	h1	h2	L	L1	y	Weight Kg
GS 1,6	3	5	6.5	2.5	56	45	64	78	45	38	36	146	118	56	48	272	224		4.5
GS 2,5	5	8	10	3	63	50	72	86	53	45	42	167	132	67	58	311	253		6.3
GS 4	8	12	16	5	71	56	80	95	63	53	48	190	148	80	67	352	285		8.8
GS 5	10	16	20	8	80	63	90	103	71	60	53	215	165	90	75	393	318		12.3
GS 6	12.5	20	25	10	90	71	101	140	80	67	60	240	185	100	85	465	380	130	17.1
GS 8	16	25	32	12.5	100	80	113	150	90	75	67	268	210	112	95	513	418	145	24
GS 10	20	32	40	16	112	90	127	166	100	85	75	286	221	125	106	558	452	160	34
GS 12	25	40	50	20	125	100	143	209	112	95	85	316	252	140	118	643	525	180	55
GS 16	32	50	63	25	140	112	160	238	125	106	95	357	280	160	132	727	595	200	77
GS 20	40	63	80	32	160	125	180	260	140	118	106	405	330	180	150	815	665	225	112
GS 25	50	80	100	40	180	140	202	280	160	132	118	455	360	200	170	905	735	255	160
GS 32	63	100	125	50	200	160	225	300	180	150	132	510	400	224	190	1000	810	290	220
GS 40	80	125	160	63	224	180	252	338	200	170	150	567	447	250	212	1117	905	320	310
GS 50	100	160	200	80	250	200	285	355	224	190	170	635	485	280	236	1226	990	355	430
GS 63	125	200	250	100	280	224	320	410	250	212	190	710	550	315	265	1385	1120	400	600
GS 80	160	250	320	125	315	250	358	468	280	236	212	802	598	355	300	1570	1270	450	860
GS 100	200	320	400	160	355	280	402	513	315	265	235	902	688	400	335	1750	1415	505	1220
GS 125	250	400	500	n/a	400	315	450	570	355	300	265	1020	750	450	375	1965	1590	570	1740
GS 160	320	500	640	n/a	450	350	505	645	400	335	300	1145	825	500	425	2215	1790	640	2480
GS 200	400	640	800	n/a	500	400	565	771	450	375	335	1275	900	560	475	2523	2048	720	3420
GS 250	640	800	1000	n/a	580	450	635	875	500	425	375	1430	980	630	530	2835	2305	1015	4800

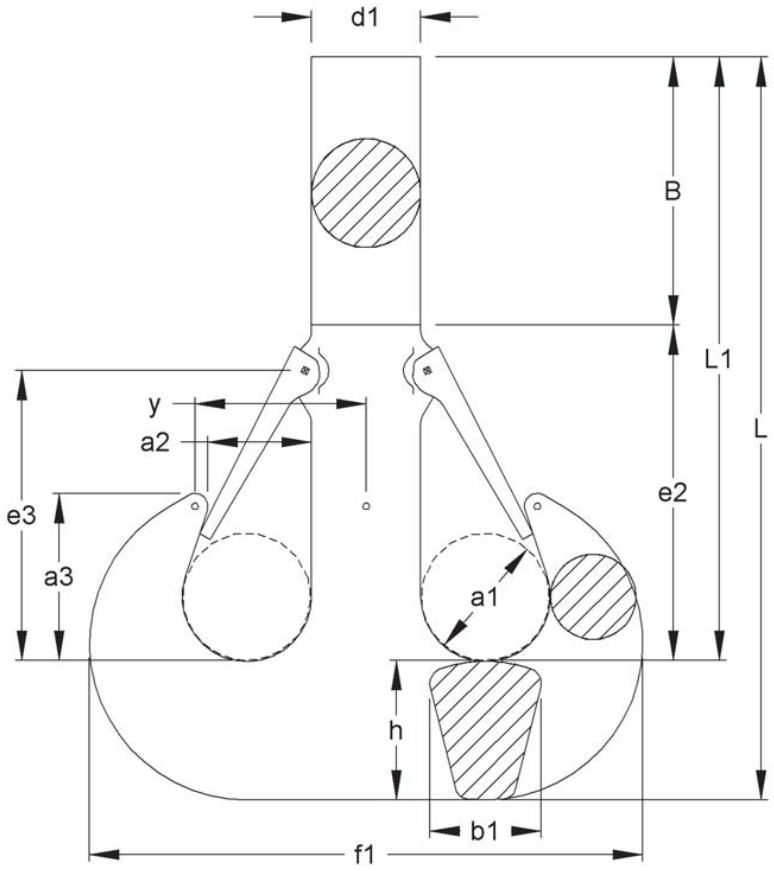
•Design factor is 5:1 •For dimensional tolerances and extended shank options see page 70 •Capacities listed are per DIN 15400 drive group 1Am, which generally reflect loading conditions for mobile crane applications. The 1Am drive group can generally be approximated to CMAA Specification No. 70, Service Class B. For application-specific information consult the relevant standard or contact Miller for assistance.

Crane Hooks
Duplex

MILLER LIFTING PRODUCTS

FORGED HOOKS- DUPLEX HOOK DIN 15402

Imperial Dimensions



Model Number	Capacity Short Tons Carbon Class P	Capacity Short Tons Alloy Class T	Capacity Short Tons Super Alloy Class V	a1	a2	a3	B	f1	b1	e2	d1	e3	h	L	L1	y	Weight Lbs.
GD 6	14	22	28	2.80	2.21	3.62	7.21	11.86	2.36	7.56	2.36	6.30	2.96	17.73	14.78	3.66	37
GD 8	18	28	35	3.15	2.48	4.06	7.76	13.28	2.64	8.59	2.64	7.17	3.35	19.70	16.35	4.12	56
GD 10	22	35	44	3.55	2.80	4.57	8.67	14.85	2.96	9.06	2.96	7.56	3.74	21.47	17.73	4.63	80
GD 12	28	44	55	3.94	3.15	5.12	10.17	16.59	3.35	9.93	3.35	8.27	4.18	24.27	20.09	5.22	111
GD 16	35	55	69	4.41	3.55	5.75	11.66	18.56	3.74	11.19	3.74	9.34	4.65	27.50	22.85	5.85	157
GD 20	44	69	88	4.93	3.94	6.42	13.08	20.92	4.18	12.53	4.18	10.44	5.20	30.81	25.61	6.52	219
GD 25	55	88	110	5.52	4.41	7.17	13.67	23.56	4.65	14.89	4.65	12.41	5.91	34.08	28.17	7.29	304
GD 32	69	110	138	6.30	4.93	8.08	15.29	26.48	5.20	15.84	5.20	13.20	6.70	37.82	31.13	8.16	434
GD 40	88	138	176	7.09	5.52	9.06	17.14	29.71	5.91	17.73	5.91	14.78	7.49	42.36	34.87	9.18	631
GD 50	110	176	220	7.88	6.30	10.24	18.16	33.17	6.70	19.86	6.70	16.55	8.35	46.37	38.02	10.44	869
GD 63	138	220	276	8.83	7.09	11.50	21.20	37.19	7.49	21.75	7.49	18.12	9.30	52.24	42.95	11.70	1206
GD 80	176	276	353	9.85	7.88	12.81	24.31	41.84	8.35	24.35	8.35	20.29	10.44	59.10	48.66	13.04	1673
GD 100	220	353	441	11.03	8.83	14.34	26.99	46.73	9.26	27.19	9.26	22.66	11.82	66.00	54.18	14.58	2337
GD 125	276	441	551	12.41	9.85	16.08	30.57	52.40	10.44	30.50	10.44	25.41	13.20	74.27	61.07	16.33	3287
GD 160	353	551	705	13.99	11.03	18.05	34.45	59.30	11.82	34.25	11.82	28.57	14.78	83.53	68.75	18.36	4663
GD 200	441	705	882	15.76	12.41	20.29	40.82	66.39	13.20	37.83	13.20	31.52	16.75	95.47	78.72	20.59	6647
GD 250	551	882	1102	17.73	13.99	22.85	47.05	74.27	14.78	41.53	14.78	34.48	18.72	107.3	88.65	23.15	9409

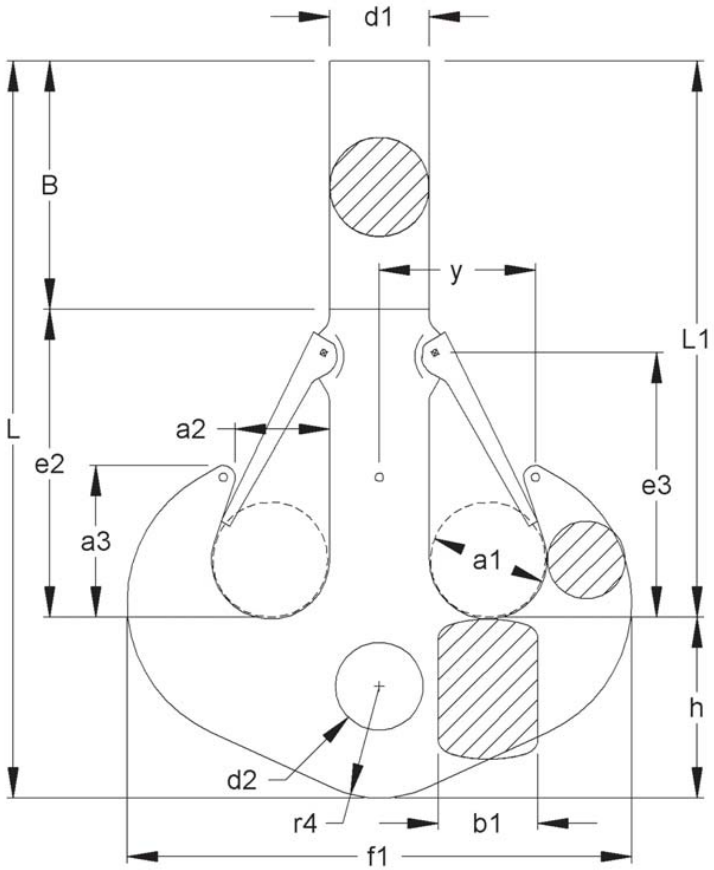
•Design factor is 5:1 •For dimensional tolerances and extended shank options see page 70 •Capacities listed are per DIN 15400 drive group 1Am, which generally reflect loading conditions for mobile crane applications. The 1Am drive group can generally be approximated to CMAA Specification No. 70, Service Class B. For application-specific information consult the relevant standard or contact Miller for assistance.

Crane Hooks
Duplex

MILLER LIFTING PRODUCTS

FORGED HOOKS- DUPLEX HOOK DIN 15402-B

Imperial Dimensions



Model Number	Capacity Short Tons Carbon Class P	Capacity Short Tons Alloy Class T	Capacity Short Tons Super Alloy Class V	a1	a2	a3	B	f1	b1	d2	e2	d1	e3	h	L	L1	r4	y	Weight Lbs.
GDB 10	22	35	44	3.55	2.80	4.57	8.67	14.85	2.96	2.92	9.06	2.96	7.56	5.12	22.85	17.73	3.35	4.63	90
GDB 12	28	44	55	3.94	3.15	5.12	10.17	16.59	3.35	3.07	9.93	3.35	8.27	5.91	26.00	20.09	3.74	5.22	126
GDB 16	35	55	69	4.41	3.55	5.75	11.66	18.56	3.74	3.39	11.19	3.74	9.34	6.70	29.55	22.85	4.17	5.85	181
GDB 20	44	69	88	4.93	3.94	6.42	13.08	20.92	4.18	3.78	12.53	4.18	10.44	7.49	33.10	25.61	4.65	6.52	254
GDB 25	55	88	110	5.52	4.41	7.17	13.67	23.56	4.65	4.18	14.89	4.65	12.41	8.35	36.52	28.17	5.2	7.29	353
GDB 32	69	110	138	6.30	4.93	8.08	15.29	26.48	5.20	4.57	15.84	5.20	13.20	9.30	40.42	31.13	5.9	8.16	505
GDB 40	88	138	176	7.09	5.52	9.06	17.14	29.71	5.91	5.16	17.73	5.91	14.78	10.44	45.31	34.87	6.7	9.18	728
GDB 50	110	176	220	7.88	6.30	10.24	18.16	33.17	6.70	5.75	19.86	6.70	16.55	11.82	49.84	38.02	7.48	10.44	1010
GDB 63	138	220	276	8.83	7.09	11.50	21.20	37.19	7.49	6.62	21.75	7.49	18.12	13.20	56.15	42.95	8.35	11.70	1407
GDB 80	176	276	353	9.85	7.88	12.81	24.31	41.84	8.35	7.41	24.35	8.35	20.29	14.78	63.43	48.66	9.29	13.04	1967
GDB 100	220	353	441	11.03	8.83	14.34	26.99	46.73	9.26	8.20	27.19	9.26	22.66	16.75	70.92	54.18	10.4	14.58	2751
GDB 125	276	441	551	12.41	9.85	16.08	30.57	52.40	10.44	9.26	30.50	10.44	25.41	18.72	79.79	61.07	11.8	16.33	3873
GDB 160	353	551	705	13.99	11.03	18.05	34.45	59.30	11.82	10.24	34.25	11.82	28.57	20.88	89.64	68.75	13.2	18.36	5512
GDB 200	441	705	882	15.76	12.41	20.29	40.82	66.39	13.20	11.11	37.83	13.20	31.52	23.64	100.8	77.22	14.8	20.59	7848
GDB 250	551	882	1102	17.73	13.99	22.85	47.05	74.27	14.78	12.29	41.54	14.78	34.48	26.40	113.4	87.07	16.7	23.15	11096

•Design factor is 5:1 •For dimensional tolerances and extended shank length options see page 70. •Hole tolerance +2%/-0
•Capacities listed are per DIN 15400 drive group 1Am, which generally reflect loading conditions for mobile crane applications. The 1Am drive group can generally be approximated to CMAA Specification No. 70, Service Class B. For application-specific information consult the relevant standard or contact Miller for assistance.

Crane Hooks
Tolerances

MILLER LIFTING PRODUCTS

DIN SHANK HOOKS- TOLERANCES & OPTIONAL LONG SHANKS

DIN

DIN SHANK HOOKS- TOLERANCES AND OPTIONAL EXTENDED LENGTH SHANKS

METRIC DIMENSIONS

Single hooks per DIN 15401

Single Hook Number	Long Shank Add Value to L1 (mm)
2.5	62
4	100
5	92
6	50
8	102
10 to 20	150
25 to 125	200
160 and 200	Per Order

Single Hook Number	Dimensional Tolerances (mm)									
	a1	a2	a3	b1	b2	d1	e3	h1	h2	L1
1.6 and 2.5	+3 / -0									
4 and 5	+4 / -0									
6 and 8	+5 / -0									
10 to 16	+6 / -0									
20	+8 / -0									
25 and 32	+12 / -0		+/- 10	+16 / -0		+12 / -0	+/- 10	+20 / -0		
40 to 63	+16 / -0		+/- 12	+20 / -0		+16 / -0	+/- 12	+24 / -0		
80 to 125	+20 / -0		+/- 16	+25 / -0		+20 / -0	+/- 16	+32 / -0		
160 to 200	+25 / -0		+/- 20	+32 / -0		+25 / -0	+/- 20	+40 / -0		

Duplex hooks per DIN 15402

Duplex Hook Number	Long Shank Add Value to L1 (mm)
6	115
8	120
10 and 12	110
16 and 20	N/A
25	150
32 to 160	200
200 and 250	Per Order

Duplex Hook Number	Dimensional Tolerances (mm)							
	a1	a2	a3	b1	d1	e	h	L1
6 and 8	+5 / -0							
10 to 16	+6 / -0							
20 and 25	+8 / -0							
32	+12 / -0		+/- 10	+16 / -0	+12 / -0	+5 / -0	+20 / -0	
40 to 63	+16 / -0		+/- 12	+20 / -0	+16 / -0	+6 / -0	+24 / -0	
80 to 125	+20 / -0		+/- 16	+25 / -0	+20 / -0	+8 / -0	+32 / -0	
160 to 250	+25 / -0		+/- 20	+32 / -0	+25 / -0	+10 / -0	+40 / -0	

IMPERIAL DIMENSIONS

Single hooks per DIN 15401

Single Hook Number	Long Shank Add Value to L1 (in)
2.5	2.44
4	3.94
5	3.62
6	1.97
8	4.02
10 to 20	5.91
25 to 125	7.88
160 and 200	Per Order

Single Hook Number	Dimensional Tolerances (inches)									
	a1	a2	a3	b1	b2	d1	e3	h1	h2	L1
1.6 and 2.5	+.12 / -0									
4 and 5	+.16 / -0									
6 and 8	+.2 / -0									
10 to 16	+.24 / -0									
20	+.32 / -0									
25 and 32	+.47 / -0		+/- .39	+.63 / -0		+.47 / -0	+/- .39	+.79 / -0		
40 to 63	+.63 / -0		+/- .47	+.79 / -0		+.63 / -0	+/- .47	+.95 / -0		
80 to 125	+.79 / -0		+/- .63	+.99 / -0		+.79 / -0	+/- .63	+1.26 / -0		
160 to 200	+.99 / -0		+/- .79	+1.26 / -0		+.99 / -0	+/- .79	+1.58 / -0		

Duplex hooks per DIN 15402

Duplex Hook Number	Long Shank Add Value to L1 (in)
6	4.53
8	4.73
10 and 12	4.33
16 and 20	N/A
25	5.91
32 to 160	7.88
200 and 250	Per Order

Duplex Hook Number	Dimensional Tolerances (inches)							
	a1	a2	a3	b1	d1	e	h	L1
6 and 8	+.2 / -0							
10 to 16	+.24 / -0							
20 and 25	+.32 / -0							
32	+.47 / -0		+/- .39	+.63 / -0	+.47 / -0	+.2 / -0	+.79 / -0	
40 to 63	+.63 / -0		+/- .47	+.79 / -0	+.63 / -0	+.24 / -0	+.95 / -0	
80 to 125	+.79 / -0		+/- .63	+.99 / -0	+.79 / -0	+.32 / -0	+1.26 / -0	
160 to 250	+.99 / -0		+/- .79	+1.26 / -0	+.99 / -0	+.39 / -0	+1.58 / -0	

Sheaves
Heavy Duty

MILLER
LIFTING PRODUCTS

HEAVY DUTY SHEAVES - CAST - REPLACEMENT PARTS



STANDARD SHEAVES
Miller Heavy Duty Sheaves are now available in newly-designed, wear-resistant, cast alloy steel for both **Miller Hi-Lift Standard Crane Blocks** and for **Miller Mobile Crane Blocks.**

Features of the new designs include a selection of D/d ratios by sheave diameter and wire rope size, a new shape for increased structural strength, more weight for today's higher and heavier overhaul requirements, and the ability to alter wire groove details to allow compliance with certain industry standards including API2C.

Miller Hi-Lift Blocks are furnished standard with new-design, cast alloy steel sheaves and with cylindrical roller bearings up to 20" diameter and with tapered roller bearings for 24" and larger diameters.

Miller Mobile Crane Blocks are furnished standard with new–design, cast alloy steel sheaves with full-complement cylindrical double roller bearings.

Cast alloy steel sheaves are available in standard sizes from 8" to 36" in diameter and are listed in the succeeding tables. Sheaves are available with bare bore, or with bearings or SAE 660 bronze bushings. Stainless steel versions of the sheaves in the following tables are also available. Available with grease fitting by request, lubrication through the sheave pin is recommended. Standard groove angle is 30° minimum and groove radii meet API requirements.

CUSTOM SHEAVES
Custom cast sheaves weighing up to 4 tons and to 120" diameter are available to your requirements. Roll-formed sheaves are produced to your requirements up to a diameter of 130". See the sheave request for quotation form in this section and specify cast or formed, or include your drawing. All sheaves can be manufactured to accommodate special requirements (e.g., API, ABS).





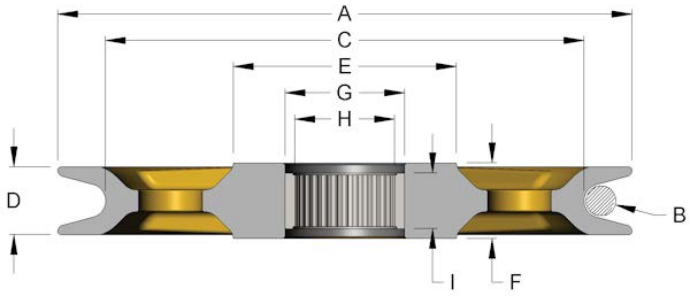
Sheaves
Heavy Duty

MADE IN USA

MILLER LIFTING PRODUCTS

HEAVY DUTY SHEAVES - CAST - REPLACEMENT PARTS

HI-LIFT BEARING TYPE ROLLER



A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	I (in.)	D/d RATIO	WEIGHT Lbs.
8	5/16	6.91	1.16	3.38	1.25	2.19	1.63	1.25	23	11
8	3/8	6.78	1.16	3.38	1.25	2.19	1.63	1.25	19	11
8	7/16	6.58	1.16	3.38	1.25	2.19	1.63	1.25	16	10
8	1/2	6.5	1.16	3.38	1.25	2.19	1.63	1.25	14	10
10	7/16	8.47	1.19	3.54	1.25	2.19	1.63	1.25	20	17
10	1/2	8.37	1.19	3.54	1.25	2.19	1.63	1.25	18	17
10	9/16	8.31	1.19	3.54	1.25	2.19	1.63	1.25	16	16
10	5/8	8.28	1.19	3.54	1.25	2.19	1.63	1.25	14	16
12	1/2	10.25	1.75	5.64	2	3.25	2.5	1.75	22	39
12	9/16	10.03	1.75	5.64	2	3.25	2.5	1.75	19	38
12	5/8	9.81	1.75	5.64	2	3.25	2.5	1.75	17	36
12	3/4	9.75	1.75	5.64	2	3.25	2.5	1.75	14	35
14	1/2	12.25	1.75	5.66	2	3.25	2.5	1.75	26	44
14	9/16	12.03	1.75	5.66	2	3.25	2.5	1.75	22	42
14	5/8	11.81	1.75	5.66	2	3.25	2.5	1.75	20	41
14	3/4	11.75	1.75	5.66	2	3.25	2.5	1.75	17	40
16	9/16	14.03	2	6.6	2.38	3.75	3	1.75	26	67
16	5/8	13.81	2	6.6	2.38	3.75	3	1.75	23	65
16	3/4	13.56	2	6.6	2.38	3.75	3	1.75	19	62
16	7/8	13.37	2	6.6	2.38	3.75	3	1.75	16	60
18	5/8	15.81	2.13	6.99	2.38	3.75	3	1.75	26	90
18	3/4	15.37	2.13	6.99	2.38	3.75	3	1.75	21	85
18	7/8	15.16	2.13	6.99	2.38	3.75	3	1.75	18	81
18	1	15	2.13	6.99	2.38	3.75	3	1.75	16	78
20	3/4	17.37	2.31	7.61	2.5	4.25	3.25	2	24	112
20	7/8	16.94	2.31	7.61	2.5	4.25	3.25	2	20	106
20	1	16.75	2.31	7.61	2.5	4.25	3.25	2	18	101
20	1-1/8	16.62	2.31	7.61	2.5	4.25	3.25	2	16	98
20	3/4	17.37	2.31	7.61	2.5	4.5	3.5	2	24	112
20	7/8	16.94	2.31	7.61	2.5	4.5	3.5	2	20	106
20	1	16.75	2.31	7.61	2.5	4.5	3.5	2	18	101
20	1-1/8	16.62	2.31	7.61	2.5	4.5	3.5	2	16	98

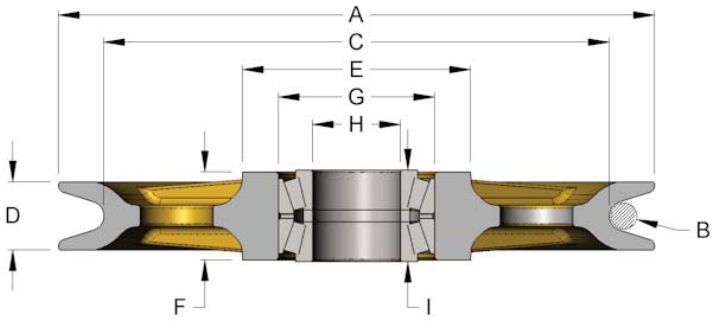
Sheaves
Heavy Duty

MADE IN USA

MILLER LIFTING PRODUCTS

HEAVY DUTY SHEAVES - CAST - REPLACEMENT PARTS

HI-LIFT BEARING TYPE TAPERED ROLLER



A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	I (in.)	D/d RATIO	WEIGHT Lbs.
24	7/8	20.94	2.75	9.18	3.56	6	3.5	3.625	25	200
24	1	20.5	2.75	9.18	3.56	6	3.5	3.625	22	189
24	1-1/8	20.34	2.75	9.18	3.56	6	3.5	3.625	19	185
24	1-1/4	20.25	2.75	9.18	3.56	6	3.5	3.625	17	182
30	1-1/8	25.63	3	8.03	3.63	7.19	5	3.688	22	176
30	1-1/4	25.63	3	8.03	3.63	7.19	5	3.688	21	171
30	1-3/8	25.63	3	8.03	3.63	7.19	5	3.688	20	166



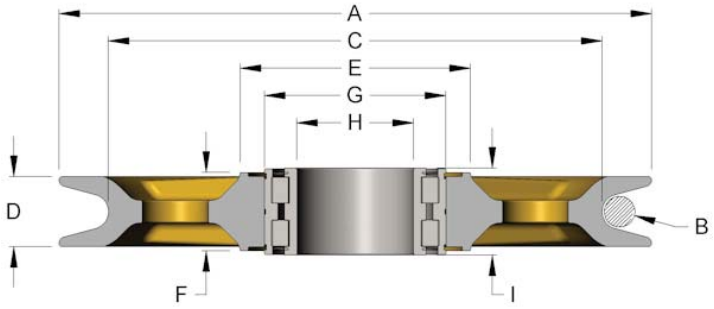
Sheaves
Heavy Duty

MADE IN USA

MILLER LIFTING PRODUCTS

HEAVY DUTY SHEAVES - CAST - REPLACEMENT PARTS

MCB BEARING TYPE FULL COMPLEMENT ROLLER



A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	I (in.)	D/d RATIO	WEIGHT Lbs.
10	7/16	8.47	1.5	4.7	1.75	3.54	2.17	1.81	20	23
10	1/2	8.37	1.5	4.7	1.75	3.54	2.17	1.81	18	23
10	9/16	8.17	1.5	4.7	1.75	3.54	2.17	1.81	16	22
10	5/8	8.12	1.5	4.7	1.75	3.54	2.17	1.81	14	21
12	1/2	10.25	1.75	5.64	2	4.33	2.76	2.13	22	38
12	9/16	10.03	1.75	5.64	2	4.33	2.76	2.13	19	37
12	5/8	9.81	1.75	5.64	2	4.33	2.76	2.13	17	35
12	3/4	9.75	1.75	5.64	2	4.33	2.76	2.13	14	34
14	1/2	12.25	1.75	5.66	2	4.33	2.76	2.13	26	43
14	9/16	12.03	1.75	5.66	2	4.33	2.76	2.13	22	41
14	5/8	11.81	1.75	5.66	2	4.33	2.76	2.13	20	40
14	3/4	11.75	1.75	5.66	2	4.33	2.76	2.13	17	38
16	9/16	14.03	2	6.61	2.25	5.12	3.35	2.36	26	65
16	5/8	13.81	2	6.61	2.25	5.12	3.35	2.36	23	63
16	3/4	13.56	2	6.61	2.25	5.12	3.35	2.36	19	60
16	7/8	13.37	2	6.61	2.25	5.12	3.35	2.36	16	57
18	5/8	15.81	2.13	6.99	2.38	5.51	3.54	2.64	26	88
18	3/4	15.37	2.13	6.99	2.38	5.51	3.54	2.64	21	83
18	7/8	15.16	2.13	6.99	2.38	5.51	3.54	2.64	18	79
18	1	15	2.13	6.99	2.38	5.51	3.54	2.64	16	76
20	3/4	17.37	2.31	7.61	2.5	5.91	3.94	2.64	24	109
20	7/8	16.94	2.31	7.61	2.5	5.91	3.94	2.64	20	103
20	1	16.75	2.31	7.61	2.5	5.91	3.94	2.64	18	98
20	1-1/8	16.62	2.31	7.61	2.5	5.91	3.94	2.64	16	95
24	7/8	20.94	2.75	9.2	3.11	7.09	4.72	3.15	25	185
24	1	20.5	2.75	9.2	3.11	7.09	4.72	3.15	22	174
24	1-1/8	20.34	2.75	9.2	3.11	7.09	4.72	3.15	19	170
24	1-1/4	20.25	2.75	9.2	3.11	7.09	4.72	3.15	17	167

Sheaves
Heavy Duty

MILLER LIFTING PRODUCTS

HEAVY DUTY SHEAVES - CAST - CUSTOM SHEAVES

REQUEST FOR QUOTATION

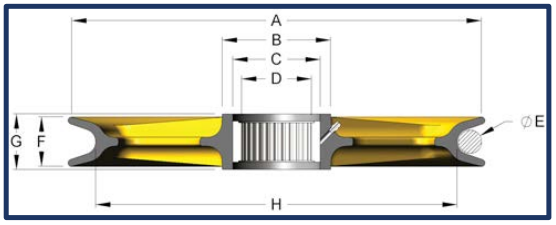
Name _____ Company _____ Date _____

Address _____

Telephone _____ Fax _____ E-mail _____

1. Specify type & quantity: Cast _____ Roll-formed _____ Quantity _____

2. Specify dimensions:



Outside diameter (A)	
Tread diameter (H)	
Shaft diameter (D)	
Rim width max (F)	
Hub O.D. (B)	
Hub Width (G)	
Hub bore dia. (C)	
Rope or chain size (E)	

3. Specific bearing type:

None, plain bore _____ Roller _____ Tapered roller _____ Composite _____ Bronze _____

4. Specify where applicable:

Base material _____ Finish _____

To industry standard _____

Special testing _____

Groove hardness _____ Third party inspection _____

Other _____

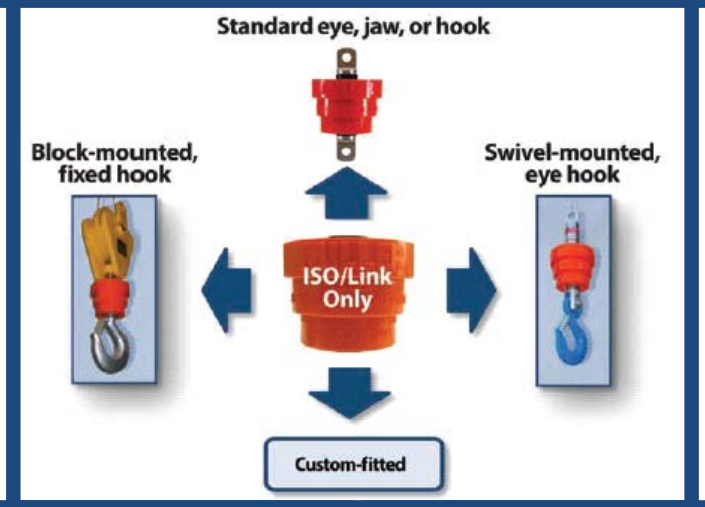
5. Fax, call or e-mail to:

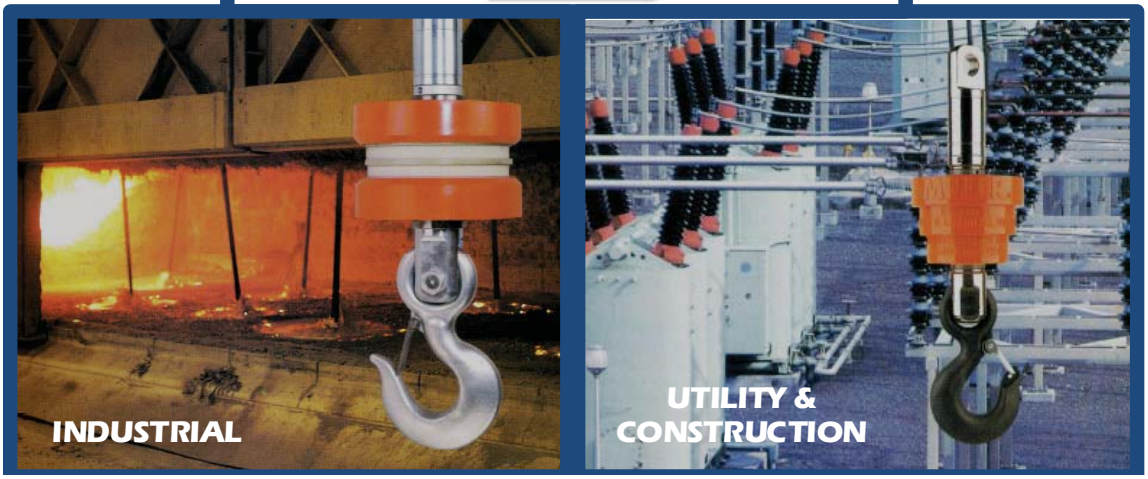
Insulating Links

MILLER
LIFTING PRODUCTS

INSULATING LINKS, ISO/LINK AC & DC







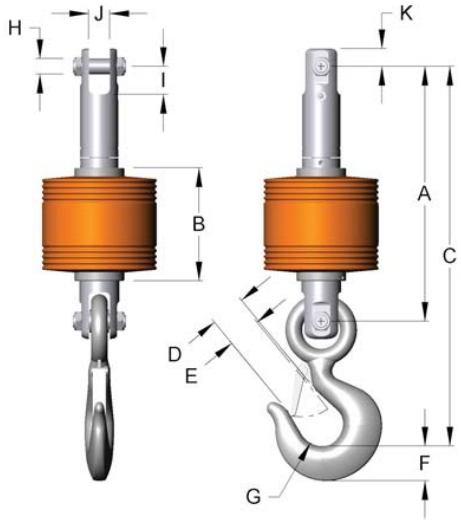
Insulating Hooks
Swiveling

MADE IN USA

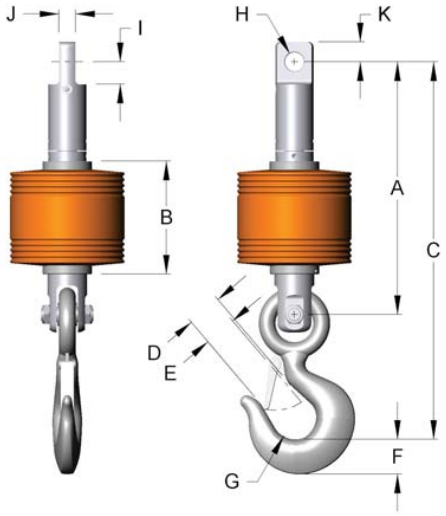
MILLER LIFTING PRODUCTS

INSULATING LINKS, SWIVELING, ISO/LINK-AC

CLEVIS TO HOOK – TYPE 1



EYE TO HOOK – TYPE 2



CLEVIS TO HOOK, SWIVELING - TYPE 1

WLL	Model Number	ROPE	A	B	C	D	E	F	G	H	I	J	K	WEIGHT	LINK DIA	SWIVEL
3	ML6C-1	1/2	13.03	6.13	18.44	1.47	1.36	1.44	2	0.75	1.19	0.75	0.94	25	7.38	C-113
5	ML6D-1	5/8	15	6.13	21.75	1.75	1.61	1.81	2.5	0.88	1.56	1	1.13	33	7.38	D-113
5	ML8D-1	5/8	17.38	8.5	24.75	1.75	1.61	1.81	2.5	0.88	1.56	1	1.13	77	8.63	D-113
8.5	ML8E-1	3/4	18.94	8.5	28.25	2.5	2.27	2.59	3.25	1.19	2.13	1.56	1.25	96	8.63	EE-113
10	ML8G-1	7/8	24	8.5	35.13	3.3	3.02	3.00	4.25	1.5	3.5	1.75	1.75	144	8.63	G-113
15	ML12GG-1	1	26	10.5	37.13	3.3	3.02	3.00	4.25	1.5	3.5	1.75	1.75	247	11.88	GG-113
25	ML12H-1	1-1/8	28.25	10.5	45.19	4	3.25	3.62	5	2	3.69	2	2.38	342	11.88	H-113
35	ML12.5HH-1	1-1/4	28.25	12.25	45.19	4.25	3	4.56	5.38	2	3.69	2	2.38	370	12.5	HH-113
45	ML12.5I-1		32	12.25	50.94	4.75	3.38	5.06	6	2.25	4	2.5	3.00	475	12.5	I-113
60	ML12.5JJ-1		32.25	12.25	55	5.75	4.12	6.00	7	2.5	4.5	3	3.50	620	12.5	JJ-113

* Design factor = 5:1 except for units 45T and higher where Design factor = 4:1 minimum

EYE TO HOOK, SWIVELING - TYPE 2

WLL	Model Number	ROPE	A	B	C	D	E	F	G	H	I	J	K	WEIGHT	LINK DIA	SWIVEL
3	ML6C-2	1/2	13	6.13	18.5	1.47	1.36	1.44	2	0.91	4	0.75	1.00	25	7.38	C-213
5	ML6D-2	5/8	14.94	6.13	21.69	1.75	1.61	1.81	2.5	1.28	1.31	1.00	1.19	33	7.38	D-213
5	ML8D-2	5/8	17.31	8.5	24.69	1.75	1.61	1.81	2.5	1.28	1.31	1	1.19	77	8.63	D-213
8.5	ML8E-2	3/4	18.75	8.5	28.06	2.5	2.27	2.59	3.25	1.41	1.63	1.25	1.50	96	8.63	EE-213
10	ML8G-2	7/8	23.94	8.5	36.06	3.3	3.02	3.00	4.25	1.66	2.84	1.75	1.81	144	8.63	G-213
15	ML12GG-2	1	25.94	10.5	37.06	3.3	3.02	3.00	4.25	2.03	2.84	2	2.13	247	11.88	GG-213
25	ML12H-2	1-1/8	28.25	10.5	45.19	4	3.25	3.62	5	2.31	2.88	2.25	2.38	342	12.5	H-213
35	ML12.5HH-2	1-1/4	28.25	12.25	45.19	4.25	3	4.56	5.38	2.31	2.88	2.25	2.38	370	12.5	HH-213
45	ML12.5I-2		32	12.25	50.94	4.75	3.38	5.06	6	2.53	3.5	2.5	3.00	475	12.5	I-213
60	ML12.5JJ-2		32.25	12.25	55	5.75	4.12	6.00	7	2.88	4	2.5	3.5	620	12.5	JJ-213

* Design factor = 5:1 except for units 45T and higher where Design factor = 4:1 minimum

Rated maximum voltage 25KVAC (dry); operating temperature -50° to 150°F.

Link cleanliness is very important. Electrical performance degrades when surface is dirty. See maintenance instructions. Use of an insulating link is one of a number of measures required for comprehensive power line safety. Use of an insulating link. Alone, in absence of other required measures is not acceptable. See 29 CFR Part 1926 for the latest OSHA requirements.

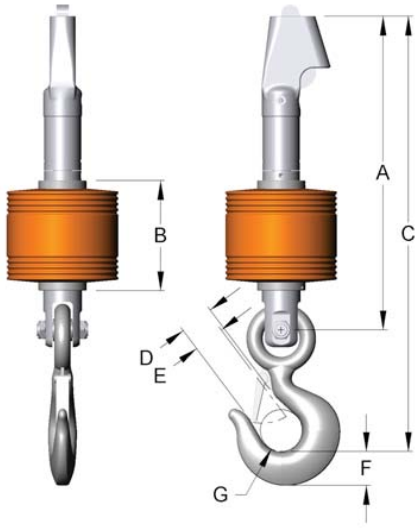
Insulating Hooks
Swiveling

MADE IN USA

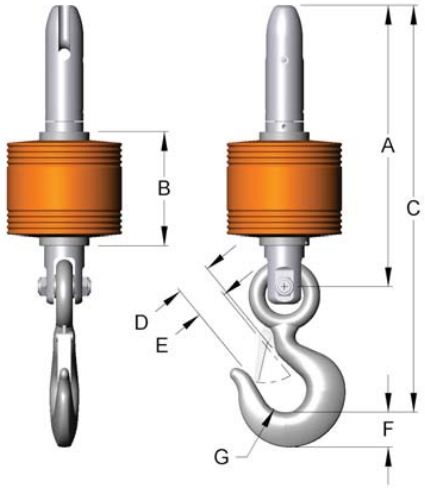
MILLER LIFTING PRODUCTS

INSULATING LINKS, SWIVELING, ISO/LINK-AC

WEDGE TO HOOK – TYPE 3



THIMBLE TO HOOK – TYPE 4



WEDGE TO HOOK, SWIVELING - TYPE 3

WLL	Model Number	ROPE	A	B	C	D	E	F	G	WEIGHT	LINK DIA	SWIVEL
3	ML6C-3	1/2	17.19	6.13	22.56	1.47	1.36	1.44	2	27	7.38	C-713
5	ML6D-3	1/2, 5/8	19.63	6.13	27.94	1.75	1.61	1.81	2.5	36	7.38	D-713
5	ML8D-3	1/2, 5/8	22	8.5	29.38	1.75	1.61	1.81	2.5	80	8.63	D-713
8.5	ML8E-3	1/2, 5/8, 3/4	23.94	8.5	33	2.5	2.27	2.59	3.25	102	8.63	E-713
10	ML8G-3	3/4, 7/8, 1	27.75	8.5	38.88	3.3	3.02	3.00	4.25	151	8.63	G-713
10	ML12GG-3	3/4, 7/8, 1	29.75	10.5	40.88	3.3	3.02	3.00	4.25	254	11.88	GG-713

* Design factor = 5:1 except for units 45T and higher where Design factor = 4:1 minimum

THIMBLE TO HOOK, SWIVELING - TYPE 4

WLL	Model Number	ROPE	A	B	C	D	E	F	G	WEIGHT	LINK DIA	SWIVEL
3	ML6C-4	1/2	14.84	6.13	20.25	1.47	1.36	1.44	2	26	7.38	C-413
5	ML6D-4	5/8	16.38	6.13	24.81	1.75	1.61	1.81	2.5	34	7.38	D-613
5	ML8D-4	5/8	16	8.5	23.38	1.75	1.61	1.81	2.5	78	8.63	D-613
8.5	ML8E-4	3/4	20.69	8.5	30	2.5	2.27	2.59	3.25	98	8.63	E-813
10	ML8G-4	7/8	25.5	8.5	36.63	3.3	3.02	3.00	4.25	148	8.63	G-613
15	ML12GG-4	1	27.5	10.5	38.63	3.3	3.02	3.00	4.25	251	11.88	GG-613

* Design factor = 5:1 except for units 45T and higher where Design factor = 4:1 minimum

Rated maximum voltage 25KVAC (dry); operating temperature -50° to 150°F.

Link cleanliness is very important. Electrical performance degrades when surface is dirty. See maintenance instructions. Use of an insulating link is one of a number of measures required for comprehensive power line safety. Use of an insulating link. Alone, in absence of other required measures is not acceptable. See 29 CFR Part 1926 for the latest OSHA requirements.

Electric Winches

MADE IN USA

MY-TE WINCH–HOISTS

Utility Capstan Electric Winch-Hoist 300AB

Features

- **800-lb single-line or 1,600-lb double-line lift**
- Trifecta system 115 Volt brake motor with triple brake system for instant stopping
- Worm gear reduction for positive load holding
- Portable and rugged
- Low voltage 10' pendant hand or foot control
- Capstan rope drum
- Frictionless bearings

Applications

All My-te winches and hoists are designed for material handling usage only.

Overhead line crews

Tower and antenna erection

Transformer replacement



Shown here with foot control.

Electric Winches

MADE IN USA

MY-TE WINCH–HOISTS

Utility Capstan Electric Winch-Hoist 300AB

Construction Features:
- Heavy-duty angle base drilled for four 1/2" bolts (9/16" mounting holes) with no welding required
- Fully sealed aluminum housings, with precision-cut gears, run in an oil bath
- Hardened steel worm and forged bronze worm gear holds load in position when stopped.
- Stress-proof drum shaft
- Frictionless bearings
- 286:1

Hoisting Rope:
Consult your local dealer for type and size of rope. Maintain at least three wraps of rope on capstan drum when in use. Heavier loads may require four wraps of rope.

Power:
- Universal 18,500 RPM reversible 1.25 HP brake motor (no-load speed)
- 15' power cord plugs into any 115 Volt AC grounded outlet
- 6 amp – No load
- 20 amp – Full load

Speeds:
- 59 FPM: No-load drum speed
- 30 FPM: 500 lbs

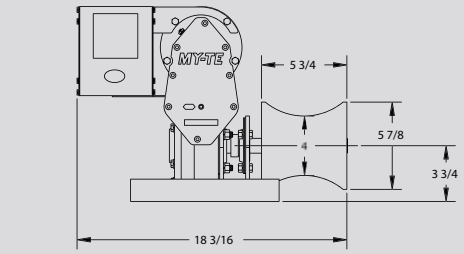
Duty Cycle:
- 25% – 15 min/hr when operating at full load.

Shipping Weight: 69 lbs

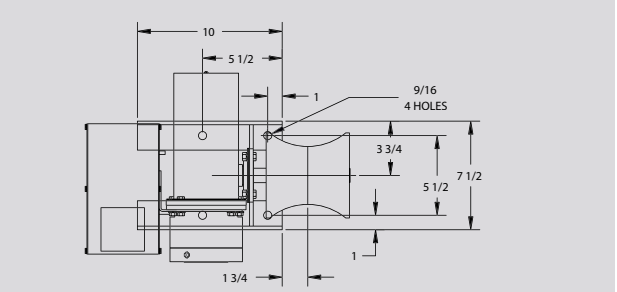
Factory-Installed Options:
- Foot switch
- 230 Volt
- Pole mount
- Swivel mount
- Variable speed
- Receiver hitch mount

For custom design and application assistance of a My-te winch-hoist, see your My-te distributor

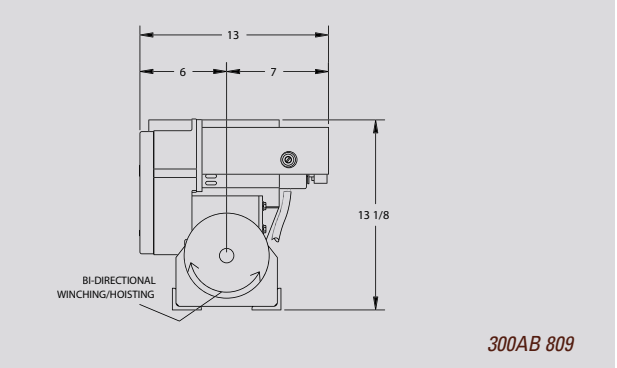
FRONT VIEW



TOP VIEW



SIDE VIEW



300AB 809

Electric Winches

Also Available For Rent

MADE IN USA

MY-TE WINCH–HOISTS

Standard Electric Winch-Hoist 100AB

Features

- **1,000-lb single-line or 2,000-lb double-line lift**
- Trifecta system 115 Volt brake motor with triple brake system for instant stopping
- Worm gear reduction for positive load holding
- Rugged construction
- Low voltage 10' pendant control
- High-capacity cable drum
- Frictionless bearings

Applications

All My-te winches and hoists are designed for material handling usage only.

Pull rolling loads up to 25,000 lbs

Multiple-story construction site work

Long-lift applications

Tower erection and maintenance

Easily portable from job to job



Electric Winches

MADE IN USA

MY-TE WINCH–HOISTS

Standard Electric Winch-Hoist 100AB

Construction Features:
- Heavy-duty angle base drilled for six 1/2" bolts (9/16" mounting holes) with no welding required
- Fully sealed aluminum housings, with precision-cut gears, run in an oil bath
- Hardened steel worm and forged bronze worm gear holds load in position when stopped
- Stress-proof drum shaft
- Frictionless bearings
- 286:1 total reduction

Power:
- Universal 18,500 RPM reversible 1.25 HP brake motor (no-load speed)
- 15' power cord plugs into any 115 Volt AC grounded outlet
- 6 amp – No load
- 14 amp – Full load

Lifting Capacity:
- 1,000 lbs – 1-2 layers of cable (39' of 1/4" cable)
- 850 lbs – 3 layers of cable (65' of 1/4" cable)
- 600 lbs – full drum of cable (250' of 1/4" cable)

Pulling Capacity–Rolling Load:
My-te winch-hoists are rated at the vertical lifting capacity. The chart below represents the weight of a rolling load that may be pulled up a given incline. This chart is for reference only. All capacities are reduced to allow for nominal friction factors.

Incline	Max Load Weight (lbs.)
• 0% – (0°)	25,000
• 10% – (6°)	8,000
• 20% – (11°)	4,000
• 40% – (22°)	2,100
• 60% – (31°)	1,500
• 80% – (39°)	1,300
• 100% – (45°)	1,100

Speeds:
- 59 RPM: No-load drum speed
- 30 FPM: No-load drum speed
- 25 FPM: 500 lbs – single-line lift
- 20 FPM: 1,000 lbs – single-line lift
- 10 FPM: 2,000 lbs – double-line lift

Note: All speeds are based on one layer of cable on drum.

Drum Storage:
Model No. 100AB
- 1/8" – 1,000'
- 1/4" – 250'
- 3/16" – 450'
- 5/16" – 150'

For best results, use the minimum amount of cable required for application. Maintain four wraps of cable on the drum at all times. Cable sold separately. Length and size must be specified at time of order.

Cable Strength:
- Safe working load is 20% of breaking strength
- Top-quality galvanized cable available in the following breaking strengths:
  1/8" – 2,000 lbs 1/4" – 7,000 lbs
  3/16" – 4,200 lbs 5/16" – 9,800 lbs

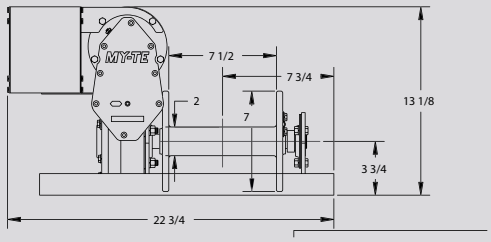
Duty Cycle:
- 25% – 15 min/hr when operating at full load

Shipping Weight: 76 lbs

Factory-Installed Options:
- 230 Volt
- Clutch
- Limit switch
- Hand crank
- Alternate drums
- Upside-down mounting
- Variable speed
- High speed gears

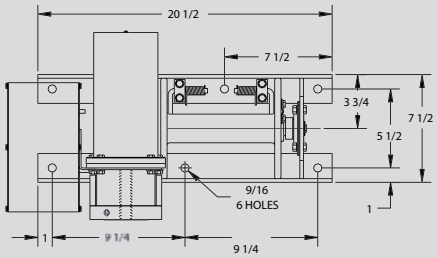
For custom design and application assistance of a My-te winch-hoist, see your My-te distributor

FRONT VIEW

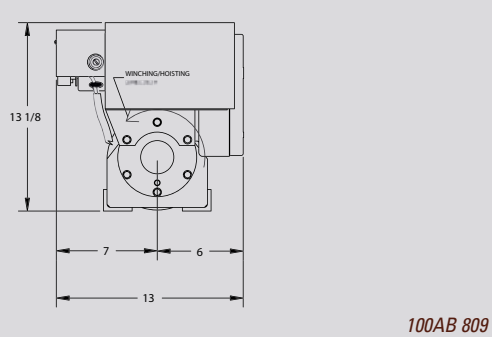


*On model 150AB drum size is 4 1/2", overall length is 18 3/4".

TOP VIEW



SIDE VIEW



100AB 809

Electric Winches

MADE IN USA

MY-TE WINCH–HOISTS

Max Electric Winch-Hoist AC36B

Features

- **3,000-lb single-line or 6,000-lb double-line lift**
- Trifecta system 115 Volt brake motor with triple brake system for instant stopping
- Worm gear reduction for positive load holding
- Compact, heavy-duty construction
- Low voltage 10' pendant control
- Full power reversible
- Cable tensioner for better cable tracking

Applications

All My-te winches and hoists are designed for material handling usage only.

Heavy-duty lifting
Ideal for in-plant use
Moving equipment
Lifting motors and heavy apparatus
Installation of elevator equipment



Electric Winches

MADE IN USA

MY-TE WINCH–HOISTS

Max Electric Winch-Hoist AC36B

Construction Features:
- Heavy-duty base drilled for six 1/2" bolts (9/16" mounting holes) with no welding required
- Fully sealed aluminum housings, with precision-cut gears, run in an oil bath
- First reduction combines spur gears with hardened steel worm and forged bronze worm gear system. Holds load in position when stopped.
- Second reduction uses hardened heavy-duty spur gears
- Gear guard encloses external gear reduction
- Frictionless bearings
- 1430:1 double reduction

Power:
- Universal 18,500 RPM reversible 1.25 HP brake motor (no-load speed)
- 15' power cord plugs into any 115 Volt AC grounded outlet
- 6 amp – No load
- 14 amp – Full load

Lifting Capacity:
- 3,000 lbs – 1-2 layers of cable (54' of 5/16" cable)
- 2,650 lbs – 3 layers of cable (100' of 5/16" cable)
- 2,150 lbs – full drum of cable (160' of 5/16" cable)

Pulling Capacity–Rolling Load:
My-te winch-hoists are rated at the vertical lifting capacity. The chart below represents the weight of a rolling load that may be pulled up a given incline. This chart is for reference only. All capacities are reduced to allow for nominal friction factors.

Incline	Max Load Weight (lbs.)
• 0% – (0°)	75,000
• 10% – (6°)	24,000
• 20% – (11°)	12,200
• 40% – (22°)	6,400
• 60% – (31°)	4,600
• 80% – (39°)	3,800
• 100% – (45°)	3,300

Speeds:
- 11 RPM: No-load drum speed
- 11 FPM: No-load drum speed
- 9 FPM: 1,000 lbs – single-line lift
- 7.25 FPM: 3,000 lbs – single-line lift
- 3.5 FPM: 6,000 lbs – double-line lift

Note: All speeds are based on one layer of cable on drum.

Drum Storage:
- 1/4" – 250'
- 5/16" – 160'
- 3/8" – 110'

For best results, use the minimum amount of cable required for application. Maintain four wraps of cable on the drum at all times. Cable sold separately. Length and size must be specified at time of order.

Cable Strength:
- 5-1 recommended safety factor
- Top-quality galvanized cable available in the following breaking strengths:
  1/4" – 7,000 lbs
  5/16" – 9,800 lbs
  3/8" – 14,400 lbs

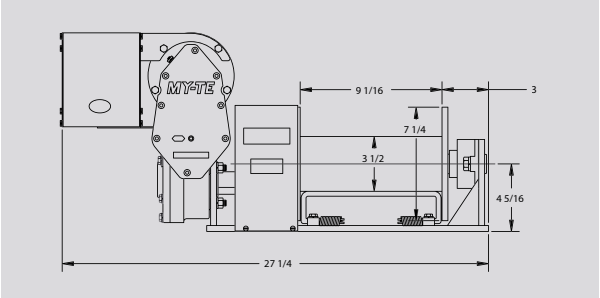
Duty Cycle:
- 25% – 15 min/hr when operating at full load

Shipping Weight: 132 lbs

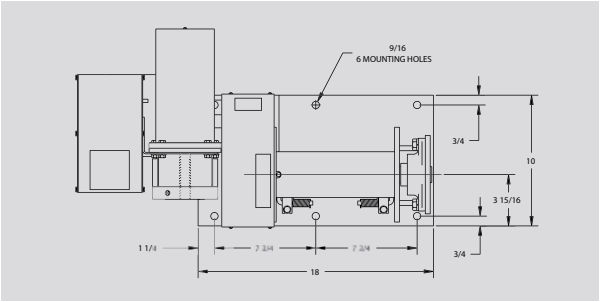
Factory-Installed Options:
- 230 Volt
- Clutch
- Upside-down mounting
- Model DC48 (12V DC power)
- Divided drum

For custom design and application assistance of a My-te winch-hoist, see your My-te distributor

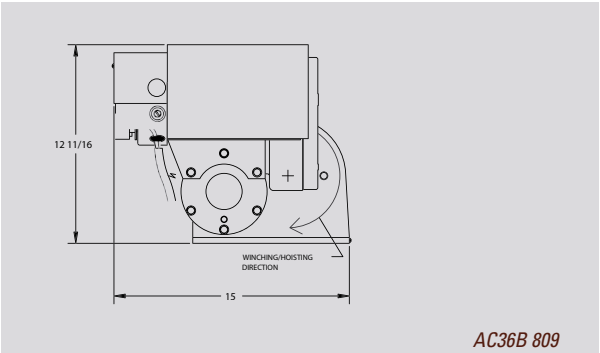
FRONT VIEW



TOP VIEW



SIDE VIEW



AC36B 809

Rigging

Electric Winches
Accessories

MADE IN USA

MY-TE WINCH–HOISTS

Accessories



Cable Guides

Part No. 148320
- Standard Model Nos. 10-12, 100AB

Part No. 148310
- Max Model Nos. AC36B, DC48 (factory-installed)

A must for pulling at angles away from the winch drum. Cable guide ensures that cable is pulled around to wind on drum. Two vertical, two horizontal rollers mounted on a sturdy welded frame. Easily bolts to any surface. Reduces cable and drum flange wear.

Cable and Fittings

Hook with safety latch—
complete and installed on cable:

Part No. 828020
- 1/8", 3/16", 1/4" cable sizes
- One-ton hook

Part No. 828060
- 1/8", 3/16", 1/4" cable sizes
- One-ton swivel hook

Part No.	Description	Breaking Strength
821010	1/8" 7 x 19 Preformed galvanized aircraft cable	2,000 lbs
821020	3/16" 7 x 19 Preformed galvanized aircraft cable	4,200 lbs
821030	1/4" 7 x 19 Preformed galvanized aircraft cable	7,000 lbs
828010	Standard cable hook with safety latch – 1-ton rated capacity	
828050	Swivel hook and safety latch – 1-ton rated capacity	
828110	Eye installed with nicopress – 1/8", 3/16", 1/4" cable sizes	
828210	Cable assembly 1/4" x 50' with 1-ton hook	
828220	Cable assembly 1/4" x 125' with 1-ton hook	
828230	Cable assembly 1/4" x 250' with 1-ton hook	
828240	Cable assembly 5/16" x 100' with 1-ton hook	
828250	Cable assembly 5/16" x 150' with 1-ton hook	
828260	Cable assembly 3/8" x 50' with 1.5-ton hook	
828270	Cable assembly 3/8" x 110' with 1.5-ton hook	

Any cable purchased with a My-te winch-hoist is wrapped on the drum at no extra cost.

Electric Winches
Accessories

MADE IN USA

MY-TE WINCH–HOISTS

Accessories



Sheave Blocks

Available for double-line lifting or pulling operations. All blocks come with a safety hook and pin for easy sheave removal.

Part No.	Description	Use on Winch Model
818010	Medium-duty combination block 2,000-lb capacity	10-12, 100AB, standard on 800AB
818020	Heavy-duty block 6,000-lb capacity	AC36B, DC48
818040	4" sheave mounting bracket assembly	
811010	4" sheave – 1/2" bore – bronze bushed	
811020	6" sheave – 3/4" bore – bronze bushed	



Electrical Accessories

Part No.	Description	Use on Winch Model
518330	Heavy-duty contactor panel	100AB, AC36B
538143	Key wall switch - 3 wire 1 pair switches on single face plate	12 Volt, 500, limit switch models
538154	Key wall switch - 4 wire 1 pair switches on single face plate	115 Volt only (100AB standard)
541010	Switch cord, 3 wire, up to 250'	All 12 Volt, limit switch models
541020	Switch cord, 4 wire, up to 250'	100AB, AC36B
541030	Power cord, 3 wire, 14 ga.	All 115 Volt AC models
563011	Heavy-duty resistor	100AB, AC36B



Trolley Wheels

Part No. 154010

- Capacity 300 lbs at 100 FPM
- For 4" I-beams

Part No. 154020

- Heavy-duty
- Capacity 700 lbs at 100 FPM
- For 6" or larger I-beams

ACCESS 809

Battery Winches

MADE IN USA

MY-TE WINCH–HOISTS

Standard Battery Powered Winch-Hoist 10-12

Features

- **1,250-lb single-line or 2,500-lb double-line lift**
- Worm gear reduction for positive load holding
- Rugged construction
- 12 Volt permanent magnet motor
- 10' pendant control
- High-capacity cable drum
- Frictionless bearings
- Full power reversible
- Freewheeling clutch

Applications

All My-te winches and hoists are designed for material handling usage only.

Operates off truck battery
Pull rolling loads up to 30,000 lbs
Mounts on trucks or trailers
Long-lift applications
Easily portable from job to job



Battery Winches

MADE IN USA

MY-TE WINCH–HOISTS

Standard Battery Powered Winch-Hoist 10-12

Construction Features:
- Heavy-duty angle base drilled for six 1/2" bolts (9/16" mounting holes) with no welding required
- Fully sealed aluminum housings, with precision-cut gears, run in an oil bath
- Hardened steel worm and forged bronze worm gear holds load in position when stopped
- Stress-proof drum shaft
- Frictionless bearings
- 175:1

Power:
- Reversible permanent magnet 12 Volt DC motor
- 10 amp – No-load
- 100 amp – Full-load

Lifting Capacity:
- 1,250 lbs – 1-2 layers of cable (39' of 1/4"cable)
- 1,050 lbs – 3 layers of cable (65' of 1/4" cable)
- 750 lbs – full drum of cable (250' of 1/4" cable)

Pulling Capacity–Rolling Load:
My-te winch-hoists are rated at the vertical lifting capacity. The chart below represents the weight of a rolling load that may be pulled up a given incline. This chart is for reference only. All capacities are reduced to allow for nominal friction factors.

Incline	Max Load Weight (lbs.)
0% – (0°)	30,000
10% – (6°)	10,000
20% – (11°)	5,000
40% – (22°)	2,600
60% – (31°)	1,900
80% – (39°)	1,600
100% – (45°)	1,400

Speeds:
- 20 RPM: No-load drum speed
- 10 FPM: No-load drum speed
- 9 FPM: 1,250 lbs – single-line lift
- 5 FPM: 2,500 lbs – double-line lift

Note: All speeds are based on one layer of cable on drum.

Drum Storage:
- 1/8" – 1,000'
- 1/4" – 250'
- 3/16" – 450'
- 5/16" – 160'

For best results, use the minimum amount of cable required for application. Maintain four wraps of cable on the drum at all times. Cable sold separately. Length and size must be specified at time of order.

Cable Strength:
- Safe working load is 20% of breaking strength
- Top-quality galvanized cable available in the following breaking strengths:
  1/8" – 2,000 lbs 1/4" – 7,000 lbs
  3/16" – 4,200 lbs 5/16" – 9,800 lbs

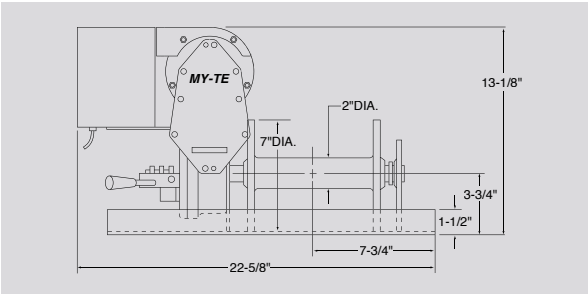
Duty Cycle:
- 25% – 15 min/hr when operating at full load

Shipping Weight: 74 lbs

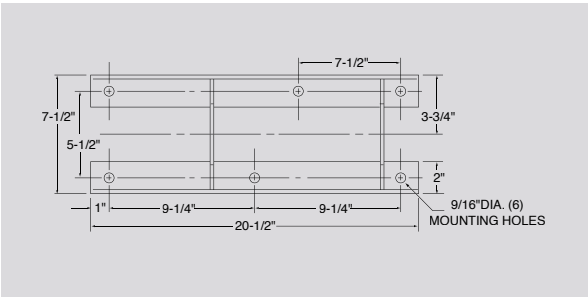
Factory-Installed Options:
- No clutch
- High speed gears
- Hand crank
- Upside-down mounting
- Alternate drums

For custom design and application assistance of a My-te winch-hoist, see your My-te distributor

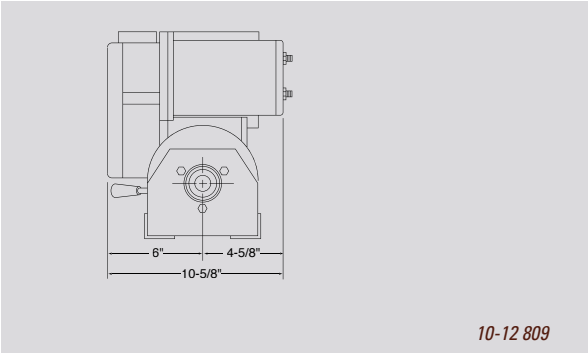
FRONT VIEW



TOP VIEW



SIDE VIEW



Rigging

Winches
Technical Data

MADE IN USA

MY-TE WINCH–HOISTS

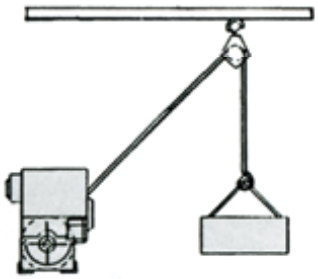
Capacity of Units by Layer

The load capacity of a winch-hoist is in relation to the amount of cable on the drum at the point of lift. The more cable on the drum, the less the effective weight that can be lifted without creating a possible overload condition on the unit. Use only the amount of cable required by the application. Maintain a minimum of four wraps of cable on the drum at all times.

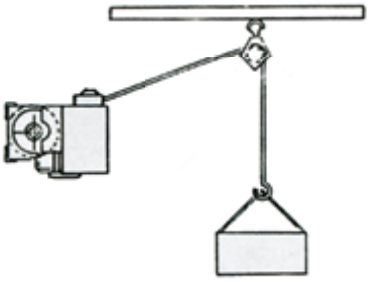
Layers of Cable	Model Capacities	10-12		100AB/500 & 800AB		AC36B & DC48		HY1D & 520	
		lbs	ft (1/4")	lbs	ft (1/4")	lbs	ft (5/16")	lbs	ft (1/4")
Layer 1-2		1,250	50	1,000	50	3,000	50	1,500	50
Layer 3		1,050	65	850	65	2,650	100	1,275	65
Layer - Full		750	250	600	250	2,150	161	900	250

Illustration of Single-Line Lifts

Base Mount



Bulkhead or Wall Mount



Overhead Mount

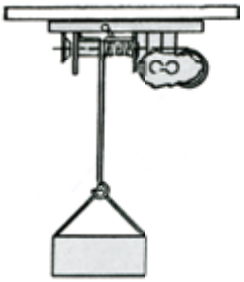
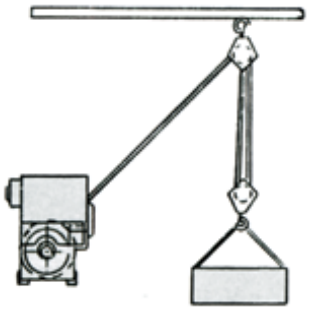
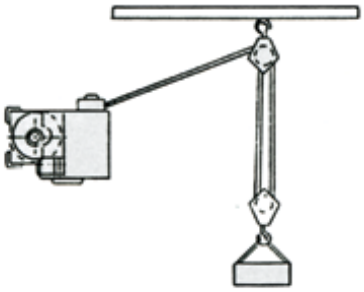


Illustration of Double-Line Lifts

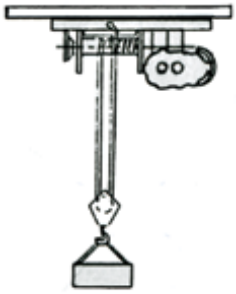
Base Mount



Bulkhead or Wall Mount



Overhead Mount



My-te Winch-Hoist Pull Capacities* on Inclines (% of Incline/Degree of Angle) in Pounds

Model	0% (0°)	10% (6°)	20% (11°)	40% (22°)	60% (31°)	80% (39°)	100% (45°)
	—	1' / 10'	2' / 10'	4' / 10'	6' / 10'	8' / 10'	10' / 10'
10-12	30,000	10,039	5,096	2,692	1,943	1,600	1,414
100AB	25,000	8,031	4,076	2,154	1,554	1,280	1,131
AC36B	75,000	24,093	12,230	6,462	4,664	3,841	3,394
DC48	75,000	24,093	12,230	6,462	4,664	3,841	3,394

Cargo Control
Chains & Binders

CARGO CONTROL USA
COMPLETE CARGO CONTROL SOLUTIONS
STRAPS, CHAINS, BINDERS & WINCH PRODUCTS



BULK CHAIN

BINDER CHAINS

LEVER BINDERS

RATCHET BINDERS

CHAIN ACCESSORIES



Lever Binder



Light Duty
19LB-LT



Ratchet Binder

Lever Binders

Part Number	Chain Size	Capacity
19LB-1/4	1/4 to 5/16	2,600 LB
19LB-3/8	5/16 to 3/8	5,400 LB
19LB-3/8HD	5/16 to 3/8	6,600 LB
19LB-1/2	3/8 to 1/2	9,200 LB
19LB-5/8	1/2 to 5/8	13,000 LB
19LB-LT	Cable, Rope or1/4" Chain	375 LB

Ratchet Binders

Part Number	Chain Size	Capacity
19RB-1/4	1/4 to 5/16	2,600 LB
19RB-3/8	5/16 to 3/8	5,400 LB
19RB-3/8HD	5/16 to 3/8	6,600 LB
19RB-1/2	3/8 to 1/2	9,200 LB
19RB-1/2EH	3/8 to 1/2	9,200 LB
19RB-5/8	1/2 to 5/8	13,000 LB

Grade 43 High Test Chain ** *Do not exceed workload limits. Not to be used for overhead lifting.*

Grade 43 is more suitable than Grade 30 for heavy duty trucking, major construction activities and logging applications. Finishes available: self colored, zinc plated or hot galvanized. Other lengths available.

Part Number	Pcs/Drum	Lbs /Piece	Maximum WLL
G43-5/16X20	25	23	3,900 LB
G43-5/16X25	20	28	3,900 LB
G43-3/8X20	20	34	5,400 LB
G43-3/8X25	15	42	5,400 LB

Grade 70 Transport Chain ** *Do not exceed workload limits. Not to be used for overhead lifting.*

Special High Carbon steel chain with greater practical strength-to-weight ratio. Grade 70 chain is suitable for use in towing, construction, logging and farm applications. Finish: yellow chromate. Other lengths are available.

Part Number	Pcs/Drum	Lbs /Piece	Maximum WLL
G70-5/16X16	35	19	4,700 LB
G70-5/16X20	25	23	4,700 LB
G70-5/16X25	20	28	4,700 LB
G70-3/8X20	20	34	6,600 LB
G70-3/8X25	15	42	6,600 LB
G70-1/2X20	10	50	11,300 LB

Grade 80 Alloy Chain and Grade 100 Alloy Chain

Special Heat Treated alloy steel chain specifically designed for overhead lifting. Finishes available: self colored, zinc plated or hot galvanized. **MUST SPECIFY "TAGGED FOR OVERHEAD LIFTING"

*All chains are manufactured to NACM & DOT specifications

Represented in this catalog are our most popular items. Please contact our sales department for additional information on products you may not see listed.

Hooks & Fittings



Screw Pin
Anchor Shackle



Lap Links



Grade 80
Sling Hooks



Cold Shut



Quick Link



Slip Hook



Slip Hook
w/ Latch



Grab Hook



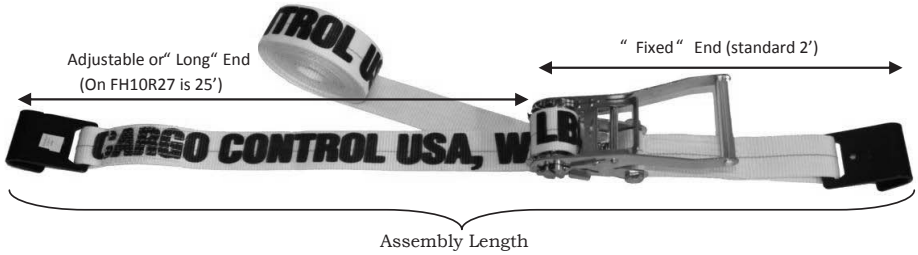
Double Clevis

Cargo Control
2” Ratchet Straps

CARGO CONTROL USA
COMPLETE CARGO CONTROL SOLUTIONS
STRAPS, CHAINS, BINDERS & WINCH PRODUCTS

HEAVY DUTY RATCHET ASSEMBLIES

Anatomy of a Ratchet Strap Assembly:



Assembly Length
Example shown is FH10R27 – 27’ Long

Part Numbers shown here represent the “popular sizes”. We can manufacture to any length. Call for more information.

2” Heavy Duty Ratchet Assemblies (Standard Lengths 27’ & 30’ – also offered 10’ to 50’) **10/Case**

Part Number	Length	Break Strength	WLL	End Fittings	
FH6R27 FH6R30	27’ 30’	6,000 LB	2,000 LB		6M2FH – 2” Narrow Flat Hook
FH10R27 FH10R30	27’ 30’	10,000 LB	3,333 LB		10M2FH – 2” Flat Hook w/ Protector Clip
JH10R27 JH10R30	27’ 30’	10,000 LB	3,333 LB		10M2J – 2” Wire J Hook
CG10R27 CG10R30	27’ 30’	10,000 LB	3,333 LB		10M2CG – 2” Chain & Grab
DR10R27 DR10R30	27’ 30’	10,000 LB	3,333 LB		10M2D – 2” Delta Ring
GH10R27 GH10R30	27’ 30’	10,000 LB	3,333 LB		10M2GH – Grab Hook
FSH10R27 FSH10R30	27’ 30’	10,000 LB	3,333 LB		10M2FSH – 2” Flat Snap Hook
TSH10R27 TSH10R30	27’ 30’	10,000 LB	3,333 LB		10M2TSH – 2” Twisted Snap Hook

Cargo Control Assembly Part Numbers: FH10R27 FH(Hardware) 10(Capacity) R(Ratchet) 27(Length)
Example - JH10R15 Would be a J Hook, 10,000LB Ratchet Strap 15’ Long

Standard 2” ratchet assemblies are made with 10,000LB long, wide handle ratchets and 12,000LB yellow webbing. Alternate colors and capacities of webbing are available. Our straps are designed and manufactured in Sanford, North Carolina; allowing us to fully customize our products to meet the needs of the market(s) served by our dealers. All assemblies are manufactured & clearly tagged to meet or exceed DOT & FMCSA specifications and backed by the best warranty in the industry today.

- *WLL of Working Load Limit by Industry Standards is 1/3 of the Rated Capacity*
- *Ultimately, it is the responsibility of the operator to determine the correct product for their application*
- *A Strap assembly is only as strong as its weakest component* ***(this INCLUDES the point of attachment!)***
- *Some items are available as complete import assemblies; Available upon request*

Cargo Control
3”-4” Ratchet Straps

CARGO CONTROL USA
COMPLETE CARGO CONTROL SOLUTIONS
STRAPS, CHAINS, BINDERS & WINCH PRODUCTS

HEAVY DUTY RATCHET ASSEMBLIES



Standard 3” ratchet assemblies are made with 18,000LB yellow webbing. Standard for the 4” assemblies is 20,000LB yellow webbing. Alternate colors and capacities of webbing are available, as well as resin-treated webbing to help reduce abrasive wear. Our straps are designed and manufactured in Sanford, North Carolina; allowing us to fully customize our products to meet the needs of the market(s) served by our dealers. All assemblies are manufactured & clearly tagged to meet or exceed DOT & FMCSA specifications and backed by the best warranty in the industry today. *A strap assembly is only as strong as its weakest component* ***(this INCLUDES the point of attachment!)*** Stronger WLL can be achieved **with alternate webbing and hardware.**

Part Numbers shown here represent the “popular sizes”. We can manufacture to any length. Call for more information.

3” Heavy Duty Ratchet Assemblies			**5,000 LB WLL** (determined by webbing & hardware options)	
Here are some of the most common configurations:				
Part Number	**Length**	**Break Strength**	**WLL**	**End Fittings**
CG15R27 CG15R30	27’ 30’	15,000 LB	5,000 LB	 15M3CG – Chain & Grab
DR15R27 DR15R30	27’ 30’	15,000 LB	5,000 LB	 20M3D – 3” Delta Ring
FH15R27 FH15R30	27’ 30’	15,000 LB	5,000 LB	 15M4FH – 4” Flat Hook w/Protector Clip
FSH15R27 FSH15R30	27’ 30’	15,000 LB	5,000 LB	 15M3FSH – 3” Flat Snap Hook
GH15R27 GH15R30	27’ 30’	15,000 LB	5,000 LB	 15M3GH – Grab Hook w/ Pear Link
JH15R27 JH15R30	27’ 30’	15,000 LB	5,000 LB	 20M3J- 3” Wire J Hook
4” Heavy Duty Ratchet Assemblies			**5,400 LB WLL** (determined by webbing & hardware options)	
CG15M4R27 CG15M4R30	27’ 30’	16,200 LB	5,400 LB	 15M3CG – Chain & Grab
DR15M4R27 DR15M4R30	27’ 30’	16,200 LB	5,400 LB	 20M4D – 4” Delta Ring
FH15M4R27 FH15M4R30	27’ 30’	16,200 LB	5,400 LB	 15M4FH – 4” Flat Hook w/Protector Clip
GH15M4R27 GH15M4R30	27’ 30’	16,200 LB	5,400 LB	 15M3GH – Grab Hook w/ Pear Link
JH15M4R27 JH15M4R30	27’ 30’	16,200 LB	5,400 LB	 20M3J- 3” Wire J Hook

Cargo Control
2” Winch Straps

CARGO CONTROL USA
COMPLETE CARGO CONTROL SOLUTIONS
STRAPS, CHAINS, BINDERS & WINCH PRODUCTS

2” WINCH STRAPS / REPLACEMENT LONG ENDS



“USA” is not just the company name, but a reflection of our strong commitment to provide tie downs proudly manufactured in the USA. We are the only company to clearly differentiate between USA and Import products because we believe it is important to know exactly what you are purchasing. Our straps are constructed of strong, quality materials to provide you with the very best products available.

Part Numbers shown here represent the “popular sizes”. We can manufacture to any length. Call for more information.

2” Winch Straps (Standard Lengths 27’ & 30’ – also offered 10’ to 50’)					**10/Case**
Part Number	**Length**	**Break Strength**	**WLL**	**End Fittings**	
FH6X27 FH6X30	27’ 30’	6,000 LB	2,000 LB		6M2FH– 2” Narrow Flat Hook
FH2X15 FH2X20 FH2X27 FH2X30	15’ 20’ 27’ 30’	10,000 LB	3,333 LB		10M2FH – 2” Flat Hook w/Protector Clip
JH2X10 JH2X15 JH2X20 JH2X27 JH2X30 JH2X40	10’ 15’ 20’ 27’ 30’ 40’	10,000 LB	3,333 LB		10M2J – 2” Wire J Hook
CG2X27 CG2X30	27’ 30’	10,000 LB	3,333 LB		10M2CG – 2” Chain & Grab
DR2X10 DR2X27 DR2X30	10’ 27’ 30’	10,000 LB	3,333 LB		10M2D – 2” Delta Ring
GH2X27 GH2X30	27’ 30’	10,000 LB	3,333 LB		10M2GH- Grab Hook
FSH2X27 FSH2X30	27’ 30’	10,000 LB	3,333 LB		10M2FSH- 2” Flat Snap Hook
TSH2X27 TSH2X30	27’ 30’	10,000 LB	3,333 LB		10M2TSH – 2” Twisted Snap Hook

Standard 2” winch straps are made with 12,000LB high visibility yellow webbing. Alternate colors and capacities of webbing are available. Our straps are designed and manufactured in Sanford, North Carolina; allowing us to fully customize our products to meet the needs of the market(s) served by our dealers. All assemblies are manufactured & clearly tagged to meet or exceed DOT & FMCSA specifications and backed by the best warranty in the industry.

- *WLL of Working Load Limit by Industry Standards is 1/3 of the Rated Capacity*
- *Ultimately it is the responsibility of the operator to determine the correct product for their application*
- *A Strap assembly is only as strong as its weakest component* ***(this INCLUDES the point of attachment!)***

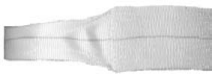
Cargo Control
3” & 4” Winch Straps

CARGO CONTROL USA
COMPLETE CARGO CONTROL SOLUTIONS
STRAPS, CHAINS, BINDERS & WINCH PRODUCTS



Standard 3” winch straps are made with 18,000LB yellow webbing. Standard for the 4” winch strap is 20,000LB yellow webbing. Alternate colors and capacities of webbing are available, as well as resin-treated webbing to help reduce abrasive wear. Our straps are designed and manufactured in Sanford, North Carolina; allowing us to fully customize our products to meet the needs of the market(s) served by our dealers. All assemblies are manufactured & clearly tagged to meet or exceed DOT & FMCSA specifications and backed by the best warranty in the industry today. *A strap assembly is only as strong as its weakest component* ***(this INCLUDES the point of attachment!)*** Stronger WLL can be achieved with alternate webbing and hardware.

Part Numbers shown here represent the “popular sizes”. We can manufacture to any length. Call for more information.

3” Winch Straps			**5,000 LB WLL** (determined by webbing & hardware options)	
Part Number	**Length**	**Break Strength**	**WLL**	**End Fittings**
CG3X27 CG3X30	27’ 30’	15,000 LB	5,000 LB	 15M3CG – Chain & Grab
DR3X27 DR3X30	27’ 30’	15,000 LB	5,000 LB	 20M4D – 4” Delta Ring
FH3X27 FH3X30	27’ 30’	15,000 LB	5,000 LB	 15M4FH – 4” Flat Hook w/Protector Clip
FSH3X27 FSH3X30	27’ 30’	15,000 LB	5,000 LB	 15M3FSH – 3” Flat Snap Hook
GH3X27 GH3X30	27’ 30’	15,000 LB	5,000 LB	 15M3GH – Grab Hook w / Pear Link
JH3X27 JH3X30	27’ 30’	15,000 LB	5,0000 LB	 20M3J – 3” Wire J Hook
4” Winch Straps			**5,400 LB WLL** (determined by webbing & hardware options)	
CG4X27 CG4X30	27’ 30’	16,200 LB	5,400 LB	 15M3CG – Chain & Grab
DR4X27 DR4X30	27’ 30’	16,200 LB	5,400 LB	 20M4D – 4” Delta Ring
FH4X15 FH4X27 FH4X30 FH4X40	15’ 27’ 30’ 40’	16,200 LB	5,400 LB	 15M4FH – 4” Flat Hook
GH4X27 GH4X30	27’ 30’	16,200 LB	5,400 LB	 15M3GH – Grab Hook w/ Pear Link
JH4X27 JH 4X30	27’ 30’	16,200 LB	5,400 LB	 20M3J- 3” Wire J Hook
LE4X27 LE4X30	27’ 30’	16,200 LB	5,4000 LB	 Tapered Sewn Loop

Cargo Control
Short Fixed Ends/Roll-Off Straps

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"Short Fixed End" refers to the non-adjustable ratchet end of the assembly. Length measurement is overall from ratchet to end of hook. Custom lengths are available.

Straps can be manufactured to meet specific needs. Listed here are some of the most common configurations. Please contact our sales department for additional designs.



Part Number	Description
CG10R1.5SER	2"X18" 10,000LB W/Chain Grab
FH10R1.5SER	2"X18" 10,000LB W/Flat Hook
FH10R1.0SER	2"X12" 10,000LB W/Flat Hook
FH15M3SER	3"X18" 15,000LB W/Flat Hook
FH15M4SER	4"X18" 16,200LB W/Flat Hook
JH10R1.5SER	2"X18" 10,000LB W/J Hook
JH15M4SER	4"X18" 16,200LB W/J Hook



ROLL-OFF STRAPS



RH 4X5



CTH4X3

Part Number	Description	Length (FT)	Break Strength	WLL
RH3X4	3"X4' 15M ROLL-OFF CONTAINER STRAP	4	15,000LB	5,000LB
RH3X5	3"X5' 15M ROLL-OFF CONTAINER STRAP	5	15,000LB	5,000LB
RH4X2LE	4"X2' 15M ROLL-OFF CONTAINER STRAP W/1" BOLT LOOP	2	16,200LB	5,400LB
RH4X5	4"X5' 15M ROLL-OFF CONTAINER STRAP	5	16,200LB	5,400LB
RH4X5LE	4"X5' 15M ROLL-OFF CONTAINER STRAP W/2" LOOP END	5	16,200LB	5,400LB
RH4X6	4"X6' 15M ROLL-OFF CONTAINER STRAP	6	16,200LB	5,400LB
RH4X8	4"X8' 15M ROLL-OFF CONTAINER STRAP	8	16,200LB	5,400LB
CTH4X3	4"X3' 15M ROLL-OFF CONTAINER STRAP FABRICATED HOOK	3	16,200LB	5,400LB
CTH4X5	4"X5' 15M ROLL-OFF CONTAINER STRAP FABRICATED HOOK	5	16,200LB	5,400LB

Cargo Control
Strap Protectors

CARGO CONTROL USA
COMPLETE CARGO CONTROL SOLUTIONS
STRAPS, CHAINS, BINDERS & WINCH PRODUCTS

Strap protectors come in a variety of shapes, sizes, and materials. They are an inexpensive way to protect both the cargo you are hauling and the straps, chains, and tarps you are using to secure that cargo. In addition, to standard plastic and steel "corner" protectors, there are also webbing options that are cut to the desired length and can either move freely up and down the strap, or can be sewn into place.



2RP
2" Rubber Strap Guard



TP-101
Corner Tarp Guard

Vee Boards - Available in many sizes



VB-12
12" Vee Board



VB-48-11
11"x11"x48" Vee Board



2RP-2
2" Rubber Wheel Cleat



2RPWG
2" Wheel Grips



4CSR
4" Rubber Lined Steel



4CS
4" Steel Corner



4CP
4" Plastic Corner Standard
**colors may vary



4CP12
4"X12" Plastic Corner Protector



4RP –
4" Rubber Strap Guard



Sleeve Webbing –
Available in 2", 3", and 4"
Sold by foot
Part #'s **2BLACK**
3BLACK
4BLACK



Cordura Pad Webbing -
Available in 2", 4", 6" and 8"
Sold by foot
Part #'s **2CORDURA**
4CORDURA

STRAP WINDERS



16SW - Strap Winder



16QW - Quick Wrap Winder

Helps to wrap straps quickly for storage when straps are not in use

Cargo Control
Winches & Winch Bars

CARGO CONTROL USA
COMPLETE CARGO CONTROL SOLUTIONS
STRAPS, CHAINS, BINDERS & WINCH PRODUCTS



16L
2" Lashing Winch
Tighten w/ Hex bar
12/ Box



16S
4" Standard
Weld On Winch
5/ Box





16SL
4" Low Profile
Weld On Winch
5/ Box



16P
4" Standard
Portable Winch
5/ Box



18SN
4" Slider Notched /
High Cap. Weld On
Winch 5/ Box



18SN-LP
4" Low Profile
Slider Notched Winch
5/ Box



16PL
4" Low Profile
Portable Winch
5/ Box



18SR
4" Slider Rail Winch
5/ Box



16D3
3" Disc Winch
5/ Box



16D4
4" Disc Winch
5/ Box



16SP
4" Combination
Slot/ Post Winch
5/ Box



16SPL
4" Low Profile
Combination Winch
5/ Box



16PPL
4" Low Profile Portable
Combination Winch
5/ Box



16WC
Weld On Leg
Combination Winch
5/ Box

18WT6 – 6' Steel Slider Track
For 18SN and 18SN-LP



NOTE: FOR SAFE OPERATION
1. All winches should be installed so the user can readily see the pawl to ensure proper engagement.
2. The winch should be positioned so the pawl drops into the ratchet wheel by gravity.
3. Winches should never be installed so the user cannot see the pawl engagement or in a position where the user must hold the pawl to engage the ratchet tooth.
4. Weld on winches must be welded to the trailer frame. Minimum weld requirements are 1/4" fillet weld, 4" long on both sides of frame, and 1/8" penetration.

** Replacement Pawl & Pin Available*

WINCH BARS - Standard Pack is 10 per box



WB1 Standard Painted Winch Bar



WC2 Standard Chrome Winch Bar



WB3 Painted Combination Winch Bar – Box Head Style



WC4 Chrome Combination Winch Bar – Tube Style

WC3 Chrome Combination Winch Bar – Box Head Style
WC3XL Chrome Combination Winch Bar 40"



Box Head Style



Tube Style

WARNING: When tightening or loosening winches, always maintain a firm grip on the winch bar. Never release a winch bar without checking the pawl to ensure that it is fully engaged between ratchet teeth. Releasing a winch bar without the pawl being properly engaged, can cause serious injury to the user and/or bystanders. The use of a slip resistant handle winch bar, specifically designed to tighten or loosen winches, is recommended. Cargo Control USA winch bars should be used to tension and release tie-down assemblies. "Cheater Bars" ("extenders") should not be used with the winch bars. User should stand clear of the winch bar handle during operation of the winch bar in case the winch bar slips. The tip of the winch bar should be inserted through both holes in the end cap to prevent the winch bar from "slipping out" and overloading the tip and/or end cap. Winches should not be loaded in excess of their working load limit. Winches should NOT be used as pulling or lifting devices. Webbing should be inserted through the slot, and a minimum of two (2) wraps on the winch reel bar.

Cargo Control
Bars & Beams

CARGO CONTROL USA
COMPLETE CARGO CONTROL SOLUTIONS
STRAPS, CHAINS, BINDERS & WINCH PRODUCTS

WARNING: Cargo bars are not intended for use with cargo on wheels. Over tensioning of ratchet mechanism may cause damage to trailer sidewalls.
NOTE: Cargo bars do not have load ratings due to varying conditions of trailer sidewalls.



CB104 Standard One-Piece Aluminum Cargo Bar/Load Lock
Adjusts up to 105”



CB204 Standard One-Piece Galvanized Steel Cargo Bar/Load Lock
Adjusts up to 105”

CARGO BAR REPLACEMENT PARTS AVAILABLE

Rigging

Cargo Control USA Cargo Bars are offered in both high strength aluminum tubing and steel tubing. Features on both products include molded pivoting rubber feet that will not scuff interior walls and a heavy duty steel handle. The handle and trigger mechanism are easy to operate. Both items adjust from 86” to 105”.



JB204 Heavy-Duty Steel One-Piece Jack Bar
Adjusts 86” to 105”
JB214 Heavy-Duty Steel One-Piece Jack Bar
Adjusts 86” to 114”



JB304 Heavy-Duty Steel Two-Piece Jack Bar

Cargo Control USA Jack Bars are made from heavy galvanized steel tubing for maximum strength and durability. Soft grip rubber handles help to make Cargo Control USA jack bars easy to operate.



DB104 102” Aluminum Decking/Shoring Beam
Adjusts 92” to 102”

Decking Beams are constructed of heavy duty heat treated aluminum, which provides the best length-to-weight ratio. The heads are constructed of high-quality steel which has been zinc plated to reduce corrosion. The heads also contain steel trigger mechanisms for dependable locking control. These beams are designed with a 2,000 LB working load limit. Loads should always be evenly distributed.



CB104-HOOP
Cargo Bar
Hoop Set



CBFT
Replacement Feet
2”X4” Pads



CB-HAND
Replacement Handle



CB-101
Cargo Bar Holder

Cargo Control
E-Track & Van Lashing Logistic

CARGO CONTROL USA
COMPLETE CARGO CONTROL SOLUTIONS
STRAPS, CHAINS, BINDERS & WINCH PRODUCTS

Internal Van Lashings -
2" Wide Nylon Straps with E-clips. Available with Ratchet or Cam Buckle. Custom assemblies are available.

Alternate Configurations


with E Clip & J hook

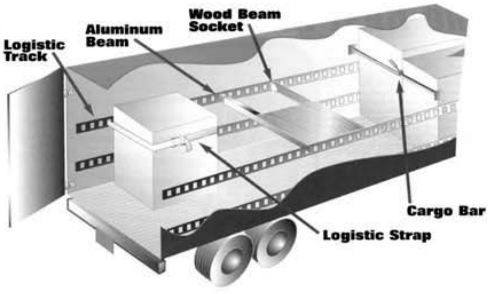

with F Hook


With E Clip & F hook

Most Popular Styles



Part Number	Length	End Fittings	Capacity (B/S)	Color
Cam Buckle Logistic Straps				
308	8'	Spring E-Clips	3,000 lbs	Blue
312	12'	Spring E-Clips	3,000 lbs	Yellow
316	16'	Spring E-Clips	3,000 lbs	Gray
316EJ	16'	Spring E-Clips & J Hooks	3,000 lbs	Gray
320	20'	Spring E-Clips	3,000 lbs	Blue
Ratchet Logistic Straps				
308R	8'	Spring E-Clips	3,000 lbs	Blue
312R	12'	Spring E-Clips	3,000 lbs	Yellow
316R	16'	Spring E-Clips	3,000 lbs	Gray
316R-EJ	16'	Spring E-Clips & J Hooks	3,000 lbs	Gray
320R	20'	Spring E-Clips	3,000 lbs	Blue



18ET10GY - Gray
Series E Track Horizontal - 12-gauge high strength steel
Minimum yield 50,000 psi
Painted gray finish, 10' sections
Weighs approximately 16 lbs. per unit

18ET05GY - 5' section Gray
Weighs approximately 8 lbs. per unit



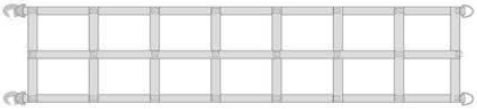
*Also available in Galvanized and up to 24' length.
Minimum order may be required.

RTOEC-S
Rope Tie Off With
Spring Loaded E-Clip & S-HK



RTOEC
Rope Tie Off with
Spring Loaded E-Clip


different lengths available



CARGO NETS
Custom made to your specifications
Call for more information

Fall Protection Section

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Fall Protection
Ropegrabs

FALLTECH
Fall Protection. Precision Engineered.

Arresters and Adjusters

FallTech® provides a wide range of Rope Adjusters and Fall Arresters for user ascent and descent mobility while maintaining continuous vertical anchorage on 5/8" rope lifelines. Offered separately and with pre-attached 3' energy absorbing lanyards, our range of options includes manually operated and trailing devices with user-preferred functions including hinged and anti-inversion models and, to meet ANSI Z359.15 Standards, the anti-panic function provides the safest user solution available.

8353LT | Rope Adjuster

Manual



Manually operated rope adjuster with 3' Soft Pack energy absorbing lanyard.

8353: Manual rope adjuster with 3' ViewPack® energy absorbing lanyard.

8358 | Rope Adjuster

Hinged Trailing



Hinged trailing rope adjuster with 3' ViewPack® energy absorbing lanyard.

8359: Stainless steel hinged trailing rope adjuster with 3' ViewPack energy absorbing lanyard.

8358LT: Hinged trailing rope adjuster with Soft Pack energy absorbing lanyard.

8368 | Rope Adjuster

Trailing



Trailing rope adjuster with 3' ViewPack® energy absorbing lanyard.

8355: Trailing/Parking hinged rope adjuster with 3' ViewPack® energy absorbing lanyard.

8388 | Fall Arrester

Anti-panic



Hinged trailing fall arrester with Anti-panic and 3' ViewPack® energy absorbing lanyard.

7609 | Cable Sleeve

Hinged Trailing



Alloy steel cable sleeve with hinged trailing mobility for 3/8" steel cable. Includes carabiner for sternal D-ring attachment.

7491 | Rope Adjuster

Hinged Trailing



Stainless steel rope adjuster with hinged trailing mobility and anti-inversion function.

7479 | Rope Adjuster

Hinged Trailing



Alloy steel rope adjuster with hinged trailing mobility and anti-inversion function.

7489 | Fall Arrester

Anti-panic



Alloy steel fall arrester with anti-panic and anti-inversion functions and hinged trailing mobility.

Fall Protection
Lifelines

FALLTECH
Fall Protection. Precision Engineered.

FallTech connectors are tested to comply with current ANSI standards and built for a wide range of workplaces. FallTech has worked hard to make sure that when you need to be connected, you have the right equipment for the job.



8150

5/8" Premium Polyester Rope; with 1 Snap Hook and Braid-end.



8200

5/8" Premium Polyester Rope; with 1 Snap Hook and Braid-end.



8149

5/8" Copolymer Rope; with 1 Snap Hook and Braid-end.



8151

5/8" Premium Polyester Rope; Thimble and Braid-End.



8150T

5/8" Premium Polyester Rope; with 1 Snap Hook and Taped-End.



7120

Counter Weight; 5 lbs for Vertical Lifelines; Chokes to Trailing End to Keep Line Taught.

Fall Protection
Carabiners & Extenders

FALLTECH
Fall Protection. Precision Engineered.

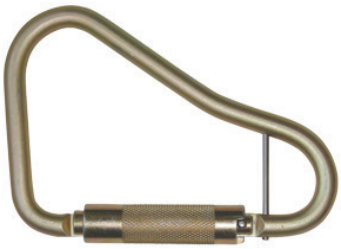
FallTech connectors are tested to comply with current ANSI standards and built for a wide range of workplaces. FallTech has worked hard to make sure that when you need to be connected, you have the right equipment for the job.



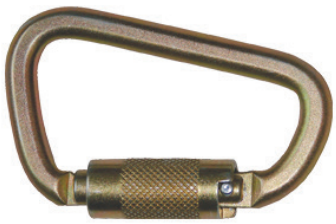
8366LAF
Web with Choking Loop and D-ring.



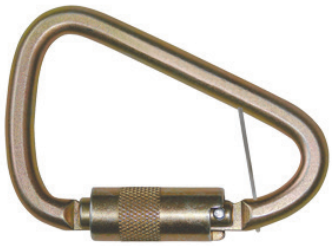
5073H
The Triple Action SRD Connector offers a dual locking system with versatile connection options, all within a compact size, 4" x 1½" that is simple to connect and easy to use with full protection



8447
Large Twist Lock; 2 1/4" Opening; 3,600 lbs Gate; with Captive Pin Option.



8445
Compact Twist Lock; 7/8" Opening; 3,600 lbs Gate.



8450
Medium Twist Lock; 1" Opening; 3,600 lbs Gate; with Captive Pin Option.



8447A
Large Twist Lock; 2" Gate Opening; 3,600 lbs Gate; with Captive Pin Option.

Fall Protection
Carabiners & Extenders

FALLTECH
Fall Protection. Precision Engineered.



8466A

Medium Twist Lock; 7/8" Gate Opening; 3,600 lbs Gate; with Captive Pin Option.



8366

Web with Snap Hook and D-ring.

More



8366L

Web with Choking Loop and D-ring.



83662D

Web with Snap Hook and 2nd D-ring for SRL Attachment.

Fall Protection
Harnesses

FALLTECH
Fall Protection. Precision Engineered.

Contractor Harnesses provide the adjustability, fit and value for the practical workforce. Available in standard non-belted, belted construction, and climbing versions.



7073LX

3 D-rings, Back and Side; Tongue Buckle Legs and Mating Buckle Chest; Durable 4" Waist and 7" Shoulder Pads.



7007

1 Back D-ring; Mating Buckle Legs and Chest. 3 Points of Adjustment.



7017

3 D-rings, Back and Side; Mating Buckle Legs and Chest.



7016

1 Back D-ring; Tongue Buckle Legs and Mating Buckle Chest.



7019A

2 D-rings, Back and Front; Mating Buckle Legs and Chest; 4 Points of Adjustment.



7015

1 Back D-ring; Mating Buckle Legs and Chest.



7019B

4 D-rings, Back, Side and Front; Mating Buckle Legs and Chest; 4 Points of Adjustment.



7018

3 D-rings, Back and Side; Tongue Buckle Legs and Mating Buckle Chest.

Fall Protection
Lanyards

FALLTECH
Fall Protection. Precision Engineered.

ElasTech® Shock-Absorbing Lanyards have all of the advantages of our popular Internal lanyards, plus the added benefit of elasticity to enhance worker mobility and reduce the potential for lanyard entanglement.



8240Y3

Adjustable Y-leg for 100% Tie-off; with 1 Snap Hook and 2 Rebar Hooks.



8240Y32D

Expanding Y-leg for 100% Tieoff; with 1 Snap Hook and 2 Rebar Hooks; D-ring for SRL Attachment



8240Y2D

Adjustable Y-leg for 100% Tieoff; with 3 Snap Hooks and D-ring for SRL Attachment.



8240Y

Adjustable Y-leg for 100% Tie-off; with 3 Snap Hooks.



8240Y32D2R

Adjustable Y-leg for 100% Tie-off; with 1 Snap Hook and 2 Rebar Hooks; 1 D-ring for SRL Attachment and 2 Rescue D-rings; 4' to 6' Range of fit.



8240Y3L

Adjustable Y-leg for 100% Tie-off; with Loop and 2 Rebar Hooks.

Fall Protection
Lanyards

FALLTECH
Fall Protection. Precision Engineered.



82403
Adjustable Single Leg; with 1 Snap Hook and 1 Rebar Hook.



8240
Adjustable Single Leg; with 2 Snap Hooks.



82403L
Adjustable Single Leg; with Loop and 1 Rebar Hook.



8240L
Adjustable Single Leg; with Loop and 1 Snap Hook.



8240Y3A
Adjustable Y-leg for 100% Tie-off; with 1 Aluminum Snap Hook and 2 Aluminum Rebar Hooks.



82403A
Adjustable Single Leg; with 1 Aluminum Snap Hook and 1 Aluminum Rebar Hook.

Fall Protection
Lanyards

FALLTECH
Fall Protection. Precision Engineered.



8240A

Adjustable Single Leg; with 2 Aluminum Snap Hooks.



8240YA

Adjustable Y-leg for 100% Tie-off; with 3 Aluminum Snap Hooks.



8240Y3A2R

Adjustable Y-leg for 100% Tie-off; with 1 Aluminum Snap Hook and 2 Aluminum Rebar Hooks; 2 Steel Rescue D-rings.

Fall Protection
Self-Retracting Lanyards

FALLTECH
Fall Protection. Precision Engineered.

When there is no margin for error on your job site, FallTech Self-Retracting Lifelines (SRLs) deliver quick stopping power with minimal impact to the body and anchor point. Rugge reliable and built to meet the industry's highest standard, FallTech's SRLs bring safety and consistency to even the most challenging work environments.

CABLE



7226C

DuraTech® 15' SRD Is equipped with a side cable payout, aluminum housing, internal braking system, swiveling self-locking carabiner and a spring block shock with a grip handle all within a stackable design.



7227C

DuraTech® 20' SRD Is equipped with a side cable payout, aluminum housing, internal braking system, swiveling self-locking carabiner and a spring block shock with a grip handle all within a stackable design.



7229C

DuraTech® 25' SRD Is equipped with a side cable payout, aluminum housing, internal braking system, swiveling self-locking carabiner and a spring block shock with a grip handle all within a stackable design



7232C

DuraTech® 30' SRD Is equipped with a side cable payout, aluminum housing, internal braking system, swiveling self-locking carabiner and a spring block shock with a grip handle all within a stackable design.



7267C

DuraTech® 40' SRD Is equipped with a side cable payout, aluminum housing, internal braking system, swiveling self-locking carabiner and a spring block shock with a grip handle all within a stackable design.



7268C

DuraTech® 50' SRD Is equipped with a side cable payout, aluminum housing, internal braking system, swiveling self-locking carabiner and a spring block shock with a grip handle all within a stackable design.

Fall Protection
Self-Retracting Lanyards

FALLTECH
Fall Protection. Precision Engineered.



7265C

DuraTech® 60' SRD Is equipped with a side cable payout, aluminum housing, internal braking system, swiveling self-locking carabiner and a spring block shock with a grip handle all within a stackable design.



727620LE

7/32 Galvanized Steel Cable; Internal Inertial Brake And External Shock Pack; Glass-filled Nylon Housing; 1 Connecting Carabiner and 1 Load-indicating Swivel Carabiner.



727630LE

7/32 Galvanized Steel Cable; Internal Inertial Brake And External Shock Pack; Glass-filled Nylon Housing; 1 Connecting Carabiner and 1 Load-indicating Swivel Carabiner.



727650LE

7/32 Galvanized Steel Cable; Internal Inertial Brake And External Shock Pack; Glass-filled Nylon Housing; 1 Connecting Carabiner and 1 Load-indicating Swivel Carabiner.



83709SA7

9' Compact Cable SRD; 3/16" Galvanized Wire Cable; Integral Aluminum Swivel eye on Anchorage End; Load-Indicating Swivel Carabiner on Leg End



83709SB7

9' Compact Cable SRD; 3/16" Galvanized Wire Cable; Integral Aluminum Swivel eye and Steel Carabiner on Anchorage End; Load-Indicating Swivel Carabiner on Leg End

Fall Protection
Self-Retracting Lanyards

FALLTECH
Fall Protection. Precision Engineered.



83809SG9

9' Compact Cable SRD; 3/16" Stainless Steel Cable; Integral Aluminum Swivel eye and Aluminum Carabiner on Anchorage End; Load-Indicating Swivel Snap Hook on Leg End



7226

SRL with Galvanized Cable; Load-indicating Swivel Carabiner.



7229

SRL with Galvanized Cable; Load-indicating Swivel Carabiner.



7268

SRL with Galvanized Cable; Load-indicating Swivel Carabiner.



7226S

SRL with Stainless Steel Cable; Load-indicating Swivel Carabiner.



7229S

SRL with Stainless Steel Cable; Load-indicating Swivel Carabiner.

Fall Protection
Self-Retracting Lanyards

FALLTECH
Fall Protection. Precision Engineered.



7268S

SRL with Stainless Steel Cable; Load-indicating Swivel Carabiner.



7226SS

SRL with Stainless Steel Cable; Stainless Steel Load-indicating Swivel Carabiner.



7232SS

SRL with Stainless Steel Cable; Stainless Steel Load-indicating Swivel Carabiner.



7268SS

SRL with Stainless Steel Cable; Stainless Steel Load-indicating Swivel Carabiner.



7226HW

HeavyWeight® SRL; 400 lbs Capacity, Galvanized Cable; Load-indicating Swivel Carabiner.



7232HW

HeavyWeight® SRL; 400 lbs Capacity, Galvanized Cable; Load-indicating Swivel Carabiner.

Fall Protection
Self Retracting Lanyards

FALLTECH
Fall Protection. Precision Engineered.



7268HW

HeavyWeight® SRL; 400 lbs Capacity, Galvanized Cable; Load-indicating Swivel Carabiner.



727620

SRL with Glass-filled Nylon Housing; 1 Connecting Carabiner and 1 Load-indicating Swivel Carabiner.



727630

SRL with Glass-filled Nylon Housing; 1 Connecting Carabiner and 1 Load-indicating Swivel Carabiner.



727650

SRL with Glass-filled Nylon Housing; 1 Connecting Carabiner and 1 Load-indicating Swivel Carabiner.



7276100

The 100' Contractor Self-Retracting Device Is equipped with a side cable payout, constructed with lightweight glass-filled nylon housing, internal braking system, swiveling self-locking carabiner with an intergraded carrying handle all within a stackable design.

AccuRate Rigging & Fabrication
A Chicago Jack Company

FallTech
Fall Protection. Precision Engineered.

Fall Protection Anchors

STEEL \ Anchorage

7531

STEEL \ Trailing Beam Clamp

– Single Ratcheting; Fits 4" to 12" Flange Width; Machined Aluminum Bar; Steel Jaws with Slider Pads.

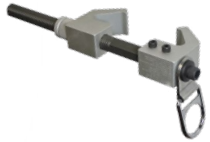


– **7531** 4" to 12"

7535

STEEL \ Stationary Beam Clamp

– Vertical or Horizontal Mount; Aluminum Hex Bar and Jaws; Fits 4" to 12" Flange Width; Can be used for FallTech Temporary HLLs; 8,000 lbs Capacity.



– **7535** 4" to 12" – **7536** 10" to 24"

7530

STEEL \ Trailing Beam Clamp

– Dual Ratcheting for Centering on I-beam; Fits 4" to 14" Flange Width; Machined Aluminum Bar; Steel Jaws with Slider Pads.



– **7530** 4" to 14"

7710

STEEL \ Beam Trolley

– Cast and Machined Aluminum and Steel Construction; Fits 6" to 12" Flange Width; For Temporary or Permanent Installations.



– **7710**

7533

STEEL \ Trailing Beam Clamp

– Dual Adjustment for Centering on I-beam; Fits 3" to 13" Flange Width; Aluminum Hex Bar and Jaws.

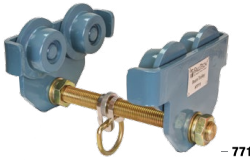


– **7533** 3" to 13" – **7534** 3" to 18"

7711

STEEL \ Heavy Duty Beam Trolley

– Steel Frame and Wheels; Fits Beam Flanges from 3" to 8" Wide and up to 1.25" Thick; Simple Adjustment with Common 2" Adjustable Wrench; For Temporary or Permanent Installations.



– **7711**

Complies with relevant ANSI Z359 standards and OSHA regulations.

STEEL \ Anchorage

7414

STEEL \ Bolt-on

– Forged D-ring and Bolt-on Plate; Provides Simple Overhead Anchorage Solution.



– **7414** 2" x 4½ plate with 1/2" holes – **7414SS** 2" x 4½ stainless steel plate with 1/2" holes

7414P

STEEL \ Weld-on

– Forged D-ring and Plain/Uncoated Steel Plate for Weld-on or Bolt-on Applications; Provides Simple Overhead Anchorage Solution.



– **7414P** 2" x 4½ plate with 1/2" holes

7407

STEEL \ Wire Form

– Stainless Steel Wire Form Temporary Anchor.



– **7407** 4" to 5" Range of Fit
– **7402** 2" to 3" Range of Fit
– **7403** 3" to 4" Range of Fit

Complies with relevant ANSI Z359 standards and OSHA regulations.

STEEL \ Anchorage

7435

STEEL \ Bolt-on

– Forged Alloy Steel Construction; Extra Large Ring Provides Compatibility with a Wide Range of Connectors; Bolt-on Design Provides Simple Overhead Anchorage Solution; Bolt size 9/16" Threaded Stud with Grade 8 Nut; 7/8" Max Substrate Thickness.



– **7435**

7408

STEEL \ Grip Anchor

– Alloy Steel Grip Anchor for Temporary/ Reusable Anchorage for up to 1¼" Flange Thickness; For Vertical or Horizontal Applications; 10,000 lbs Capacity.



– **7408**



CJS
CHICAGO JACK SERVICE, INC
Your Application Specialists

www.accuraterigging.com
800-392-2816
www.chicagojack.com

Fall Protection
Push Beam Trolley

MADE IN USA

OZ LIFTING PRODUCTS LLC

FALL PROTECTION



NEW

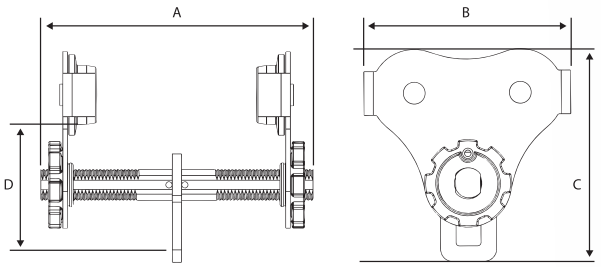
0.5 TON and 1 TON

400 lbs. combined user and tools fall protection

This product meets or exceeds OSHA 1926 Subpart M, OSHA 1910, ANSI Z359.1-2007, and ANSI A10.32-2012 standards for fall protection.

The Push Beam Trolley Fall Protection Series by OZ Lifting Products, LLC sets a new standard for ease of use and durability. An innovative width adjustment system makes this trolley one of the fastest and easiest to install in the industry. A universal wheel tread pattern allows the trolley to be used on most I, S, and W-beams. We use steel construction with premium double sealed ball bearings to assure long life and trouble free service.

Product Specifications



	OZ05PBTA-MR	OZ1PBTA-MR
Material Handling Load	1,000 lbs.	2,000 lbs.
Fall Protection*	400 lbs.	400 lbs.
Adjustable Flange Width	2.75”- 8.00”	2.75”- 8.00”
Minimum Radius Curve	2.75 ft.	3.35 ft.
A	11”	11”
B	8.3”	10.2”
C	8.5”	9.8”
D	5”	5.5”
Net Weight	16 lbs.	26 lbs.

*User and tools combined.

Dimensions are for reference only and subject to change without notice.



Features and benefits

Fast and easy width adjustments
Built-in width adjustment indicator
Universal wheel tread fits most I, S, and W-Beams
Premium double-sealed ball bearings
ROHS compliant zinc plated finish
Anti-drop plates
Glow in the dark decals
Ships fully assembled
Made in USA

Fall Protection
Clamp

MADE IN USA

OZ LIFTING PRODUCTS LLC

FALL PROTECTION



NEW

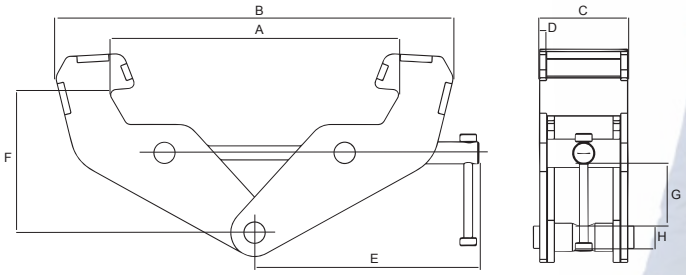
1 TON THROUGH 10 TON

400 lbs. combined user and tools fall protection

This product meets or exceeds OSHA 1926 Subpart M, OSHA 1910.140 ANSI Z359.1, and ANSI A10.32-2012 standards for fall protection.

Our **Fall Protection Series beam clamps** feature a fully-welded box construction and uses no press fit pins. We also completely weld the support plates at the main load pin to the heavy-duty side plates, providing exceptional rigidity and strength. ROHS-compliant zinc plating also adds increased corrosion resistance. Super-quick adjustment to most I-Beams.

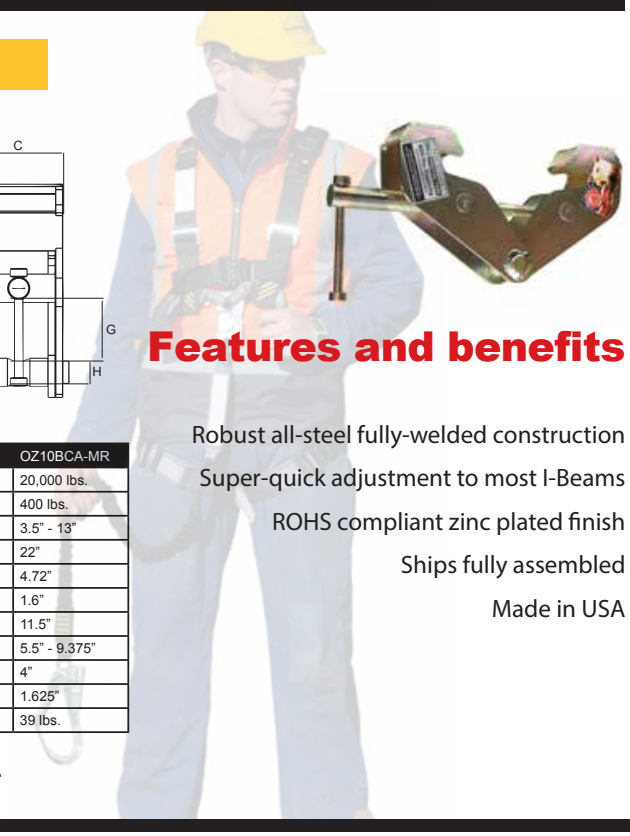
Product Specifications



	OZ1BCA-MR	OZ2BCA-MR	OZ3BCA-MR	OZ5BCA-MR	OZ10BCA-MR
Material Handling Load	2,000 lbs.	4,000 lbs.	6,000 lbs.	10,000 lbs.	20,000 lbs.
Fall Protection*	400 lbs.	400 lbs.	400 lbs.	400 lbs.	400 lbs.
A	3" - 8"	3" - 8"	3.5" - 13"	3.5" - 13"	3.5" - 13"
B	14.75"	14.75"	20.5"	20.5"	22"
C	2.51"	2.91"	3.94"	4.41"	4.72"
D	0.9"	0.9"	1.5"	1.5"	1.6"
E	9.5"	9.5"	11"	11"	11.5"
F	4.75" - 5.75"	4.75" - 5.75"	7.5" - 9"	7.5" - 9"	5.5" - 9.375"
G	1.75"	1.75"	2.5"	2.5"	4"
H	.75"	.875"	.975"	1.125"	1.625"
Net Weight	9 lbs.	11 lbs.	22 lbs.	26 lbs.	39 lbs.

*User and tools combined.

Dimensions are for reference only and subject to change without notice.



Features and benefits

Robust all-steel fully-welded construction

Super-quick adjustment to most I-Beams

ROHS compliant zinc plated finish

Ships fully assembled

Made in USA

Fall Protection
Anchors

GUARDIAN FALL PROTECTION

BEAMER®



Beamer 2000
Part # 00101

BEAMER 2000
MADE WITH ALUMINUM, BRONZE MANGANESE, ZINC-PLATED STEEL, & STAINLESS STEEL

FITS UP TO 1.25" FLANGE	FITS FLANGES 3.5"-14" WIDE	FOR USE ON TOP OR BOTTOM	00101
	FITS FLANGES 6"-16" WIDE		00103

The ***Beamer 2000*** is a versatile Fall Arrest anchor designed for use either overhead or at foot level. Suitable for installation on beams, the *Beamer 2000* trails behind the user during work, and is quick and easy to install and adjust.



Beamer 2000+
Part # 00102

The ***Beamer 2000+*** is the new and improved version of the Beamer 2000. It offers a D-ring that both pivots and swivels, adjustment levers at the top of the anchor instead of the side to reduce the likelihood of accidental impact adjusters, and it weighs less.

FITS UP TO 1.25" FLANGE	FITS FLANGES 3.5"-14" WIDE	FOR USE ON TOP OR BOTTOM	

BEAMER 2000+
MADE WITH ALUMINUM, BRONZE MANGANESE, ZINC-PLATED STEEL, & STAINLESS STEEL

00102

FITS UP TO 1.25" FLANGE	FITS FLANGES 3.5"-14" WIDE	FOR USE ON TOP OR BOTTOM	

BEAMER 3000
MADE WITH ALUMINUM, BRONZE MANGANESE, ZINC-PLATED STEEL, & STAINLESS STEEL

00104



Beamer 3000
Part # 00104

The ***Beamer 3000*** expands upon the features of the *Beamer 2000* by offering two points of adjustment for even greater versatility.

Fall Protection
Anchors

GUARDIAN FALL PROTECTION

BEAMER®



BEAMER BBC
MADE WITH STAINLESS STEEL, GALVANIZED STEEL, & ALUMINUM

FITS		FOR USE ON	
8"-18" WIDE FLANGE	FITS FLANGES 2.5" THICK	TOP OR BOTTOM	00125
	FITS FLANGES 2.5"-4" THICK		00127

The ***Beamer BBC*** is a Fall Arrest anchor designed for use on the top or bottom flange of a steel beam. It shares many of the features of its relative, the *Beamer 2000*, but with models available to fit an even wider variety of beam sizes.

BEAMER BBC
MADE WITH STAINLESS STEEL, GALVANIZED STEEL, & ALUMINUM

FITS		FOR USE ON	
12"-24" WIDE FLANGE	FITS FLANGES 2.5" THICK	TOP OR BOTTOM	00130
	FITS FLANGES 2.5"-4" THICK		00135



- Easy to install
- Moves smoothly along beam
- Lightweight and durable

BEAMER PIN REPLACEMENT 00134



Minotaur Beamer
Part # 00106

FITS UP TO	FITS FLANGES	FOR USE ON TOP OR BOTTOM	MINOTAUR BEAMER	
2½" FLANGE	12"-30" WIDE		MADE WITH ALUMINUM, BRONZE MANGANESE, ZINC-PLATED STEEL, & NICKEL-PLATED STEEL	00106

Featuring the same high performance and durability of Guardian's other Beamer products, the ***Minotaur Beamer*** is specially designed for attachment to wider beam flanges.

Fall Protection
Anchors

GUARDIAN FALL PROTECTION

BEAMER®



Vertical Beamer 3000
Part # 00142

FITS FLANGES FROM .25"-1.25" THICK | FITS FLANGES 4"-14" WIDE | FOR USE ON TOP OR BOTTOM

VERTICAL BEAMER 3000
MADE WITH ALUMINUM, STAINLESS STEEL, & CHROME-PLATED STEEL

00142

Suitable for installation either vertically or horizontally, the ***O-Torque Beamer*** clamps to compatibly sized beams to establish a stationary anchor point. Use the *O-Torque* as a standalone anchorage connector, or as an anchor for a horizontal lifeline system.

The ***Vertical Beamer 3000*** is suitable for installation onto either vertical or horizontal I-beams. The *Vertical Beamer 3000* can be installed by one person without the need for any tools or special equipment, and its durable components allow it to stand up against even the harshest jobsite conditions.



Beamer Trolly Anchor
Part # 00215

FITS FLANGES UP TO .9" THICK | FITS FLANGES 3"-10" WIDE | FOR USE ON BOTTOM ONLY

BEAMER TROLLY ANCHOR
MADE OF STAINLESS STEEL, ALUMINUM, NICKEL-PLATED STEEL, & POLYESTER

00215

The ***Beamer Trolly Anchor*** is intended for installation to steel beams, and is specially designed with rollers for smooth travel along the beam. The locking toggles allow for easy adjustment and eliminate the risk of accidental clamp slippage.

Fall Protection
Confined Space

FALLTECH
Fall Protection. Precision Engineered.

7509 | 8' Tripod / SRL-R and Winch

Aluminum



Features 60' galvanized cable SRL-R and Personnel Winch, includes tripod storage bag plus storage bag and leg bracket for each device. Also available with stainless steel cable. (see table for all 8' Tripod kit configurations).

7509S: Kit with Stainless Steel cable.

7504 | 11' Tripod Kit / SRL-R and Winch

Aluminum



Features 60' galvanized cable SRL-R and Personnel Winch, includes tripod storage bag plus storage bag and leg bracket for each device. Also available with stainless steel cable. (see table for all 11' Tripod kit configurations).

7504S: Kit with Stainless Steel cable.

7276 | 8' Adjustable Tripod

Aluminum



Extruded aluminum 2-stage adjustable legs provide 5' to 8' working height, includes two head-mounted pulleys and two anchoring auxiliary eyebolts, leg-securing safety chain and steel feet with non-slip pads. Offers 55" to 91" internal working height and includes 70" storage bag.

8' Tripod Kit Contents

Kit #	Cable	SRL-R	Winch
7509	Galvanized	7281	7297
7508	Galvanized	7281	-
7507	Galvanized	-	7297
7509S	Stainless Steel	7281S	7297S
7508S	Stainless Steel	7281S	-
7507S	Stainless Steel	-	7297S

7275 | 11' Adjustable Tripod

Aluminum



Extruded aluminum 2-stage adjustable legs provide 6' to 11' working height, head-mounted pulley and two auxiliary head-plate connecting eyes, leg-securing safety chain and aluminum feet with non-slip pads. Offers 67" to 118" internal working height and includes 80" storage bag.

11' Tripod Kit Contents

Kit #	Cable	SRL-R	Winch
7504	Galvanized	7281	7297
7500	Galvanized	7281	-
7505	Galvanized	-	7297
7504S	Stainless Steel	7281S	7297S
7500S	Stainless Steel	7281S	-
7505S	Stainless Steel	-	7297S

Fall Protection
Stanchion Systems

FALLTECH
Fall Protection. Precision Engineered.

SteelGrip® I-beam Stanchions deliver the flexibility to configure specific length systems by providing durable end-point and intermediate anchorage for temporary cable horizontal lifelines. Each stanchion features three modular components to securely adapt to your specific configurations as the jobsites change, and for the ease of replacing and supplementing existing components. Post, base and clamp components are available separately and in combinations to fit I-beams from 4" to 24" wide and collectively provide simple installation and low cost of ownership.

603018K | SteelGrip® I-Beam Stanchion



Each complete SteelGrip® Stanchion includes a 42" plated steel post and base plus one of three threaded clamp bar and wing nut combinations of 12", 18" and 24" width capacity to fit various I-beam flanges.

603012K: Stanchion with 12" clamp bar.
603018K: Stanchion with 18" clamp bar.
603024K: Stanchion with 24" clamp bar.

Universal base with clamp bar pairings plus threaded clamp bars with wing nuts are also offered separately for 12", 18" and 24" I-beam flange widths to suit your specific system configurations.

630018C | Clamp Bar Set

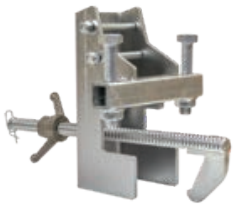
18" Clamp Bar



630012C: 12" Stanchion clamp bar.
630018C: 18" Stanchion clamp bar.
630024C: 24" Stanchion clamp bar.

630118CB | Base and Clamp Set

Base with 18" Clamp



630112CB: 12" clamp bar with base.
630118CB: 18" clamp bar with base.
630124CB: 24" clamp bar with base.

630042P | Stanchion Post



In addition to clamp bars and base/clamp sets offered separately (shown above), individual replacement components are also available to supplement specific needs and to support your custom-build system configurations.

630003B | I-Beam Base



630001T | Pass-through Bracket



630002W | Wing Nut



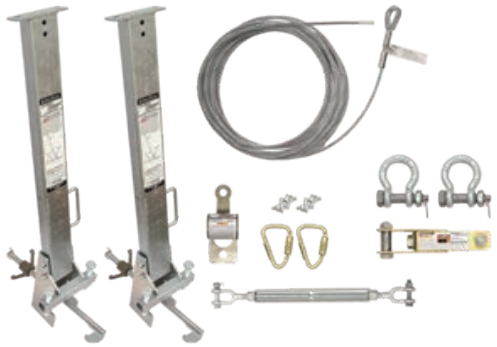
Fall Protection
Stanchion Systems

FALLTECH
Fall Protection. Precision Engineered.

FallTech® SteelGrip® Horizontal Lifelines provide an adjustable length and portable anchorage solution for users working in the absence of proper anchorages along a horizontal surface. All SteelGrip® systems are designed for temporary use and are available with end-point anchorage options in various precut lengths for manageable on-site adjustment to match construction jobsite conditions.

6036018 | SteelGrip® 60' Cable HLL

Stanchions



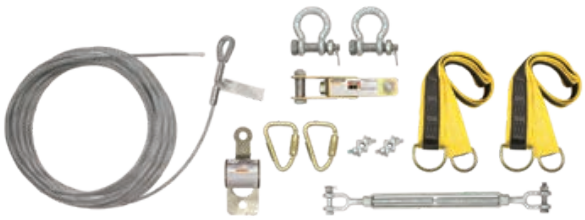
Complete Cable HLL Systems with I-beam Stanchions are offered with 3/8" cable in 30', 60', 80' and 100' lengths with adjustable base clamps to fit beam flanges from 4" to 24" wide. 30' and 60' systems include 1 coil energy absorber, 80' and 100' extended span systems include 2 coil energy absorbers and 3 stanchions and all include our SteelGrip® line tension indicator.

System #	Length	Stanchions	Clamp Width
6033012	30'	2	12"
6036012	60'	2	12"
6038012	80'	3	12"
60310012	100'	3	12"
6033018	30'	2	18"
6036018	60'	2	18"
6038018	80'	3	18"
60310018	100'	3	18"

Systems also available with 24" base clamps in 30' to 100' spans.

60260A | SteelGrip® 60' Cable HLL

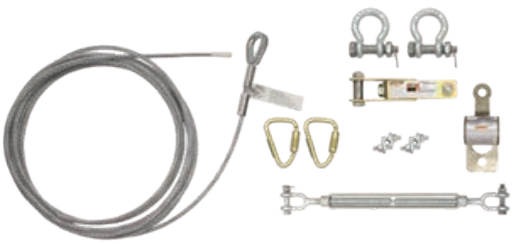
Pass-through Chokers



Complete Cable HLL Systems with 3/8" cable available in 30', 60', 80' and 100' lengths including two 6' pass-through chokers for end-point anchorage plus our SteelGrip® line tension indicator.

System #	Length	Absorbers	Anchors
60230A	30'	1	2
60260A	60'	1	2
60280A	80'	2	2
602100A	100'	2	2

620060 | SteelGrip® 60' Cable Assembly



Cable HLL assemblies for use with user-supplied anchorages feature our SteelGrip® line tension indicator and 3/8" cable; lengths longer than 60' include 2 coil energy absorbers. Available in 10' length increments from 30' up to 330'; call for part #s and availability.

System #	Length	Absorbers
620030	30'	1
620060	60'	1
620330	330'	2

62103D | Energy Absorber



62205T | Tension Indicator



62101B | Installation Kit



Multiple additional coil energy absorbers and installation hardware also available separately and in user-preferred combinations.

Fall Protection
Temporary Guard Rail

FALLTECH
Fall Protection. Precision Engineered.

The most effective method of proactively protecting workers from falls is to eliminate the fall hazard, and one of the most effective solutions for eliminating the hazard is with FallTech's portable construction guardrail assembly. The dual-application guardrail assembly is adjustable for parapet wall and slab edge thicknesses from 6½" to 24½" and installs easily with common user-supplied 2 x 4 dimensional lumber. Each assembly features rail brackets for top and mid-rail guards and for toe-boards when used on slab edges. FallTech® temporary construction guardrails are highly portable and provide a cost-effective solution for common construction hazards like wall and floor openings, uncovered holes, roof and elevator openings and unprotected ramps and leading edges.

6040422 | Construction Guardrail Assembly



Guardrail assembly shown in parapet wall application.

Guardrail assembly shown in slab edge application.

For added versatility, we also offer the guardrail assembly components sold separately.

6402ADJ | Guardrail Clamp Base



6401422 | 42" Guardrail Post



6409PC | Post Adapter Sleeve



For use with 7460A Parapet Anchor and 6401422 Post



Load Measurement Section

(Pages 547-560)

Compression Load Cell 556-557
Compression Load Cell, Pancake 560
Crane Scale 552-553
Dynamometer 558
Load Link 548-551
Loadshackle 554-555

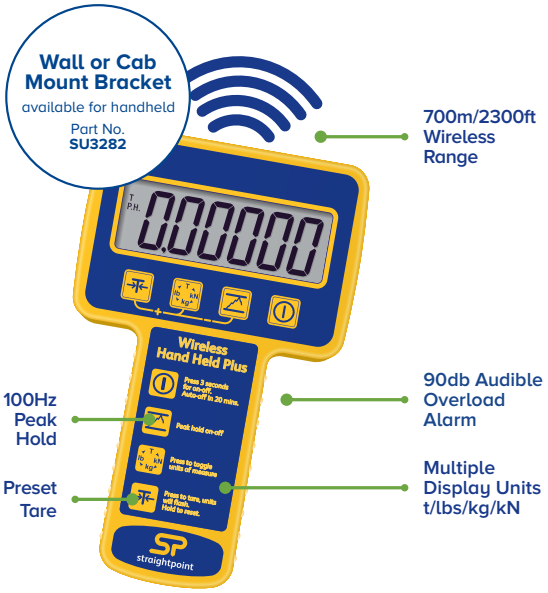
Load Link
Wireless

straightpoint

Radiolink plus



- Hardened bushes to accept industry standard shackles
- Std. AA Batteries 1200hrs Easy no tools access
- Internal Antennae
- Environmental protection IP67/NEMA6
- High quality hard anodised aerospace aluminium
- Angular ends to reduce weight and snagging when rigged



DNV-GL type approved wireless tension load cell capable of weighing and dynamic load monitoring in capacities from 1t to 500t – from stock with an ATEX and IECEx version available for hazardous areas, zones 0, 1 & 2.

Two versions of the RLP are available:

- Long range 2.4GHz version providing industry leading wireless range of 700m or 2300ft to SP's SW-HHP handheld or software options.
- Bluetooth output and can be connected to any smart phone running our free HHP app on iOS or Android at ranges up to 100m or 328ft.

Constructed from high quality aerospace grade aluminium it features an advanced internal design structure. This design not only provides the product with an unrivalled strength to weight ratio but it also allows the use of a separate internal sealed enclosure providing the load cell's electronic components with IP67 or NEMA6 environmental protection even with the battery cover plate missing, making this industry leading dynamometer even more suitable for use in the harshest environments.

The versatile RLP is supplied with an update rate of 3Hz and can be easily configured to run at industry leading speeds of up to 200Hz making it ideal for dynamic force measurement. It is designed to be rigged with standard industry shackles from manufacturers such as Crosby, Van Beest and GN Rope.

Decades of development into this product include many stand out features such as SP's unique strain gauging method that helps compensate for wire rope torque when the Radiolink is loaded. The Radiolink plus tension load cell can also be used in combination with Straightpoint SW-MWLC high speed wireless data logging software allowing for simultaneous control, display and real time data logging of up to 100 Straightpoint wireless load cells.

A full array of wireless accessories are also available including signal boosters, LED wireless scoreboards and base stations with analogue (4-20mA, 0-10v, 0-5v) or digital (RS232/485, Modbus RTU, and ASCII) outputs.

Other features and benefits:

- Proprietary 2.4 GHz Wireless
- Remote On-Off from handheld display or software
- ATEX Zones 0, 1 & 2 available
- Design validated by F.E.A.
- 2 year warranty
- DNV-GL Type Approval
- Complies with ASME B30.26
- Bluetooth option is available and is supplied with a free HHP App for iOS and Android

making the lifting industry a safer place

Load Link
Wireless

straightpoint

Also available with hazardous area approval. Zones 0, 1 & 2

ATEX / IECEx

Ex ia II C T4 Ga

Certification numbers:

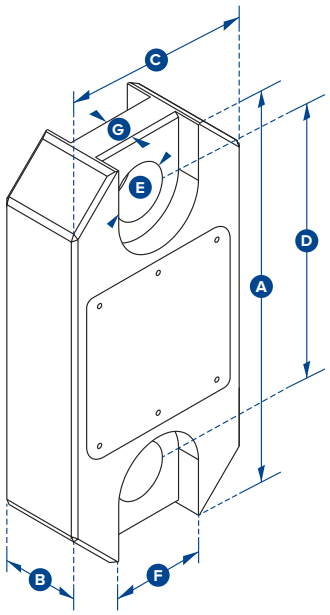
RLP ATEX

IECEx SIR 15.0071X / Sira 15ATEX2195X

SW-HHP ATEX

IECEx SIR 15.0072X / Sira 15ATEX2196X

Add 'ATEX' to the part number when ordering ATEX/IECEx products. For example: RLP6T5-ATEX



Part Number	RLP1T	RLP2T5	RLP6T5	RLP12T	RLP25T	RLP35T	RLP55T	RLP75T	RLP100T	RLP150T	RLP200T	RLP250T	RLP300T	RLP500T
Capacity	1,000kg	2.5te	6.5te	12te	25te	35te	55te	75te	100te	150te	200te	250te	300te	500te
	2200lb	5500lb	14300lb	26000lb	55000lb	77000lb	120000lb	165000lb	220000lb	330000lb	440000lb	550000lb	660000lb	1100000lb
Resolution	0.5kg	0.001te	0.001te	0.002te	0.005te	0.005te	0.01te	0.01te	0.05te	0.05te	0.1te	0.1te	0.1te	0.1te
	1lb	2lb	2lb	5lb	10lb	10lb	20lb	20lb	100lb	100lb	200lb	200lb	200lb	200lb
Units	kg	te	te	te	te	te	te	te	te	te	te	te	te	te
	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb
Weight	1.5kg	1.5kg	2.4kg	3.7kg	5kg	8.6kg	13kg	16kg	34kg	46kg	82kg	82kg	118kg	193kg
	3.3lb	3.3lb	5.3lb	8.2lb	11lb	19lb	28.7lb	35.3lb	75lb	101.4lb	180.8lb	180.8lb	260lb	425.5lb
Safety Factor	12:1	7:1	7:1	7:1	5:1	5:1	5:1	5:1	5:1	4:1	5:1	4:1	5:1	5:1
Battery Type	Handheld 2 x AA/Load cell 4 x AA													
Battery Life	Handheld 60 hours/Load cell 1200 hours continuous													
Display Type	6 digit 25mm / 1" LCD													
Operating Temp	-10°C to +50°C / 14°F to 122°F													
Accuracy	±0.1% full scale													
Frequency	2.4 GHz													
System Range	700 metres / 2300 feet (100 metres / 328 feet if Bluetooth)													
Data Rate	3 Hz - up to 200 Hz can be ordered for dynamic load monitoring applications													
Protection	IP67 / NEMA 6													
Dimension A	204	204	249	305	340	393	424	470	608	670	700	700	806	930
	8.03"	8.03"	9.80"	12.01"	13.39"	15.47"	16.69"	18.50"	23.94"	26.38"	27.56"	27.56"	31.73"	36.61"
Dimension B	43	43	43	47	60	75	75	75	99	99	144	144	150	150
	1.69"	1.69"	1.69"	1.85"	2.36"	2.95"	2.95"	2.95"	3.90"	3.90"	5.67"	5.67"	5.91"	5.91"
Dimension C	104	104	113	113	115	126	180	202	255	303	350	350	426	570
	4.09"	4.09"	4.45"	4.45"	4.53"	4.96"	7.09"	7.95"	10.04"	11.93"	13.78"	13.78"	16.77"	22.44"
Dimension D	146	146	165	193	215	225	230	260	320	360	350	350	350	450
	5.75"	5.75"	6.50"	7.60"	8.46"	8.86"	9.06"	10.24"	12.60"	14.17"	13.78"	13.78"	13.78"	17.72"
Dimension ØE	24.5	24.5	38	47.5	55	60	76	76	109	109	145	145	160	200
	0.96"	0.96"	1.50"	1.87"	2.17"	2.36"	2.99"	2.99"	4.29"	4.29"	5.71"	5.71"	6.30"	7.87"
Dimension F	48	48	66	Not relevant in this capacity										
	1.89"	1.89"	2.60"											
Dimension G	19	19	32											
	0.75"	0.75"	1.26"											
Crosby Shackle	G2130						G2140							GN-H10
Loading Pin Ø	19	19	25	35	51	57	57	70	83	95	121	127	152	185
	3/4"	3/4"	1"	1 3/8"	2"	2 1/4"	2 1/4"	2 3/4"	3 1/4"	3 3/4"	4 3/4"	5"	6"	7 1/4"

Load Link
Digital

straightpoint

Loadlink plus



Known worldwide as the original electronic force measurement device to feature an integral display, the Loadlink plus has been in production since 1979. Over the years the line has been expanded and the Loadlink plus is now used on a daily basis for load monitoring and heavy lifts ranging in capacity from 1t to 300t, by a variety of industrial and commercial industries including manufacturing, transportation, agriculture, oil and gas, utilities, aerospace and clean energy.

This latest version of the well-known product has advanced features and benefits providing solutions for today's complicated load test and force monitoring needs. The Loadlink plus features full function push button controls for tare, choice of units (lbs, kg, kN, and tonnes), peak hold, preset tare, audible set-point alarm and an overload counter.

The advanced microprocessor based electronics provide the Loadlink plus with high speed read rates, extreme resistance to industrial level noise and unprecedented stability. This high stability gives the Loadlink plus over 5,000 divisions and the highest standard resolution of any digital dynamometer on the market today. Constructed of high-grade aircraft quality aluminium, Straightpoint's advanced internal design structure allows the product to once again top the charts with an unmatched weight to strength ratio. Straightpoint's link style dynamometers are on average 30% lighter than our closest competitor with the same safety rating.

Optional connection to Straightpoint's Handheld plus (HHP) or Straightpoint's Desktop controller data logging software package (DCP10M).

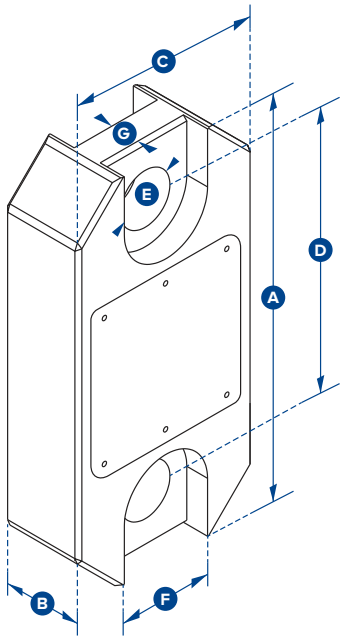
Features and benefits:

- Large 25mm/1" LCD display
- High accuracy
- Selectable units te, lbs, kN & kg
- High resolution
- 100Hz Peak hold
- Push button tare
- Light weight
- Preset tare
- Overload counter
- 90db Audible set point alarm
- RS-485 serial output
- Design validated by F.E.A.
- 2 year warranty
- DNV-GL Type Approval
- Complies with ASME B30.26

making the lifting industry a safer place

Load Link
Digital

straightpoint



Part Number	LLP1T	LLP2T5	LLP6T5	LLP12T	LLP25T	LLP35T	LLP55T	LLP75T	LLP100T	LLP150T	LLP200T	LLP250T	LLP300T
Capacity	1,000kg	2.5te	6.5te	12te	25te	35te	55te	75te	100te	150te	200te	250te	300te
	2200lb	5500lb	14300lb	26000lb	55000lb	77000lb	120000lb	165000lb	220000lb	330000lb	440000lb	550000lb	660000lb
Resolution	0.5kg	0.001te	0.001te	0.002te	0.005te	0.005te	0.01te	0.01te	0.05te	0.05te	0.1te	0.1te	0.1te
	1lb	2lb	2lb	5lb	10lb	10lb	20lb	20lb	100lb	100lb	200lb	200lb	200lb
Units	kg	te	te	te	te	te	te	te	te	te	te	te	te
	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb
Weight	1.5kg	1.5kg	2.4kg	3.7kg	5kg	8.6kg	13kg	16kg	34kg	46kg	82kg	82kg	118kg
	3.3lb	3.3lb	5.3lb	8.2lb	11lb	19lb	28.7lb	35.3lb	75lb	101.4lb	180.8lb	180.8lb	260lb
Safety Factor	12:1	7:1	7:1	7:1	5:1	5:1	5:1	5:1	5:1	4:1	5:1	4:1	5:1
Battery Type	9v PP3												
Battery Life	80 hours continuous												
Display Type	6 digit 25mm / 1" LCD												
Operating Temp	-10°C to +50°C / 14°F to 122°F												
Accuracy	±0.1% full scale												
Protection	IP65 / NEMA 4X												
Dimension A	204	204	249	305	340	393	424	470	608	670	700	700	806
	8.03"	8.03"	9.80"	12.01"	13.39"	15.47"	16.69"	18.50"	23.94"	26.38"	27.56"	27.56"	31.73"
Dimension B	43	43	43	47	60	75	75	75	99	99	144	144	150
	1.69"	1.69"	1.69"	1.85"	2.36"	2.95"	2.95"	2.95"	3.90"	3.90"	5.67"	5.67"	5.91"
Dimension C	104	104	113	113	115	126	180	202	255	303	350	350	426
	4.09"	4.09"	4.45"	4.45"	4.53"	4.96"	7.09"	7.95"	10.04"	11.93"	13.78"	13.78"	16.77"
Dimension D	146	146	165	193	215	225	230	260	320	360	350	350	350
	5.75"	5.75"	6.50"	7.60"	8.46"	8.86"	9.06"	10.24"	12.60"	14.17"	13.78"	13.78"	13.78"
Dimension ØE	24.5	24.5	38	47.5	55	60	76	76	109	109	145	145	160
	0.96"	0.96"	1.50"	1.87"	2.17"	2.36"	2.99"	2.99"	4.29"	4.29"	5.71"	5.71"	6.30"
Dimension F	48	48	66	Not relevant in this capacity									
	1.89"	1.89"	2.60"										
Dimension G	19	19	32										
	0.75"	0.75"	1.26"										
Crosby Shackle	G2130						G2140						
Loading Pin Ø	19	19	25	35	51	57	57	70	83	95	121	127	152
	3/4"	3/4"	1"	1 3/8"	2"	2 1/4"	2 1/4"	2 3/4"	3 1/4"	3 3/4"	4 3/4"	5"	6"

Crane Scale
Digital

straightpoint

Miniweigher plus



Features and benefits:

- Large 25mm/1" LCD Display
- High Accuracy
- Selectable Units te, lbs, kN & kg
- High Resolution
- Compact Size
- Tare
- Preset Tare
- Lightweight
- Overload Counter
- 90dB Audible Set Point Alarm
- RS-485 Serial Output
- Corrosion Resistant Finish

Optional connection to Straightpoint's Handheld plus (SU3343) or Straightpoint's Desktop controller data logging software package (DCP10M).

This small and compact mini crane weigher scale will suit most lifting applications. Available in capacities from 100kg to 5t. Worldwide, it's Straightpoint's most popular product and has been manufactured since 1987. The Miniweigher plus crane scale offers robust construction, high accuracy, compact size and extreme portability.

Utilised by utility companies on every continent, the Miniweigher plus crane scale is quite often mounted between a winch and a tripod, allowing the load monitoring and safe lowering and raising of equipment and personnel, and has proven itself to be an indispensable tool for underground sewer, water, gas, and utility vault access.

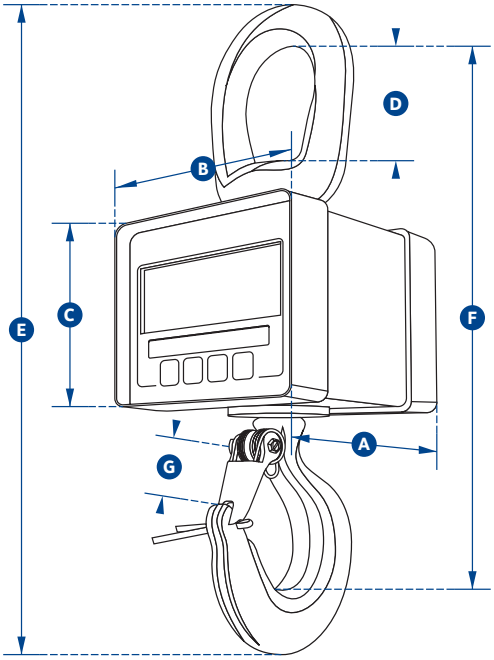
The Miniweigher plus features full function push button controls for tare, choice of units (lbs, kg, kN and tonnes), peak hold, preset tare, audible set-point alarm and an overload counter.

Straightpoint's advanced microprocessor based electronics provide the Miniweigher plus with high speed read rates, extreme resistance to industrial level noise and unprecedented stability. This high stability allows 5,000 + divisions and the highest standard resolution of any compact digital crane scale on the market today. The unit also features a RS-485 serial output providing added functionality and versatility.

In all, the lightweight design, corrosion resistant finish, advanced electronics and full feature display have made the Miniweigher plus crane scale the only choice when looking for a compact, safe and accurate, crane scale.

Crane Scale
Digital

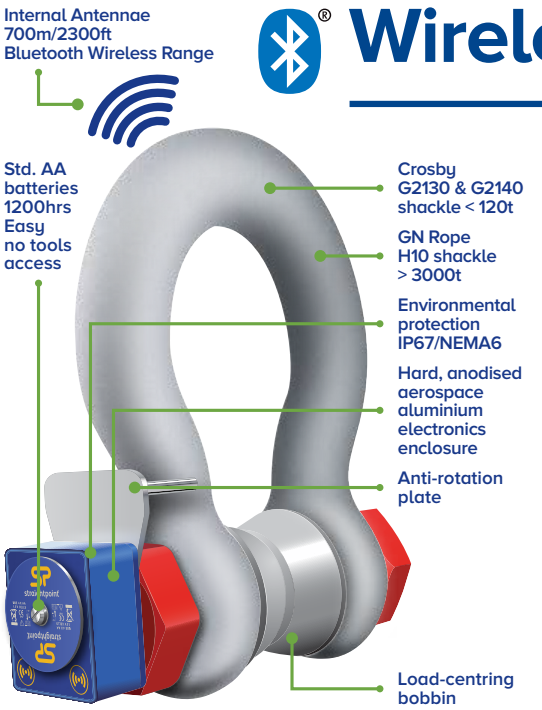
straightpoint



Part Number	MWP100KG	MWP250KG	MWP500KG	MWP1T	MWP2T	MWP5T
Capacity	100kg	250kg	500kg	1000kg	2te	5te
	220lb	550lb	1100lb	2200lb	4400lb	11000lb
Resolution	0.05kg	0.01kg	0.2kg	0.5kg	0.001te	0.001te
	0.1lb	0.2lb	0.5lb	1lb	2lb	2lb
Units	t, kg, kN and lb					
	lb, t, kg and kN					
Weight	1.5kg	1.5kg	1.5kg	1.5kg	3.1kg	8.7kg
	3.3lb	3.3lb	3.3lb	3.3lb	6.8lb	19.2lb
Safety Factor	10:1	5:1	5:1	5:1	5:1	5:1
Battery Type	9v PP3					
Battery Life	80 hours continuous					
Display Type	6 digit 25mm LCD / 6 digit 1" LCD					
Operating Temp	-10°C to +50°C / 14°F to 122°F					
Accuracy	±0.1% full scale					
Protection	IP65 / NEMA 4X					
Dimension A	82	82	82	82	117	136
	3.23"	3.23"	3.23"	3.23"	4.61"	5.35"
Dimension B	113	113	113	113	112	112
	4.45"	4.45"	4.45"	4.45"	4.41"	4.41"
Dimension C	81	81	81	81	92	92
	3.19"	3.19"	3.19"	3.19"	3.62"	3.62"
Dimension D	50	50	50	50	64	98
	1.97"	1.97"	1.97"	1.97"	2.52"	3.86"
Dimension E	240	240	240	240	320	444
	9.45"	9.45"	9.45"	9.45"	12.60"	17.48"
Dimension F	208	208	208	208	271	365
	8.19"	8.19"	8.19"	8.19"	10.67"	14.37"
Dimension G	22	22	22	22	28	42
	0.87"	0.87"	0.87"	0.87"	1.10"	1.65"

Loadshackle
Wireless

straightpoint



Wireless Loadshackle

Features and benefits:

- Proprietary 2.4 GHz wireless
- Error free data transmission
- Industry Leading Wireless Range of 700m/2300ft
- Environmentally sealed to IP67/NEMA6
- Internal antennae
- Remote on/off
- Unrivalled resolution
- Unmatched battery life of 1200hrs
- Low headroom solution
- Manufactured using leading brand shackles
- Each WLS is supplied with a load-centring bobbin
- Design validated by F.E.A.
- Bluetooth option is available and is supplied with a free HHP App for iOS and Android

Available from stock in capacities 3.25t to 120t and available up to 1,550t, the WLS is manufactured from Crosby's industry leading 2130 Carbon and 2140 Alloy Bolt Type Anchor Shackles (3.25te – 120te) and the GN H10 Alloy Bolt Type Anchor Shackle (200te on up).

Straightpoint's Wireless Loadshackle provides the perfect solution to limited headroom applications. Each Wireless Loadshackle is proof tested, then equipped with a hard anodised aluminium electronics enclosure. Contained within this aluminium enclosure is a new internal chassis providing IP67/NEMA6 environmental protection even with the battery cover plate missing.

Featuring industry leading wireless technology and range of 700m/2300ft, the Wireless Loadshackle is supplied with an update rate of 3Hz and can be easily configured to run at industry leading speeds of up to 200Hz. Data is transmitted wirelessly utilising the latest in IEEE 802.15.4 (2.4 GHz) technology providing safe, high integrity, error free transmission of both static weight and dynamic load to a wireless handheld controller or wireless Windows PC data logging software package. Straightpoint's wireless data logging software allows for simultaneous control, display and real time data logging of up to 100 Straightpoint telemetry load cells. Logged data is captured in a .csv file format and opens in MS Excel providing easy visual presentation, analysis of logged data, and simple test certificate generation.

The Wireless Loadshackle may also be used with Straightpoint's SW-PTP software package allowing the operator to perform load tests at a safe distance and generate real time test certificates on site.

Straightpoint's Wireless Loadshackle utilises easily sourced AA alkaline batteries and features advanced circuitry designed to protect the unit from damage associated with incorrectly installed batteries. This advanced circuitry extends battery life and the use of easily sourced alkaline batteries eliminates issues associated with rechargeable battery pack charging, failure and replacement. Straightpoint's huge range of tooling allows the engineers to calibrate in shackle for extra accuracy unlike many other load cell manufacturers.

A full array of wireless accessories are also available including signal boosters, LED wireless scoreboards and base stations with analogue (4-20mA, 0-10v, 0-5v) or digital (RS232/485, Modbus RTU, and ASCII serial communications protocol) outputs. There is no better choice than Straightpoint's Wireless Loadshackle for limited headroom applications.

making the lifting industry a safer place

Loadshackle
Wireless

straightpoint

Also available with hazardous area approval. Zones 0, 1 & 2

ATEX / IECEx

Ex ia II C T4 Ga

Certification numbers:

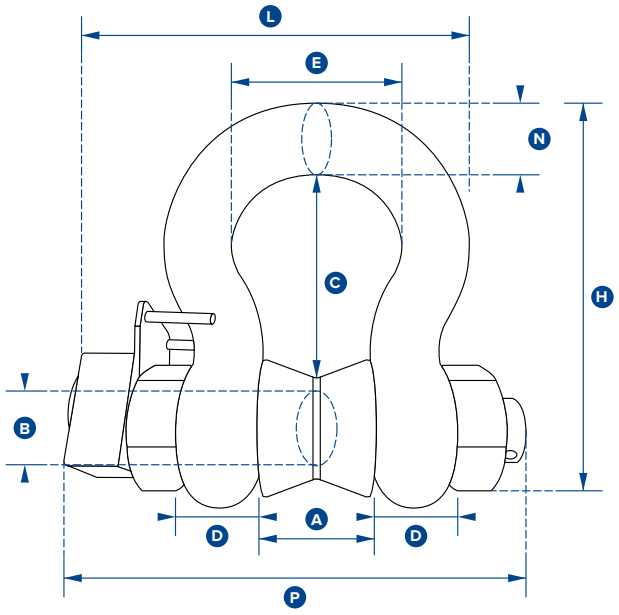
WLS ATEX

IECEx SIR 16.0041X / Sira 16ATEX2108X

SW-HHP ATEX

IECEx SIR 15.0072X / Sira 15ATEX2196X

Add 'ATEX' to the part number when ordering ATEX/IECEx products. For example: WLS3.25T-ATEX

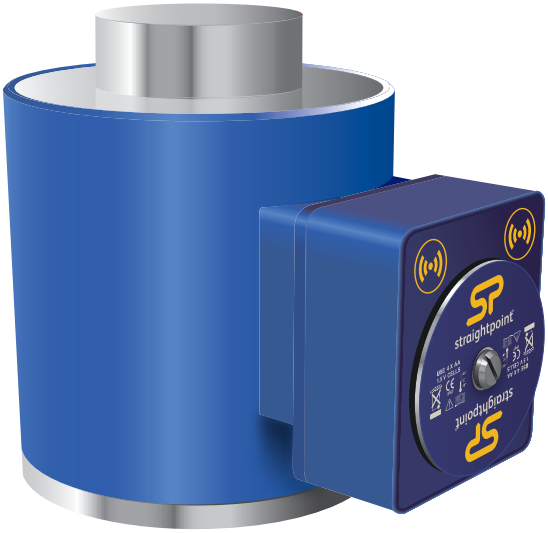


Part Number	WLS3.25T	WLS6.5T	WLS12T	WLS25T	WLS55T	WLS85T	WLS120T	WLS200T	WLS300T	WLS400T
Capacity	3.25te	6.5te	12te	25te	55te	85te	120te	200te	300te	400te
	7150lb	14300lb	26400lb	55000lb	120000lbs	185000lbs	260000lbs	440000lbs	660000lbs	880000lbs
Resolution	0.005te	0.005te	0.01te	0.02te	0.05te	0.05te	0.1te	0.2te	0.5te	0.5te
	10lb	10lb	20lb	50lb	100lb	100lb	200lb	200lb	1000lb	1000lb
Units	tonne									
	lb									
Weight	2.8kg	3.2kg	8kg	18kg	25kg	45kg	85kg	254kg	374kg	614kg
	6.16lb	7lb	17.6lb	40lb	55lb	99lb	187lb	560lb	825lb	1354lb
Safety Factor	5:1 when used with load bobbin									
Battery Type	Load cell 4 x AA Alkaline									
Battery Life	Load cell 1,200 hours continuous									
Operating Temp	-10°C to +50°C / 14°F to 122°F									
Accuracy	±1% full scale									
Frequency	2.4 GHz									
System Range	700 metres / 2300 feet (100 metres / 328 feet if Bluetooth)									
Data Rate	3 updates per second									
Protection	IP67 / NEMA 6									
Dimension A	26.9	36.6	51.5	73	82.5	105	127	180	205	230
	1.06"	1.44"	2.03"	2.87"	3.25"	4.13"	5.00"	7.09"	8.07"	9.06"
Dimension ØB	19.1	25.4	35.1	51	57	70	82.5	125	150	175
	0.75"	1.00"	1.38"	2.01"	2.24"	2.76"	3.25"	4.92"	5.91"	6.89"
Dimension C	56.9	79.7	113	170	189.5	253	319.5	483	576	650
	2.24"	3.14"	4.45"	6.69"	7.46"	9.96"	12.58"	19.02"	22.68"	25.59"
Dimension D	16	22.4	31.8	44.5	51	66.5	76	120	130	165
	0.63"	0.88"	1.25"	1.75"	2.01"	2.62"	2.99"	4.72"	5.12"	6.50"
Dimension E	42.9	58	82.5	127	164	184	200	290	305	325
	1.69"	2.28"	3.25"	5.00"	6.46"	7.24"	7.87"	11.42"	12.01"	12.80"
Dimension H	106	148	210	313	348	453	546	810	950	1100
	4.17"	5.83"	8.27"	12.32"	13.70"	17.83"	21.50"	31.89"	37.40"	43.31"
Dimension L	127.1	156.5	196	281	306	368	408	580	615	705
	5.00"	6.16"	7.72"	11.06"	12.05"	14.49"	16.06"	22.83"	24.21"	27.76"
Dimension N	17.5	24.6	35.1	57	61	79	92	120	130	165
	0.69"	0.97"	1.38"	2.24"	2.40"	3.11"	3.62"	4.72"	5.12"	6.50"
Dimension P	143	173	218	293	317	394	441	565	615	711
	5.63"	6.81"	8.58"	11.54"	12.48"	15.51"	17.36"	22.24"	24.21"	27.99"

Compression Load Cell
Wireless

straightpoint

Wireless Compression Load Cell



Features and benefits:

- Proprietary 2.4 GHz wireless
- Industry leading wireless range of 700m/2300ft
- Connects to SW-MWLC, WCOGS & SW-PTP software
- Error free data transmission
- Internal antennae
- Environmentally sealed to IP67/NEMA 6
- No cable assemblies required
- Unrivalled resolution
- Unmatched battery life of 1200hrs
- Reduced maintenance cost
- Compact size
- Remote on-off
- Design validated by F.E.A.
- Bluetooth option is available and is supplied with a free HHP App for iOS and Android

The Straightpoint Wireless Compression Load Cell is taking the heavy lift and structural weighing industry by storm. By adding the Straightpoint wireless system to the already popular compression load cell line we have developed a cost-effective alternative to standard compression load cells.

No longer hindered by troublesome and hard to maintain cables, large scale projects can be completed in a fraction of time previously required. Maintenance costs are all but eliminated due to the absence of cables and connectors, and the products flexibility opens the door to a large number of applications in the heavy lift, energy, defence, rigging, shipping, and general transportation sectors, previously not considered.

Straightpoint's Wireless Compression Load Cells are machined from high grade stainless steel, providing excellent strength and corrosion resistance. The heavy duty, compact load cell utilises Straightpoint's advanced microprocessor based electronics and benefits from unrivalled resolution and accuracy. Data transmission is handled by the Straightpoint wireless systems proprietary transport protocol, is unmatched in performance and capable of a licence free transmission range of up to 700 metres or 2300 feet.

It is not until you add the powerful array of wireless accessories that the full potential of this product is realised. These accessories which include a wireless signal booster and several user friendly Windows-based software packages, provide a level of flexibility not previously known in the load monitoring industry.

When used with Straightpoint's WCOGS software these load cells will calculate centre of gravity and load. Connected to SW-MWLC it will allow the ability to data log and print reports, allowing the simultaneous display and monitoring of up to 100 wireless compression load cells on your PC or tablet. Lastly, coupled with Straightpoint's SW-PTP software the operator can perform load tests at a safe distance and generate real time test certificates on site.

making the lifting industry a safer place

Compression Load Cell
Wireless

straightpoint

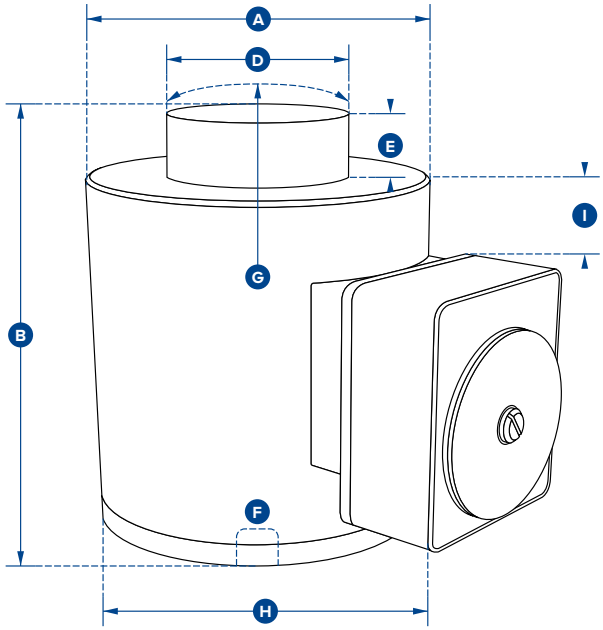
Also available with hazardous area approval. Zones 0, 1 & 2

ATEX / IECEx

Ex ia II C T4 Ga

Certification numbers:
WNI ATEX
IECEx SIR 16.0041X / Sira 16ATEX2108X
SW-HHP ATEX
IECEx SIR 15.0072X / Sira 15ATEX2196X

Add 'ATEX' to the part number when ordering ATEX/IECEx products. For example: WNI5TC-ATEX

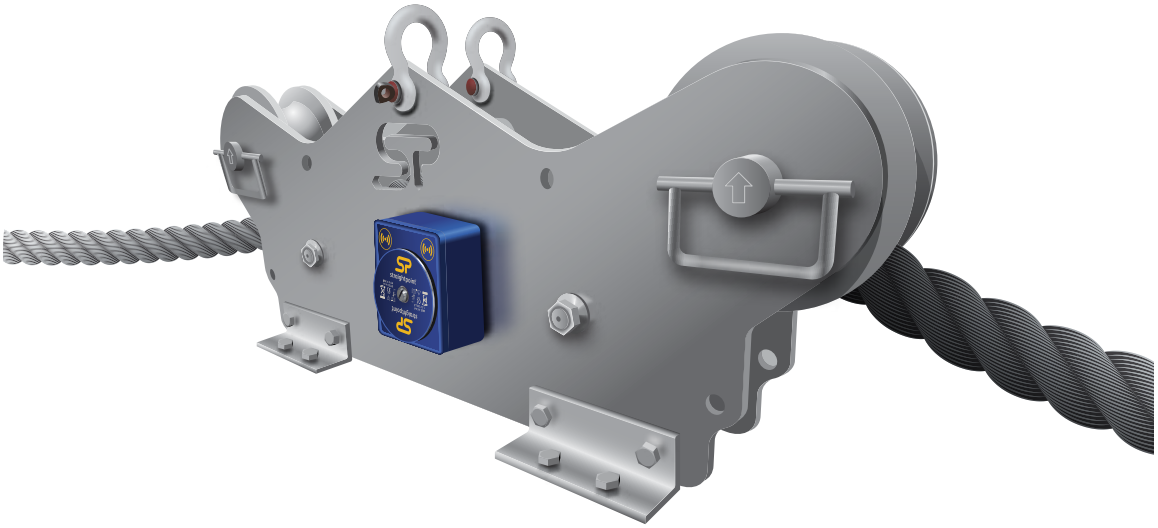


Part Number	WNI5TC	WNI10TC	WNI25TC	WNI50TC	WNI100TC	WNI150TC	WNI300TC	WNI500TC	WNI1000TC
Capacity	5te	10te	25te	50te	100te	150te	300te	500te	1000te
	11000lb	22000lb	55000lb	110000lb	220000lb	330000	660000lb	1100000lb	2200000lb
Resolution	0.001te	0.002te	0.005te	0.01te	0.05te	0.05te	0.1te	0.2te	0.5te
	2lb	5lb	10lb	20lb	100lb	100lb	200lb	500lb	1000lb
Units	tonne								
	lb								
Weight	6.2kg	6.2kg	6.2kg	6.2kg	15.5kg	15.5kg	65kg	65kg	172kg
	13.64lb	13.64lb	13.64lb	13.64lb	34lb	34lb	143lb	143lb	379lb
Safety Factor	3:1								
Battery Type	Load cell 4 x AA Alkaline								
Battery Life	Load cell 1,200 hours continuous								
Operating Temp	-10°C to +50°C / 14°F to 122°F								
Accuracy	±0.1% full scale								
Frequency	2.4 GHz								
System Range	700 metres / 2300 feet (100 metres /328 feet if Bluetooth)								
Data Rate	3Hz (configurable to 200Hz)								
Protection	IP67 / NEMA 6								
Dimension ØA	102	102	102	102	152	152	185	185	362
	4.02"	4.02"	4.02"	4.02"	5.98"	5.98"	7.28"	7.28"	14.25"
Dimension B	127	127	127	127	184	184	300	300	310
	5.00"	5.00"	5.00"	5.00"	7.24"	7.24"	11.81"	11.81"	12.20"
Dimension ØD	59	59	59	59	80	80	155	155	270
	2.32"	2.32"	2.32"	2.32"	3.15"	3.15"	6.10"	6.10"	10.63"
Dimension E	16	16	16	16	26	26	27.5	27.5	40
	0.63"	0.63"	0.63"	0.51"	1.02"	1.02"	1.08"	1.08"	1.57"
Dimension F	M18 x 2.5	M18 x 2.5	M18 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5	M30 x 3.5
	M18 x 2.5	M18 x 2.5	M18 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5	M20 x 2.5	M30 x 3.5
Dimension G	152	152	152	152	432	432	432	432	950
	5.98"	5.98"	5.98"	5.98"	17.01"	17.01"	17.01"	17.01"	37.40"
Dimension H	158	158	158	158	208	208	241	241	422
	6.22"	6.22"	6.22"	6.22"	8.19"	8.19"	9.49"	9.49"	16.61"
Dimension I	8	8	8	8	33	33	49	49	102
Loadcell top to SA700 top	0.31"	0.31"	0.31"	0.31"	1.30"	1.30"	1.93"	1.93"	4.02"

Dynamometer

straightpoint

Running Line Dynamometer



The TIMH range is a Running Line Tensiometer or RLTM built with dockside, marine, offshore, towage and salvage applications in mind.

It is particularly useful where there is no anchor or dead end on the line to rig a Straightpoint Radiolink or Loadlink digital dynamometer to measure tension force at speeds up to 20m/min or 65ft/min.

The TIMH is constructed from marine grade stainless steel and is suitable for many wire rope configurations up to 80t and will, as an option, calculate lineout in metres or feet.

The TIMH has several mounting points featured in its unique design but if other mounting options are required Straightpoint can provide a custom engineered solution specific to your application.

Available as a wireless or cabled system utilising Straightpoint's HHP range of handheld displays or SW-MWLC software, this impressive Running Line Dynamometer or RLTM is available to ship from stock, to anywhere in the world within days.

Features and benefits:

- Five wheel design improving accuracy
- Cabled or wireless options
- Fully constructed from corrosion resistant stainless steel
- IP67/NEMA6 Loadpin
- Gravity catches fitted to top sheave pins make wire rope installation quick and simple
- Industry leading battery life of 1200hrs (wireless)
- Maintenance free heavy duty bearings
- Large range of capacities to 150t and wire rope diameters up to 89mm/3½"
- Options for line out available
- Software available to data log and monitor or analogue outputs
- Design validated by F.E.A.
- Bluetooth option is available and is supplied with a free HHP App for iOS and Android

making the lifting industry a safer place

Dynamometer

straightpoint

Also available with hazardous area approval. Zones 0, 1 & 2

ATEX / IECEx

Ex ia II C T4 Ga

Certification numbers:

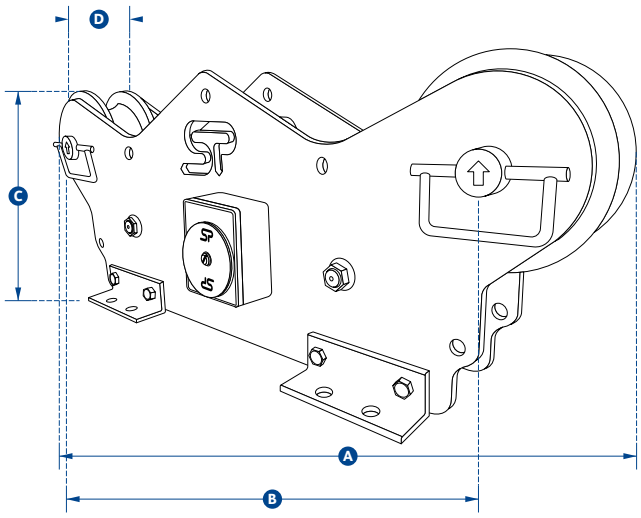
TIMH ATEX

IECEx SIR 16.0041X / Sira 16ATEX2108X

SW-HHP ATEX

IECEx SIR 15.0072X / Sira 15ATEX2196X

Add 'ATEX' to the part number when ordering ATEX/IECEx products. For example: TIMH10T-ATEX

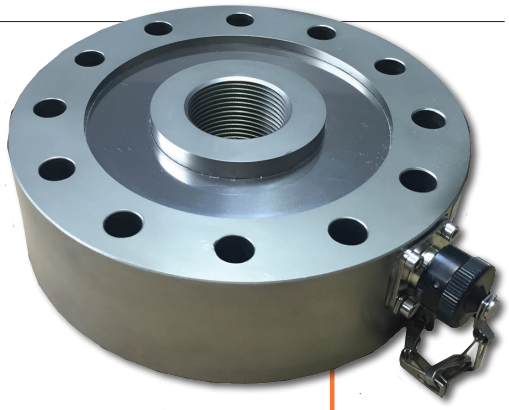


Part Number	MTIMH10T	TIMH10T	TIMH25T	TIMH56T	TIMH80T	TIMH150T
Capacity	10te	10te	25te	56te	80te	150te
	22000lb	22000lb	55000lb	123200lb	176000lb	330000lb
Resolution	0.01te	0.01te	0.02te	0.05te	0.1te	0.2te
	20lb	20lb	50lb	100lb	200lb	500lb
Wire Rope Ø	4-19mm	13-19mm	16-26mm	28-38mm	40-52mm	52-89mm
	5/32" - 3/4"	1/2" - 3/4"	5/8" - 1"	1 1/8" - 1 1/2"	1 5/8" - 2"	2" - 3 1/2"
Weight	9kg	90kg	86kg	81kg	76kg	230kg
	20lb	198lb	190lb	179lb	168lb	506lb
Battery Type	4 x AA Alkaline					
Battery Life	1200hrs continuous					
Operating Temp	-10°C to +50°C / 14°F to 122°F					
Accuracy	±2% full scale					
Frequency	2.4 GHz					
System Range	700 metres / 2300 feet (100 metres /328 feet if Bluetooth)					
Data Rate	3 updates per second					
Protection	IP67 / NEMA 6					
Maximum Speed	20m per minute / 65ft per minute					
Dimension A	422mm	880mm				1250mm
	16.62"	34.65"				49.21"
Dimension B	330mm	700mm				1050mm
	13"	27.55"				41.33"
Dimension C	152mm	330mm				416mm
	5.98"	12.99"				16.37"
Dimension D	36mm	110mm				153mm
	1.4"	4.33"				6.02"

Compression Load Cell
Pancake

Pancake Load Cell PC-1.0

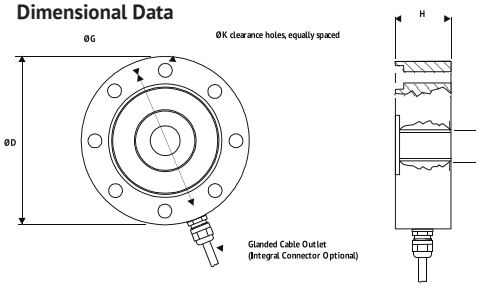
Low Profile Tension & Compression Load Cell - 0.56t to 112.40t.



Options

- Other ranges available on request
- Full range of mounting options
- Connector version
- Double bridge version
- ATEX approved version

Dimensional Data



Dimensions

Range (t)	Part Number	ØD	H	ØG	ØK		T
0.56	0001 – 1098	4 7/32	1 19/64	3 35/64	8off	21/64	M20x2
1.12	0001 – 1099	4 7/32	1 19/64	3 35/64	8off	21/64	M20x2
2.80	0001 – 1100	4 7/32	1 19/64	3 35/64	8off	21/64	M20x2
5.62	0001 – 1101	4 7/32	1 19/64	3 35/64	8off	21/64	M20x2
11.24	0001 – 1102	6 7/64	1 49/64	15 1/8	12off	7/16	M36x2
22.48	0001 – 1103	6 7/64	1 49/64	15 1/8	12off	7/16	M36x2
56.20	0001 – 1104	11 1/32	3 5/64	9 1/16	16off	43/64	M64x6
112.40	0001 – 1105	11 1/32	3 5/64	9 1/16	16off	43/64	M64x6

Features:

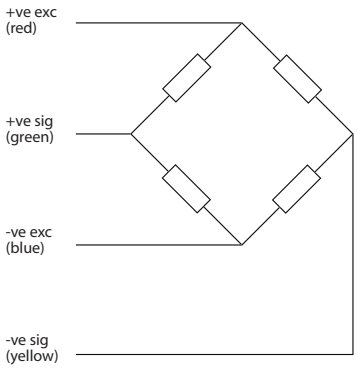
- **Range 0.56t to 112.40t**
- **Low profile design**
- **Low deflection**
- **ATEX certification available**
- **High natural frequency**
- **Excellent rejection of extraneous forces**
- **Fatigue rated to 10^9 full cycles**

Applications:

- Test machines
- Cable engines and tensioners
- Offshore applications
- Integration in OEM applications

Specification

Capacities	±5, ±10, ±25, ±50, ±100, ±200, ±500, ±1000 kN
Full Load Output	2.0 (±0.25%) mV/V
Zero Load Output	<±2.0 %
Excitation (Max)	10 (15) V
Accuracy	<0.1 %
Repeatability	<0.03 %
Input Resistance	375 (±20) Ω
Output Resistance	350 Ω
Compensated Temp. Range	-10 to +40 °C
Operating Temp. Range	-20 to +60 °C
Temp. Coefficient on Zero	<0.005% Capacity/°C
Temp Coefficient on Span	<0.005% Capacity/°C
Safe Overload	150 %
Insulation	500MΩ @100Vdc
Environmental Protection	IP65
Cable Length	4m



Construction Tools Section

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Rivet Busters

Chicago Pneumatic

Rivet Busters with CPS

Originally designed for cutting and forming metal rivets, the CP buster is now used for concrete demolition and has become one of the stars of the CP range. It has a low frequency blow with hitting power equivalent to a paving breaker twice its weight. The new CPS includes a stepped piston and step cylinder to prevent accidental ejection of the piston.



"D" handle



Open grip handle



Special Boyer valve

- Teasing throttle for progressive hitting frequency gives better control of such a powerful machine
- Special Boyer valve makes the cylinder stroke effectively longer for more hitting power
- Boyer valve's high quality design makes the blow more consistent
- Forged steel handle for long life in rugged conditions
- Stepped piston of hardened steel
- Stepped piston to prevent accidental ejection of the piston
- New buffer ring is now 90 durometer rubber for extra life
- Choice of cylinders:
  11" cylinder (720 bpm)
  8" cylinder (1080 bpm)
- Choice of handle:
  Open grip with outside trigger
  "D" handle with inside trigge
- 1/2" inlet bushing



4611 P - 11" OPEN HANDLE



4611 D - 11" D-HANDLE

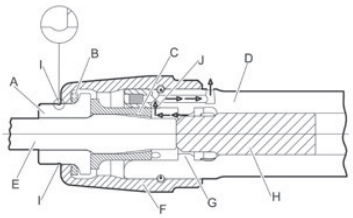
CPS Control Power System

The wear indicating groove (I) on the lower sleeve indicates that the bumper is completely worn out and needs to be replaced.

When the bumper is 75% worn out, the bleeding ports (J) are opened due to the outward movement of the upper and lower sleeves, causing the piston to stop in its lower position and the air to the exhaust above retainer.

Continuing to use the buster when the automatic stop function has triggered may cause damage to the sleeves and possibly the cylinder.

WORN OUT BUMPER



A. Lower sleeve
B. Bumper
C. Upper sleeve

MODEL	Part no.	Weight (lb)	Blows per minute (bpm)	Cylinder stroke (in)	Length (in)	Air consumption (cfm)	Air inlet (in)	Chuck size (Jumbo Shank)	Handle	Cylinder
4160 P*	*9246 0201 83*	*24*	*1,100*	*6*	*20.5*	*44*	*1/2*	*11" Jumbo*	*Open grip-outside trigger*	*Short cylinder*
4160 D*	*9245 9999 17*	*25*	*1,100*	*6*	*20.5*	*44*	*1/2*	*11" Jumbo*	*"D" handle-inside trigger*	*Short cylinder*
4608 P*	*8900 0001 49*	*30*	*1,080*	*8*	*23*	*45*	*1/2*	*.890" x 1.125" Taper*	*Open grip-outside trigger*	*Short cylinder*
4611 P*	*8900 0001 50*	*33*	*720*	*11*	*26*	*45*	*1/2*	*.890" x 1.125" Taper*	*Open grip-outside trigger*	*Long cylinder*
4608 D*	*8900 0001 51*	*31*	*1,080*	*8*	*23*	*45*	*1/2*	*.890" x 1.125" Taper*	*"D" handle-inside trigger*	*Short cylinder*
4611 D*	*8900 0001 52*	*34*	*720*	*11*	*26*	*45*	*1/2*	*.890" x 1.125" Taper*	*"D" handle-inside trigger*	*Long cylinder*

*With each buster, it is recommended that you also purchase these additional consumable items: a rubber bumpers (3303 0051 03), lower sleeve (P 072333), upper sleeve (P 156988), retainer spring (P 073942) and whip hose (9246 0203 64).

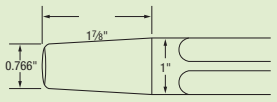
Rivet Busters
Steel

MADE IN USA

AJAX Tools

Rivet Buster Tools

STANDARD SHANK



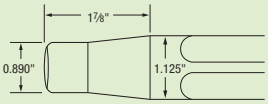
CAT.NO.	LENGTH	WIDTH	WT.
245	9"	—	1.5 lbs.
246	12"	—	2.1 lbs.
246-18	18"	—	2.5 lbs.
221	9"	7/8"	1.5 lbs.
221-12	12"	7/8"	2.1 lbs.
221-18	18"	7/8"	3.2 lbs.
222	9"	7/8"	1.5 lbs.

CAT.NO.	LENGTH	RIVET SIZE	WT.
223	9"	3/8"	1.3 lbs.
224	9"	1/2"	1.4 lbs.
225	9"	5/8"	1.5 lbs.
226	9"	3/4"	1.6 lbs.
227	9"	7/8"	1.6 lbs.
228	9"	1"	1.7 lbs.

CAT.NO.	LENGTH	RIVET SIZE	CLEARANCE	WT.
231	91/2"	5/8"	4"	1.3 lbs.
232	11 1/2"	5/8"	6"	1.4 lbs.
233	13 1/2"	5/8"	8"	1.7 lbs.
234	9 1/2"	3/4"	4"	1.5 lbs.
235	11 1/2"	3/4"	6"	1.7 lbs.
236	13 1/2"	3/4"	8"	1.9 lbs.
237	9 1/2"	7/8"	4"	1.8 lbs.
238	11 1/2"	7/8"	6"	2.1 lbs.
239	13 1/2"	7/8"	8"	2.3 lbs.

CAT.NO.	LENGTH	WIDTH	WT
241	9"	—	1.6 lbs.

JUMBO SHANK



CAT.NO.	LENGTH	WIDTH	WT.
296	10"	—	2 lbs.
297	12"	—	2.5 lbs.
297-18	18"	—	3.9 lbs.
297-24	24"	—	4.6 lbs.
276	9 1/2"	15/16"	1.9 lbs.
276C	9 1/2"	15/16"	1.9 lbs.
276-12	12"	15/16"	2.5 lbs.
276-12C	12"	15/16"	2.5 lbs.
276-18	18"	15/16"	3.9 lbs.
276-18C	18"	15/16"	3.9 lbs.
276-24	24"	15/16"	4.6 lbs.

Note: Jumbo flat chisels marked "C" are carbon steel for concrete.

CAT.NO.	LENGTH	WIDTH	WT.
277	9 1/2"	15/16"	2 lbs.
276-12-2	12"	2"	3.25 lbs.

Note: Use Ajax No. 274-S Split Lower Sleeve with 2" Chisels.

CAT.NO.	LENGTH	RIVET SIZE	WT.
278	9 1/2"	3/8"	1.5 lbs.
279	9 1/2"	1/2"	1.7 lbs.
280	9 1/2"	5/8"	1.8 lbs.
281	9 1/2"	3/4"	1.9 lbs.
282	9 1/2"	7/8"	1.9 lbs.
283	9 1/2"	1"	2 lbs
284	9 1/2"	1 1/8"	2 lbs.

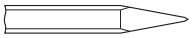
CAT.NO.	LENGTH	RIVET SIZE	CLEARANCE	WT.
285	10"	5/8"	4"	1.7 lbs.
286	12"	5/8"	6"	1.8 lbs.
287	14"	5/8"	8"	1.9 lbs.
288	10"	3/4"	4"	1.8 lbs.
289	12"	3/4"	6"	2 lbs.
290	14"	3/4"	8"	2.3 lbs.
291	10"	7/8"	4"	2 lbs.
292	12"	7/8"	6"	2.2 lbs.
293	14"	7/8"	8"	2.7 lbs.

CAT.NO.	LENGTH	WIDTH	WT.
295	9 1/2"	—	1.6 lbs.
298	7 1/2"	—	1.6 lbs.
258	*Note: Use Ajax 274-S Split Lower Sleeve		
259	*Note: Use Ajax 274-S Split Lower Sleeve		

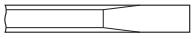


POINT STYLE

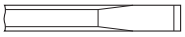
Moil Point



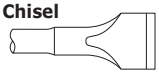
Flat Chisel



Flat Side Cut Chisel



Flat 2" Wide Chisel



Back Out Punch



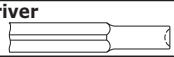
Long Clearance Back Out Punch



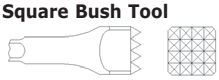
Ripper



Drift Pin Driver



2" x 2" Square Bush Tool



1" Dia. Hole Pin Driver



Rivet Busters
Accessories

MADE IN USA

AJAX Tools

Rivet Buster Accessories





215 Rubber Bumper for Standard Tools

#215-P = Pkg. of 50 pcs.



275 Rubber Bumper for Jumbo Tools

#275-P = Pkg. of 50 pcs.



275-PBJ Polyester Bumper for Jumbo Tools with harder finish for long life



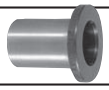
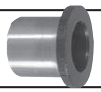
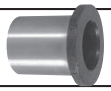
206 Lock Spring

#206-P = Pkg. of 100 pcs.

NOTE: ***Ajax No. 214-S and Ajax No. 274-S Split Lower Sleeves available for use with Extra Wide Chisels and Punches.***



Upper Sleeves

211	Upper Sleeve for Standard Tools	
212	Upper Sleeve for Standard Tools #212-P = Pkg. of 50 pcs.	
212-J	Upper Sleeve for Jumbo Tools This sleeve used in standard buster with jumbo tools.	
213	Upper Sleeve for Standard Tools	
262	Upper Sleeve for Jumbo Tools Fits C.P.T. #4181 Model "V" Type	
270	Upper Sleeve for Jumbo Tools	
271	Upper Sleeve for Jumbo Tools	
272	Upper Sleeve for Jumbo Tools #272-P = Pkg. of 50 pcs.	
272-4	Upper Sleeve (These sleeves are used in Jumbo Buster with Standard Tools)	

Lower Sleeves

214	Lower Sleeve for Standard Tools #214-P = Pkg. of 50 pcs.	
214-900	Lower Sleeve for Standard Tools	
273	Lower Sleeve for Jumbo Tools This sleeve used in standard buster with jumbo tools.	
274	Lower Sleeve for Jumbo Tools #274-P = Pkg. of 50 pcs.	
274-4	Lower Sleeve (These sleeves are used in Jumbo Buster with Standard Tools)	

Retainers

205 

207 

208 

209 

Construction Tools

Chipping Hammers

Chicago Pneumatic





Chipping Hammers

for construction and industrial applications

CP 0012

The CP 0012 is the new addition to the CP range of pneumatic hammers for light chipping and scaling duties. Since the CP 0012 is light and has medium hitting power, it is very easy to handle and control for more precise jobs. Typical applications include alteration work, hole making and trimming.

CP 4123

The most popular CP chipping hammer of all time, the CP 4123 is used for a wide variety of construction and industrial applications, from light to medium chipping to heavy cutting. Choose the cylinder size that best suits your particular application.

CP 4125

The extra features of the CP 4125 make it more suitable for tough construction and industrial applications, including foundries, shipyards, refineries or fabrication shops. Even in hot, dirty working conditions, the reliable CP 4125 will consistently hit hard and last longer than conventional hammers.

CP 4130

The CP 4130 hammer is designed to tackle punishing jobs with the hard hitting power that you expect from CP. It is used for medium-duty to heavy-duty chipping, cutting and trimming operations. The four bolt handle provides higher air flow and durability.

CP 4132

A durable 4-bolt chipping hammer with inside trigger and standard retainer. Available in two cylinder sizes to suite your particular application.

CP 4133

The CP 4133 hammer is designed to tackle punishing jobs with the hard hitting power that you expect from CP. It is used for medium to heavy-dutychipping, cutting and trimming operations. The four bolt handle provides higher air flow and durability.

MODEL	Part no.	Weight (lb)	Cylinder stroke	Length (in)	Air Inlet (in)	Blows per minute (bpm)	Air consumption (cfm)	Muffler included as standard	Chuck size (in)
CP 0012 2R	*8900 0001 02*	*12*	*2*	*16*	*⅜*	*2600*	*20*	*yes*	*.680" Rnd*
CP 0012 2H	*8900 0001 03*	*12*	*2*	*16*	*⅜*	*2600*	*20*	*yes*	*.580" Hex*
CP 4123 2R	*8900 0001 04*	*13*	*2*	*12 ⅞*	*⅜*	*2400*	*25*	*–*	*.680" Rnd*
CP 4123 2H	*8900 0001 05*	*13*	*2*	*12 ⅞*	*⅜*	*2400*	*25*	*–*	*.580" Hex*
CP 4123 3R	*8900 0001 06*	*15*	*3*	*14 ⅞*	*⅜*	*1920*	*26*	*–*	*.680" Rnd*
CP 4123 3H	*8900 0001 07*	*15*	*3*	*14⅞*	*⅜*	*1920*	*26*	*–*	*.580" Hex*
CP 4123 4R	*8900 0001 08*	*16*	*4*	*15 ½*	*⅜*	*1500*	*27*	*–*	*.680" Rnd*
CP 4123 4H	*8900 0001 09*	*16*	*4*	*15 ½*	*⅜*	*1500*	*27*	*–*	*.580" Hex*
CP 4125 2R	*8900 0001 10*	*13*	*2*	*13 ¼*	*⅜*	*2400*	*26*	*–*	*.680" Rnd*
CP 4125 2H	*8900 0001 11*	*13*	*2*	*13 ¼*	*⅜*	*2400*	*26*	*–*	*.580" Hex*
CP 4125 3R	*8900 0001 12*	*15*	*3*	*14 ¼*	*⅜*	*1920*	*27*	*–*	*.680" Rnd*
CP 4125 3H	*8900 0001 13*	*15*	*3*	*14 ¼*	*⅜*	*1920*	*27*	*–*	*.580" Hex*
CP 4125 4R	*8900 0001 14*	*16*	*4*	*15 ¼*	*⅜*	*1500*	*28*	*–*	*.680" Rnd*
CP 4125 4H	*8900 0001 15*	*16*	*4*	*15 ¼*	*⅜*	*1500*	*28*	*–*	*.580" Hex*
CP 4130 3R	*8900 0001 16*	*18½*	*3*	*16 ½*	*⅜*	*1920*	*26*	*yes*	*.680" Rnd*
CP 4130 3H	*8900 0001 17*	*18½*	*3*	*16 ½*	*⅜*	*1920*	*26*	*yes*	*.580" Hex*
CP 4130 4R	*8900 0001 18*	*19½*	*4*	*17 ¾*	*⅜*	*1500*	*27*	*yes*	*.680" Rnd*
CP 4130 4H	*8900 0001 19*	*19½*	*4*	*17 ¾*	*⅜*	*1500*	*27*	*yes*	*.580" Hex*
CP 4132 3R*	*9245 9998 00*	*18*	*3*	*15 ¼*	*⅜*	*2200*	*33.23*	*yes*	*.680" Rnd*
CP 4132 3H*	*9245 9997 99*	*18*	*3*	*15 ¼*	*⅜*	*2200*	*33.23*	*yes*	*.580" Hex*
CP 4132 4R*	*9245 9998 98*	*19*	*4*	*17*	*⅜*	*1800*	*33.23*	*yes*	*.680" Rnd*
CP 4132 4H*	*9245 9998 80*	*19*	*4*	*17*	*⅜*	*1800*	*33.23*	*yes*	*.580" Hex*
CP 4133 3R*	*9753 2195 84*	*18*	*3*	*17*	*⅞- 24 thread*	*1800*	*33.23*	*yes*	*.680" Rnd*
CP 4133 3H*	*9753 2195 85*	*18*	*3*	*17*	*⅞- 24 thread*	*1800*	*33.23*	*yes*	*.580" Hex*
CP 4133 4R*	*9753 2195 86*	*19*	*4*	*17*	*⅞- 24 thread*	*1800*	*33.23*	*yes*	*.680" Rnd*
CP 4133 4H*	*9753 2195 87*	*19*	*4*	*17*	*⅞- 24 thread*	*1800*	*33.23*	*yes*	*.580" Hex*

CP hammers above are supplied with oval collar retainer as standard. More retainer options are available. Call for details.
**Supplied with 6' whip hose and claw coupling.*

Chipping Hammers
Steel

MADE IN USA

AJAX Tools

Oval Collar Chipping Hammer Chisels



POINT STYLE

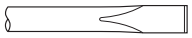
Round Blank



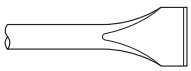
Moil Point



Flat Chisel



Scaling Chisel



Ripper



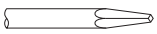
Cape Chisel



Round Nose



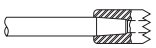
Diamond Point



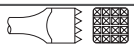
Gouge

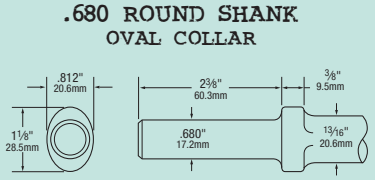


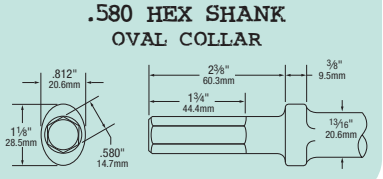
2 Pc. Bush Tool



1 Pc. Bush Tool







CAT.NO.	LENGTH	WIDTH	WT	CAT.NO.	LENGTH	WIDTH	WT
301	8 1/4"	13/16" Dia.	1.25 lbs.	302	8 1/4"	13/16" Dia.	1.25 lbs.
301-12	11 1/4"	13/16" Dia.	1.5 lbs.	302-12	11 1/4"	13/16" Dia.	1.5 lbs.
301-18	18"	13/16" Dia.	2.5 lbs.	302-18	18"	13/16" Dia.	2.5 lbs.
301-24	24"	13/16" Dia.	3.25 lbs.	302-24	24"	13/16" Dia.	3.25 lbs.
313	9"	—	1.25 lbs.	314	9"	—	1.25 lbs.
315	12"	—	1.5 lbs.	316	12"	—	1.5 lbs.
315-18	18"	—	2.5 lbs.	316-18	18"	—	2.5 lbs.
315-24	24"	—	3.25 lbs.	316-24	24"	—	3.25 lbs.
303	9"	1"	1.25 lbs.	304	9"	1"	1.25 lbs.
303-12	12"	1"	1.5 lbs.	304-12	12"	1"	1.5 lbs.
303-18	18"	1"	2.5 lbs.	304-18	18"	1"	2.5 lbs.
303-24	24"	1"	3.25 lbs.	304-24	24"	1"	3.25 lbs.
303-36	36"	1"	5.1 lbs.	304-36	36"	1"	5.1 lbs.
303-48	48"	1"	6.9 lbs.	304-48	48"	1"	6.9 lbs.
303-60	60"	1"	8.7 lbs.	304-60	60"	1"	8.7 lbs.
303-72	72"	1"	10.2 lbs.	304-72	72"	1"	10.2 lbs.
325	9"	1 1/2"	1.25 lbs.	326	9"	1 1/2"	1.25 lbs.
325-12	12"	1 1/2"	1.5 lbs.	326-12	12"	1 1/2"	1.5 lbs.
325-18	18"	1 1/2"	2.5 lbs.	326-18	18"	1 1/2"	2.5 lbs.
323	9"	2"	1.25 lbs.	324	9"	2"	1.25 lbs.
323-12	12"	2"	1.75 lbs.	324-12	12"	2"	1.75 lbs.
323-18	18"	2"	2.75 lbs.	324-18	18"	2"	2.75 lbs.
323-24	24"	2"	3.75 lbs.	324-24	24"	2"	3.75 lbs.
323-36	36"	2"	5.75 lbs.	324-36	36"	2"	5.75 lbs.
323-48	48"	2"	7.75 lbs.	324-48	48"	2"	7.75 lbs.
323-60	60"	2"	9.75 lbs.	324-60	60"	2"	9.75 lbs.
323-72	72"	2"	11.75 lbs.	324-72	72"	2"	11.75 lbs.
323-3	9"	3"	1.5 lbs.	324-3	9"	3"	1.5 lbs.
323-12-3	12"	3"	1.75 lbs.	324-12-3	12"	3"	1.75 lbs.
323-4-1/2	10"	4 1/2"	2.25 lbs.	324-4-1/2	10"	4 1/2"	2.25 lbs.
311	9"	1 1/16"	1.0 lbs.	312	9"	1 1/16"	1.0 lbs.
311-12	12"	1 1/16"	1.4 lbs.	312-12	12"	1 1/16"	1.4 lbs.
305	9"	7/16"	1.0 lbs.	306	9"	7/16"	1.0 lbs.
305-12	12"	7/16"	1.4 lbs.	306-12	12"	7/16"	1.4 lbs.
307	9"	3/8"	1.0 lbs.	308	9"	3/8"	1.0 lbs.
307-12	12"	3/8"	1.4 lbs.	308-12	12"	3/8"	1.4 lbs.
309	9"	5/16"	1.1 lbs.	310	9"	5/16"	1.1 lbs.
309-12	12"	5/16"	1.5 lbs.	310-12	12"	5/16"	1.5 lbs.
337	9"	1"	1.1 lbs.	338	9"	1"	1.1 lbs.
337-12	12"	1"	1.5 lbs.	338-12	12"	1"	1.5 lbs.
343	9 1/2"		2.25 lbs.	344	9 1/2"		2.25 lbs.
345 STEM	8"		1.0 lbs.	346 STEM	8"		1.0 lbs.
5101 HEAD	—	1 1/2" SQ	1.25 lbs.	5101 HEAD	—	1 1/2" SQ	1.25 lbs.
50100	9 1/2"	1 3/4" SQ	2.5 lbs.	50200	9 1/2"	1 3/4" SQ	2.5 lbs.

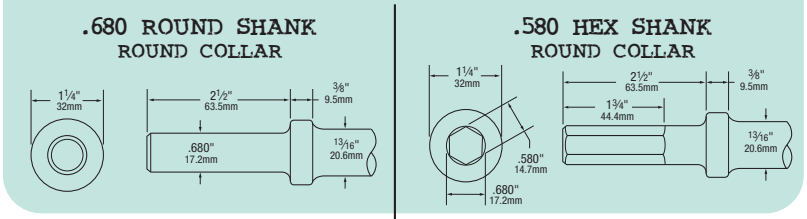
NOTE: Pneumatic Chipping Hammers are equipped with either .680 round nose bushings or .580 hex nose bushings. Refer to manufacturer's hammer model number for specifications.

Chipping Hammers
Steel

MADE IN USA

AJAX Tools

Round Collar Chipping Hammer Chisels





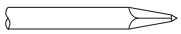
CAT.NO.	LENGTH	WIDTH	WT	CAT.NO.	LENGTH	WIDTH	WT
401	8 1/4"	13/16" Dia.	1.25 lbs	402	8 1/4"	13/16" Dia.	1.25 lbs
403	11 1/4"	13/16" Dia.	1.5 lbs	404	11 1/4"	13/16" Dia.	1.5 lbs
403-18	18"	13/16" Dia.	2.5 lbs	404-18	18"	13/16" Dia.	2.5 lbs
409	9"	—	1.25 lbs	410	9"	—	1.25 lbs
411	12"	—	1.5 lbs	412	12"	—	1.5 lbs
411-18	18"	—	2.5 lbs	412-18	18"	—	2.5 lbs
411-24	24"	—	3.25 lbs	412-24	24"	—	3.25 lbs
405	9"	1"	1.25 lbs	406	9"	1"	1.25 lbs
407	12"	1"	1.5 lbs	408	12"	1"	1.5 lbs
407-18	18"	1"	2.5 lbs	408-18	18"	1"	2.5 lbs
407-24	24"	1"	3.25 lbs	408-24	24"	1"	3.25 lbs
407-36	36"	1"	5 lbs	408-36	36"	1"	5 lbs
407-48	48"	1"	6 lbs	408-48	48"	1"	6 lbs
407-60	60"	1"	8 lbs	408-60	60"	1"	8 lbs
407-72	72"	1"	10 lbs	408-72	72"	1"	10 lbs
425	9"	1 1/2"	1.25 lbs	426	9"	1 1/2"	1.25 lbs
425-12	12"	1 1/2"	1.5 lbs	426-12	12"	1 1/2"	1.5 lbs
425-18	18"	1 1/2"	2.5 lbs	426-18	18"	1 1/2"	2.5 lbs
423	9"	2"	1.25 lbs	424	9"	2"	1.25 lbs
423-12	12"	2"	1.75 lbs	424-12	12"	2"	1.75 lbs
423-18	18"	2"	2.75 lbs	424-18	18"	2"	2.75 lbs
423-24	24"	2"	3.75 lbs	424-24	24"	2"	3.75 lbs
423-36	36"	2"	5.75 lbs	424-36	36"	2"	5.75 lbs
423-48	48"	2"	7.75 lbs	424-48	48"	2"	7.75 lbs
423-60	60"	2"	9.75 lbs	424-60	60"	2"	9.75 lbs
423-72	72"	2"	11.75 lbs	424-72	72"	2"	11.75 lbs
423-3	9"	3"	1.5 lbs	424-3	9"	3"	1.5 lbs
423-12-3	12"	3"	1.75 lbs	424-12-3	12"	3"	1.75 lbs
423-4-1/2	10"	4 1/2"	2.25 lbs	424-4-1/2	10"	4 1/2"	2.25 lbs
413	9"	7/16"	1.0 lbs	414	9"	7/16"	1.0 lbs
413-12	12"	7/16"	1.4 lbs	414-12	12"	7/16"	1.4 lbs
417	9"	3/8"	1.0 lbs	418	9"	3/8"	1.0 lbs
417-12	12"	3/8"	1.4 lbs	418-12	12"	3/8"	1.4 lbs
419	9"	5/16"	1.1 lbs	420	9"	5/16"	1.1 lbs
419-12	12"	5/16"	1.5 lbs	420-12	12"	5/16"	1.5 lbs
437	9"	1"	1.1 lbs	438	9"	1"	1.1 lbs
437-12	12"	1"	1.5 lbs	438-12	12"	1"	1.5 lbs
443	9 1/2"		2.25 lbs	444	9 1/2"		2.25 lbs
445 STEM	8"		1.0 lbs	446 STEM	8"		1.0 lbs
5101 HEAD	—	1 1/2" SQ	1.25 lbs	5101 HEAD	—	1 1/2" SQ	1.25 lbs
50300	9 1/2"	1 3/4" SQ	2.5 lbs	50400	9 1/2"	1 3/4" SQ	2.5 lbs
429	16 3/4"	7/8"	2.1 lbs				
431	18 1/4"	7/8"	2.2 lbs				
433	16 3/4"	7/8"	2.1 lbs				
435	18 1/4"	7/8"	2.2 lbs				

POINT STYLE

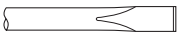
Round Blank



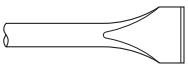
Moil Point



Flat Chisel



Scaling Chisel



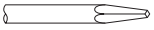
Cape Chisel



Round Nose



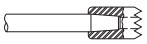
Diamond Point



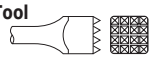
Gouge



2 Pc. Bush Tool



1 Pc. Bush Tool



Paper Stripper

Bent



Straight



Construction Tools

Chipping Hammers
Accessories

MADE IN USA

AJAX Tools

Chipping Hammer Retainers

INTERNAL PARTS FOR NO. 3750

1472 (H3R-31) Washer (2 pc.) Upper



1473 (H3R-203) Bumper



1474 (HHW1-213) Washer (2 pc.) Lower



1475 (HHW1-216) Retainer Ring



1476 (24SR-207) Lock Spring (AT1191-8) Also fits Retainer #3450



RETAINER SPRINGS

300 Heavy Duty Lock Spring
(AT No. 1194)
Fits retainers #3400 and #4000
***No. 300-P** (pkg. of 100 pcs.)*



350 Standard Duty Lock Spring
Fits retainers #3400 and #4000
***No. 350-P** (pkg. of 100 pcs.)*



400 "The Ringer"
Made of 8000 PSI Polyurethane
Fits retainers #3400 and #4000
***No. 400-P** (pkg. of 100 PCS.)*



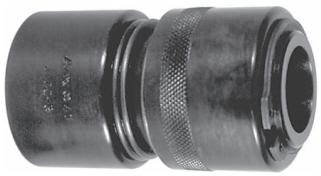
WARNING: Wear Safety Goggles

3400 Retainer

AJAX Kwik Change Retainer
Accepts Both Oval or Round Collar Tools

- Kwik Change feature allows easy removal/replacement of tool
- Six steel balls hold tool securely in place
- Any width tool can be inserted
- Uses No. 300 heavy-duty spring supplied with unit

*See page 19 for ordering information.



REPLACEMENT PARTS FOR #3400

300	Lock Spring
3404	Snap Washer
3401*	Body
3405*	"O" ring
3402	Sleeve
3406	Balls (6 per set)
3403	Spring

*Specify hammer manufacturer and model number

3450 Threaded Retainer

REPLACEMENT PARTS FOR #3450

1476	Lock Spring
3450-3	Spring
3450-1	Body
3404	Snap Washer
3450-2	Sleeve
3406	Balls (6 per set)

All the advantages of our No. 3400, now available for hammers with threaded barrels. Uses No. 1476 lock spring, supplied with unit.



3750 Threaded Solid Retainer

FOR USE WITH ROUND COLLAR TOOLS ONLY

Can be used on hammers with threaded barrels. Retainer must be removed from tool to change chisels. Supplied with No. 1476 lock spring.

Interchangeable with: (AT No. 1198) (I-R No. HHWI-300)



4000 Solid Retainer

FOR USE WITH OVAL COLLAR TOOLS ONLY

Fits hammers with tapered barrels. Supplied with No. 350 standard-duty lock spring.

Interchangeable with: (AT No. 1190)



Construction Tools

Chipping Hammers
Accessories

MADE IN USA

AJAX Tools

Chipping Hammer Retainers

	MODEL	3400 ORDER	3450 ORDER	3750 ORDER	4000 ORDER
AMER. PNEUMATIC	500-600	3400-3			4000-3
AMER. PNEUMATIC	550-650	3400-5			4000-5
AMER. PNEUMATIC	106	3400-12			4000-12
AMER. PNEUMATIC	520-620 SERIES (THREADED)		3450	3750	
ATLAS COPCO	317, 317D, 319, 419	3400-2			4000-2
A.T.P. -HY-TECH	ATP-2HB, ATP-3HB, ATP-4HB	3400-2			4000-2
ATSCO	ALL MODELS	3400-3			4000-3
CHICAGO PNEUMATIC	RV-0-1-2-3-4, CP4234	3400-1			4000-1
CHICAGO PNEUMATIC	SIMPLATE 1-2-3-4, CP4123	3400-2			4000-2
CHICAGO PNEUMATIC	BOYER 1-2-3-4	3400-5			4000-5
CHICAGO PNEUMATIC	9362-9363-9364	3400-2			4000-2
CLECO	1WM-2WM-3WM-C20B-C30B	3400-5			4000-5
CLECO	C20-C30	3400-8			4000-8
CLECO	2WA-3WA-2WAM-3WAM	3400-13			4000-13
CLECO	CL3-OWBD	3400-20			4000-20
CLECO	CH-22, CH-32	3400-5			4000-5
CONTINENTAL POWER TOOL	CH-1A-2A-3A-4A	3400-2			4000-2
GARDNER DENVER	CH3 SERIES	3400-14			4000-14
INGERSOLL-RAND	1-2-200-2A-3-300-3A-4-400	3400-3			4000-3
INGERSOLL-RAND	K2L	3400-12			4000-12
INGERSOLL-RAND	W-SERIES (THREADED)		3450	3750	
JET	JCO SERIES	3400-2			4000-2
KENT	RED LINE KC 1-2-3-4	3400-17			4000-17
KENT	RED LINE KJ 1-2-3-4 (KCB)	3400-2			4000-2
KENT	GREEN LINE 1-2-3-4	3400-17			4000-17
MASTER POWER	1, 2E, 3E, 4	3400-10			4000-10
MICHIGAN PNEUMATIC	ALL MODELS	3400-2			4000-2
SULLAIR	SCH-2-3-4	3400-2			4000-2
SULLAIR	MCH-2-3-4	3400-2			4000-2
SULLIVAN	SCH-2-3-4	3400-2			4000-2
SULLIVAN	SCH-01-02-03-04	3400-2			4000-2
SULLIVAN	SCH-11	3400-5			4000-5
TC SERVICE	10-20-30-40	3400-17			4000-17
THOR	00-11-22-33-CH3	3400-5			4000-5
UNIVERSAL TOOL	8600 SERIES	3400-2			4000-2
URYU	ALL MODELS	3400-18			4000-18
U.S. INDUSTRIAL	502TB-503TB-5045B (THREADED)		3450	3750	



HOSE SWIVELS

For most chipping hammers, as well as larger tools having 1/2" pipe threads.

Swivels eliminate hose kinking or twisting and provide greater operator efficiency.



1060* 1/2" Pipe Thread Hose Swivel
1061 Body
1063 Snap Ring
1062 Nut
1082 "O" ring



1090* 7/8"-20 Thread Hose Swivel
1081 Body
1084 Snap Ring
1091 Nut
1082 "O" ring



1080* 7/8"-24 Thread Hose Swivel
1081 Body
1084 Snap Ring
1083 Nut
1082 "O" ring



1092 7/8"-24 Thread with 3/8 NPT Hose Swivel
1093 Body
1084 Snap Ring
1083 Nut
1082 "O" ring

*NOTE: *1/2" hose barb on 1060, 1080 and 1090*

Combi Drills/Hammers

Chicago Pneumatic

Combi Drills / Hammers



These versatile tools are both a drill and a chipping hammer. A push of the rotation release button easily and quickly converts the tool to a hammer.

The CP 0009 and CP 0014RR rotary hammers are designed for a wide variety of construction and maintenance applications such as driving or setting masonry anchors and drilling holes in concrete, bricks or rock. As a hammer, these tools can be used for chipping, scarifying, scaling and cleaning welds.

All Models

- Excellent power-to-weight ratio helps drill holes faster and easier than comparable electric rotary hammers
- Built-in oiler provides continuous lubrication
- Teasing throttle for precise control
- Rotation release button converts tool to a hammer (except on CP 0009AC)
- Cushioned piston for smooth operation and long tool life
- Muffler available to reduce noise

CP 0009

- Right hand rotation
- With our SDS Plus Adaptor, can be used with electric hammer drill bits
- Spline version available
- Accepts all electric steel
- Adapter (R137586) round to SDS Plus

CP 0014

- Superior drilling rates
- Greater drilling capacity compared to plug hole drills
- Designed for production drilling of small holes



CP 0009



CP 0014

Drilling rates at 90 psi

in hard rock and concrete *(use as guide only)*

MODEL	Drill rate (in/min)	Hole diameter (in)
CP 0009	12	1¼
CP 0014 RR	18	1¾

Mufflers

MODEL	Part no.
CP 0009 A	F 815350
CP 0009 AC	F 826972
CP 0009 F	F 815350
CP 0014 RR	F 827044

MODEL	Part no.	Net weight (lb)	Air Inlet (in)	Overall length (in)	Impact rate (bpm)	Max Drilling Depth (in)	Type of chuck (in)	Chuck size (in)
CP 0009—*Air consumption at 90 psi: 19 cfm, ⅜" (NPT) air inlet thread*								
CP 0009 A	T 022083	8.82	⅜ NPT	14¾	3420	17.5	round shank	¾ x 3¾
CP 0009 AC*	Z 0027413	8.82	⅜ NPT	14¾	3420	17.5	round shank	¾ x 3¾
CP 0009 F	T 022511	8.82	⅜ NPT	14¾	3420	17.5	spline drive	
CP 0014 RR—*Air consumption at 90 psi: 47 cfm, ⅜" (NPT) air inlet thread*								
CP 0014 RR	T 022173	14.77	⅜ NPT	18½	2520	25.5	spring hex shank	⅞ x 3¼

* Use adapter (part number R 137586) in round shank units for SDS plus electric hammer drill bits.

Rock Drills
Sinker Drills

Chicago Pneumatic

Sinker Drills

Chicago Pneumatic sinker drills are ideal for a range of drilling applications. Their streamlined design incorporates smooth contours, a side exhaust and a "flat back" that makes them easy to handle in quarry, mine, drilling and doweling work. The design also provides a main valve and cylinder-porting concept that helps maintain constant drilling speed throughout a long service life. Working parts are continually protected with an effective lubrication system. Standard and silenced versions are available in a range of weights and sizes to fit any requirement.

30-60 pound class


CP 0032A


CP 0022


CP 0069

All Models

- Forged steel housings withstand rugged use
- Cushioned piston reduces shock
- Multiposition throttle for easy starting of holes
- Blower lever for deep hole cleaning on CP 0032 and CP 0069
- Integral oiler provides continuous lubrication
- 3/4" (NPT) air inlet swivel improves maneuverability
- Double-grip handles
- Left hand rotation

CP 0022

30-POUND CLASS
The CP 0022 provides drilling capability for holes up to 1 3/4" diameter, 8 feet deep. This is the ideal choice where a lightweight and powerful tool is needed in public works, utilities and drilling from scaffolding. Also the correct choice where air supply is limited. CP 0022 can also be equipped with 3/4" x 4 1/4" bushing and spring.

CP 0032A

45-50-POUND CLASS
Choose the CP 0032A for holes up to 2" diameter and 10 feet deep. A top performer in its class, the CP 0032A is highly effective in general excavation work, quarry drilling, bench mining and other jobs requiring a sinker drill in the 45-pound class. The tool's durable "beavertail" retainer helps it deliver increased contact and reduces collar wear.

Use with part number R 147457 - Water Kit

CP 0069

60-POUND CLASS
The CP 0069 is suited for drilling 2 1/2" diameter holes 20 feet deep. The heavy-duty CP 0069 sinker is a hard-hitting tool that combines high drilling speed with excellent hole cleaning ability Its trouble-free "beavertail" retainer provides greater front-end durability and increased collar contact to reduce wear.

Drilling rates at 90 psi in hard rock *(use as guide only)*

MODEL	Drill rate (in/min)	Hole diameter (in)
CP 0022	6.0	1 5/8
CP 0032	9.0	1 3/4
CP 0069	10.2	1 3/4

Muffler

MODEL	Part no.
CP 0032A	*R 125569*

MODEL	Part no.	Net weight (lb)	Overall length with retainer (in)	Impact rate (bpm)	Max Drilling Diameter (in)	Max Drilling Depth (in)	Standard hex. chuck size (in)
CP 0022—*30-pound class—Air consumption at 90 psi: 56 cfm*							
CP 0022	8900 0020 01	32	19 7/8	2220	1.7	94.5	7/8 x 3 1/4
CP 0022	8900 0020 02	32	19 7/8	2220	2	94.5	7/8 x 4 1/4
CP 0032—*45- to 50-pound class—Air consumption at 90 psi: 103 cfm*							
CP 0032A	T 022318	54	23	2220	2	118	7/8 x 3 1/4
CP 0032A	T 022317	56	23	2220	2	118	7/8 x 4 1/4
CP 0032A	T025431	54	23	2220	2	118	7/8 x 4 1/4
CP 0032A-1	T 022319	54	23	2220	2	118	1 x 4 1/4
CP 0069—*60-pound class—Air consumption at 90 psi: 130 cfm*							
CP 0069	T 006661	64	24 1/4	1920	2 1/2	236	7/8 x 4 1/4
CP 0069 - *wet*	T 025423	64	24 1/4	1920	2 1/2	236	7/8 x 4 1/4
CP 0069	T 022259	64	24 1/4	1920	2 1/2	236	1 x 4 1/4

Rock Drills
Drill Steel

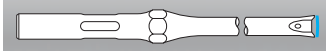
MADE IN USA

AJAX Tools

Drill Steel

Roto Hammers

Carbide Utility Bit



Part No.	Bit Diam.	Drilling Depth	Overall Length
62005	1/2"	8"	12"
62010	5/8"	8"	12"
62020	5/8"	12"	16"
62030	5/8"	18"	22"
62040	3/4"	8"	12"
62050	3/4"	12"	16"
62060	3/4"	18"	22"
62070	7/8"	8"	12"
62080	7/8"	12"	16"
62090	7/8"	18"	22"
62100	1"	8"	12"
62110	1"	12"	16"
62120	1"	18"	22"
62130	1"	24"	28"

Roto Hammer Chisels



Part No.	Point Style	Overall Length
4020	Chisel Blank	9"
4021	Flat Chisel	10"
4025	Moil Point	10"
4027	Mortar Chisel	11"
4028	Slotting Tool	10"
4029	Tooth Chisel	9"
4024	Wood Chisel	12"
4045	Bush Tool Assembly	
4023	Bush Tool Stem	
5101	Bush Tool Head	

Roto Hammer Adaptors



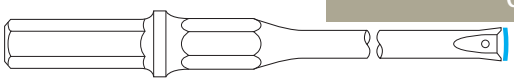
Part No.	Description
4014	New "A" Taper Adapter
4015	Std. "A" Taper Adapter
4016	Std. "B" Taper Adapter
935	Knockout Key for 4014
938	Knockout Key for 4015, 4016

Roto Hammer Chisels, Adaptors and Utility Bits can be used with these models:

Chicago Pneumatic CP-9A
Sullair MRD-9 **Thor** 5LHD

WARNING: Wear Safety Goggles

Carbide Speed Bits



HOLE DIAM.	DRILLING DEPTH	LENGTH UNDER COLLAR	7/8" X 3 1/4" HEX SHANK PART NO.	7/8" X 4 1/4" HEX SHANK PART NO.	1" X 4 1/4" HEX SHANK PART NO.
5/8"	6"	9"	60010	60350	60700
5/8"	9"	12"	60020	60360	60710
5/8"	14"	18"	60030	60370	60720
5/8"	20"	24"	60035	60375	
3/4"	6"	9"	60040	60380	60730
3/4"	9"	12"	60050	60390	60740
3/4"	12"	18"	60060	60400	60750
3/4"	18"	24"	60070	60410	60760
3/4"	26"	30"	60080	60420	60770
3/4"	32"	36"	60081	60421	60771
3/4"	44"	48"	60082	60422	60772
7/8"	6"	9"	60090	60430	60780
7/8"	9"	12"	60100	60440	60790
7/8"	14"	18"	60110	60450	60800
7/8"	20"	24"	60120	60460	60810
7/8"	26"	30"	60130	60470	60820
7/8"	32"	36"	60131	60471	60821
7/8"	44"	48"	60132	60472	60822
1"	6"	9"	60140	60480	60830
1"	9"	12"	60150	60490	60840
1"	14"	18"	60160	60500	60850
1"	20"	24"	60170	60510	60860
1"	26"	30"	60180	60520	60870
1"	32"	36"	60181	60521	60871
1"	44"	48"	60182	60522	60872
1-1/8"	9"	12"	60190	60530	60880
1-1/8"	14"	18"	60200	60540	60890
1-1/8"	20"	24"	60210	60550	60900
1-1/8"	26"	30"	60220	60560	60910
1-1/8"	32"	36"	60221	60561	60911
1-1/8"	44"	48"	60222	60562	60912
1-1/4"	9"	12"	60230	60570	60920
1-1/4"	14"	18"	60240	60580	60930
1-1/4"	20"	24"	60250	60590	60940
1-1/4"	26"	30"	60260	60600	60950
1-1/4"	32"	36"	60261	60601	60951
1-1/4"	44"	48"	60262	60602	60952
1-3/8"	9"	12"	60270	60610	60960
1-3/8"	14"	18"	60280	60620	60970
1-3/8"	20"	24"	60290	60630	60980
1-3/8"	26"	30"	60300	60640	60990
1-3/8"	32"	36"	60301	60641	60991
1-3/8"	44"	48"	60302	60642	60992
1-1/2"	9"	12"	60310	60650	61000
1-1/2"	14"	18"	60320	60660	61010
1-1/2"	20"	24"	60330	60670	61020
1-1/2"	26"	30"	60340	60680	61030
1-1/2"	32"	36"	60341	60681	61031
1-1/2"	44"	48"	60342	60682	61032
1-5/8"	9"	12"	60343	60683	
1-5/8"	14"	18"	60344	60684	
1-5/8"	20"	24"	60345	60685	
1-5/8"	26"	30"	60346	60686	
1-5/8"	32"	36"	60347	60687	
1-5/8"	44"	48"	60348	60688	

NOTE: *Some rock drill models offer multiple chuck sizes. Please verify before ordering bits.*

Construction Tools

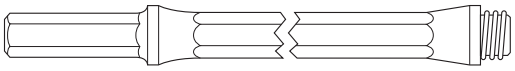
Rock Drills
Drill Steel

MADE IN USA

AJAX Tools

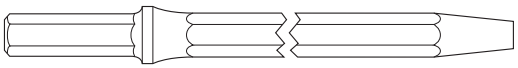
Drill Steel

Drill Rods



Length	"H" Thread 7/8" x 3-1/4" Shank Part No.	"E" Thread 7/8" x 3-1/4" Shank Part No.	"H" Thread 7/8" x 4-1/4" Shank Part No.	"H" Thread 1" x 4-1/4" Shank Part No.
12"	64010	64015	64210	64410
18"	64020	64025	64220	64420
24"	64030	64035	64230	64430
30"	64040	64045	64240	64440
36"	64050	64055	64250	64450
48"	64060	64065	64260	64460
60"	64070	64075	64270	64470
72"	64080	64085	64280	64480
96"	64090	–	64290	64490
120"	64100	–	64300	64500

11° Tapered



Length	7/8" x 3-1/4" Shank Part No.	7/8" x 4-1/4" Shank Part No.	1" x 4-1/4" Shank Part No.
12"	64110	64310	64510
18"	64120	64320	64520
24"	64130	64330	64530
30"	64140	64340	64540
36"	64150	64350	64550
48"	64160	64360	64560
60"	64170	64370	64570
72"	64180	64380	64580
96"	64190	64390	64590
120"	64200	64400	64600

Carbide Rock Bits "H" Thread



CARBIDE Single Use — CARBIDE Multi Use

Diam.	Size Width	Part No.	Carbide Ht.	Part No.	Carbide Ht.
1 3/8"	8 mm	63010	7 mm	63220	11 mm
1 1/2"	8 mm	63020	7 mm	63230	11 mm
1 5/8"	9.5 mm	63030	7 mm	63240	14 mm
1 3/4"	9.5 mm	63040	7 mm	63250	14 mm
1 7/8"	9.5 mm	63050	7 mm	63260	14 mm
2"	9.5 mm	63060	7 mm	63270	14 mm
2 1/4"	9.5 mm	63070	7 mm	63280	14 mm
2 1/2"	9.5 mm	–	–	63290	14 mm
2 3/4"	9.5 mm	–	–	63300	14 mm
3"	9.5 mm	–	–	63310	14 mm



Carbide Rock Bits 11° Tapered



Single Use — Multi Use

Steel	Diam.	Size Width	Part No.	Carbide Ht.	Part No.	Carbide Ht.
7/8"	1 1/8"	8 mm	63080	7 mm	–	–
7/8"	1 1/4"	8 mm	63090	7 mm	63320	11 mm
7/8"	1 3/8"	8 mm	63100	7 mm	63330	11 mm
7/8"	1 1/2"	8 mm	63110	7 mm	63340	11 mm
7/8"	1 5/8"	9.5 mm	63120	7 mm	63350	14 mm
7/8"	1 3/4"	9.5 mm	63130	7 mm	63360	14 mm
7/8"	1 7/8"	8 mm	63140	7 mm	–	–
7/8"	2"	8 mm	63150	7 mm	–	–
1"	1 3/8"	8 mm	63160	7 mm	–	–
1"	1 1/2"	8 mm	63170	7 mm	63370	11 mm
1"	1 5/8"	9.5 mm	63180	7 mm	63380	14 mm
1"	1 3/4"	9.5 mm	63190	7 mm	63390	14 mm

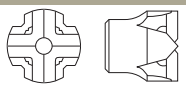
*NOTE: *12° taper available upon request.*

"H" Extension Rods



Cat. No.	Description	Length
64710	"H" Extension Rod	12"
64720	"H" Extension Rod	18"
64730	"H" Extension Rod	24"
64740	"H" Extension Rod	30"
64750	"H" Extension Rod	36"
64760	"H" Extension Rod	48"
64770	"H" Extension Rod	60"
64780	"H" Extension Rod	72"
64790	"H" Extension Rod	96"
64800	"H" Extension Rod	120"
64700	"H" Thread Coupler	

All Steel Rock Bits



Part No.	Hole Dia.	Thread
63400	15/16"	"E"
63410	1"	"E"
63420	1 1/8"	"E"
63430	1 1/4"	"E"
63440	1 3/8"	"H"
63450	1 1/2"	"H"
63460	1 5/8"	"H"
63470	1 3/4"	"H"
63480	1 7/8"	"H"
63490	2"	"H"
63500	2 1/2"	"H"





Pneumatic Breakers

Chicago Pneumatic

Pneumatic Breakers

4-Bolt High Performance Models



Standard model
CP 0112



Standard model
CP 1210, 1260 and 1290



CP1210S

MODEL	Standard hex chuck size (in)	Retainer type	Air inlet (in)	Length (in)	Weight (lb)	Part no.
CP 0112—*30-pound class—air consumption at 90 psi: 45 cfm*						
CP 0112	7/8 x 3¼	Latch	¾ NPT	20	30	8900 0030 26
CP 0112 EX	7/8 x 3¼	Latch	¾ NPT	20	30	8900 0030 27
CP 0112	1 x 4¼	Latch	¾ NPT	20	30	8900 0030 23
CP 0112 EX	1 x 4¼	Latch	¾ NPT	30⅜	33	8900 0030 24
CP 0112 S	1 x 4¼	Kick Latch	¾ NPT	20	31	8900 0030 25
CP 1210—*35-pound class—air consumption at 90 psi: 48 cfm*						
CP 1210	1 x 4¼	Latch	¾ NPT	21⅛	44	8900 0030 01
CP 1210S	1 x 4¼	Latch	¾ NPT	21⅛	45	8900 0030 03
CP 1210S	1¼ x 6	Latch	¾ NPT	23	46	8900 0030 09
CP 1210S	1⅛ x 6	Latch	¾ NPT	23	46	8900 0030 07
CP 1210 SVR	1 x 4¼	Latch	¾ NPT	23½	51	8900 0030 05
CP 1210 SVR	1⅛ x 6	Latch	¾ NPT	25½	55	8900 0030 08
CP 1210 SVR	1¼ x 6	Latch	¾ NPT	25½	55	8900 0030 10
CP 1260—*60-pound class—air consumption at 90 psi: 63 cfm*						
CP 1260	1⅛ x 6	Latch	¾ NPT	27	64	8900 0030 29
CP 1260 S	1⅛ x 6	Latch	¾ NPT	27	65	8900 0030 31
CP 1260 SVR	1⅛ x 6	Latch	¾ NPT	29	75	8900 0030 33
CP 1260	1¼ x 6	Latch	¾ NPT	27	64	8900 0030 28
CP 1260 S	1¼ x 6	Latch	¾ NPT	27	65	8900 0030 30
CP 1260 SVR	1¼ x 6	Latch	¾ NPT	29	75	8900 0030 32
CP 1290—*90-pound class—air consumption at 90 psi: 81 cfm*						
CP 1290	1⅛ x 6	Latch	¾ NPT	29	82	8900 0030 38
CP 1290 S	1⅛ x 6	Latch	¾ NPT	29	83	8900 0030 40
CP 1290 SVR	1⅛ x 6	Latch	¾ NPT	31	96	8900 0030 42
CP 1290	1¼ x 6	Latch	¾ NPT	29	82	8900 0030 37
CP 1290 S	1¼ x 6	Latch	¾ NPT	29	83	8900 0030 39
CP 1290 SVR	1¼ x 6	Latch	¾ NPT	31	96	8900 0030 41

EX = Extended handle for trench work; S = Silenced models; SVR = Silenced & Vibration Reduced models
Spike Drivers also available, CP 1260 S SPDR 8900 0030 34, CP 1269 S SPDR 8900 0030 43
Note: CP 1230 / CP 1240 replaced by CP 1260 / CP 1290

CP four-bolt breakers require minimal servicing to maintain peak operating efficiency over extended periods of rugged use.

Durable polyurethane front-head springs, side bolts and anvil minimize repairs.

CP breakers can be ordered with mufflers, or mufflers can be purchased separately.



Breakers can be ordered with mufflers or mufflers can be purchased separately.



Vibration reduced models (VRS) are also silenced.
1210 SVR
1260 SVR
1290 SVR

Construction Tools

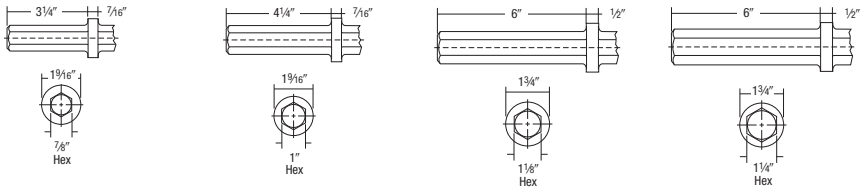
Pneumatic Breakers
Paving Breaker Steel

MADE IN USA

AJAX Tools

Paving Breaker Tools





POINT STYLE	7/8" X 3 1/4"			1" X 4 1/4"			1 1/8" X 6"			1 1/4" X 6"		
	CAT.NO.	LGTH. U.C.	WT.	CAT.NO.	LGTH. U.C.	WT.	CAT.NO.	LGTH. U.C.	WT.	CAT.NO.	LGTH. U.C.	WT.
Standard Moil Point General concrete demolition	11200	14"	3 1/4 lbs	21200	14"	4 3/4 lbs	31200	14"	6 lbs	41200	14"	7 1/4 lbs
	12200	18"	4 lbs	22200	18"	5 1/4 lbs	32200	18"	7 1/4 lbs	42200	18"	9 lbs
	13200	24"	4 3/4 lbs	23200	24"	6 3/4 lbs	33200	24"	9 lbs	43200	24"	11 lbs
	14200	36"	6 1/4 lbs	24200	36"	8 3/4 lbs	34200	36"	12 1/2 lbs	44200	36"	15 3/4 lbs
				25200	48"	13 lbs	35200	48"	16 lbs	45200	48"	20 1/4 lbs
				26200	60"	15 1/2 lbs	36200	60"	20 lbs	46200	60"	24 3/4 lbs
				27200	72"	19 lbs	37200	72"	24 lbs	47200	72"	30 lbs
Standard Narrow Chisel General concrete demolition	11100	14"	3 1/4 lbs	21100	14"	4 3/4 lbs	31100	14"	6 lbs	41100	14"	7 1/4 lbs
	12100	18"	4 lbs	22100	18"	5 1/4 lbs	32100	18"	7 1/4 lbs	42100	18"	9 lbs
	13100	24"	4 3/4 lbs	23100	24"	6 3/4 lbs	33100	24"	9 lbs	43100	24"	11 lbs
	14100	36"	6 1/4 lbs	24100	36"	8 3/4 lbs	34100	36"	12 1/2 lbs	44100	36"	15 3/4 lbs
				25100	48"	13 lbs	35100	48"	16 lbs	45100	48"	20 1/4 lbs
				26100	60"	15 1/2 lbs	36100	60"	20 lbs	46100	60"	24 3/4 lbs
				27100	72"	19 lbs	37100	72"	24 lbs	47100	72"	30 lbs
Standard 3" Wide Chisel Cutting pavement overlay, general concrete demolition	11300	14"	3 1/2 lbs	21300	14"	5 lbs	31300	14"	6 3/4 lbs	41300	14"	8 lbs
	12300	18"	4 1/4 lbs	22300	18"	6 lbs	32300	18"	8 lbs	42300	18"	9 1/2 lbs
	13300	24"	5 1/2 lbs	23300	24"	7 1/2 lbs	33300	24"	9 1/2 lbs	43300	24"	11 1/2 lbs
	14300	36"	8 lbs	24300	36"	10 1/2 lbs	34300	36"	12 3/4 lbs	44300	36"	16 1/4 lbs
				25300	48"	13 1/2 lbs	35300	48"	17 lbs	45300	48"	20 3/4 lbs
				26300	60"	17 lbs	36300	60"	20 3/4 lbs	46300	60"	25 1/4 lbs
				27300	72"	19 1/4 lbs	37300	72"	24 1/2 lbs	47300	72"	30 lbs
Asphalt Cutter 5" x 6" Cutting asphalt, hardpan and compacted soil	18400		6 1/2 lbs	28400		6 1/2 lbs	38400		6 1/2 lbs	48400		8 1/4 lbs
Small Asphalt Cutter 4 1/2" x 3" Cutting asphalt, hardpan and compacted soil	10011		6 1/2 lbs	20011		7 3/4 lbs	30011		7 3/4 lbs	40011		7 3/4 lbs
Clay Spade Clay and other rock-free soil 5 1/2" x 6 1/2" • 4 1/2" x 8 1/2"	19500		7 1/4 lbs	29500		8 1/4 lbs	39500		7 3/4 lbs	49500		10 lbs
				29501		7 1/2 lbs	39501		9 lbs	49501		9 3/4 lbs

Used for demolition of concrete in buildings, dams, roadwork. Industrial applications include breaking refractory liners from furnaces and chipping away slag and molten steel from ladles.

NOTE: *LGTH. U.C. = Length Under Collar*

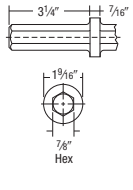
WARNING: Wear Safety Goggles

Pneumatic Breakers
Paving Breaker Steel

MADE IN USA

AJAX Tools

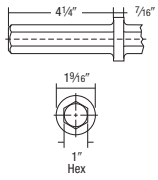
Paving Breaker Tools



7/8" X 3-1/4"

CAT.NO.	WT.
18401	9 1/4 lbs
11080	6 1/2 lbs
11060	8 1/2 lbs
N/A	
N/A	
10010	6 1/4 lbs
11700	8 3/4 lbs

CAT.NO.	ROD SIZE
N/A	
N/A	
N/A	
N/A	
N/A	

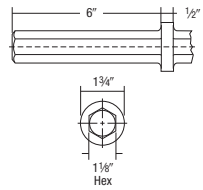


1" X 4-1/4"

CAT.NO.	WT.
28401	10 lbs
21080	7 lbs
21060	9 lbs
21140	6 1/2 lbs
21130	6 lbs
20010	6 1/4 lbs
21700	9 3/4 lbs

CAT.NO.	HOLE SIZE	ROD SIZE
21758	3/4"	5/8"
21734	7/8"	3/4"
21778	1"	7/8"
21701	1 1/8"	1"

CAT.NO.	WT.
21800	6 lbs

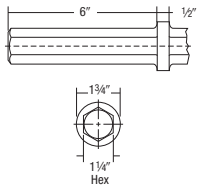


1-1/8" X 6"

CAT.NO.	WT.
38401	10 1/2 lbs
31080	8 1/2 lbs
31060	13 lbs
31140	8 lbs
31130	7 lbs
30010	8 1/4 lbs
31700	10 3/4 lbs

CAT.NO.	HOLE SIZE	ROD SIZE
31758	3/4"	5/8"
31734	7/8"	3/4"
31778	1"	7/8"
31701	1 1/8"	1"

CAT.NO.	WT.
31800	7 1/2 lbs



1-1/4" X 6"

CAT.NO.	WT.
48401	10 1/2 lbs
41080	10 1/4 lbs
41060	13 lbs
41140	8 3/4 lbs
41130	8 1/4 lbs
40010	8 1/4 lbs
41700	11 1/4 lbs

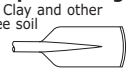
CAT.NO.	HOLE SIZE	ROD SIZE
41758	3/4"	5/8"
41734	7/8"	3/4"
41778	1"	7/8"
41701	1 1/8"	1"

CAT.NO.	WT.
41800	8 lbs



POINT STYLE

Long Spade 3 Edged
5" x 9" Clay and other rock-free soil



Digging Chisel
3" x 10" Deeper penetration in hardpan, gravel and similar materials



Frost Wedge
1 7/8" x 12" Breaking up frozen ground



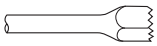
Asphalt Wedge
3" x 7" Spitting apart asphalt



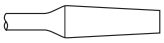
Concrete Wedge
1" x 3" Splitting apart concrete



Bushing Tool
2" x 2" Roughing up or surface removal of concrete



Concrete Breaker
Breaking up concrete after first drilling a hole

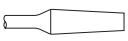


POINT STYLE

Ground Rod Driver
Drving electrical grounding rods into the soil



Detachable Shank



ATTACHMENTS FOR DETACHABLE SHANKS

2" TENT STAKE DRIVER 31820



TAMPING PAD 6" x 6" SQ. 31860



TAMPING PAD 7" RD. 31900



Construction Tools

Air Tool Accessories

AJAX Tools

Accessory Items

Impact Wrench Chuck

1012 1/2" Chuck for 1/2" Sq. Drive
1014 3/8" Chuck for 3/8" Sq. Drive

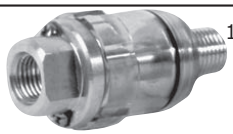
Chuck slips onto square spindle and transforms your impact wrench into an efficient drilling tool.



Oiler / Midget Oiler

1070 Attaches directly to any air tool.
1/4" Male x 1/4" Female NPT. Adjustable flow rate.
Holds 9 CCs of oil.

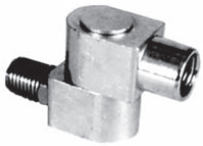




1071 High-impact plastic reservoir allows operator to see when refill is necessary.

360° Hose Swivel

1094 1/4" NPT
1095 3/8" NPT



Pressure-Feed Pneumatic Tool Lubricators



1066



1067



1068



1069

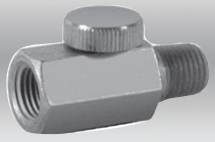
Pressure-feed lubricators increase the life and productivity of your air tools and are easily installed on any air line, hose, compressor or air tool. When the tool is started a momentary pressure drop occurs and back pressure forces a fog of oil into the air stream to the tool. This operation repeats each time the tool is operated as long as the reservoir has oil. This may be checked through the pressure-proof window or window cap. The adjustable feeder allows you to set the lubricator valve for all climates and conditions. Refilling is easy: just remove the manual relieving safety filler cap and fill the reservoir.

MODEL	LENGTH	WIDTH	HEIGHT	WEIGHT	OIL CAP.	PIPE SIZE	CAP. FREE AIR	SAFETY FACTOR
1066	41/2"	2 3/8"	2 13/16"	1 LB.	1.4 OZ.	1/2" NPT	100 SCFM	500
1067	6"	2 7/8"	3 3/8"	1.5 LB.	4.0 OZ.	3/4" NPT	175 SCFM	260
1068	7"	3 3/8"	3 11/16"	2 LB.	11 OZ.	3/4" NPT	175 SCFM	300
1069	10"	3 7/8"	4 3/16"	4.25 LB.	16 OZ.	1" NPT	350 SCFM	250
1066SG SIGHT GLASS CAP								
1066-1 O-RING								

AIR REGULATORS



894
(CPT No. CA 085203)
For tools with 1/4" threaded inlet. Spring loaded lock type arrangement stays at your setting and restricts air flow to suit your needs.



889 Brass
890 Aluminum
Increase or decrease pressure as needed. 1/4" Male x 1/4" Female NPT.





Construction Tools

Impact Wrenches
Hydraulic-ID07

STANLEY



FEATURES:

- The ID07 can drive wood augers into the hardest saltcured or creosote-treated poles. Delivering impact torque of up to 500 ft. lbs.
- The ID07 has the work-site proven swing-hammer mechanism that will deliver high performance and long-term service.
- The integral Stanley HyrevzTM gear motor is manufactured to exacting standards to deliver maximum efficiency
- The built-in reverse-check valve prevents operating the wrench when reverse- plumbed to the hydraulic system. Preventing reverse operation ensures a long operating life for the hydraulic seals.
- Setting the tool for open- or closed-center operation is as simple as opening or closing a valve.

SPECIFICATIONS

ID07	
Capacity	7/16-in Quick Change or 1/2-in Square Drive
Torque	500 ft. lbs.
	675 Nm
Input Pressure	750 - 2000 psi
	50 - 140 bar
Weight	7.2 lb
	3.3 kg
Length	8.5 in.
	21.6 cm
Width	4.5 in.
	11.4 cm
Height	10 in.
	25.4 cm
Ports	-8 SAE O-Ring
Motor	Stanley Hyrevz™ Gear
Maximum Flow	4 - 12 gpm
	15 - 45 lpm

ID07 IS THE BEST IMPACT DRILL/WRENCH ON THE MARKET - THE POWER OF HYDRAULICS

Impact Wrenches
Hydraulic-IW12

STANLEY



SPECIFICATIONS

IW12	
Chuck Type-Sq. Drive	3/4 in
	1.9 cm
Torque	250-1200 ft lb
	340-1632 Nm
Input Pressure	1000-2000 psi
	70-140 bar
Weight	14 lb
	6.4 kg
Length	9.5 in
	24.1 cm
Width	4 in
	10.2 cm
Connection	3/8 in. Male Pipe Adapter
Ports	-8 SAE O-Ring
Motor	Integral
Hose Whips	No
Flow Range	4-12 gpm
	15-45 lpm

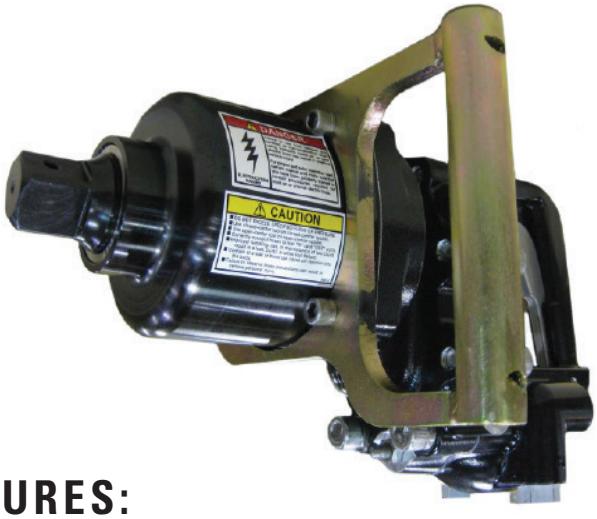
FEATURES:

- The IW12 impact wrench features adjustable impact intensity. The IW12 can handle a wide variety of applications.
- The rugged Stanley impact wrench mechanism is simple to maintain and has many features to give it proven reliability. Torque transmission to the operator is minimal with the swing hammer design.
- The larger feathering trigger is convenient to use and gives the operator complete control of the wrench. The standard reversing valve provides instant reverse.

NO AIR OR ELECTRIC TOOL CAN MATCH THE POWER AND WEIGHT OF OUR IMPACT WRENCHES - THE POWER OF HYDRAULICS

Impact Wrenches
Hydraulic IW16

STANLEY



FEATURES:

- Medium to heavy duty wrench ideal for nut and bolt driving, anchor bolts and drilling applications.
- Designed to run from a wide range of hydraulic circuits, the IW16 has adjustable impact intensity making it ideal for a wide range of heavy duty driving.
- The large "D" handle and feathering trigger is convenient and gives the operator complete control of the wrench.
- Just set the direction of rotation to either tighten or loosen a fastener, squeeze the trigger for up to 2500 ft lbs (3400 Nm) of torque.
- Standard reversing valve provides instant change over from forward to reverse.



SPECIFICATIONS

IW16	
Capacity	1 in. Square Drive
Torque	500 - 2500 ft lbs
	680 - 3400 Nm
Input Pressure	1500 - 2000 psi
	105 - 140 bar
Weight	26 lbs
	12 kg
Length	14.5 in.
	37 cm
Width	4.5 in.
	11 cm
Connection	3/8 in. Male Pipe Adapter
Ports	-8 SAE O-Ring
Motor	Integral
Hose Whips	No
Maximum Flow	7 - 12 gpm
	26 - 45 lpm

2500 FT. LBS OF PURE TORQUE -
THE POWER OF HYDRAULICS

Impact Wrenches
Hydraulic

STANLEY



SPECIFICATIONS		
ITEM	**U.S.A.**	**METRIC**
CAPACITY	1-1/2 in. Square Drive	
PERFORMANCE	800 - 3500 ft lbs	1088 - 4760 Nm
FLOW RANGE	7 - 12 gpm	26 - 45 lpm
PRESSURE	1800 - 2000 psi	124 - 140 bar
PORTS	-8 SAE O-Ring	
WEIGHT	43 lbs	19.5 kg
LENGTH	16.5 in.	41 cm
WIDTH	5.1 in.	13 cm
CONNECTION	3/8 in. Male Pipe Adapter	
HOSE WHIPS	No	
MOTOR	Integral	

Features and Benefits

The Stanley IW24 Impact Wrench is a heavy duty wrench ideal for nut and bolt driving, screw anchor and other heavy impact applications.

Designed to run from a wide range of hydraulic circuits, the IW24 has adjustable impact intensity making it ideal for a wide range of heavy duty driving.

The large “D” handle and feathering trigger are convenient and gives the operator complete control of the wrench.

The rugged swing-hammer impact mechanism provides easy servicing for reduced maintenance costs and greatly reduces the transmission of torque to the operator reducing fatigue through repetitive tool operation.

Standard reversing valve provides instant change over from forward to reverse.

Just set the direction of rotation to either tighten or loosen a fastener, squeeze the trigger for up to 3500 ft lbs (4760 Nm) of torque.



Chipping Hammers
Hydraulic

STANLEY



SPECIFICATIONS		
ITEM	**U.S.A.**	**METRIC**
CAPACITY	.580 Hex Shank - Oval Collar Steel Tool Bits	
INPUT OIL FLOW (CH1553101)	4 - 6 gpm	15 - 23 lpm
(CH1513101 & CH1533101)	7 - 9 gpm	26 - 34 lpm
INPUT PRESSURE	1000-2000 psi	69-140 bar
PORTS	-8 SAE O-Ring	
WEIGHT	16 lbs	7.25 kg
LENGTH	17 inches	43 centimeters
CONNECTION	HTMA/EHTMA Flush Faced Coupler	
HOSE WHIPS	YES	

Features and Benefits

The CH15 Chipping Hammer is a light but powerful alternative to air powered tools. Designed for medium to heavy-duty jobs, the CH15's high power-to-weight ratio makes it the ideal tool for light concrete breaking jobs and for chipping concrete or steel. The compact size and balance of the tool makes it easy to use in confined, hard-to-reach locations.

The body of the tool is shock and heat insulated. The ergonomic design of the handle and grip provide increased control and operator comfort, resulting in increased operator productivity.

The floating trigger design requires minimal pressure across any part of its surface to engage the tool. The trigger is protected within the handle to prevent accidental operation of the tool.

The tool has a solid bit retainer and will accept .580 hex shank - oval collar tool bits.

The CH15 is available in 5 gpm (19 lpm) and 8 gpm (30 lpm) models. Underwater models are also available.

The CH15 can be powered by the Stanley GT18 portable power unit or any hydraulic power supply capable of delivering 4-6 or 7-9 gpm (15-23 or 26-34 lpm) at 1000-2000 psi (69-140 bar).

The power supply should meet the requirements of the HTMA Type I or Type II tool circuits.



Chipping Hammers
Hydraulic

STANLEY®



SPECIFICATIONS		
ITEM	**U.S.A.**	**METRIC**
Capacity	2 1/2 in Shank x 0.580 in Hex	63 mm Shank x 15 mm Hex
Weight	24 lb	11 kg
Length	20 in	51 cm
Width	3 in	8cm
Pressure	1500-2000 psi	105-140 bar
Flow Range	7-9 gpm	26-34 lpm
Optimum Flow	8 gpm	30 lpm
Porting	6 SAE O-Ring	
Hose Whips	Yes	
Connect Size and Type	3/8 in Male Pipe Hose End	

Features and Benefits

Stanley's **CH18** chipping hammer, with "D" handle, is a light but powerful alternative to the air powered tools. Both the handle and tool holder end are shock and heat insulated for operator comfort.

Designed to be small and compact for confined working conditions, the **CH18** accepts standard 0.580-inch round collar steels.

Underwater models available. Refer to ordering information.

Hydraulic Breakers
Hand-Held BR45

STANLEY



Rugged, lightweight and powerful construction of the BR45 T handle and BR45S anti vibration handle breakers make them ideal for use in the 35 - 55 pound class. Designed for light to medium duty operation, they excel at curb and sidewalk demolition, asphalt cutting, and are popular for ground rod driving with electric utilities.

The Stanley Easi-Ride™ foot, offered on the BR45 absorbs and controls tool-bit bounce, greatly reducing operator fatigue.

Spring-isolated, anti-vibration handles (BR45S) reduces operator fatigue, literally allowing the breaker to float in the user's hands.

Built in handle stops on the anti-vibration model (BR45S) allows the operator to apply full body weight in tough applications.

Feathering on/off valve allows the operator to control the output energy of the tool through the full range from 0 to 1525 blows per minute, making startup and initial tool placement easy.

Diaphragm type accumulator design provides for ease of maintenance and extended service life of the tool. All models operate at a maximum back pressure of 250 psi (17 bar) on open center systems.

Complete line of steels for breaking, cutting, or driving are available directly from your Stanley dealer.

Underwater models available.

SPECIFICATIONS

ITEM		
Output	0 - 1525 Blows Per Minute	
Input Flow Range	7 - 9 gpm	26 - 34 lpm
Input Pressure	1500 - 2000 psi	105 - 140 bar
Max. Back Pressure	250 psi	17 bar
Optimum Flow	8 gpm	30 lpm
Porting	-8 SAE O-Ring	
Connector	3/8in. Male Pipe Head Hose End	
BR45 (T Handle)		
Steel Capacity	4-1/4 x 1 in. Hex*, 6 x 1-1/8 in. Hex and 6 x 1-1/4 in. Hex	
Weight	45 / 51 lb	20 / 23 kg
Length	25 in.	65 cm
Width (At Handles)	14 / 17.5 in.	35 / 45 cm
BR45S (Anti-Vibration Handle)		
Steel Capacity	6 x 1-1/8 in. Hex and 6 x 1-1/4 in. Hex	
Weight	55 lb	25 kg
Length	28 in.	72 cm
Width (At Handles)	17.5 in.	44.5 cm

* Not available with Easi-Ride™ foot.



Hydraulic Breakers
Hand-Held BR50

STANLEY



The rugged, lightweight and powerful construction of the BR50 T handle and BR50S anti vibration handle breakers makes them ideal for use in the 35 - 65 pound class. Designed for light to medium duty operation, they excel at curb and sidewalk demolition, asphalt cutting, and are popular for ground rod driving with electric utilities.

SPECIFICATIONS

ITEM		
Output	1525 Blows Per Minute	
Input Flow Range	7 -109 gpm	26 - 34 lpm
Input Pressure	1500 - 2000 psi	105 - 140 bar
Max. Back Pressure	250 psi	17 bar
Optimum Flow	8 gpm	30 lpm
Porting	-8 SAE O-Ring	
Connector	3/8in. Male Pipe Head Hose End	
BR50 (T Handle)		
Steel Capacity	6 x 1-1/8 in. Hex and 6 x 1-1/4 in. Hex	
Weight	52 lb	24 kg
Length	25 in.	65 cm
Width (At Handles)	14 / 17.5 in.	35 / 45 cm
BR50 (Anti-Vibration Handle)		
Steel Capacity	6 x 1-1/8 in. Hex and 6 x 1-1/4 in. Hex	
Weight	56 lb	25 kg
Length	28.5 in.	72.4 cm
Width (At Handles)	17.5 in.	44.5 cm

The BR50 is specifically designed for use on Stanley brand power units and Stanley Hydraverter, resulting in a 20% increase in performance when compared to the BR45 line. The BR50 is not designed to be used on truck or tractor circuits.

The Stanley Easi-Ride™ foot, offered on the BR50 absorbs and controls tool-bit bounce, greatly reducing operator fatigue.

Spring-isolated, anti-vibration handles (BR50S) reduces operator fatigue, literally allowing the breaker to float in the user's hands.

Feathering on/off valve allows the operator to control the output energy of the tool through the full range from 0 to 1525 blows per minutes, making startup and initial tool placement easy.

Diaphragm type accumulator design provides for ease of maintenance and extended service life of the tool. All models operate at a maximum back pressure of 250 psi (17 bar) on open center systems.

Complete line of steels for breaking, cutting, or driving is available directly from your Stanley dealer.



Hydraulic Breakers
Handheld BR67

STANLEY



Stanley's line of handheld breakers contains a wide selection of models suited to virtually any application.

The BR67 is a medium duty tool for work in the 70 - 90 pound class. It is highly productive in utility construction, street maintenance, repair of water and gas mains, and general contracting jobs.

Available in both a T-Handle and Anti-Vibration Handle model.

Spring dampened, anti-vibration handles (BR67125 and BR67135) reduces operator fatigue, allowing the breaker to float in the user's hands. Built in handle stops allow the operator to apply full body weight in tough applications.

Easi-Ride™ foot, offered on the BR67 absorbs and controls tool bit bounce, greatly reducing operator fatigue.

Feathering on/off valve controls blow speed, making startup and initial tool placement easy.

Diaphragm accumulator provides trouble free operation with system back pressures up to 250 psi (17 bar). Accumulator on BR67125 and BR67135 can be serviced without disassembling the tool. Both models operate on open center systems and are available in 1-1/8 or 1-1/4 in. hex sizes.

Complete line of steels for breaking, cutting or driving available from Stanley Hydraulic Tools.

Underwater models available.

SPECIFICATIONS

ITEM		
Output	0 - 1300 Blows Per Minute Range	
Input Flow Range	7 - 9 gpm	26 - 34 lpm
Input Pressure	1500 - 2000 psi	105 - 140 bar
Max. Back Pressure	250 psi	17 bar
Optimum Flow	8 gpm	30 lpm
Porting	-8 SAE O-Ring	
Connector	3/8 in. Male Pipe Hose End	
BR67		
Steel Capacity	6 x 1-1/4 in. Hex and 6 x 1-1/8 in. Hex	
Weight	67 / 72 lb	30 / 33 kg
Length	27 in.	68 cm
Width (At Handles)	16 in.	41 cm
BR67125 and BR67135		
Steel Capacity	6 x 1-1/8 in. Hex and 6 x 1-1/4 in. Hex	
Weight	78 lb	36 kg
Length	29 in.	73 cm
Width (At Handles)	18 in.	46 cm



Hydraulic Breakers
Handheld BR87

STANLEY



SPECIFICATIONS

ITEM		
Output	0 - 1080 Blows Per Minute	
Pressure	1500 - 2000 psi	105 - 140 bar
Flow Range	7 - 9 gpm	26 - 34 lpm
Optimum Flow	8 gpm	30 lpm
Porting	-8 SAE O-Ring	
Connector	3/8 in. Male Pipe Hose End	
Capacity	1-1/8 x 6 in. Hex 1-1/4 x 6 in. Hex*	1-1/8 in. x 15.2 cm Hex 1-1/4 in. x 15.2 cm Hex*
Weight	84 lbs	38 kg
Length	29 in.	73.5 cm

Stanley's line of handheld breakers contains a wide selection of models suited to virtually any application.

The BR87 is a heavy duty tool for work in the 90 pound class and above. It is highly productive in utility construciton, street maintenance, repair of water and gas mains, and general contracting jobs.

Easi-Ride™ foot, offered on the BR87 absorbs and controls tool bit bounce, greatly reducing operator fatigue.

A feathering on/off valve controls speed, making start up and initial tool placement easy.

Diaphragm accumulator provides trouble free operation with system back pressures up to 250 psi (17 bar). Accumulator on the BR87 can be serviced without disassembling the tool. Both models operate on open center systems and are available in 1-1/8 or 1-1/4 in. hex sizes.

Operates on open center systems and is available in 1-1/8 or 1-1/4 inch chuck hex sizes.

Complete line of steels for breaking, cutting or driving available from Stanley Hydraulic Tools.

Undewater models available.



Cut Off Saw
Hydraulic

STANLEY

Lightweight and powerful, the Stanley CO25 Cutoff Saw is ideal for cutting concrete, masonry, pipe, structural steel beams and guardrail.

The CO25 multi-hand position cast aluminum handle with interlocking safety trigger provides ergonomic grip at a variety of tool angles for reduced operator fatigue.

Tamper-proof fl ow control meets ANSI specifi cations for speed control, reducing the risk of over-speeding the cutting wheel.

Cutoff saws can be used with readily available standard abrasive wheels and wet or dry diamond blades.

Internal blade brake retards spindle rotation upon re-lease of trigger to greatly reduce wheel coast time.

Adjustable cast aluminum wheel guard is designed to provide excellent durability, allow cutting near obstruc-tions and minimize tool weight. Available handle exten-sion kit provides for upright operation to meet operator preference.



The Stanley saw cart with a CO25 makes the ideal tool combination for accurate dimensional cutting of concrete flat work.

Heavily weighted frame of the Stanley saw cart provides a stable platform for slab cutting. Handle-mounted con-trol provides convenient adjustment of cutting depth.



SPECIFICATIONS

ITEM	USA	METRIC
Output Capacity	14 in. Wheel	35.6 cm
Input Flow Range	7 - 9 gpm	26 - 34 lpm
Input Pressure	1500 - 2000 psi	105 - 140 bar
Optimum Flow	8 gpm	30 lpm
Weight	20 lbs	9.1 kg
Length	21 in.	53.3 cm
Width	11 in.	28 cm
Motor	HYREVZ™ Gear	
Porting	8 SAE O-Ring	
Connector	3/8 in. Male Pipe Hose End	

Grinder
Hydraulic

STANLEY



SPECIFICATIONS

GR30	
Capacity	9 in. Wheel on 5/8-11 thrd Arbor
Speed	5600 rpm at 8 gpm
	30 lpm
Input Flow Range	7-9 gpm
	26-34 lpm
Input Pressure	1000-2000 psi
	70-140 bar
Weight	12.5 lbs
	5.7 kg
Length	8.5 in.
	21.6 cm
Width	8.7 in
	22.1 cm
Height	17.5 in.
	44.5 cm
Motor	Stanley HyrevzTM Gear
Porting	-8 SAE 0-ring
Hose Whips	Yes, Includes Speed Limiter

FEATURES:

- The integral Stanley HyrevzTM gear motor is manufactured to exacting standards to deliver maximum efficiency.
- The over-sized motor run-down valve allows the motor to freely run down in speed when the grinder is turned off ensuring that a properly installed wheel will not spin off the spindle.
- The built-in reverse-check valve in the handle prevents operating the grinder when reverse-plumbed to the hydraulic system.
- The Stanley dual-spool selector is accessable under a seal plug at the rear of the tool.

OPEN-CENTER OR CLOSED-CENTER? YOU CHOOSE - THE POWER OF HYDRAULICS

Hammer Drills
Hydraulic

STANLEY



The Stanley HD01 hammer drill is ideal for just about any drilling job whether in rock, concrete, masonry, wood or metal.

The powerful, high rate, hammer function makes it easy to drill in rock, masonry and other like materials. For drilling in materials such as wood and metal, the hammer function can be turned off.

The sturdy, light-weight construction of the HD01 features a D-handle and assist handle that make it easier to maneuver than a pistol-grip tool. And, the power-to-weight ratio of the HD01 brings even the toughest jobs down to size.

The HD01 comes standard with a chuck that accepts SDS Plus bits. A geared drill chuck and adapter are available for use with common wood auger bits or twist drills. The HD01 will accept other common accessories that have the standard SDS Plus shank.

A depth gauge attachment is standard.

A build-in flow control allows use of the HD01 on hydraulic circuits having 3 - 9 gpm / 1 - 34 lpm flow.

The unique system selector valve allows the HD01 to be used on open-center or closed-center hydraulic systems.

SPECIFICATIONS		
Rotation Speed at 5 gpm	800	rpm
Blows per Minute at 5 gpm	4200	blows
Weight without Couplers	8.4	lbs
	4.1	kg
Length	14.1	in
	36	cm
Height	5.6	in
	14	cm
Pressure	750-2000	psi
	50-114	bar
Flow Range	3-9	gpm
	11-34	lpm
Optimum Flow	5	gpm
	22.8	lpm
Porting	-8 SAE O-ring	
Connect Size and Type	-8 SAE O-ring	
Collar Diameter	55	mm
	2.1	in
Motor	Integral	
Tool Holder / Bit Type	SDS Plus	

ACCESSORIES	
Description	**Part Number**
1/2 inch Friction Chuck with Adaptor	72992

SERVICE PARTS	
Description	**Part Number**
Seal Kit	72864
Service Kit	72661

Hammer Drills
Hydraulic

STANLEY®



SPECIFICATIONS		
ITEM	**U.S.A.**	**METRIC**
CHUCK CAPACITY	Up to 2 in dia. or 4 in core, 736 Skil hex	
OUTPUT	0 - 300 rpm	
INPUT FLOW RANGE	7 - 9 gpm	26 - 34 lpm
INPUT PRESSURE	1500 - 2000 psi	105 - 140 bar
OPTIMUM FLOW	8 gpm	30 lpm
WEIGHT	45 lbs	20.4 kg
LENGTH	22.5 in	57 cm
WIDTH (at handles)	14 in	35 cm
MOTOR	Internal	
PORTING	8 SAE O-Ring	
CONNECTOR	3/8 in Male Pipe Hose End	

Features and Benefits

Stanley Hydraulic Tool's **HD45** Hammer Drill is a heavy duty model designed for use in medium to heavy applications. It's the ideal tool for drilling gas and water utility holes and setting anchor bolts.

Drills Holes from 3/4 in (19 mm) to 2 in (50 mm) in diameter and up to 29 in (73.7 cm) deep as well as core drilling up to 4 in (102 mm) in diameter.

Uses Standard Skil 736 type carbide tipped, fluted drill bits and requires no fluid to clear holes during operation.

Feathering On / Off Valve / Adjust-able Bit Rotation Speed *(forward and reverse)* make the **HD45** easy to start and easy to control.

Underwater Models Available.

Sinker Drills
Hydraulic-SK47

STANLEY



SPECIFICATIONS

ITEM	U.S.A.	METRIC
CAPACITY	7/8 in. Hex x 4-1/4 in. Shank	
PERFORMANCE	2 in. x 10 ft. Deep Hole	
FLOW RANGE	7 - 9 gpm	26 - 34 lpm
PRESSURE	1500 - 2000 psi	105 - 140 bar
PORTS*	-8 SAE O-Ring (H), 3/8 in. NPT (A)	
WEIGHT	52 lbs	24 kg
LENGTH	23 in.	58 cm
WIDTH	14 in.	35 cm
CONNECTION	3/8 in. Male NPT Hose End	
HOSE WHIPS	Yes	
MOTOR	Integral	

* (H) = Hydraulic
(A) = Air

Features and Benefits

The Stanley SK47 Sinker Drill is designed for utility construction, blast hole drilling, leak detection for gas utilities and dowel drilling.

The SK47 comes ready to use air flushing to clear holes of debris. The air flow automatically is shut off when the drill is Off.

The sinker drill features an easy start feathering trigger and a direct drive rotation motor for reliable service and fast and easy starting.

The rotation is independent of impact rate and is adjustable between 0 and 300 rpm. The sinker drill can drill up to a 2 in. (5 cm) diameter hole up to 10 ft (3 m) deep.

The SK47 is light and easy to handle. It is ideal for applications requiring frequent moves on the job site.

Sinker Drills
Hydraulic-SK58

STANLEY



SPECIFICATIONS

ITEM	U.S.A.	METRIC
CAPACITY (SK58130)	7/8 in. Hex x 4-1/4 in. Shank	
CAPACITY	1 in. Hex x 4-1/4 in. Shank	
PERFORMANCE	3 in. x 20 ft. Deep Hole	
FLOW RANGE	7 - 9 gpm	26 - 34 lpm
PRESSURE	1500 - 2000 psi	105 - 140 bar
PORTS*	-8 SAE O-Ring (H), 1/2 in. NPT (A)	
WEIGHT	67 lbs	30 kg
LENGTH	26 in.	66 cm
WIDTH	18 in.	46 cm
CONNECTION	3/8 in. Male NPT Hose End	
HOSE WHIPS	Yes	
MOTOR	Integral	

* (H) = Hydraulic
(A) = Air

Features and Benefits

The Stanley SK58 Sinker Drill is designed for heavy-duty utility construction, blast hole drilling, leak detection for gas utilities, dowel drilling. A model is available for underwater use.

Models are available with air or water flushing to clear holes of debris.

The sinker drill features an easy start feathering trigger and a direct drive rotation motor for reliable service and fast and easy starting.

The rotation is independent of impact rate and is adjustable between 0 and 300 rpm. The sinker drill can drill up to a 3 in. (75 mm) diameter hole up to 20 ft (6 m) deep.

Waterpumps
Hydraulic-SM20

STANLEY



SPECIFICATIONS		
ITEM	**U.S.A.**	**METRIC**
CAPACITY	2-1/2 in. Discharge	
PERFORMANCE	250 gpm	946 lpm
FLOW RANGE	4 - 9 gpm	15 - 34 lpm
PRESSURE	1000 - 2000 psi	70 - 140 bar
PORTS	-8 SAE O-Ring	
WEIGHT	13.7 lbs	6.3 kg
LENGTH	7-1/2 in.	19 cm
WIDTH	9.6 in.	24 cm
CONNECTION	3/8 in. Flush-Face Quick Disconnect Coupler	
HOSE WHIPS	No	
MOTOR	Integral	
DISCHARGE SIZE	2-1/2 in. Female Pipe Threads	

Features and Benefits

The Stanley SM20 Water Pump is one of the lightest and most durable pumps available. Pumping 250 gpm (946 lpm) at a 10 foot head and moving solids up to 5/16 of an inch makes it ideal for vaults and manholes.

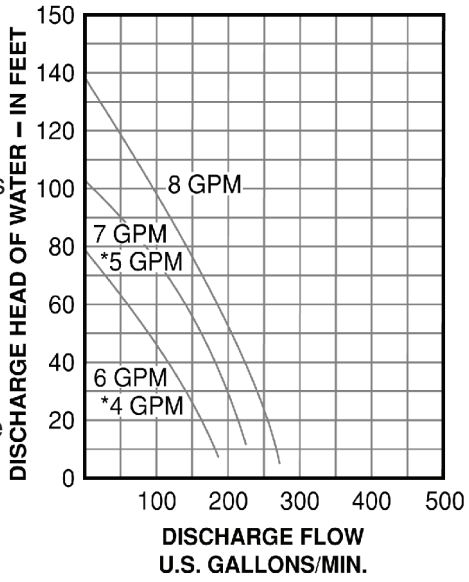
The SM20 will out-pump most all gasoline engine driven pumps. There is no recoil starting, priming or suction hose as with gas engine driven pumps. It can be run dry without damage.

Submersed into the water and with its easy hookup to a power unit, the SM20 is instantly pumping.

The standard urethane impeller is highly abrasion resistant for long service pumping gritty slurries.

The abrasion resistant cast iron inlet wear ring is easily replaced from the inlet sit of the pump.

With only a few moving parts, the SM20 is virtually maintenance free.



Waterpumps
Hydraulic-SM21

STANLEY



SPECIFICATIONS		
ITEM	**U.S.A.**	**METRIC**
CAPACITY	2-1/2 in. Discharge	
PERFORMANCE	300 gpm	1135 lpm
FLOW RANGE	4 - 9 gpm	15 - 34 lpm
PRESSURE	1000 - 2000 psi	70 - 140 bar
PORTS	-6 SAE O-Ring	
WEIGHT	20 lbs	9.1 kg
LENGTH	16 in.	40.6 cm
WIDTH	6-1/4 in.	15.9 cm
CONNECTION	3/8 in. Flush-Face Quick Disconnect Coupler	
HOSE WHIPS	Yes	
MOTOR	Integral	
DISCHARGE SIZE	2-1/2 in. Female Pipe Threads	

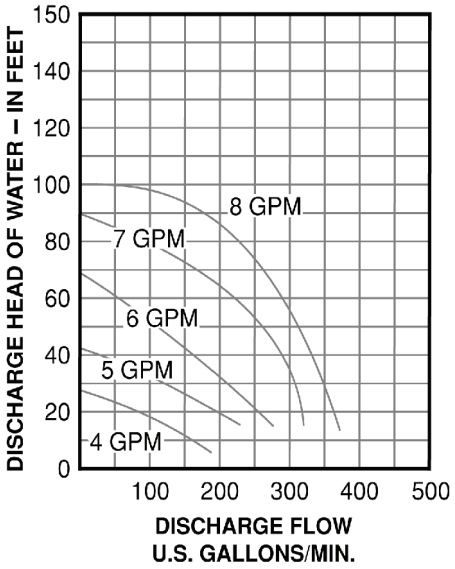
Features and Benefits

The Stanley SM21 Water Pump is one of the lightest and most durable pumps available. It's capability of pumping 300 gpm (1135 lpm) at a 50 foot head make it ideal for vaults, manholes and more specifically in confined narrow openings.

The SM21 will outpump most all gasoline engine driven pumps. There is no recoil starting, priming or suction hose as with gas engine driven pumps. It can be run dry without damage.

Submersed into the water and with its easy hookup to a power unit, the SM21 is instantly pumping.

The cast iron impeller of the SM21 is within 3/4 of an inch of the base allowing the pump to remove more liquids than other pumps. With only a few moving parts, the SM21 is virtually maintenance free.



Waterpumps
Hydraulic-SM50

STANLEY



SPECIFICATIONS		
ITEM	**U.S.A.**	**METRIC**
OUTLET SIZE	3 - inch NPT / 3 - inch Camlock	
OUTPUT CAPACITY	500 gpm	1890 lpm
WEIGHT	21 lbs.	9.5 kg
LENGTH	10.5 inches	26.7 cm
WIDTH	10.0 inches	25.4 cm
INPUT PRESSURE	1000 – 2000 psi	69 – 138 bar
INPUT FLOW RANGE	7 – 12 gpm	26 – 45 lpm
PORTING	- 8 SAE ¾-16 Straight Thread	
CONNECTOR	3/8 Flush-face HTMA Coupler	

The SM50 Water Pump is a submersible, centrifugal type pump that requires no priming. The motor is contaminant-tolerant gear motor uniquely designed for continuous high-speed operation. The motor drives the impeller directly, so there are no spindle bearings that require periodic lubrication or replacement. The cast stainless steel, semi-closed impeller resists corrosion. A series of seals on the drive shaft effectively keep hydraulic fluid and pumped water where they belong while allowing the pump to be run dry without sudden seal failure.

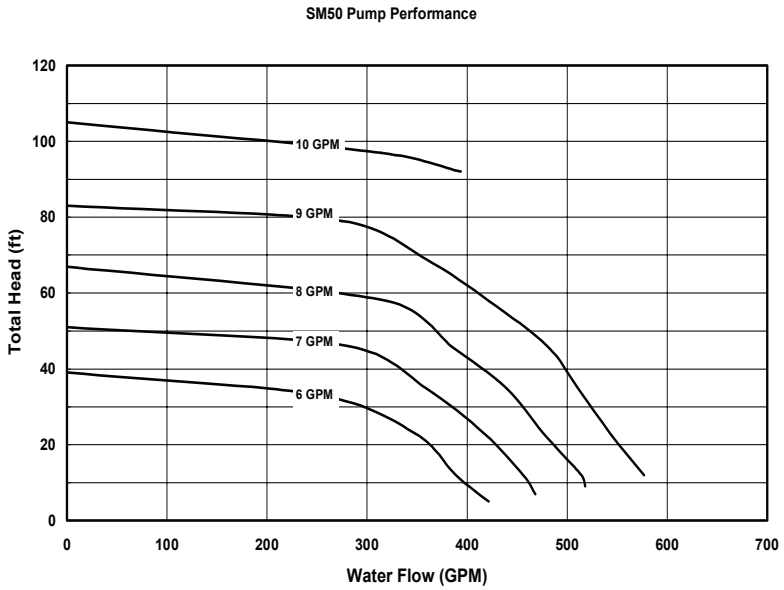
The SM50 is fitted with dripless flat-faced HTMA quick couplers for easy connecting and disconnecting of the pump and hydraulic system.

The water outlet is 3-inch pipe thread fitted with a 3-inch groove fitting to which can be connected a cam hose end fitting.

Access to the pumping chamber for cleaning requires the removal of only two capscrews. The motor with the impeller attached is then easily removed from the pump casing.

The SM50 can draw down water to a depth of 3.5 inches. Putting the SM50 in a sump will allow it to pump all but 3.5 inches of water remaining in the sump.

The integral screen effectively keeps solids larger than 3/8 of an inch out of the pump. The pump will handle clear water and water containing up to 10% solids.



Tampers
Hydraulic

STANLEY



The TA54 Tamper is ideal for soil compaction around utility poles, sign and fence posts. It provides 1,600 blows per minute with a long 2-1/2 inch stroke for optimum compaction.

The long stroke keeps the TA54 above the fill making it easy to reposition the tool.

Only 2 moving parts.

Depending on model the TA54 is furnished with a 3 x 8 inch kidney foot, a 4 or 6 inch diameter round shoe or a 4 x 8 inch rectangular shoe can be ordered as options to the base model.

SPECIFICATIONS

ITEM	
Performance	1,600 Blows Per Minute
Flow Range	3-9 gpm / 11-34 lpm
Pressure	1,000-2,000 psi / 70-140 bar
Weight	25 lb. / 11.3 kg
Length	See Specific Model under Ordering Information
Width	4 in. / 10.2 cm
Handle Length	All Models - 3 ft.
Connection	Adapters or Hoses & Couplers
Hoses	Only with model T54603A
Couplers	1/2 in. SAE O-Ring Port
System Type	HTMA Type I and Type II

ACCESSORIES

Part	Description
00833	Kidney Shoe
00840	Round Shoe, 6 in. Diameter
01070	Rectangular Shoe
35784	8 ft. Hose (2 Required)
72264	In-Line Valve Asssembly OC/CC

Service Tools	
Part No.	**Description**
021120	Tamper Sleeve Tool
01949	Sleeve Installation Wrench
04337	O-Ring Tool Kit

Model Numbers	
Model	**Description**
TA54103	Tamper - OC, Kidney Shoe, 71 in. Long, Valve in Handle, Couplers, No Hose Whips
TA54603	Tamper - OC, Kidney Shoe, 69 in. Long, No Valve in Handle, Couplers, No Hose Whips
TA54603A	Tamper - OC/CC, Kidney Shoe, 69 in. Long, In-Line Valve, Hose Whips and Couplers
TA54113	Tamper - Round Shoe, 71 in. Long, Valve in Handle, Couplers, No Hose Whips

ORDERING INFORMATION

Model	Part No.	Weight	Length w/o Couplers and Hose Whips	Width	Flow Range	Working Pressure	Full Relief Setting	Blows/ Minute	Valve	Shoe	Coupler
TA54	TA54103	30 lbs / 13.6 kg	71 in. / 180 cm	4 in. / 10 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1600 bpm	In-handle	Kidney	Yes
	TA54603	30 lbs / 13.6 kg	69 in. / 175 cm	4 in. / 10 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1600 bpm	No Valve	Kidney	Yes
	TA54603A	37 lbs / 17 kg	69 in. / 175 cm	4 in. / 10 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1600 bpm	Remote In-line	Kidney	Yes
	TA54113	30 lbs / 13.6 kg	71 in. / 180 cm	4 in. / 10 cm	3-9 gpm / 11-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	1600 bpm	In-handle	6 in. Round Shoe	Yes

Trash Pumps
Hydraulic-TP03

STANLEY



Features and Benefi ts

The Stanley TP03 Trash Pump is the lightest, most efficient way to move large volumes of liquid with concentrations of solids up to 25% by volume.

No priming necessary, just drop it into the material and it's ready for work.

The urethane bowl is virtually indestructible tough, lightweight, abrasion resistant, resilient and impervious to petrochemical solvents. The TP03 can pump almost anything without damaging the bowl.

The TP03's effi cient design places the urethane impeller above material flow, reducing blockage, jamming and overall pump water while keeping liquids moving fast enough to pump high volumes of solids at a much higher head than non-submersible pumps.

The new TP03 design includes an easy to use carrying handle that attaches to the eyelet on the top plate. The handle can be removed by unlocking the quick link connector. In addition the new Stanley yellow color improves visibility in the murkiest of liquids.

The TP03 can run dry without damaging motor or impeller, reducing the possibility of downtime.

It handles solids up to 3 inches at very high volumes to quickly and effi ciently empty sumps,, vaults, septic systems, trenches, etc.

SPECIFICATIONS

Item	U.S.A.	Metric
Capacity	3 in. Discharge	
Performance	450 gpm	1688 lpm
Flow Range	7 - 9 gpm	26 - 34 lpm
Pressure	2000 psi	140 bar
Ports	-12 and -14 SAE O-Ring	
Weight	31 lbs	14 kg
Length	14 in.	35.5 cm
Connection	HTMA Flush Face Couplers	
Discharge Connection	3 in. Female Pipe Thread	
Hose Whips	No	

Trash Pumps
Hydraulic TP08

STANLEY



SPECIFICATIONS		
ITEM	**U.S.A.**	**METRIC**
Capacity	800 gpm	3,028 lpm
Weight	59 lbs	26.7 kg
Height (over handle)	16.5 in.	42 cm
Length	19 in.	48.3 cm
Width	15 in.	38.1 cm
Pressure	2,000 psi	140 bar
Flow Range	7-9 gpm	26-34 lpm
Maximum Flow	9 gpm	34 lpm
Porting	#10 SAE (Press.) #12 SAE (Ret)	
Connect Size and Type	1/2 in. Male Pipe (Press.) 3/4 in. Male Pipe (Ret)	
Discharge Diameter	4 in. Camlock	
Inlet Diameter	4 in.	100 mm

The Stanley **TP08** Trash Pump is a light-weight, heavy duty pump capable of pumping high volumes of water, sand slurries, gravel, sludge and solids up to 3 in./75 mm in diameter. The **TP08** is submersible, self priming and can run dry without damage to the motor, bearings or impeller.

The **TP08** has been designed to get the most from an HTMA Type II hydraulic circuit. Using only 9 gpm/34 lpm of hydraulic flow, the **TP08** will pump over 800 gpm/3,028 lpm at a 10 ft/2.54 m head. The free-flow impeller and 4 in./ 100 mm inlet and outlet combine to make the **TP08** one of the most efficient pumps in the business.

Weighing only 59 lbs/27 kg and with its convenient handle, the **TP08** can easily be handled by one operator. The **TP08** and the Stanley HP28 Power Unit make a powerful, portable team for high volume de-watering and trash pump applications.

The heavy-duty construction of the **TP08** features a fabricated, all steel volute and abrasion resistant cast iron impeller. The volute uses replaceable UHMW polyeth-ylene wear plates to reduce wear and extend pump life. The heavy-duty Stanley HYREVZ™ hydraulic motor is self-lubricating.

Chain Saws
Hydraulic

STANLEY



Model DS06

Diamond chain saws use a revolutionary chain with laser welded segments impregnated with diamonds. This chain, coupled with a bar containing water channels for chain lubrication, make cutting concrete, brick, masonry, and stone an easy task.

A distinct advantage of a diamond chain saw over a diamond circular saw is cutting square corners without over-cut. A diamond chain saw is the perfect tool for plunge cutting for window and door openings, air conditioner cut-outs, and notching or trimming.

DIAMOND CHAIN TECHNOLOGY

The newest generation of diamond chains dramatically reduce the chain wear of cutting concrete. SealPro™ technology extends chain chassis life by up to 50% or more, simplifies water pressure requirements and reduces the frequency of chain tensioning adjustments.

SealPro™ technology incorporates a patented new chain chassis design that seals out abrasive contaminants. A unique 0-ring design seals the rivet-joints of the chain, keeping the abrasive materials out and the lubrication in.

Diamond chains with SealPro™ work at low water pressures eliminating the need for water booster pumps. The new chains can be used with water from an ordinary garden hose and will yield excellent chain life at pressures as low as 20 psi.

Other important advantages of SealPro™ technology are reduced chain stretch resulting in fewer tensioning adjustments over time.

Aggregate	Extra Hard		Hard	Medium		Soft		Abrasive
Material	Chert Flint	Basalt Quartz	Granite River Rock	Marble Limestone	Sandstone			Masonry, Brick, Block, Green Concrete
Approximate Moh's Scale	9	8	7	6	5	4	3	
Reinforcing Steel	Lots of Steel			Some Steel				No Steel
	1"	Double Mat	Single Mat	#5	#4	#3	Wire Mesh	
Saw Chain Wear (in.-ft.) **Pinnacle-32** **Pinnacle-37**	150 in-ft			600-800 in-ft		2000 in-ft		
Ultra-32 **Ultra-37**			200 in-ft					1500 in-ft

Chain Saws
Hydraulic

STANLEY

DIAMOND CHAIN SAW MODEL DS11

The DS11 is a heavy duty and powerful diamond chain saw that is ideal for fast cutting of concrete, reinforced concrete, conduit, brick, stone and other masonry. Plunge cut capability allows quick cutting of window, door, conduit and duct openings in walls and notching and trimming of concrete pipe. Trigger activated water for lubrication and cooling is ported through the bar and applied at the point where the concrete is being cut.

The DS11 features ergonomic handles and guards to help reduce operator fatigue, water connection, flush face quick disconnect couplers, and is powered by a STANLEY Hyrevz™ motor. The Wall Walker™ that provides leverage for cutting is standard equipment. The bar and chain are sold separately.



Model	Part No.	Weight	Length	Width	Flow Range	Working Pressure	Full Relief Setting	Output	Discharge
DS06	DS06200001*	14 lbs / 6 kg	24 in. / 61 cm	9 in. / 23 cm	4-6 gpm / 15-23 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	13 in. / 33 cm Bar	CE
	DS063000*	14 lbs / 6 kg	24 in. / 61 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	13 in. / 33 cm Bar	-
DS11	DS113000*	26 lbs / 11 kg	38 in. / 97 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	15, 18 in. / 33, 46 cm Bar	CE

* NOTE: Bar and Chain Not Included - Must be Ordered Separately

Accessories

Model	Part No.	Description
DS06	35037	Bar, 13 in. Sprocket Nose
	56799	Diamond Chain, Ultra-25, 13 in., Double Bumper
	56800	Diamond Chain, Pinnacle-25, 13 in. Double Bumper
	65797	Flap Kit
DS06/DS11	20857	Chain Repair Spinner
	20858	Chain Repair Breaker
	20859	Diamond Chain Butterfly Repair Kit
	60859	Water Flow Meter, 0-7 gpm
	56767	Connecting Link, 5-Pack

Model	Part No.	Description
DS11	30305	Bar, 15 in., Sprocket nose
	30306	Bar, 18 in., Sprocket nose
	56801	Diamond Chain, Ultra-32, 15 in., Double Bumper
	56802	Diamond Chain, Ultra-37, 18 in., Double Bumper
	56803	Diamond Chain, Pinnacle-32, 15 in. Double Bumper
	58632	Diamond Chain, Pinnacle-37, 18 in. Double Bumper
	23517	Sprocket Wrench

Chain Saws
Hydraulic

STANLEY

MAXIMUM CUTTING POWER



CUTTING WITH HYDRAULIC POWER
Operators familiar with conventional cutting equipment such as gasoline chain saws and circle saws are easily impressed with the power of hydraulic cutting equipment because the power-to-weight ratio is significantly higher. For example, our CS06 Chainsaw produces almost twice as much power as its gasoline engine counterparts and weighs about half as much.

Compared to conventional cutting equipment STANLEY hydraulic cutting tools offer:
- More work in less time
- Less effort
- Longer tool life
- Minimal maintenance
- Minimal downtime
- Increased safety
- Longer warranty

CHAIN SAW MODEL CS05/CS06



CS06

SPECIFICATIONS
Application: Wood Cutting - Trees, Limbs, Timbers, Utility Poles, Wood Structures
Capacity: 12, 15, & 20 in. / 30, 38, & 51 cm Bars
Hyd. Flow: 4-6 gpm / 15-23 lpm for CS05, 7-9 gpm / 26-34 lpm for CS06
Weight: 6.25 lbs / 2.8 kg
Overall Length: 27, 30, & 35 in. / 69, 76, & 89 cm
Width: 9 in. / 23 cm
Connection: 3/8 in. NPT Male Adapter (couplers sold separately)

FEATURES
- Highest power-to-weight ratio of any chain saw on the market today
- Trigger Lock
- Hand guard
- Dual spool for open center or closed center operation
- Low kickback bars and chains
- Inherently low-kickback hydraulic motor
- Automatic chain oiler
- Hyrevz™ motor

Chain Saws
Hydraulic

STANLEY

CHAIN SAW MODEL CS25/CS28



FEATURES
- Used for trimming and pruning large tree branches
- Ideal for use by right-of-way crews, arborists, utilities, parks departments, grounds keepers, and forest trail maintenance crews
- Fiberglass pole handle
- Hyrevz™ motor
- Dual spool for operation on open center or closed center systems
- Automatic chain oiling

Model	Part No.	Weight	Overall Length	Width	Flow Range	Working Pressure	Full Relief Setting	Cut Capacity	Misc.
CS05	CS05610	6.25 lbs / 2.8 kg	27 in. / 69 cm	9 in. / 23 cm	4-6 gpm / 15-23 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	13 in. / 33 cm	OC/CC
	CS05620	6.25 lbs / 2.8 kg	30 in. / 76 cm	9 in. / 23 cm	4-6 gpm / 15-23 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	15 in. / 38 cm	OC/CC
CS06	CS06610	6.25 lbs / 2.8 kg	27 in. / 69 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	13 in. / 33 cm	OC/CC
	CS06620	6.25 lbs / 2.8 kg	30 in. / 76 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	15 in. / 38 cm	OC/CC
	CS06630	6.25 lbs / 2.8 kg	35 in. / 89 cm	9 in. / 23 cm	7-9 gpm / 26-34 lpm	1500-2000 psi / 105-140 bar	2250 psi / 155 bar	20 in. / 51 cm	OC/CC
CS25	CS25811	9 lbs / 4 kg	90 in. / 229 cm	4.375 in. / 11 cm [1]	4-6 gpm / 15-23 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	12 in. / 30 cm	OC/CC
	CS25812	9 lbs / 4 kg	75 in. / 191 cm	4.375 in. / 11 cm [1]	4-6 gpm / 15-23 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	12 in. / 30 cm	OC/CC
CS28	CS28811	9 lbs / 4 kg	90 in. / 229 cm	4.375 in. / 11 cm [1]	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	12 in. / 30 cm	OC/CC
	CS28812	8.4 lbs / 3.8 kg	75 in. / 191 cm	4.375 in. / 11 cm [1]	7-9 gpm / 26-34 lpm	1000-2000 psi / 70-140 bar	2250 psi / 155 bar	12 in. / 30 cm	OC/CC

[1] Measured at motor end

Accessories

Model	Part No.	Description
CS05/CS06	07629	Rim Sprocket, .325P x 7 tooth
	07638	15 in. Saw Bar
	07639	20 in. Saw Bar
	07641	Saw Chain for 15 in. bar
	07642	Saw Chain for 20 in. bar
CS25/CS28	05144	Chain/Bar Guard

Model	Part No.	Description
ALL	12363	File Guide
	08347	13 in. Saw Bar
	08348	Saw Chain for 13 in. bar
	11464	Scrench
	33289	Chain Saw File
	11294	Flat File
	07616	Sprocket Spline Adapter
	07629	Rim Sprocket, .325P x 7 tooth

Hydraulic Power Unit
Gasoline-GTR20

STANLEY



SPECIFICATIONS

GTR20	
Output Capacity	2- 5 gpm/1-10 gpm
	2- 20 lpm/1-40 lpm
Pressure	2000 psi
	140 bar
Circuit Type	Open Center
Hydraulic Reservoir Capacity	3 gallons
	11 liters
Fuel Tank Capacity	7 Gallons
	26.5 liters
Weight (Wet)	330 lbs
	150 kg
Length	35 in.
	89 cm
Width	21/5 in.
	54.6 cm
Height	29 in.
	73.7 cm
Engines	Briggs & Stratton 18 HP Vanguard
Connector	HTMA Flush Faced Coupler

FEATURES:

- Computerized, electronic throttle control is standard on all models. The control allows for selection of constant engine speed or automatic speed.
- All electric control system with rotary switches.
- A quartz hour meter in the control panel records engine run time.
- The hydraulic pump is mounted directly to the engine eliminating any misalignment and ensuring long life of the drive coupling.
- An in-tank hydraulic filter continuously cleans the hydraulic fluid and assures that refi ll fluid passes through the filter for a clean refill.
- A 35-Ah sealed, non-spillable, no-maintenance battery is located inside a covered compartment.
- Moving the GTR around is made easy with a lift-and-latch handle.

NEED TO RUN TWO 5GPM TOOLS AT ONCE? ANSWER - GTR20 THE POWER OF HYDRAULICS

Hydraulic Power Unit
Gasoline-HP28

STANLEY



The New HP28 (TWIN8) twin circuit hydraulic power unit offers a revolutionary design capable of operating two tools at 8 gpm simultaneously. For the first time running two hydraulic tools at full 8 gpm capacity is a reality, increasing productivity and versatility like never before. Experience how the HP28 will change the way hydraulic tools are used and JOIN THE REVOLUTION!

Each of the two circuits is optimized to deliver ideal flows and pressures to both Type 1 and Type 2 hydraulic tools..

Features:

- **ATM Technology**
  Active Thermal Management (ATM) optimizes performance in extreme weather conditions. By managing oil temperatures, preheat time is decreased and tool runtime increases.
- **Side Handles**
  New side handles improve ease of lifting the unit while adding side impact protection and with no moving parts to wear or corrode.
- **Solid Tires**
  Eliminates the need to refill flat tires and decreases pull force needed for maneuvering.
- **Recessed Control Panel** Protects dashboard and couplers
- **Tough Grip Multi Position Handle** Special *Tough Grip* handle surface improves comfort and control with increased durability.
- **Lifting Hook**
  Flush face design protects the lifting hook from accidental job abuse.
- **Auto Choke**
  Allows for quick and easy starting of the power unit
- **12V DC Plug**
  For auxillary power to other devices

SPECIFICATIONS

Output Capacity	2 each 5 or 8 gpm / 20 or 30 lpm
Pressure	2000 psi / 140 bar
Circuit Type	Open Center
Hydraulic Reservoir Capacity	3.2 Gallons / 12.1 Liters
Couplers	HTMA Flush Face
Fuel Tank Capacity	4.7 Gallons / 17.8 Liters
Engine	Briggs & Stratton 27 hp Vanguard OHV
Weight	360 lbs / 163 kg
Length	37.5 in. / 95.25 cm
Width	25.75 in. / 65.4 cm
Height	30 in. / 76.2 cm
Heat Rejection	9 hp



Hydraulic Trachorse
MHP3

STANLEY



SPECIFICATIONS

MHP3	
Load Capacity	1000 lbs
	454 kg
Pressure	2000 psi
	38 bar
Flow Range:	2 @ 5 gpm or 1 @ 10 gpm
	2-20 lpm or 1-38 lpm
Travel Speed	1.55 mph - 2.8 mph
	2.5 km/h - 4.5 km/h
Hydraulic Reservoir Capacity	3 gallons
	11 liters
Fuel Tank Capacity	7 gallons
	26.5 liters
Weight (Wet)	1200 lbs
	544 kg
Length	78 inches
	198 cm
Width	36 inches
	92 cm
Height	43 inches
	109 cm
Engines	Honda 20 hp OHV
Connector	Flush-Face Couplers

Construction Tools

FEATURES:

- Self-Propelled - Mobile hydraulic tool and equipment carrier that transports tools and equipment in most job-site environments.
- Simple Operating Controls - Allows for a wide range of applications.
- Two Speed Forward Track Drive - Single Low Reverse Speed.
- Work Lights.
- Opening Tailgate.
- Auxiliary Hydraulic Tool Circuit - Is designed for continuous-duty applications and features the standard high-effi ciency cooling found on all Stanley hydraulic power units.
- Climbs 60% grade.
- Carries 1,000 lbs / 454 kg.

NEED TO RUN TWO 5GPM TOOLS AT ONCE? ANSWER - GTR20 - THE POWER OF HYDRAULICS

Mechanical Section

(Pages 607-624)

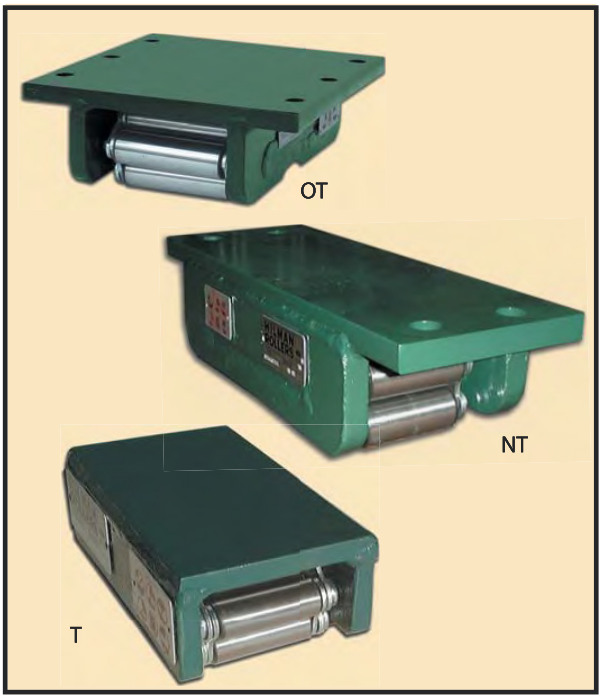
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Heavy Duty Rollers
OT-T-NT Series

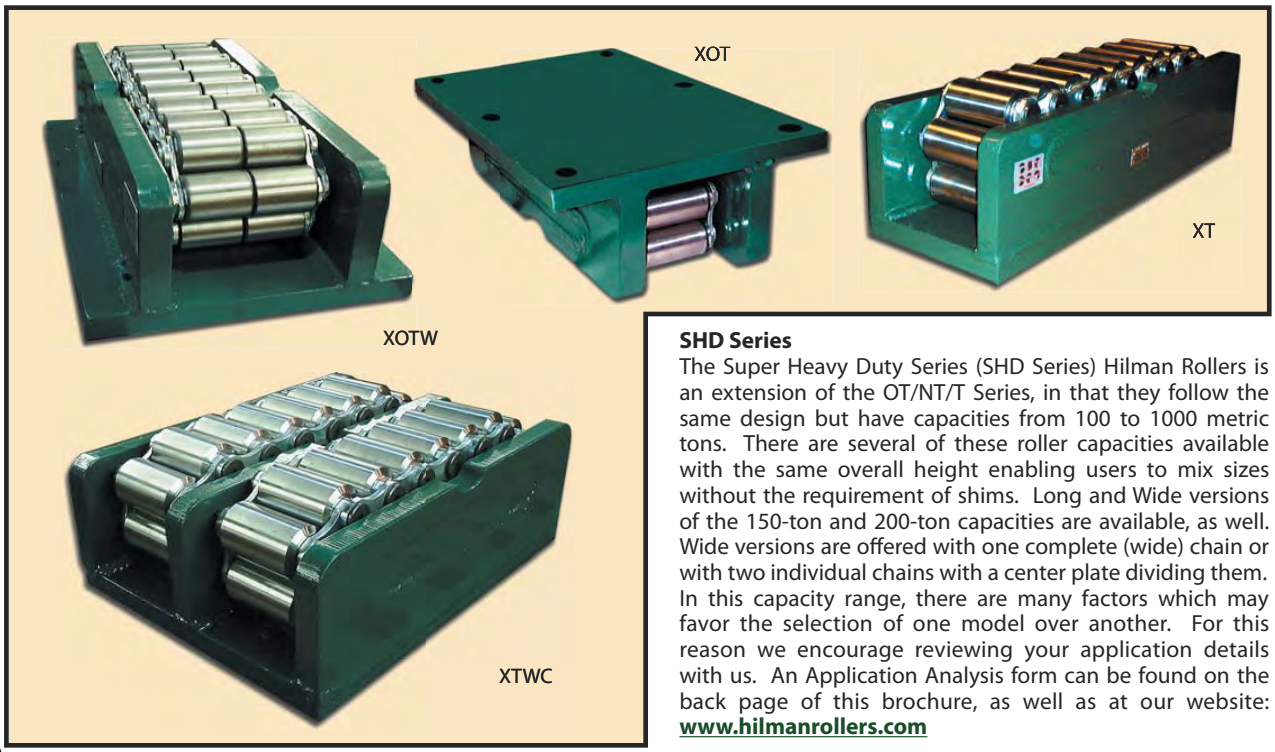
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OT • T • NT Series Features
Hilman OT/NT/T Series Rollers offer a variety of top configurations. Selection is usually dependent upon the application. OT and NT style Rollers are bolt-on styles offered with standard hole patterns in oversized top plates. The hole patterns can be altered as needed or eliminated. T style Rollers have tops that are flush on all sides, ideal for weld or cavity mounting. Roller frames are fabricated from high strength steel. Load plates of 37.5-ton and higher capacities undergo a special machine process to minimize side-to-side movement of chain.

Advantages
These rollers can withstand high static loading over long periods of time, often carrying the full load weight for more than a year with no adverse effects. Because loads are spread over a wide area and carried by the load plate and the contact rolls, rollers are ideal for many applications requiring the frequent movement of heavy loads. Rollers can also be used inverted, as static conveyors.



SHD Series

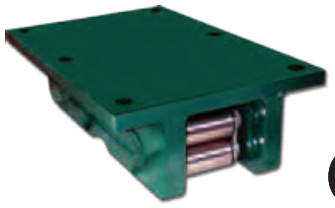


SHD Series
The Super Heavy Duty Series (SHD Series) Hilman Rollers is an extension of the OT/NT/T Series, in that they follow the same design but have capacities from 100 to 1000 metric tons. There are several of these roller capacities available with the same overall height enabling users to mix sizes without the requirement of shims. Long and Wide versions of the 150-ton and 200-ton capacities are available, as well. Wide versions are offered with one complete (wide) chain or with two individual chains with a center plate dividing them. In this capacity range, there are many factors which may favor the selection of one model over another. For this reason we encourage reviewing your application details with us. An Application Analysis form can be found on the back page of this brochure, as well as at our website: **www.hilmanrollers.com**

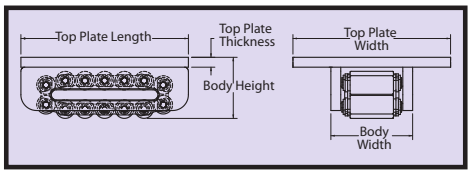
Heavy Duty Rollers
OT-T-NT Series

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Dimensions



OT

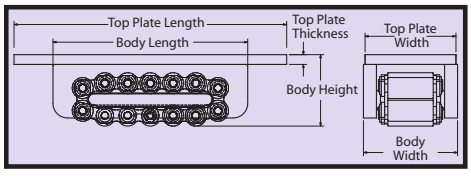


	Capacity Metric Tons	<<<<<Body Dimensions>>>>> Length	Height*	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<Footprint>>>> Contact Rolls	Roll Dia.	Roll Width	Weight lbs.(kgs)
		<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>				<<<Inches (mm)>>>		
.75-OT	.75-ton	6.5 (165)	3.125 (79)	3.625 (92)	.375 (10)	7.0 (178)	6.5 (165)	5	.8125 (17)	2 (51)	13 (6)
1-OT	1-ton	6.0 (152)	2.375 (60)	3.5625 (91)	.375 (10)	6.0 (152)	6.0 (152)	5	.8125 (17)	2 (51)	11 (5)
2.5-OT	2.5-tons	6.5 (165)	3.625 (92)	4.125 (105)	.375 (10)	7.0 (178)	6.5 (165)	4	.9375 (24)	2.4375 (62)	19 (9)
5-OT	5-tons	8.0 (203)	3.125 (79)	4.5625 (116)	.375 (10)	8.0 (203)	8.0 (203)	5	.9375 (24)	2.3125 (62)	22 (10)
8-OT	8-tons	8.0 (203)	3.125 (79)	5.3125 (135)	.375 (10)	8.0 (203)	8.0 (203)	5	.9375 (24)	3.3125 (84)	24 (11)
15-OT	15-tons	10.625 (270)	3.875 (98)	5.3125 (135)	.625 (16)	10.0 (254)	10.625 (270)	5	1.1875 (30)	2.75 (70)	47 (21)
20-OT	20-tons	10.625 (270)	3.875 (98)	6.5625 (167)	.625 (16)	10.0 (254)	10.625 (270)	5	1.1875 (30)	4 (102)	54 (24)
37.5-OT	37.5-tons	15.0 (381)	5.5 (140)	7.25 (184)	.75 (19)	12.0 (305)	15.0 (381)	5	1.625 (41)	3.5 (89)	119 (54)
50-OT	50-tons	18.5 (470)	5.5 (140)	7.25 (184)	.75 (19)	12.0 (305)	18.5 (470)	7	1.625 (41)	3.5 (89)	153 (69)
75-OT	75-tons	21.0 (533)	6.75 (171)	7.375 (187)	1.00 (25)	14.0 (356)	21.0 (533)	7	1.9375 (49)	3.625 (92)	235 (107)

** Height includes Top Plate Thickness*



NT

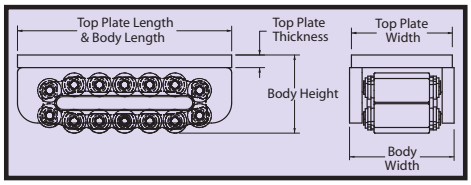


	Capacity Metric Tons	<<<<<Body Dimensions>>>>> Length	Height*	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<Footprint>>>> Contact Rolls	Roll Dia.	Roll Width	Weight lbs.(kgs)
		<<<<<<<Inches (mm)>>>>>>>			<<<<<Inches (mm)>>>>>				<<<Inches (mm)>>>		
.75-NT	.75-ton	6.5 (165)	3.125 (79)	3.625 (92)	.375 (10)	3.5 (89)	8.0 (203)	5	.8125 (17)	2.0 (51)	11 (5)
1-NT	1-ton	6.0 (152)	2.375 (60)	3.5625 (91)	.375 (10)	3.5 (89)	8.0 (203)	5	.8125 (17)	2.0 (51)	10 (5)
2.5-NT	2.5-tons	6.5 (165)	3.625 (92)	4.125 (105)	.375 (10)	4.0 (102)	9.5 (241)	4	.9375 (24)	2.4375 (62)	19 (9)
5-NT	5-tons	8.0 (203)	3.125 (79)	4.5625 (116)	.375 (10)	4.5 (114)	11.75 (298)	5	.9375 (24)	2.4375 (62)	20 (9)
8-NT	8-tons	8.0 (203)	3.125 (79)	5.3125 (135)	.375 (10)	5.0 (127)	11.75 (298)	5	.9375 (24)	3.3125 (84)	24 (11)
15-NT	15-tons	10.625 (270)	3.875 (98)	5.3125 (135)	.625 (16)	5.0 (127)	14.75 (375)	5	1.1875 (30)	2.75 (70)	41 (19)
20-NT	20-tons	10.625 (270)	3.875 (98)	6.5625 (167)	.625 (16)	6.5 (165)	14.75 (375)	5	1.1875 (30)	4.0 (102)	52 (24)
37.5-NT	37.5-tons	15.0 (381)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	21.0 (533)	5	1.625 (41)	3.5 (89)	112 (51)
50-NT	50-tons	18.5 (470)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	22.5 (572)	7	1.625 (41)	3.5 (89)	140 (64)
75-NT	75-tons	21.0 (533)	6.75 (171)	7.375 (187)	1.00 (25)	7.5 (191)	27.0 (686)	7	1.9375 (49)	3.625 (92)	210 (95)

** Height includes Top Plate Thickness*



T

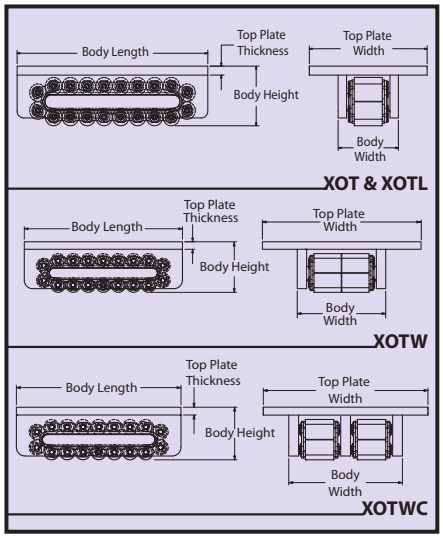


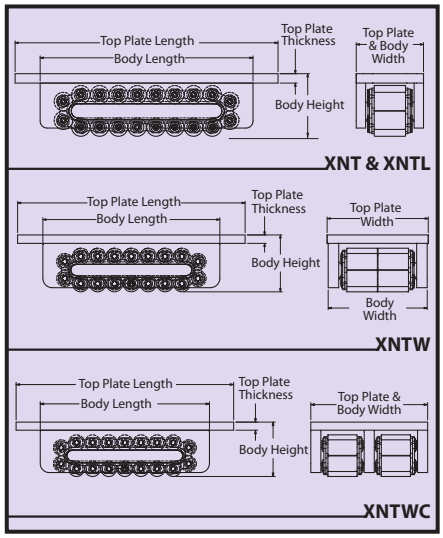
	Capacity Metric Tons	<<<<<Body Dimensions>>>>> Length	Height*	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<Footprint>>>> Contact Rolls	Roll Dia.	Roll Width	Weight lbs.(kgs)
		<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>				<<<Inches (mm)>>>		
.75-T	.75-ton	6.5 (165)	3.125 (79)	3.625 (92)	.375 (10)	3.5 (89)	6.5 (165)	5	.8125 (17)	2.0 (51)	11 (5)
1-T	1-ton	6.0 (152)	2.375 (60)	3.5625 (91)	.375 (10)	3.5 (89)	6.0 (152)	5	.8125 (17)	2.0 (51)	9 (4)
2.5-T	2.5-tons	6.5 (165)	3.625 (92)	4.125 (105)	.375 (10)	4.0 (102)	6.5 (165)	4	.9375 (24)	2.4375 (62)	17 (8)
5-T	5-tons	8.0 (203)	3.125 (79)	4.5625 (116)	.375 (10)	4.5 (114)	8.0 (203)	5	.9375 (24)	2.4375 (62)	19 (9)
8-T	8-tons	8.0 (203)	3.125 (79)	5.3125 (135)	.375 (10)	5.0 (127)	8.0 (203)	5	.9375 (24)	3.3125 (84)	22 (10)
15-T	15-tons	10.625 (270)	3.875 (98)	5.3125 (135)	.625 (16)	5.0 (127)	10.625 (270)	5	1.1875 (30)	2.75 (70)	38 (17)
20-T	20-tons	10.625 (270)	3.875 (98)	6.5625 (167)	.625 (16)	6.5 (165)	10.625 (270)	5	1.1875 (30)	4.0 (102)	47 (21)
37.5-T	37.5-tons	15.0 (381)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	15.0 (381)	5	1.625 (41)	3.5 (89)	103 (47)
50-T	50-tons	18.5 (470)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	18.5 (470)	7	1.625 (41)	3.5 (89)	134 (61)
75-T	75-tons	21.0 (533)	6.75 (171)	7.375 (187)	1.00 (25)	7.5 (191)	21.0 (533)	7	1.9375 (49)	3.625 (92)	198 (90)

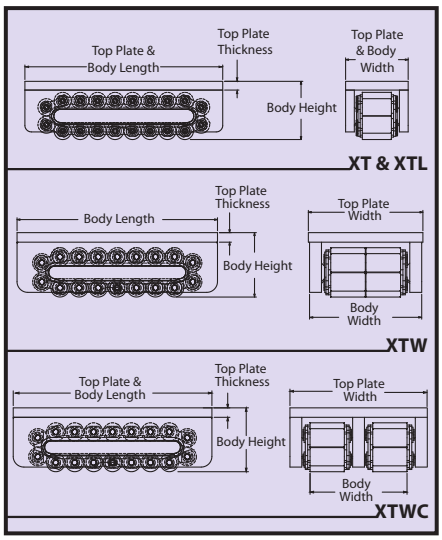
** Height includes Top Plate Thickness*

Heavy Duty Rollers
SHD Series

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Dimensions

XOT
XOT • XOTL • XOTW • XOTWC

	Capacity	<<<<<Body Dimensions>>>>> Length	Height *	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<<Footprint>>>>> Contact	Roll Dia.	Roll Width	Weight
	Metric Tons	<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>			Rolls	<<Inches (mm)>>		lbs.(kgs)
100-XOT	100-tons	21.0 (533)	6.75 (171)	7.875 (200)	1.00 (25)	14.0 (356)	21.0 (533)	7	1.9375 (49)	3.625 (92)	250 (113)
150-XOTL	150-tons	32.0 (813)	6.75 (171)	7.875 (200)	1.00 (25)	14.0 (356)	32.0 (813)	11	1.9375 (49)	3.625 (92)	381 (172)
150-XOTW	150-tons	21.0 (533)	6.75 (171)	9.875 (251)	1.00 (25)	16.0 (406)	21.0 (533)	14	1.9375 (49)	2.75 (70)	299 (136)
200-XOTL	200-tons	36.0 (914)	6.75 (171)	7.875 (200)	1.00 (25)	14.0 (356)	36.0 (914)	14	1.9375 (49)	3.625 (92)	443 (201)
200-XOTW	200-tons	21.0 (533)	6.75 (171)	11.75 (298)	1.00 (25)	21.0 (533)	21.0 (533)	14	1.9375 (49)	3.625 (92)	364 (165)
200-XOTWC	200-tons	21.0 (533)	6.75 (171)	14.5 (368)	1.00 (25)	21.0 (533)	21.0 (533)	14	1.9375 (49)	3.625 (92)	423 (192)
300-XOT	300-tons	34.0 (864)	10.0 (254)	10.75 (273)	1.50 (38)	21.0 (533)	34.0 (864)	8	2.9375 (74)	5.0 (127)	849 (385)
500-XOT	500-tons	34.0 (864)	10.0 (254)	20.0 (508)	1.50 (38)	30.0 (762)	34.0 (864)	16	2.9375 (74)	5.0 (127)	1430 (649)
750-XOT	750-tons	********** CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT **********									
1000-XOT	1000-tons	********** CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT **********									

** Height includes Top Plate Thickness*

XNT
XNT • XNTL • XNTW • XNTWC

	Capacity	<<<<<Body Dimensions>>>>> Length	Height *	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<<Footprint>>>>> Contact	Roll Dia.	Roll Width	Weight
	Metric Tons	<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>			Rolls	<<Inches (mm)>>		lbs.(kgs)
100-XNT	100-tons	21.0 (533)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	27.0 (686)	7	1.9375 (49)	3.625 (92)	228 (103)
150-XNTL	150-tons	32.0 (813)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	38.0 (965)	11	1.9375 (49)	3.625 (92)	341 (155)
150-XNTW	150-tons	21.0 (533)	6.75 (171)	9.875 (251)	1.00 (25)	9.875 (251)	27.0 (686)	14	1.9375 (49)	2.75 (70)	280 (127)
200-XNTL	200-tons	36.0 (914)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	42.0 (1067)	14	1.9375 (49)	3.625 (92)	396 (180)
200-XNTW	200-tons	21.0 (533)	6.75 (171)	11.75 (298)	1.00 (25)	12.0 (305)	27.0 (686)	14	1.9375 (49)	3.625 (92)	333 (151)
200-XNTWC	200-tons	21.0 (533)	6.75 (171)	14.5 (368)	1.00 (25)	14.5 (368)	27.0 (686)	14	1.9375 (49)	3.625 (92)	408 (185)
300-XNT	300-tons	34.0 (864)	10.0 (254)	10.75 (273)	1.50 (38)	10.75 (273)	42.0 (1067)	8	2.9375 (74)	5 (127)	739 (335)
500-XNT	500-tons	34.0 (864)	10.0 (254)	20.0 (508)	1.50 (38)	20.0 (508)	42.0 (1067)	16	2.9375 (74)	5 (127)	1355 (615)
750-XNT	750-tons	********** CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT **********									
1000-XNT	1000-tons	********** CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT **********									

** Height includes Top Plate Thickness*

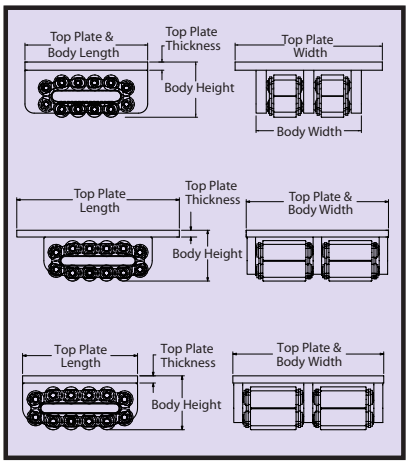
XT
XT • XTL • XTW • XTWC

	Capacity	<<<<<Body Dimensions>>>>> Length	Height *	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<<Footprint>>>>> Contact	Roll Dia.	Roll Width	Weight
	Metric Tons	<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>			Rolls	<<Inches (mm)>>		lbs.(kgs)
100-XT	100-tons	21.0 (533)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	21.0 (533)	7	1.9375 (49)	3.625 (92)	217 (98)
150-XTL	150-tons	32.0 (813)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	32.0 (813)	11	1.9375 (49)	3.625 (92)	329 (149)
150-XTW	150-tons	21.0 (533)	6.75 (171)	9.875 (251)	1.00 (25)	9.875 (251)	21.0 (533)	14	1.9375 (49)	2.75 (70)	265 (120)
200-XTL	200-tons	36.0 (914)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	36.0 (914)	14	1.9375 (49)	3.625 (92)	384 (174)
200-XTW	200-tons	21.0 (533)	6.75 (171)	11.75 (298)	1.00 (25)	12.0 (305)	21.0 (533)	14	1.9375 (49)	3.625 (92)	313 (142)
200-XTWC	200-tons	21.0 (533)	6.75 (171)	14.5 (368)	1.00 (25)	14.5 (368)	21.0 (533)	14	1.9375 (49)	3.625 (92)	387 (175)
300-XT	300-tons	34.0 (864)	10.0 (254)	10.75 (273)	1.50 (38)	10.75 (273)	34.0 (864)	8	2.9375 (74)	5 (127)	706 (320)
500-XT	500-tons	34.0 (864)	10.0 (254)	20.0 (508)	1.50 (38)	20.0 (508)	34.0 (864)	16	2.9375 (74)	5 (127)	1290 (585)
750-XT	750-tons	********** CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT **********									
1000-XT	1000-tons	********** CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT **********									

** Height includes Top Plate Thickness*

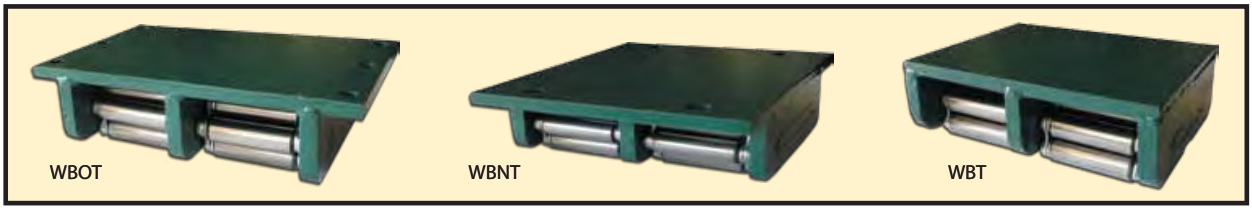
Heavy Duty Rollers
WB-ERF Series

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	Capacity Metric Tons	<<<<<Body Dimensions>>>>> Length	Height*	Width	<<<<Top Plate Dimensions>>>> Thickness	Width	Length	<<<<<<Footprint>>>>>> Contact Rolls	Roll Dia.	Roll Width	Weight lbs.(kgs)
		<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>				<<<Inches (mm)>>>		
WBOT											
10-WBOT	10-tons	8.00 (203)	3.50 (89)	10.50 (267)	0.50 (13)	13.00 (330)	8.00 (203)	8	0.9375 (24)	3.3125 (84)	48 (22)
20-WBOT	20-tons	8.00 (203)	3.75 (95)	10.625 (270)	0.50 (13)	13.00 (330)	8.00 (203)	6	1.1875 (30)	3.1875 (81)	54 (25)
30-WBOT	30-tons	8.00 (203)	3.75 (95)	10.625 (270)	0.50 (13)	13.00 (330)	8.00 (203)	8	1.1875 (30)	3.1875 (81)	60 (27)
60-WBOT	60-tons	10.00 (254)	5.81 (148)	13.50 (343)	1.00 (25)	18.00 (457)	10.00 (254)	6	1.625 (41)	3.50 (89)	151 (69)
90-WBOT	90-tons	15.00 (381)	6.75 (171)	12.875 (327)	1.00 (25)	18.00 (457)	15.00 (381)	8	1.9375 (49)	2.75 (70)	250 (114)
125-WBOT	125-tons	15.00 (381)	6.75 (171)	12.875 (327)	1.00 (25)	18.00 (457)	15.00 (381)	10	1.9375 (49)	2.75 (70)	269 (122)
WBNT											
10-WBNT	10-tons	8.00 (203)	3.50 (89)	10.50 (267)	0.50 (13)	10.50 (267)	12.00 (305)	8	0.9375 (24)	3.3125 (84)	52 (24)
20-WBNT	20-tons	8.00 (203)	3.75 (95)	10.625 (270)	0.50 (13)	10.75 (273)	12.00 (305)	6	1.1875 (30)	3.1875 (81)	58 (26)
30-WBNT	30-tons	8.00 (203)	3.75 (95)	10.625 (270)	0.50 (13)	10.50 (267)	12.00 (305)	8	1.1875 (30)	3.1875 (81)	63 (29)
60-WBNT	60-tons	10.00 (254)	5.81 (148)	13.50 (343)	1.00 (25)	13.00 (330)	14.00(356)	6	1.625 (41)	3.50 (89)	152 (69)
90-WBNT	90-tons	15.00 (381)	6.75 (171)	12.875 (327)	1.00 (25)	13.00 (330)	19.00(483)	8	1.9375 (49)	2.75 (70)	245 (111)
125-WBNT	125-tons	15.00 (381)	6.75 (171)	12.875 (327)	1.00 (25)	13.00 (330)	19.00(483)	10	1-15/16 (49)	2.75 (70)	264 (120)
WBT											
10-WBT	10-tons	8.00 (203)	3.50 (89)	10.50 (267)	0.50 (13)	10.50 (267)	8.00 (203)	8	0.9375 (24)	3-5/16 (84)	46 (21)
20-WBT	20-tons	8.00 (203)	3.75 (95)	10.625 (270)	0.50 (13)	10.50 (267)	8.00 (203)	6	1.1875 (30)	3.1875 (81)	51 (23)
30-WBT	30-tons	8.00 (203)	3.75 (95)	10.625 (270)	0.50 (13)	10.50 (267)	8.00 (203)	8	1.1875 (30)	3.1875 (81)	58 (26)
60-WBT	60-tons	10.00 (254)	5.81 (148)	13.50 (343)	1.00 (25)	13.00 (330)	10.00 (254)	6	1.625 (41)	3.50 (89)	138 (62)
90-WBT	90-tons	15.00 (381)	6.75 (171)	12.875 (327)	1.00 (25)	13.00 (330)	15.00 (381)	8	1.9375 (49)	2.75 (70)	231 (105)
125-WBT	125-tons	15.00 (381)	6.75 (171)	12.875 (327)	1.00 (25)	13.00 (330)	15.00 (381)	10	1.9375 (49)	2.75 (70)	250 (114)

** Height includes Top Plate Thickness*



Wide Body OT/NT/T Series (WBOT)
WBOT/WBNT/WBT Series Hilman Rollers are generally used where a traditional OT/NT/T Series roller might be too long, or if a larger contact area is desired. Wide Body Series Hilman Rollers utilize two chains independently to increase the footprint of the roller. Increasing the footprint means the load is spread over a greater area, thus minimizing 'point' loading.

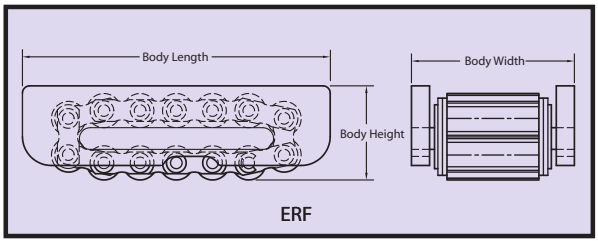
ERF Series

ERF Series Features
The ERF Series of Hilman Rollers are essentially the same as the OT/NT/T Series rollers but without the top plates. The lack of a top plate means the roller is lower in overall height and lighter in weight. These are ideal if a user intends to weld-mount the rollers. The tops of the side plates can be machined to close tolerance.



ERF Advantages
ERF Rollers, an ideal series for use in a Roller System, are often used where a trunnion mount is required, where an existing "foot pad" will become the roller's top plate, or where the load has a built-in cavity mount. Used upside down, the ERF Rollers become a heavy duty conveyor allowing the load to slide with extremely low friction.

	Capacity Metric Tons	<<<<<Body Dimensions>>>>> Length	Height	Width	<<<<<Footprint>>>>> Contact Rolls	Roll Dia.	Roll Width	Weight lbs.(kgs)
		<<<<<<Inches (mm)>>>>>>				<<<Inches (mm)>>>		
1-ERF	1-Ton	6.00 (152)	2.00 (51)	3.58 (91)	5	0.6875 (17)	2.00 (51)	7 (3)
4-ERF	4-Tons	8.00 (203)	2.75 (70)	4.44 (113)	5	0.9375 (24)	2.4375 (62)	14 (6)
12-ERF	12-Tons	10.625 (270)	3.25 (83)	5.625 (143)	5	1.1875 (30)	3.1875 (81)	32 (15)
30-ERF	30-Tons	15.00 (381)	4.75 (121)	7.25 (184)	5	1.625 (41)	3.50 (89)	82 (37)
65-ERF	65-Tons	21.00 (533)	5.75 (146)	7.375 (187)	7	1.9375 (49)	3.625 (92)	165 (75)
100-ERF	100-Tons	21.00 (533)	5.75 (146)	7.875 (200)	7	1.9375 (49)	3.625 (92)	180 (82)
125-ERF	125-Tons	21.00 (533)	5.75 (146)	9.875 (251)	14	1.9375 (49)	2.75 (70)	229 (104)



Heavy Duty Rollers
OTB-NTB-TB-SHDB Series

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OTB/NTB/TB Series
With a few exceptions, this series is nearly identical to the standard OT/NT/T Series Rollers. The major advantage of this series is that users can purchase a standard OTB/NTB/TB Series roller for which a separate, bolt-on style Accu-Roll Guidance System may be added at some point in the future. Note that these models do not come standard with any guidance system. These models can be particularly handy for users who frequently need to change the type of track that the rollers will ride upon. The NTB models have longer top plates than their NT counterparts to prevent interference when mounting the load to the top plate. The SHDB Series is an extension of the OTB/NTB/TB Series.

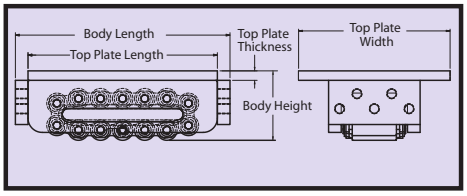

TB

	Capacity	<<<<<Body Dimensions>>>>> Length	Height*	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<<Footprint>>>>> Contact	Roll Dia.	Roll Width	Weight
	Metric Tons	<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>			Rolls	<<<Inches (mm)>>>		lbs.(kgs)
5-OTB	5-tons	9.0 (229)	3.125 (79)	4.5625 (116)	.375 (10)	8.0 (203)	8.0 (203)	5	0.9375 (24)	2.4375 (62)	24 (11)
8-OTB	8-tons	9.0 (229)	3.125 (79)	5.3125 (135)	.375 (10)	8.0 (203)	8.0 (203)	5	0.9375 (24)	3.3125 (84)	27 (12)
15-OTB	15-tons	12.125 (308)	3.875 (98)	5.3125 (135)	.625 (16)	10.0 (254)	10.625 (270)	5	1.1875 (30)	2.75 (70)	52 (24)
20-OTB	20-tons	12.125 (308)	3.875 (98)	6.5625 (167)	.625 (16)	10.0 (254)	10.625 (270)	5	1.1875 (30)	4.0 (102)	60 (27)
37.5-OTB	37.5-tons	17.0 (432)	5.5 (140)	7.25 (184)	.75 (19)	12.0 (305)	15.0 (381)	5	1.625 (41)	3.5 (89)	132 (60)
50-OTB	50-tons	20.5 (521)	5.5 (140)	7.25 (184)	.75 (19)	12.0 (305)	18.5 (470)	7	1.625 (41)	3.5 (89)	166 (75)
75-OTB	75-tons	23.0 (584)	6.75 (171)	7.375 (187)	1.00 (25)	14.0 (356)	21.0 (533)	7	1.9375 (49)	3.625 (92)	250 (113)
5-NTB	5-tons	9.0 (229)	3.125 (79)	4.5625 (116)	.375 (10)	4.5 (114)	14.25 (362)	5	0.9375 (24)	2.4375 (62)	24 (11)
8-NTB	8-tons	9.0 (229)	3.125 (79)	5.3125 (135)	.375 (10)	5.0 (127)	14.25 (362)	5	0.9375 (24)	3.3125 (84)	28 (13)
15-NTB	15-tons	12.125 (308)	3.875 (98)	5.3125 (135)	.625 (16)	5.0 (127)	17.25 (438)	5	1.1875 (30)	2.75 (70)	49 (22)
20-NTB	20-tons	12.125 (308)	3.875 (98)	6.5625 (167)	.625 (16)	6.5 (165)	17.25 (438)	5	1.1875 (30)	4.0(102)	62 (28)
37.5-NTB	37.5-tons	17.0 (432)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	24.5 (622)	5	1.625 (41)	3.5 (89)	131 (59)
50-NTB	50-tons	20.5 (521)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	28.0 (711)	7	1.625 (41)	3.5 (89)	161 (73)
75-NTB	75-tons	23.0 (584)	6.75 (171)	7.375 (187)	1.00 (25)	7.5 (191)	31.5 (800)	7	1.9375 (49)	3.625 (92)	235 (107)
5-TB	5-tons	9.0 (229)	3.125 (79)	4.5625 (116)	.375 (10)	4.5 (114)	8.0 (203)	5	0.9375 (24)	2.4375 (62)	21 (10)
8-TB	8-tons	9.0 (229)	3.125 (79)	5.3125 (135)	.375 (10)	5.0 (127)	8.0 (203)	5	0.9375 (24)	3.3125 (84)	25 (11)
15-TB	15-tons	12.125 (308)	3.875 (98)	5.3125 (135)	.625 (16)	5.0 (127)	10.625 (270)	5	1.1875 (30)	2.75 (70)	43 (20)
20-TB	20-tons	12.125 (308)	3.875 (98)	6.5625 (167)	.625 (16)	6.5 (165)	10.625 (270)	5	1.1875 (30)	4.0 (102)	54 (24)
37.5-TB	37.5-tons	17.0 (432)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	15.0 (381)	5	1.625 (41)	3.5 (89)	117 (53)
50-TB	50-tons	20.5 (521)	5.5 (140)	7.25 (184)	.75 (19)	7.0 (178)	18.5 (470)	7	1.625 (41)	3.5 (89)	147 (67)
75-TB	75-tons	23.0 (584)	6.75 (171)	7.375 (187)	1.00 (25)	7.5 (191)	21.0 (533)	7	1.9375 (49)	3.625 (92)	213 (97)

** Height includes Top Plate Thickness*

XOTB • XOTLB• XOTWB • XOTWCB

OTB

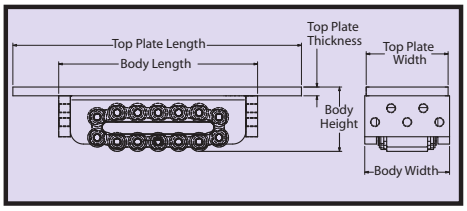


	Capacity	<<<<<Body Dimensions>>>>> Length	Height*	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<<Footprint>>>>> Contact	Roll Dia.	Roll Width	Weight
	Metric Tons	<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>			Rolls	<<<Inches (mm)>>>>		lbs.(kgs)
100-XOTB	100-tons	23.0 (584)	6.75 (171)	7.875 (200)	1.00 (25)	14.0 (356)	21.0 (533)	7	1.9375 (49)	3.625 (92)	267 (121)
150-XOTLB	150-tons	34.0 (863)	6.75 (171)	7.875 (200)	1.00 (25)	14.0 (356)	32.0 (813)	11	1.9375 (49)	3.625 (92)	397 (180)
150-XOTWB	150-tons	23.0 (584)	6.75 (171)	9.875 (251)	1.00 (25)	16.0 (406)	21.0 (533)	14	1.9375 (49)	2.75 (70)	320 (145)
200-XOTLB	200-tons	38.0 (964)	6.75 (171)	7.875 (200)	1.00 (25)	14.0 (356)	36.0 (914)	14	1.9375 (49)	3.625 (92)	458 (208)
200-XOTWB	200-tons	23.0 (584)	6.75 (171)	11.75 (298)	1.00 (25)	21.0 (533)	21.0 (533)	14	1.9375 (49)	3.625 (92)	389 (176)
200-XOTWCB	200-tons	23.0 (584)	6.75 (171)	14.5 (368)	1.00 (25)	21.0 (533)	21.0 (533)	14	1.9375 (49)	3.625 (92)	454 (206)
300-XOTB	300-tons	37.0 (940)	10.0 (254)	10.75 (273)	1.50 (38)	21.0 (533)	34.0 (864)	8	2.9375 (74)	5.0 (127)	891 (404)
500-XOTB	500-tons	37.0 (940)	10.0 (254)	20.0 (508)	1.50 (38)	30.0 (762)	34.0 (864)	16	2.9375 (74)	5.0 (127)	1508 (684)
750-XOTB	750-tons	**********	CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT					**********			
1000-XOTB	1000-tons	**********	CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT					**********			

** Height includes Top Plate Thickness*

XNTB • XNTLB • XNTWB • XNTWCB

NTB

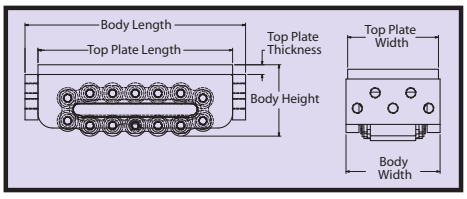


	Capacity	<<<<<Body Dimensions>>>>> Length	Height*	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<<Footprint>>>>> Contact	Roll Dia.	Roll Width	Weight
	Metric Tons	<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>			Rolls	<<<Inches (mm)>>>>		lbs.(kgs)
100-XNTB	100-tons	23.0 (584)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	31.5 (800)	7	1.9375 (49)	3.625 (92)	256 (116)
150-XNTLB	150-tons	34.0 (863)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	42.5 (1080)	11	1.9375 (49)	3.625 (92)	367 (166)
150-XNTWB	150-tons	23.0 (584)	6.75 (171)	9.875 (251)	1.00 (25)	9.875 (251)	32.0 (813)	14	1.9375 (49)	2.75 (70)	316 (143)
200-XNTLB	200-tons	38.0 (964)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	48.0 (1219)	14	1.9375 (49)	3.625 (92)	426 (193)
200-XNTWB	200-tons	23.0 (584)	6.75 (171)	11.75 (298)	1.00 (25)	12.0 (305)	32.0 (813)	14	1.9375 (49)	3.625 (92)	374 (170)
200-XNTWCB	200-tons	23.0 (584)	6.75 (171)	14.5 (368)	1.00 (25)	14.5 (368)	32.75 (832)	14	1.9375 (49)	3.625 (92)	464 (210)
300-XNTB	300-tons	37.0 (940)	10.0 (254)	10.75 (273)	1.50 (38)	10.75 (273)	46.0 (1168)	8	2.9375 (74)	5.0 (127)	800 (363)
500-XNTB	500-tons	37.0 (940)	10.0 (254)	20.0 (508)	1.50 (38)	20.0 (508)	46.0 (1168)	16	2.9375 (74)	5.0 (127)	1470 (667)
750-XNTB	750-tons	**********	CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT					**********			
1000-XNTB	1000-tons	**********	CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT					**********			

** Height includes Top Plate Thickness*

TB • XTB • XTLB • XTWB • XTWCB

TB



	Capacity	<<<<<Body Dimensions>>>>> Length	Height*	Width	<<<Top Plate Dimensions>>> Thickness	Width	Length	<<<<<Footprint>>>>> Contact	Roll Dia.	Roll Width	Weight
	Metric Tons	<<<<<<Inches (mm)>>>>>>			<<<<<Inches (mm)>>>>>			Rolls	<<<Inches (mm)>>>>		lbs.(kgs)
100-XTB	100-tons	23.0 (584)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	21.0 (533)	7	1.9375 (49)	3.625 (92)	233 (106)
150-XTLB	150-tons	34.0 (863)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	32.0 (813)	11	1.9375 (49)	3.625 (92)	344 (156)
150-XTWB	150-tons	23.0 (584)	6.75 (171)	9.875 (251)	1.00 (25)	9.875 (251)	21.0 (533)	14	1.9375 (49)	2-3/4 (70)	286 (130)
200-XTLB	200-tons	38.0 (964)	6.75 (171)	7.875 (200)	1.00 (25)	8.0 (203)	36.0 (914)	14	1.9375 (49)	3.625 (92)	400 (181)
200-XTWB	200-tons	23.0 (584)	6.75 (171)	11.75 (298)	1.00 (25)	12.0 (305)	21.0 (533)	14	1.9375 (49)	3.625 (92)	338 (153)
200-XTWCB	200-tons	23.0 (584)	6.75 (171)	14.5 (368)	1.00 (25)	14.5 (368)	21.0 (533)	14	1.9375 (49)	3.625 (92)	418 (190)
300-XTB	300-tons	37.0 (940)	10.0 (254)	10.75 (273)	1.50 (38)	10.75 (273)	34.0 (864)	8	2.9375 (74)	5.0 (127)	735 (333)
500-XTB	500-tons	37.0 (940)	10.0 (254)	20.0 (508)	1.50 (38)	20.0 (508)	34.0 (864)	16	2.9375 (74)	5.0 (127)	1343 (609)
750-XTB	750-tons	**********	CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT					**********			
1000-XTB	1000-tons	**********	CONSULT FACTORY FOR SPECIFICATIONS AND WEIGHT					**********			

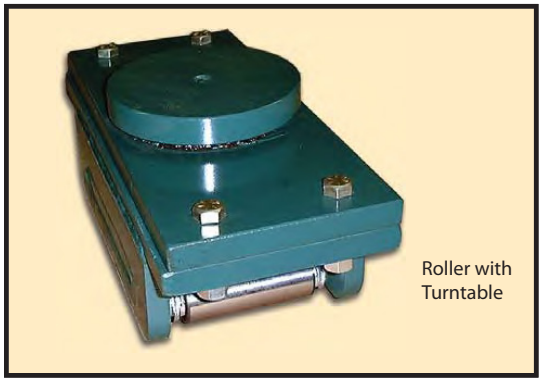
** Height includes Top Plate Thickness*

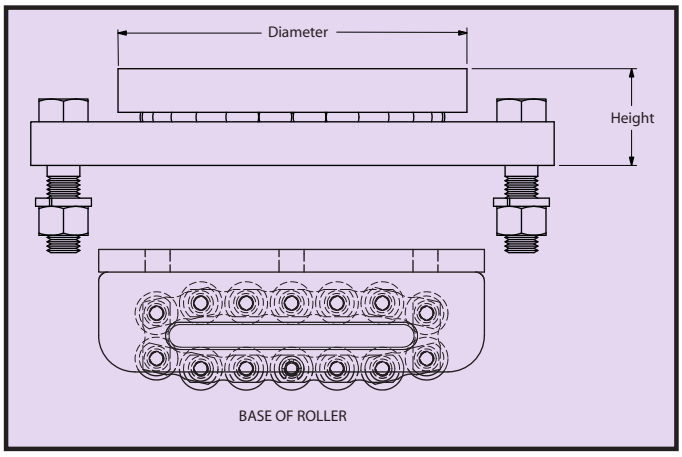
Heavy Duty Rollers
Turntables & Pads

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Turntable Features
Standard Turntable tops are available for all OT or NT style rollers with capacities from 5-tons to 75-tons. We can also design and manufacture them for rollers with greater capacities and special models, upon request. Standard Turntable tops add a maximum height of 2-3/8" to the roller. Turntables can be manufactured with chrome steel ball bearings or corrosive resistant thrust bearings. Turntable tops are bolted to the OT and NT style rollers with high strength bolts, which are included in the cost. Swivel locks and steering handles have also been supplied as options.

Turntable Advantages
Turntables are particularly advantageous in applications where the rolling surface is imperfect. In applications where the rollers with Accu-Roll are required to follow a slightly irregular or skewed track, turntables provide the ability to navigate the track without binding.


Roller with Turntable



	Fits Top Plate of Roller	Height <<<<Inches (mm)>>>>	Turntable Dia.	Weight Lbs.(kgs)
T-5-0T	5-0T	1.56 (48)	6.00 (152)	18 (8)
T-8-0T	8-0T	1.56 (48)	6.00 (152)	18 (8)
T-15-0T	15-0T	1.56 (48)	6.00 (152)	26 (12)
T-20-0T	20-0T	1.56 (48)	6.00 (152)	26 (12)
T-37.5-0T	37.5-0T	2.22 (56)	8.00 (203)	67 (30)
T-50-0T	50-0T	2.22 (56)	8.00 (203)	79 (36)
T-75-0T	75-0T	2.22 (56)	8.00 (203)	103 (47)

	Fits Top Plate of Roller	Height <<<<Inches (mm)>>>>	Turntable Dia.	Weight Lbs.(kgs)
T-5-NT	5-NT	1.56 (48)	4.50 (115)	13 (6)
T-8-NT	8-NT	1.56 (48)	4.50 (115)	14 (6)
T-15-NT	15-NT	1.56 (48)	4.50 (115)	18 (8)
T-20-NT	20-NT	1.56 (48)	6.00 (152)	24 (11)
T-37.5NT	37.5-NT	2.22 (56)	8.00 (203)	61 (28)
T-50-NT	50-NT	2.22 (56)	8.00 (203)	64 (29)
T-75-NT	75-NT	2.22 (56)	8.00 (203)	77 (35)

PRELOAD & FABRIC PADS

Many heavy moves benefit by the addition of an elastomeric connection between the Hilman Roller and the load being moved. For this purpose, Hilman offers two styles of pad: the Preload Pad (P-Pad) and the Flexmount Fabric Pad (F-Pad). Both types are valuable accessories, providing increased service life and trouble-free movement.

The Flexmount Fabric Pad is a high 90 durometer (shore A) pad which is made up of organic material with multilayered impregnated fabric. It has a maximum recommended compressive strength of 2000 psi (13.8 MPa) with an excellent spring rate. F-Pads' aid in reducing load vibration from the roller. It is advised to use this type of pad if the load is being moved repeatedly or in a marine environment. Additional data is available on the F-Pad Data Sheet.

The Preload Pad (P-Pad) is a neoprene elastomer that measures 80 durometer (shore A). P-Pads, a lower-cost alternative to the F-Pad, are designed for occasional moves. Its compressive strength is between 20-30% of its thickness. P-Pads' primary benefits are to negate slippage while equalizing load-bearing over the entire footprint of the Roller. Additional specifications are found on the P-Pad Data Sheet.


Preload Pad


3.75 OT with P-Pad

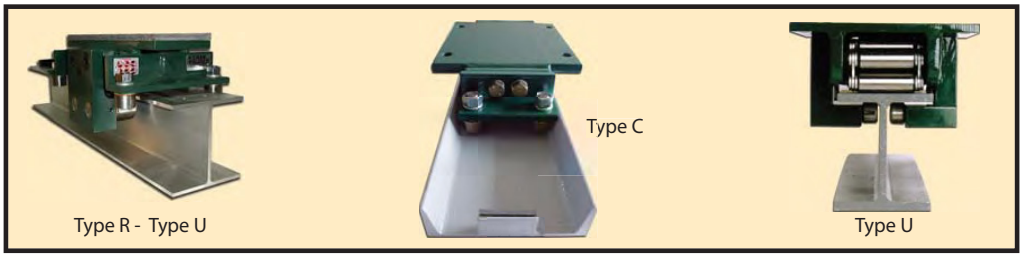
Accu-Roll Systems

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Hilman's Accu-Roll Guidance System is a positive external alignment system. Most often used on OT/NT/T and SHD Series Hilman Rollers, Accu-Roll can be added to any Hilman Roller and custom designed to interface with almost any type of track. Common tracks are I-beams, Wide-flanged beams, channels, rails, steel flat bars, tubes and trenches. Accu-Roll Systems are an ideal solution where load alignment is critical, a close tolerance must be maintained, where load movement is repetitive or where dynamic uplift prevention is desired.

Because there are virtually thousands of possibilities with regards to tracks, each Accu-Roll System is custom designed and built to fit the chosen track. Once the track size has been selected and the preferred width and depth locations for the Accu-Roll guides known; drawings are prepared for customer approval. We have included in the back of this brochure (and also at our website **www.hilmanrollers.com**) an Application Analysis form that will assist in gathering details of a project. This includes the details of the rolling surface, or track.

Accu-Roll Systems may have one to four or more guide rolls per roller to guide on the track or to insure that the rollers follow the intended path of travel. Normally designed to withstand a maximum of 20% of the vertical load in side-force; higher or lower capacities can be designed.



Track Type	Accu-Roll Type	Application Guidelines	Roller Capacity Range (Tons)	Guide Roll Dia. in (mm)	System Code With 4 Guides	System Code With 2 Guides
• I-Beam • Tube • Bar • Rail	**Type R** STRAIGHT ANGLE	• Most common system for guidance on OUTSIDE of track • Can consist of one to four Accu-Rolls, mounted to Roller • Ideal for any system, permanent or temporary • Flat bar mounted to factory floor provides low height, accessible rolling system with minimal floor surface obstacles	.75 - 8	1 (25)	4R-1	2R-1
			5 - 20	2 (51)	4R-1	2R-2
			15 - 50	2.5 (64)	4R-2.5	2R-2.5
			37.5-100	3 (76)	4R-3	2R-3
			75-200	3.5 (89)	4R-3.5	2R-3.5
			100 - up	4 (102)	4R-4	2R-4
• Fabricated Track • Channel	**Type C** STRAIGHT ANGLE	• Common System for Guidance INSIDE a track or a track imbedded in concrete floor • Can consist of one to four Accu-Rolls; two can be installed on one end or on one side, or in center of Roller frame side • Track can be standard channel, inside flanges of H-Beam, fabricated track from back-to-back angles, etc.	.75 - 8	1 (25)	4C-1	2C-1
			5 - 20	2 (51)	4C-1	2C-2
			15 - 50	2.5 (64)	4C-2.5	2C-2.5
			37.5-100	3 (76)	4C-3	2C-3
			75-200	3.5 (89)	4C-3.5	2C-3.5
			100 - up	4 (102)	4C-4	2C-4
• I-Beam • Rail	**Type RU** STRAIGHT ANGLE	• Most often added to Type R System • Can consist of one or more Accu-Rolls per side • Prevents UPLIFT in dynamic condition • Resistance against wind and buoyancy • Protection against overturning moment • Aids in moving top-heavy or eccentrically loaded equipment	.75 - 8	1 (25)	4U-1	2U-1
			5 - 20	2 (51)	4U-2	2U-2
			15 - 50	2.5 (64)	4U-2.5	2U-2.5
			37.5-100	3 (76)	4U-3	2U-3
			75-200	3.5 (89)	4U-3.5	2U-3.5
			100 - up	4 (102)	4U-4	2U-4
• I-Beam • Rail • Bar • Any Radius Track	**Type TR**	• Accu-Roll System for FIXED RADIUS TRACK • Applications: turntables, revolving or rotation machinery, equipment moving in fixed radius • Usually consists of three Accu-Rolls, two mounted on one side, with one in center of opposite side • Roller chains are also modified to fit the required radius • Rollers of the 37.5-OT size and larger can track on diameters as tight as 8 feet (2.5 meters).	Consult Factory			


Type TR

Mechanical

Formulas-Tests-Tech Data

HILMAN ROLLERS
WWW.HILMANROLLERS.COM

The following technical data will serve as a guide in selecting the proper Hilman Roller for many applications. The **Application Analysis Form** (see back cover) provides an excellent basis upon which to formulate a complete proposal. **HILMAN SALES ENGINEERING SHOULD BE CONSULTED TO CONFIRM OR AID IN THE SELECTION PROCESS.**

Capacity Formulas
The formulas below can help determine the capacity required For Hilman Rollers, depending how they are used. These formulas do not guarantee a proper selection for the Hilman rollers; they are intended as a guideline only. Contact Hilman sales or engineering for further guidance. If the capacity determined in FORMULAS A is less or greater than that of FORMULA B, the higher capacity should take precedence.

Formula A *Occasional Moves*
The large majority of roller moves are of an occasional nature on a smooth, level steel surface. To help in the selection of roller capacity for these occasional moves, use the following formula. When moving on a crowned rail, contact Hilman sales engineering. The formula assumes that entire roll of the chain is in full contact with the surface.

$$C = \frac{W}{N \times P}$$

C = capacity of roller in metric tons
W = weight of total load, converted to metric tons
N = number of rollers to be used
P = load Coefficient (see table for correct load Coefficient)

Load Coefficient	
Coefficient up to 100 tons	.75
Coefficient up to 300 tons	.70
Coefficient up to 1000 tons	.65
Coefficient over 1000 tons	.50

Formula B *Extended Service Life*
For extended use or repetitive moves, both the number of cycles and the rolling surface should be considered in the roller selection. The Cycle Life Factor is based on the number of cycles of stress produced in any roll in the chain during the total distance the Roller will move during the life of the Roller. The following formula takes into account the higher number of moves.

$$C = \frac{L}{S \times F}$$

C = capacity of roller in metric tons
L = load per roller
S = surface Coefficient
F = cycle life factor

Surface Coefficient	
Yield Strength	Coefficient
100,000 psi (690 MPa)	.85
80,000 psi (550 MPa)	.75
50,000 psi (345 MPa)	.65
36,000 psi (250 MPa)	.50

Cycle Life Factor	
No. of Cycles	Factor
10^2	.85
10^3	.70
10^4	.50
10^5	.30
10^6	.15

$$\text{no. of cycles} = \frac{\text{dist}}{\pi D \times 2}$$

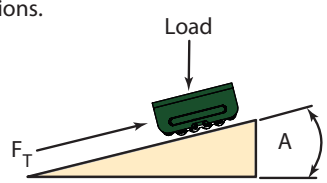
dist = total distance roller will move
D = roll diameter

Coefficient of Friction *Level surface*
The coefficient of friction for breakaway for moving a load on a smooth, hard, level surface should not exceed 5%. On a hardened steel surface, this should be a little less. Hilman has friction test results on file that show actual ratings under ideal laboratory conditions. As job site conditions vary greatly, it is best to use 5% of the vertical dead load. In a dynamic state, the load will most often be moved slowly enough that the rating will almost always approach breakaway.

Coefficient of Friction *Inclined surface*
The following formula solves for F_T, a total force rating when defection or uphill moving is encountered. This formula considers friction and gravity. Please contact our sales or engineering staff with any questions.

$$F_T = \text{LOAD} (\text{Sin}A + \mu \text{Cos}A)$$

A = Angle of the inclined surface
μ = Coefficient of breakaway friction ≤ 5%
F_T = Total force required to move up an incline



Roller on Inclined Surface

Lubrication
Hilman Rollers as a standard product have no internal bearings. Rollers most often do not require lubrication because of their occasional use at a relatively slow speed. When used outside or in a marine environment, it is best to protect them with an environmentally safe grease. GNLI Grade 2 (PTFE) is a suggested temporary lubricant. If marine use is constant, a corrosion resistant alloy should be specified.

Materials Standards
Hilman Rollers as a standard product are manufactured as an all-steel product. The frame material is available in various grades of steel materials and a variety of coatings and paint finishes are available. Chain material is available in several different grades, but furnished in Grade A as standard product.

CHAIN MATERIAL GRADES	
Grade A	Standard High Alloy Steel
Grade B	Bearing Quality Steel
Grade D	Chrome Vanadium Steel
Grade S	Stainless Steel
Grade N	Nyton TM brand *(Nylon)

Moving Speeds
Most Hilman Roller applications involve very slow speeds for moving because most heavy loads dictate very slow movement. Some applications do require faster speeds, but in short or occasional bursts. Most moving speeds do not exceed 30 feet (10 meters) per minute. With special precautions taken, speeds up to 50 feet (15 meters) per minute and beyond are possible. Please contact us with the project parameters.

Accuracy
Hilman Rollers are able to be supplied with one or more dimensions having an accuracy of .002 inch (.05 mm). In some cases the tolerances can be tightened even more. Hilman welcomes request for special tolerances.

Rail or Track Conditions
In some cases, the rail or track intended to interface with the Hilman Rollers nay need to be set to a specific tolerance. The application results can have a great bearing on how the track is set. Hilman can and will supply a track and installation for your application. Please contact our sales staff with the application details.

Mechanical Jacks
Ratchet Jacks

SIMPLEX



RJ84A, RJ85A, RJ1017 & RJ86A Shown

Capacity Range .....▶ **5 - 20 tons**
Stroke Range .....▶ **7 - 21.25 in.**
Maximum Toe Height Range .....▶ **1.62 - 2.25 in.**

- ▶ Multiple-tooth pawls for strength & safety.
- ▶ Large base ensures a firm foundation.
- ▶ Drop-forged, alloy steel, heat-treated components.
- ▶ Plated springs to resist corrosion.
- ▶ Double-lever sockets for jacking in close quarters.
- ▶ The RJA1538 pole jack is designed for pole pulling applications. Chain and I-Beam are ordered separately.



THINK SAFETY
Please refer to pages 4&5 for a complete list of safety tips and recommendations.

CE

CE COMPLIANT
Our Jack design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.



CARRYING HANDLE
Carrying handles make the positioning and transporting of the 10, 15 and 20 ton ratchet jacks simple.



RJA1022



RJ22B



RJ24A



RJ2029



RJA1538
Pole Jack



IB1538
I-Beam Base



CHA1538
Alloy Chain

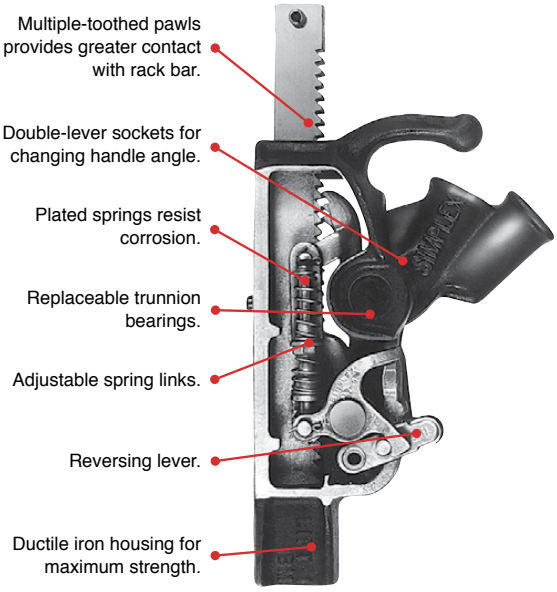
Its large lifting and holding capacity and heavy-duty housing, makes the RJ Series Jacks universal tools on any jobsite. ▼



Model	Jack Housing Material	Support Capacity (tons)	Lifting Capacity (tons)	Handle Effort per Ton (lbs)
RJ84A	**Steel**	5	5	32
RJ85A				32
RJ86A				32
RJ1017		10	10	30
RJ22B				30
RJ24A		20	15	32
RJ2029				32
RJA1022	**Aluminum**	10	10	30
RJA1538		15	8	32

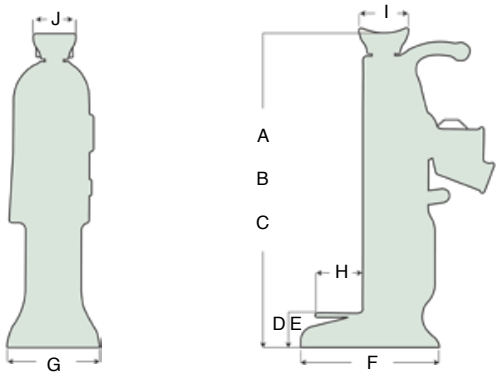
Mechanical Jacks
Ratchet Jacks

SIMPLEX



RECOMMENDED LEVER BARS.
*** Lever Bars Sold Separately**

Ratchet Jack Model	Lever Bar Model
RJ84A	SLB36
RJ85A	SLB36
RJ86A	SLB36
RJ1017	SLB60
RJ22B	SLB60
RJ24A	SLB70
RJ2029	SLB70
RJA1022	SLB60
RJA1538	SLB70



Dimensions (in)										Weight (lbs)	Model
A	B	C	D	E	F	G	H	I	J		
Minimum Height	Maximum Height	Stroke	Toe Minimum Height	Toe Maximum Height	Base Length	Base Width	Toe Length	Cap Length	Cap Width		
14	21	7	1.75	8.75	7.38	5	2.5	2.62	2.31	28	*RJ84A*
17	27	10	1.75	11.75	7.38	5	2.5	2.62	2.31	30	*RJ85A*
20	33	13	1.75	14.75	7.38	5	2.5	2.62	2.31	35	*RJ86A*
17.25	26.75	9.5	1.62	11.13	8.75	6	2.4	2.87	2.62	40	*RJ1017*
21.62	33.62	12	2	14	10.25	6.5	2.4	3	2.5	70	*RJ22B*
23.25	36	12.75	2.25	15	10.25	8	2.62	3.5	2.87	93	*RJ24A*
28	46	18	2.25	20.25	11	8	2.62	3.5	2.87	104	*RJ2029*
21.62	33.62	12	2	14	10.25	6.5	2.4	3	2.5	42	*RJA1022*
37.62	59.13	21.25	---	---	8.13	8.25	---	---	---	62	*RJA1538*

Mechanical Jacks
Reel Jacks

SIMPLEX



CR321B Shown

Capacity Range ..... ▶ **5 - 20 tons**
Stroke Range ..... ▶ **9.5 - 14 in.**
Minimum Height Range ..... ▶ **21 - 34.5 in.**

- ▶ Double-lever sockets for jacking in close quarters.
- ▶ Multiple-tooth pawls for strength & safety.
- ▶ Drop-forged, alloy steel, heat-treated components.
- ▶ Adjustable spring links for added serviceability.
- ▶ Plated springs to resist corrosion.
- ▶ Precision machining throughout.
- ▶ Steel lever bars sold separately.



CARRYING HANDLES
Convenient center mounted carrying handle makes this jack easy to position and move.



LAMINATED BASE
Treated laminated hardwood base provides solid support along with durability.

CE

CE COMPLIANT
Our Jack design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.

The large wooden bases and low handle efforts on these Reel Jacks enhance safety and reduce operator fatigue. ▼





CR320B



CRA1029R

Model	Capacity / Pair		Handle Effort per Tons (lbs)	Stroke (in)	Dimensions (in)					
					A	B	C	C [1]	C [2]	C [3]
	Side Hooks (tons)	Top Hooks (tons)			Minimum Height	Maximum Height	Minimum Height			
CR320B	5	10	72	9.5	20.75	30.25	15.25	---	---	---
CR321B	10	20	48	14	34.50	48.50	9.25	15.63	22.00	28.38
CRA1029R			40	11.63	31.13	42.75	24.87	---	---	---
CRA1029L				11.63	31.13	42.75	24.87	---	---	---

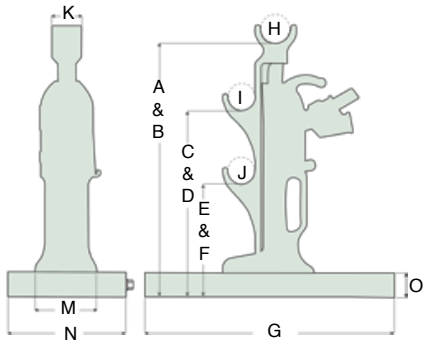
Mechanical Jacks
Reel Jacks

SIMPLEX

RECOMMENDED LEVER BARS
*** Lever Bars Sold Separately**

Reel Jack Model	Lever Bar Model
CR320B	SLB36
CR321B	SLB60
CRA1029R	SLB60
CRA1029L	SLB60

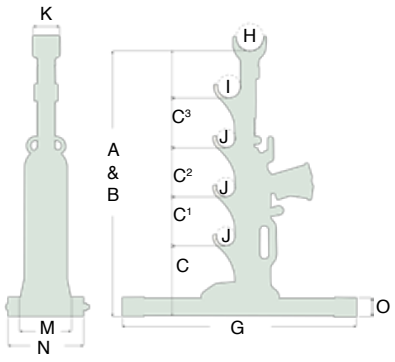
CR320B



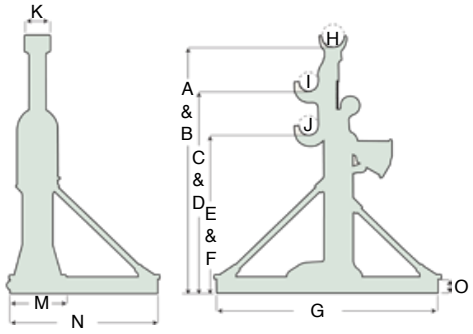


◀ *Two CR321B Reel Jacks are used to support this cable spool for line feeding.*

CR321B



CRA1029R & CRA1029L



Dimensions (in)											Weight (lbs)	*Model*
D	E	F	G	H	I	J	K	M	N	O		
Maximum	Minimum	Maximum	Length	Diameter	Diameter	Diameter	Width	Length	Width	Height		
24.75	9.25	18.75	20.38	2.62	2.25	2.25	2.38	5.00	9.38	2.00	51	*CR320B*
---	---	---	30.37	3.63	3.00	2.38	3.50	6.50	9.75	2.50	125	*CR321B*
36.50	18.87	30.50	30.00	3.12	2.62	2.62	3.50	6.62	7.50	2.25	86	*CRA1029R*
36.50	18.87	30.50	30.00	3.12	2.62	2.62	3.50	6.62	7.50	2.25	86	*CRA1029L*

Mechanical Jacks
Screw Jacks

SIMPLEX

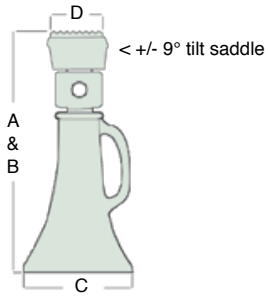


Mechanical Screw Jack Family Shown

Capacity Range .....▶ **12 - 24 tons**
Stroke Range .....▶ **3.75 - 14.25 in.**
Minimum Height .....▶ **9.62 - 23 in.**

- ▶ Positive welded stop for safety.
- ▶ Supports loads indefinitely, and will not creep down.
- ▶ Carry handle for ease of transport.
- ▶ Four holes for easy positioning of lever bar.
- ▶ 9° tilt saddle assists in centering load point.

CE COMPLIANT
Our Jack design specifications meet or exceed ANSI /ASME B30.1 Safety Standards.



RECOMMENDED LEVER BARS
*** Lever Bars Sold Separately**

Screw Jack Model	Lever Bar Model
SJ156	SLB24
SJ158	SLB24
SJ1512	SLB24
SJ208	SLB35
SJ2010	SLB35
SJ2012	SLB35
SJ258	SLB42
SJ2512	SLB42
SJ2518	SLB42

Model	Sustaining Capacity (tons)	Dimensions (in)				Handle Effort Per Ton (lbs)	Weight (lbs)
		A	B	C	D		
		Closed Height	Stroke	Base Diameter	Cap Diameter		
SJ156	12	9.63	3.75	4.75	2.88	15	10
SJ158		11.63	5.75	5.5	2.88	15	12
SJ1512		15.75	9.75	6.25	2.88	15	16
SJ208	20	11.88	5	6	3.13	15	17
SJ2010		13.75	7	6.5	3.13	15	20
SJ2012		15.75	9	6.75	3.13	15	24
SJ258	24	13	4.25	6.5	3.25	15	28
SJ2512		17	8.25	7.25	3.25	15	37
SJ2518		23	14.25	8.5	3.25	15	52

Mechanical Jacks
Screw Jack Accessories

SIMPLEX



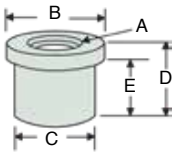
SCN15 & SC156 Shown

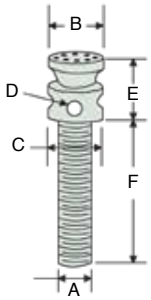
Sustaining Capacity .....▶ **12 - 24 tons**
Thread Pitch Range.....▶ **1.5 - 3 in.**
Weight Range.....▶ **5.5 - 29.25 lbs.**

- ▶ Holds the load indefinitely without creep down.
- ▶ The shoulder nut is placed into piping or other fixed form, and the screw & cap assembly is threaded through it.

RECOMMENDED LEVER BARS
*** Lever Bars Sold Separately**

Screw Jack Model	Lever Bar Model
SJ156	**SLB24**
SJ158	**SLB24**
SJ1512	**SLB24**
SJ208	**SLB35**
SJ2010	**SLB35**
SJ2012	**SLB35**
SJ258	**SLB42**
SJ2512	**SLB42**
SJ2518	**SLB42**





Model	Sustaining Capacity (tons)	Dimensions (in)						Weight (lbs)
		A	B	C	D	E	F	
		Modified Acme Thread Diameter - Pitch A (Thread)	Width		Diameter	Height		
SC156	12	1.5 - 3	2.87	2.25	.87	3.75	5.68	5.5
SC158		1.5 - 3	2.87	2.25	.87	3.75	7.68	6.25
SC1512		1.5 - 3	2.87	2.25	.87	3.75	11.68	7.75
SC208	20	2 - 2.5	3.13	2.87	.93	4	7.56	10.5
SC2010		2 - 2.5	3.13	2.87	.93	4	9.56	12
SC2012		2 - 2.5	3.13	2.87	.93	4	11.56	13.5
SC258	24	2.5 - 2.5	3.25	3.25	1.81	5	7.81	16.75
SC2512		2.5 - 2.5	3.25	3.25	1.81	5	11.86	21.75
SC2518		2.5 - 2.5	3.25	3.25	1.81	5	17.81	29.25
Shoulder Nuts								
SCN15	---	1.5 - 3	3	2.41	3	2.25	---	3.25
SCN20	---	2 - 2.5	4	3	3.25	2.25	---	5
SCN25	---	2.5 - 2.5	5	3.93	4	3	---	11

Mechanical Jacks
Actuators

ENERPAC

Model Type

- M-Series Machine Screw
- B-Series Ball Screw



Mounting Styles

- Inverted
- Upright
- Double Clevis



Screw Configurations

- Rotating
- Translating
- Keyed
- Anti-Backlash (applicable models)



Gear Ratios *(Ratios vary with tonnage)*

- Low
- Medium
- High



End Configurations

- Threaded
- Plain
- Clevis
- Top Plate



Mechanical Jacks
Actuators

ENERPAC

Drive Options

- Couplers
- Motors
- Motor Adaptors
- Worm Gear Reducers
- Mitre Gear Boxes
- Shafting
- Hand Wheels



Control Options

- Limit Switches
- Control Boxes / Encoders
- Transducers
- Digital Displays



Protective Options

- Boots
- Stop Nuts



Mechanical Jacks
Actuators

ENERPAC

System Arrangement Reference Numbers

① *UNI-LIFT® Actuator*

② *Shafting*

③ *Motor Adaptor*

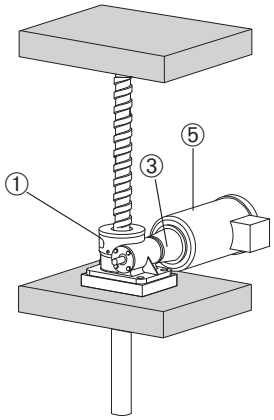
④ *Worm Gear Reducer*

⑤ *Motor*

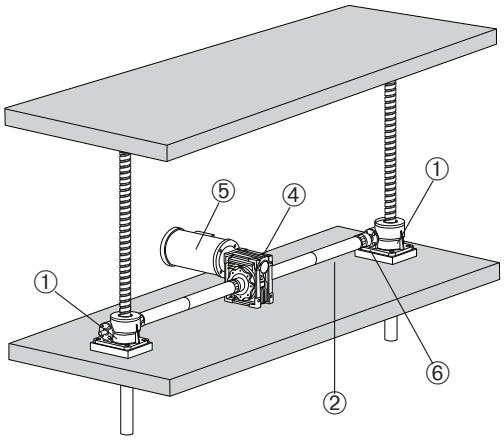
⑥ *Coupler*

⑦ *Mitre Gear Box*

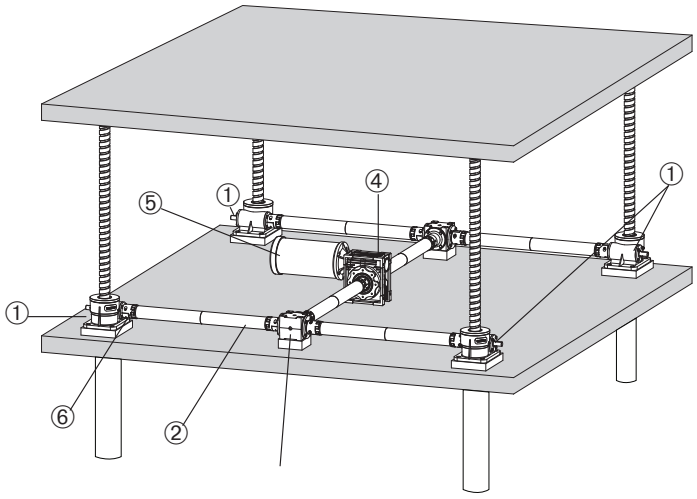
▼ **Single Point Actuator System**



▼ **Two Point Actuator System**



▼ **Four Point Actuator System**



Mechanical

Hydraulics Section

(Pages 625-760)

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Cylinders, Center Hole 630-633, 702-703, 712-713, 734-735
Cylinders, General Purpose 626-627, 700-701, 730-731
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Pumps, Gas 689-691, 726-727, 758-759
Pumps, Hand 672-677, 716-719, 747-749
Strand Jacks 696-697

General Purpose Cylinders
Single Acting, RC-Series

ENERPAC

▼ Shown from left to right: **RC-506, RC-50, RC-2510, RC-154, RC-10010, RC-55, RC-1010**



- **Unique GR2 Bearing Design, reduces wear, extending life**
- **Collar threads, plunger threads and base mounting holes enable easy fixturing (on most models)**
- **Designed for use in all positions**
- **High strength alloy steel for durability**
- **Redesigned cylinder thread protector for ease of use**
- **Heavy-duty, pretensioned spring improves retraction speed**
- **Baked enamel finish for increased corrosion resistance**
- **CR-400 coupler and dust cap included on all models**
- **Plunger wiper reduces contamination, extending cylinder life**

The Industry Standard General Purpose Cylinder



Saddles

All **RC** cylinders are equipped with hardened removable grooved saddles. For tilt and flat saddles, see the RC-Series accessory page.



Base Plates

To ensure the stability of cylinders for lifting applications, base plates are available for 10, 25 and 50 ton RC cylinders.



Specialty Attachments

For solving all kinds of application problems, specialty attachments are available for 5, 10 and 25 ton RC cylinders.

General Purpose Cylinders

Single Acting, RC-Series

ENERPAC



GR2 Bearing Technology

The exclusive GR2 is a unique bearing design on RC-Series DUO cylinders which absorbs eccentric load stresses to protect your cylinder against abrasion, over-extending or plunger blow-outs and jamming or top-end mushrooming. As a result, RC-Series DUO cylinders provide long, trouble-free operation.

▼ QUICK SELECTION CHART

For complete technical information see next page.

Cylinder Capacity tons (maximum)	Stroke (in)	Model Number	Cylinder Effective Area (in^2)	Oil Capacity (in^3)	Collapsed Height (in)	Weight (lbs)
5 (4.9)	.63	RC-50**	.99	.62	1.63	2.2
	1.00	RC-51	.99	.99	4.34	2.3
	3.00	RC-53	.99	2.98	6.50	3.3
	5.00	RC-55*	.99	4.97	8.50	4.1
	7.00	RC-57	.99	6.96	10.75	5.3
	9.13	RC-59	.99	9.07	12.75	6.1
10 (11.2)	1.00	RC-101	2.24	2.24	3.53	4.0
	2.13	RC-102*	2.24	4.75	4.78	5.1
	4.13	RC-104	2.24	9.23	6.75	7.2
	6.13	RC-106*	2.24	13.70	9.75	9.8
	8.00	RC-108	2.24	17.89	11.75	12.0
	10.13	RC-1010*	2.24	22.65	13.75	14.0
	12.00	RC-1012	2.24	26.84	15.75	15.0
	14.00	RC-1014	2.24	31.31	17.75	18.0
15 (15.7)	1.00	RC-151	3.14	3.14	4.88	7.2
	2.00	RC-152	3.14	6.28	5.88	9.0
	4.00	RC-154*	3.14	12.57	7.88	11.0
	6.00	RC-156*	3.14	18.85	10.69	15.0
	8.00	RC-158	3.14	25.13	12.69	18.0
	10.00	RC-1510	3.14	31.42	14.69	21.0
	12.00	RC-1512	3.14	37.70	16.69	24.0
	14.00	RC-1514	3.14	43.98	18.69	26.0
25 (25.8)	1.00	RC-251	5.16	5.16	5.50	13.0
	2.00	RC-252*	5.16	10.31	6.50	14.0
	4.00	RC-254*	5.16	20.63	8.50	18.0
	6.25	RC-256*	5.16	32.23	10.75	22.0
	8.25	RC-258	5.16	42.55	12.75	27.0
	10.25	RC-2510	5.16	52.86	14.75	31.0
	12.25	RC-2512	5.16	63.18	16.75	36.0
	14.25	RC-2514*	5.16	73.49	18.75	39.0
30 (32.4)	8.25	RC-308	6.49	53.56	15.25	40.0
50 (55.2)	2.00	RC-502	11.04	22.09	6.94	33.0
	4.00	RC-504	11.04	44.18	8.94	42.0
	6.25	RC-506*	11.04	69.03	11.13	51.0
	13.25	RC-5013	11.04	146.34	18.13	83.0
75 (79.5)	6.13	RC-756	15.90	97.41	11.25	65.0
	13.13	RC-7513	15.90	208.74	19.38	130.0
100 (103.1)	6.63	RC-1006	20.63	136.67	14.06	130.0
	10.25	RC-10010	20.63	211.45	17.69	160.0

* Available as a set. See note on this page.
** RC-50 cylinder has non-removable grooved saddle and no collar thread.

RC Series



Capacity:
5-100 tons

Stroke:
.63-14.25 inches

Maximum Operating Pressure:
10,000 psi



Think Safety

Manufacturer's rating of load and stroke are maximum safe limits.

Good practice encourages using only 80% of these ratings!



RAC-Series, Single-Acting Cylinders

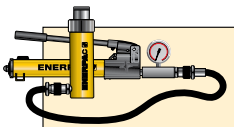
The lightweight general purpose spring return aluminum cylinders.

RC-Series DUO Cylinders maintain external dimensions for use with existing fixtures.



Gauges

Minimize the risk of overloading and ensure long, dependable service from your equipment. Refer to the System Components section for a full range of gauges.



Pump and Cylinder Sets

All cylinders marked with an * are available as **sets** (cylinder, gauge, couplers, hose and pump) for your ordering convenience.

Hydraulics

Lightweight Aluminum Cylinders
Single Acting, RA-Series

ENERPAC

▼ Shown: **RAC, RACL, RACH, and RAR**



RA Series

Capacity:
20-150 tons

Stroke:
1.97-7.87 inches

Maximum Operating Pressure:
10,000 psi



Think Safety

Manufacturer's rating of load and stroke are maximum safe limits.

Good practice encourages using only 80% of these ratings!

- **Lightweight, easy to carry and position to allow a higher cylinder capacity-to-weight-ratio**
- **Non-corrosive by design, aluminum has always been a good material for use in many caustic environments**
- **Composite bearings on all moving surfaces guarantee NO metal-to-metal contact, to resist side loads and increase cylinder life**



RACH-Series, Hollow Plunger Cylinders

For both push and pull forces with a single-acting cylinders.



RACL-Series, Lock Nut Cylinders

The lightweight spring return aluminum cylinders for mechanical load holding.



RAR-Series, Double-Acting Cylinders

The lightweight aluminum cylinders for lifting and lowering.



RAC-Series, Single-Acting Cylinders

The lightweight general purpose spring return aluminum cylinders.

Lightweight Aluminum Cylinders

Single Acting, RA-Series

ENERPAC

Steel Base Plate

The steel base plate protects the cylinder base from damage, it should not be removed.

The base holes in these aluminum cylinders are designed for securing the steel base plate. **They will not withstand the capacity of the cylinder.**

Do not use the base holes in these aluminum cylinders to attach any device to the cylinder.

Capacity:
20-150 tons

Stroke:
1.97-9.84 inches

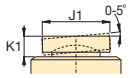
Maximum Operating Pressure:
10,000 psi

RAC Series



Optional Bolt-on Tilt Saddle Dimensions (in)

Cylinder Model / Capacity (ton)	Model Number*	Saddle Diameter J1	Saddle Protrusion from Plunger K1
RAC-50	CATG-50	1.95	1.02
RAC-100	CATG-150	3.57	1.30
RAC-150	CATG-200	4.64	1.44

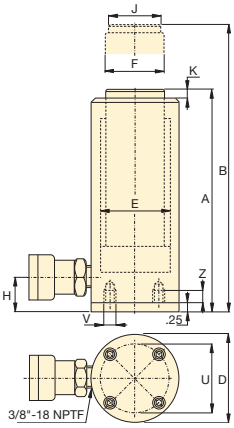


* Tilt saddle not available for less than 50 ton.

Steel Base Plate Mounting Holes

Cylinder Model / Capacity (ton)	Bolt Circle U (in)	Thread V (mm)	Thread Depth [1] Z (in)
RAC-20	2.76	M6	.47
RAC-30	3.15	M6	.47
RAC-50	4.33	M6	.47
RAC-100	5.91	M10	.47
RAC-150	7.87	M10	.47

[1] Including Base Plate Height of .25 inches. Four (4) base plate bolts included.



Oil Capacity (in³)	Collapsed Height A (in)	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Base to Advance Port H (in)	Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Weight (lbs)	Model Number
9.52	6.85	8.83	3.35	2.48	1.97	1.07	1.58	0.12	7.9	RAC-202
19.03	8.82	12.76	3.35	2.48	1.97	1.07	1.58	0.12	9.0	RAC-204
28.55	10.79	16.70	3.35	2.48	1.97	1.07	1.58	0.12	10.1	RAC-206
38.01	12.76	20.64	3.35	2.48	1.97	1.07	1.58	0.12	11.2	RAC-208
47.53	14.73	24.58	3.35	2.48	1.97	1.07	1.58	0.12	12.3	RAC-2010
13.49	7.13	9.10	3.94	2.95	2.36	1.31	1.58	0.12	9.9	RAC-302
26.99	9.09	13.04	3.94	2.95	2.36	1.31	1.58	0.12	11.5	RAC-304
40.48	11.06	16.98	3.94	2.95	2.36	1.31	1.58	0.12	13.0	RAC-306
53.91	13.04	20.91	3.94	2.95	2.36	1.31	1.58	0.12	14.5	RAC-308
67.40	15.01	24.85	3.94	2.95	2.36	1.31	1.58	0.12	16.1	RAC-3010
21.65	7.32	9.90	5.12	3.74	3.15	1.19	1.97	0.12	18.7	RAC-502
43.30	9.29	13.24	5.12	3.74	3.15	1.19	1.97	0.12	21.6	RAC-504
64.95	11.26	17.17	5.12	3.74	3.15	1.19	1.97	0.12	24.5	RAC-506
86.49	13.24	21.11	5.12	3.74	3.15	1.19	1.97	0.12	27.3	RAC-508
108.14	15.21	25.05	5.12	3.74	3.15	1.19	1.97	0.12	30.2	RAC-5010
43.71	8.71	10.68	7.09	5.32	4.33	1.82	3.70	0.12	38.1	RAC-1002
87.43	10.67	14.61	7.09	5.32	4.33	1.82	3.70	0.12	43.2	RAC-1004
131.14	12.64	18.55	7.09	5.32	4.33	1.82	3.70	0.12	48.3	RAC-1006
174.64	14.61	22.49	7.09	5.32	4.33	1.82	3.70	0.12	53.4	RAC-1008
218.35	16.58	26.43	7.09	5.32	4.33	1.82	3.70	0.12	58.4	RAC-10010
69.30	9.56	11.53	9.06	6.69	5.51	2.02	4.45	0.12	55.8	RAC-1502
138.61	11.53	15.47	9.06	6.69	5.51	2.02	4.45	0.12	64.6	RAC-1504
207.91	13.49	19.41	9.06	6.69	5.51	2.02	4.45	0.12	73.4	RAC-1506
276.87	15.47	23.34	9.06	6.69	5.51	2.02	4.45	0.12	82.2	RAC-1508
346.17	17.44	27.28	9.06	6.69	5.51	2.02	4.45	0.12	91.1	RAC-15010

Hollow Plunger Cylinders

SIngle Acting, RCH Series

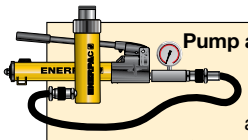
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▼ Shown from left to right: **RCH-306, RCH-120, RCH-1003**



- **Hollow plunger design allows for both pull and push forces**
- **Single-acting spring return**
- **Nickel-plated, floating center tube on models over 20 tons increases product life**
- **Baked enamel finish for increased corrosion resistance**
- **Collar threads for easy fixturing**
- **RCH-120 includes AR-630 coupler and has 1/4 NPTF port**
- **RCH-121 and RCH-1211 have FZ-1630 reducer and AR-630 coupler, all other models feature CR-400 coupler**

Versatility in Testing, Maintenance and Tensioning Applications



Pump and Cylinder Sets

All cylinders marked with an * are available as **sets** (cylinder, gauge, couplers, hose and pump) for your ordering convenience.



Lightweight Aluminum Hollow Plunger Cylinders

If you need a higher cylinder capacity-to-weight ratio the lightweight **RACH-Series** Aluminum Hollow Plunger Cylinders are the perfect choice.



Saddles

Most RCH-Series cylinders are equipped with smooth saddles. See table at next page for optional threaded saddles and all dimensional information.

Cylinder Capacity (tons) [maximum]	Stroke (in)	Model Number	Cyl. Effect. Area (in^2)	Oil Cap. (in^3)
12 [13.8]	0.31	RCH-120	2.76	0.86
	1.63	RCH-121*	2.76	4.49
	1.63	RCH-1211	2.76	4.49
	3.00	RCH-123	2.76	8.29
20 [23.6]	2.00	RCH-202*	4.73	9.46
	6.10	RCH-206	4.73	28.67
30 [36.1]	2.50	RCH-302*	7.22	18.05
	6.13	RCH-306	7.22	44.23
60 [63.6]	3.00	RCH-603*	12.73	38.20
	6.00	RCH-606	12.73	76.41
100 [103.1]	3.00	RCH-1003*	20.63	61.88

* Available as a set. See note on this page.

Hollow Plunger Cylinders

SIngle Acting, RCH Series

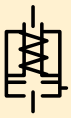
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Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only Enerpac hydraulic hoses.

RCH Series





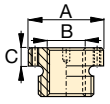
Capacity:
12-100 tons

Stroke:
.31-6.13 inches

Center Hole Diameter:
.77-3.11 inches

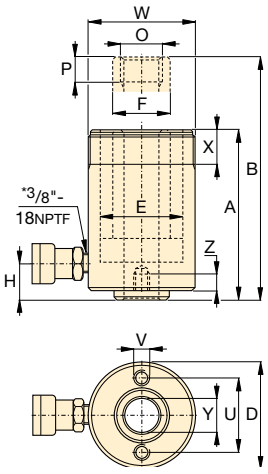
Maximum Operating Pressure:
10,000 psi

Optional Heat Treated Hollow Saddles						
Saddle Type	Cylinder Model No.	Saddle Model No.	Saddle Dimensions (in) A	B	C	
Threaded Hollow	RCH-202, 206	HP-2015	2.11	1"-8	.38	
	RCH-302, 306	HP-3015	2.49	1¼"-7	.38	
	RCH-603, 606	HP-5016	3.61	1⅝"-5½"	.50	
	RCH-1003	HP-10016	4.97	2½"-8	.51	

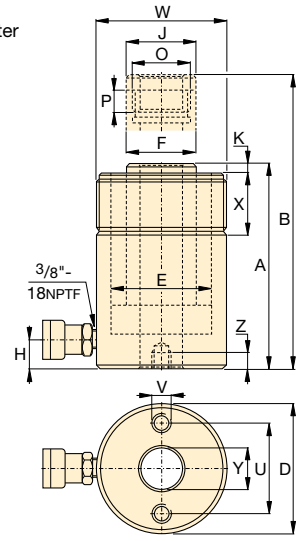


Smooth hollow saddles are standard on all RCH-models (12-ton models are not equipped with saddles).

RCH-121 and RCH-1211 have a 1.88" diameter boss that protrudes 0.25" from base.



RCH-120 to RCH-123 models



RCH-202 to RCH-1003 models

* 1/4" NPT for RCH-120 only

Base Mounting Hole Dimensions (in)			
Model Number	Bolt Circle U	Thread V	Thread Depth Z
RCH-120	2.00	5/16"-18 UNC	.35
RCH-121	–	–	–
RCH-1211	–	–	–
RCH-123	2.00	5/16"-18 UNC	.50
RCH-202	3.25	3/8"-16 UNC	.37
RCH-206	3.25	3/8"-16 UNC	.37
RCH-302	3.63	3/8"-16 UNC	.55
RCH-306	3.63	3/8"-16 UNC	.55
RCH-603	5.13	1/2"-13 UNC	.55
RCH-606	5.13	1/2"-13 UNC	.55
RCH-1003	7.00	5/8"-11 UNC	.75

Collap. Height A (in)	Ext. Height B (in)	Outside Diam. D (in)	Cyl. Bore Diam. E (in)	Plngr. Diam. F (in)	Cyl. Base to Advance Port H (in)	Saddle Diameter J (in)	Saddle Protrusion from Plngr. K (in)	Plunger Internal Thread O (in)	Plunger Thread Length P (in)	Collar Thread W (in)	Collar Thread Length X (in)	Center Hole Diam. Y (in)	Weight (lbs)	Model Number
2.19	2.50	2.75	2.13	1.38	.38	–	–	¾"-16 UN	.63	2¾"-16	1.19	.77	3.2	RCH-120
4.75	6.38	2.75	2.13	1.38	.98	–	–	–	–	2¾"-16	1.19	.77	6.2	RCH-121*
4.75	6.38	2.75	2.13	1.38	.98	–	–	¾"-16 UN	.63	2¾"-16	1.19	.77	6.2	RCH-1211
7.25	10.25	2.75	2.13	1.38	.98	–	–	–	–	2¾"-16	1.19	.77	9.8	RCH-123
6.38	8.38	3.88	2.88	2.13	.75	2.13	.27	1⅞"-16 UN	.75	3⅞"-12	1.50	1.06	17	RCH-202*
12.05	18.11	3.88	2.88	2.13	.75	2.13	.27	1⅞"-16 UN	.75	3⅞"-12	1.50	1.06	31	RCH-206
7.03	9.53	4.50	3.50	2.50	.85	2.50	.38	1 13/16"-16 UN	.88	4½"-12	1.66	1.31	24	RCH-302*
13.00	19.13	4.50	3.50	2.50	1.00	2.50	.38	1 13/16"-16 UN	.88	4½"-12	1.66	1.31	48	RCH-306
9.75	12.75	6.25	4.88	3.63	1.25	3.61	.50	2¾"-16 UN	.75	6¼"-12	1.91	2.12	62	RCH-603*
12.75	18.75	6.25	4.88	3.63	1.25	3.61	.50	2¾"-16 UN	.75	6¼"-12	1.91	2.12	78	RCH-606
10.00	13.00	8.38	6.50	5.00	1.50	4.97	.50	4"-16 UN	1.00	8⅜"-12	2.38	3.11	132	RCH-1003*

Hollow Aluminum Cylinders

Single Acting, RACH-Series

ENERPAC

▼ Shown from left to right: **RACH-1508, RACH-304 and RACH-208**



- **Hollow plunger design allows for both pull and push forces**
- **Composite bearings increase cylinder life and side load resistance**
- **Hard coat finish on all surfaces resists damage and extends cylinder life**
- **Handles included on all models**
- **Floating center tube increases seal life**
- **Steel baseplate and saddle for protection against load-induced damage**
- **Integral stop ring prevents plunger over-travel and is capable of withstanding the full cylinder capacity**
- **High-strength return spring for rapid cylinder retraction**
- **CR-400 coupler and dust cap included on all models**
- **All cylinders meet ASME B-30.1 and ISO 10100 standards**

The Lightweight Solution for Tensioning and Testing



Saddles
All RACH-cylinders are equipped with bolt-on removable hardened steel hollow saddles.



Lightweight Hand Pumps
Enerpac hand pumps **P-392** or **P-802** make the optimal lightweight set.

Cylinder Capacity tons (maximum)	Stroke* (in)	Model Number	Cylinder Effective Area (in^2)
20 (25.4)	1.97	RACH-202	5.07
	3.94	RACH-204	5.07
	5.91	RACH-206	5.07
	7.87	RACH-208	5.07
	9.84	RACL-2010	5.07
30 (39.6)	1.97	RACH-302	7.92
	3.94	RACH-304	7.92
	5.91	RACH-306	7.92
	7.87	RACH-308	7.92
	9.84	RACH-3010	7.92
60 (65.6)	1.97	RACH-602	13.13
	3.94	RACH-604	13.13
	5.91	RACH-606	13.13
	7.87	RACH-608	13.13
	9.84	RACH-6010	13.13
100 (127.5)	1.97	RACH-1002	25.51
	3.94	RACH-1004	25.51
	5.91	RACH-1006	25.51
	7.87	RACH-1008	25.51
	9.84	RACH-10010	25.51
150 (175.0)	1.97	RACH-1502	35.00
	3.94	RACH-1504	35.00
	5.91	RACH-1506	35.00
	7.87	RACH-1508	35.00
	9.84	RACH-15010	35.00

* Custom strokes available.

Hollow Aluminum Cylinders

Single Acting, RACH-Series

ENERPAC

Steel Base Plate

The steel base plate protects the cylinder base from damage, it should not be removed.

The base holes in these aluminum cylinders are designed for securing the steel base plate. **They will not withstand the capacity of the cylinder.**

Do not use the base holes in these aluminum cylinders to attach any device to the cylinder.

RACH Series



Capacity:
20-150 tons

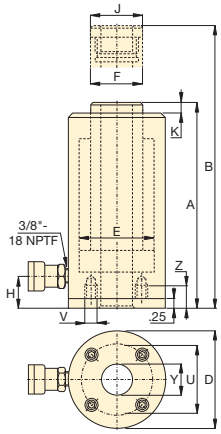
Stroke:
1.97-9.84 inches

Center Hole Diameter:
1.06-3.11 inches

Maximum Operating Pressure:
10,000 psi

Steel Base Plate Mounting Holes			
Cylinder Model / Capacity (ton)	Bolt Circle U (in)	Thread V (mm)	Thread Depth [1] Z (in)
RACH-20	3.15	M6	.47
RACH-30	4.33	M6	.47
RACH-60	6.30	M6	.47
RACH-100	8.66	M10	.47
RACH-150	9.65	M10	.47

[1] Including Base Plate Height of .25 inches. Four (4) baseplate bolts included.



Oil Capacity (in³)	Collapsed Height A (in)	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Base to Advance Port H (in)	Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Center Hole Diameter Y (in)	Weight (lbs)	Model Number
9.98	7.41	9.38	3.93	2.95	2.17	1.14	2.17	0.40	1.06	11.5	RACH-202
19.96	9.89	13.83	3.93	2.95	2.17	1.14	2.17	0.40	1.06	13.5	RACH-204
29.94	12.41	18.32	3.93	2.95	2.17	1.14	2.17	0.40	1.06	15.6	RACH-206
39.87	14.89	22.76	3.93	2.95	2.17	1.14	2.17	0.40	1.06	17.7	RACH-208
49.90	17.41	27.25	3.93	2.95	2.17	1.14	2.17	0.40	1.06	19.8	RACL-2010
15.59	8.20	10.17	5.12	3.74	2.76	1.14	2.76	0.40	1.34	17.6	RACH-302
31.18	10.52	14.46	5.12	3.74	2.76	1.14	2.76	0.40	1.34	20.9	RACH-304
46.77	13.12	19.02	5.12	3.74	2.76	1.14	2.76	0.40	1.34	24.6	RACH-306
62.35	15.56	23.43	5.12	3.74	2.76	1.14	2.76	0.40	1.34	28.4	RACH-308
77.94	18.04	27.88	5.12	3.74	2.76	1.14	2.76	0.40	1.34	31.9	RACH-3010
25.84	9.89	11.86	7.09	5.12	3.94	2.41	3.94	0.47	2.13	35.6	RACH-602
51.69	12.41	16.35	7.09	5.12	3.94	2.41	3.94	0.47	2.13	42.8	RACH-604
77.53	14.97	20.87	7.09	5.12	3.94	2.41	3.94	0.47	2.13	50.3	RACH-606
103.37	17.52	25.40	7.09	5.12	3.94	2.41	3.94	0.47	2.13	57.2	RACH-608
129.21	20.09	29.93	7.09	5.12	3.94	2.41	3.94	0.47	2.13	65.1	RACH-6010
50.21	10.16	12.13	9.84	7.28	5.71	2.41	5.71	0.55	3.11	74.6	RACH-1002
100.43	12.80	16.74	9.84	7.28	5.71	2.41	5.71	0.55	3.11	87.8	RACH-1004
150.64	15.40	21.31	9.84	7.28	5.71	2.41	5.71	0.55	3.11	101.9	RACH-1006
200.85	18.08	25.95	9.84	7.28	5.71	2.41	5.71	0.55	3.11	115.7	RACH-1008
251.07	20.76	30.60	9.84	7.28	5.71	2.41	5.71	0.55	3.11	129.3	RACH-10010
66.08	11.03	13.00	10.83	8.07	5.91	2.41	5.71	0.55	3.11	107.7	RACH-1502
132.17	14.18	18.12	10.83	8.07	5.91	2.41	5.71	0.55	3.11	122.8	RACH-1504
206.72	16.93	22.84	10.83	8.07	5.91	2.41	5.71	0.55	3.11	138.9	RACH-1506
275.62	19.69	27.57	10.83	8.07	5.91	2.41	5.71	0.55	3.11	154.5	RACH-1508
344.53	22.45	32.29	10.83	8.07	5.91	2.41	5.71	0.55	3.11	170.2	RACH-15010

Hollow Plunger Cylinders
Double-Acting, RRH-Series

ENERPAC

▼ Shown from left to right: **RRH-3010, RRH-1001, RRH-6010**



RRH Series



Capacity:
30-150 tons

Stroke:
1.50-10.13 inches

Center Hole Diameter:
1.31-3.13 inches

Maximum Operating Pressure:
10,000 psi

- **Relief valves prevent damage in case of over-pressurization**
- **Baked enamel finish for increased corrosion resistance**
- **Collar threads enable easy fixturing (except RRH-1001 and RRH-1508)**
- **Double-acting operation for fast retraction**
- **Nickel-plated, floating center tube increases product life**
- **Hollow plunger allows for both pull and push forces**
- **CR-400 couplers and dust caps included on all models**
- **Plunger wiper reduces contamination, extending cylinder life**

Cylinder Capacity (ton)	Stroke (in)	Model Number	Max. Cylinder Capacity (ton)		Cylinder Effective Area (in^2)		Oil Capacity (in^3)	
			Advance	Retract	Advance	Retract	Advance	Retract
30	7.00	RRH-307	36	24	7.22	4.71	50.55	32.99
	10.13	RRH-3010	36	24	7.22	4.71	73.12	47.71
60	3.50	RRH-603	64	42	12.73	8.37	44.57	29.21
	6.50	RRH-606	64	42	12.73	8.37	82.77	54.24
	10.12	RRH-6010	64	42	12.73	8.37	128.94	84.49
100	1.50	RRH-1001	103	68	20.63	13.54	30.94	20.32
	3.00	RRH-1003	103	68	20.63	13.54	61.88	40.64
	6.00	RRH-1006	103	68	20.63	13.54	123.76	81.29
	10.13	RRH-10010	103	68	20.63	13.54	208.84	137.17
150	8.00	RRH-1508	158	80	31.62	15.91	252.97	127.23

Hollow Plunger Cylinders

Double-Acting, RRH-Series

ENERPAC



Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only Enerpac hydraulic hoses.

Pump Selection

A double-acting cylinder must be powered by a pump with a 4-way valve.



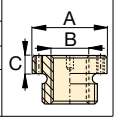
Gauges

Minimize the risk of overloading and ensure long, dependable service from your equipment. Refer to the System Components section for a full range of gauges.

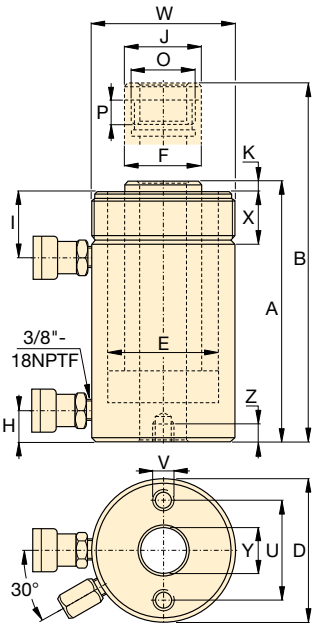


Saddles

All RRH-Series cylinders are equipped with smooth saddles. See table on next page for optional threaded saddles and all dimensional information.

Optional Heat Treated Saddles						
Saddle Type	Cylinder Model Number	Saddle Model No.	Saddle Dimensions (in) A	B	C	
Threaded Hollow	RRH-307, 3010	HP-3015	2.49	1¼"-7	.38	
	RRH-603, 606, 6010	HP-5016	3.61	1⅝"-5½	.50	
	RRH-1001, 1003, RRH-1006, 10010	HP-10016	4.97	2½"-8	.51	

Smooth hollow saddles are standard on all RRH-models.



Base Mounting Hole Dimensions (in)			
Model Number	Bolt Circle U	Thread V	Thread Depth Z
RRH-307	3.63	⅜"- 16	.62
RRH-3010	3.63	⅜"- 16	.62
RRH-603	5.12	½"- 13	.55
RRH-606	5.12	½"- 13	.55
RRH-6010	5.12	½"- 13	.55
RRH-1001	7.00	⅝"- 11	.75
RRH-1003	7.00	⅝"- 11	.75
RRH-1006	7.00	⅝"- 11	.75
RRH-10010	7.00	⅝"- 11	.75
RRH-1508	–	–	–

Collap. Height A (in)	Ext. Height B (in)	Out. Diam. D (in)	Cyl. Bore Diam. E (in)	Plngr. Diam. F (in)	Cyl. Base to Adv. Port H (in)	Cyl. Top to Return Port I (in)	Saddle Diam. J (in)	Saddle Protrusion from Plngr. K (in)	Thread O (in)	Plunger Thread Length P (in)	Collar Thread W (in)	Collar Thread Length X (in)	Center Hole Diam. Y (in)	Wt. (lbs)	Model Number
13.00	20.00	4.50	3.50	2.50	1.00	2.38	2.50	.38	1 13/16"-16	.88	4½"-12	1.66	1.31	48	RRH-307
17.00	27.13	4.50	3.50	2.50	1.00	2.38	2.50	.38	1 13/16"-16	.88	4½"-12	1.66	1.31	60	RRH-3010
9.75	13.25	6.25	4.88	3.63	1.25	2.63	3.61	.50	2¾"-16	.75	6¼"-12	1.91	2.13	62	RRH-603
12.75	19.25	6.25	4.88	3.63	1.25	2.63	3.61	.50	2¾"-16	.75	6¼"-12	1.91	2.13	78	RRH-606
17.25	27.38	6.25	4.88	3.63	1.25	2.63	3.61	.50	2¾"-16	.75	6¼"-12	1.91	2.13	101	RRH-6010
6.50	8.00	8.38	6.50	5.00	1.50	1.75	4.97	.50	4"-16	1.00	–	–	3.13	85	RRH-1001
10.00	13.00	8.38	6.50	5.00	1.50	3.38	4.97	.50	4"-16	1.00	8⅜"-12	2.38	3.13	135	RRH-1003
13.50	19.50	8.38	6.50	5.00	1.50	3.38	4.97	.50	4"-16	1.00	8⅜"-12	2.38	3.13	175	RRH-1006
18.13	28.25	8.38	6.50	5.00	1.50	3.38	4.97	.50	4"-16	1.00	8⅜"-12	2.38	3.13	235	RRH-10010
13.75	21.75	9.75	7.50	6.00	1.50	2.38	5.00	.19	4¼"-12	1.00	–	–	3.13	245	RRH-1508

Long Stroke Cylinders
Double-Acting, RR-Series

ENERPAC

▼Shown from left to right: **RR-10013, RR-1502, RR-20013, RR-1010, RR-7513**



- **Collar threads, plunger threads and base mounting holes for easy fixturing (on most models)**
- **Baked enamel finish for increased corrosion resistance**
- **Removable hardened saddles protect plunger during lifting and pressing**
- **Built-in safety valve prevents accidental over-pressurization**
- **CR-400 couplers included on all models**
- **Plunger wiper reduces contamination, extending cylinder life**

Most Versatile Performers

Rugged enough for the toughest job site uses and precision designed for high-cycle industrial uses.

Pump Selection
A double-acting cylinder must be powered by a pump with a 4-way valve.



Saddles
RR-Series cylinders up to 75-ton have plunger thread for installation of CAT-Series tilt saddles.



Optimum Performance
Enerpac's range of *Z-Class* electric pumps, fitted with manual or solenoid operated 4-way valves, offer optimum combinations with RR cylinders.

Long Stroke Cylinders
Double-Acting, RR-Series

ENERPAC

RR Series



Capacity:
10-500 tons

Stroke:
2.25-48.00 inches

Maximum Operating Pressure:
10,000 psi

Enerpac CLRG-Series
If you do not not have a high cycle application, Enerpac **CLRG-Series** cylinders may be the right alternative.

▼ **QUICK SELECTION CHART**
For complete technical information see next page.

Cylinder Capacity (tons)	Stroke (in)	Model Number	Cylinder Effective Area (in^2) Push	Cylinder Effective Area (in^2) Pull	Oil Capacity (in^3) Push	Oil Capacity (in^3) Pull	Collap. Height (in)
10	10.00	RR-1010*	2.23	.80	22.33	8.00	16.13
	12.00	RR-1012*	2.23	.80	26.80	9.00	18.00
30	8.25	RR-308*	6.51	3.00	53.67	25.00	15.25
	14.50	RR-3014*	6.51	3.00	92.70	43.00	21.63
50	6.13	RR-506	11.06	3.40	67.77	21.00	13.06
	13.13	RR-5013	11.06	3.40	145.17	44.00	20.06
	20.13	RR-5020	11.06	3.40	222.56	68.00	28.88
75	6.13	RR-756	15.92	4.90	97.58	29.00	13.69
	13.13	RR-7513	15.92	4.90	209.00	64.00	20.69
100	6.63	RR-1006	20.65	9.60	136.93	63.00	14.06
	13.13	RR-10013	20.65	9.60	271.17	126.00	20.63
	18.13	RR-10018	20.65	9.60	374.44	174.00	27.06
150	2.25	RR-1502	30.71	14.80	69.11	33.00	7.72
	6.13	RR-1506	30.71	14.80	188.28	91.00	15.19
	13.13	RR-15013	30.71	14.80	403.27	194.00	22.20
	32.13	RR-15032	30.71	14.80	986.84	475.00	43.94
200	6.00	RR-2006	44.21	22.50	265.28	135.00	16.94
	13.00	RR-20013	44.21	22.50	574.78	293.00	23.94
	18.00	RR-20018	44.21	22.50	795.85	396.00	30.13
	24.00	RR-20024	44.21	22.50	1,061	528.00	36.13
	36.00	RR-20036	44.21	22.50	1,592	792.00	48.13
	48.00	RR-20048	44.21	22.50	2,122	1,056	60.13
300	6.00	RR-3006	70.93	38.00	425.56	228.00	19.13
	12.00	RR-30012	70.93	38.00	851.12	456.00	25.13
	18.00	RR-30018	70.93	38.00	1,277	684.00	31.13
	24.00	RR-30024	70.93	38.00	1,702	912.00	37.13
	36.00	RR-30036	70.93	38.00	2,553	1,368	49.13
	48.00	RR-30048	70.93	38.00	3,405	1,824	61.13
400	6.00	RR-4006	95.09	51.00	570.51	306.00	21.19
	12.00	RR-40012	95.09	51.00	1,141	612.00	27.19
	18.00	RR-40018	95.09	51.00	1,712	918.00	33.19
	24.00	RR-40024	95.09	51.00	2,282	1,224	39.19
	36.00	RR-40036	95.09	51.00	3,423	1,836	51.19
	48.00	RR-40048	95.09	51.00	4,564	2,448	63.19
500	6.00	RR-5006	113.15	63.00	678	378.00	22.75
	12.00	RR-50012	113.15	63.00	1,358	756.00	28.75
	18.00	RR-50018	113.15	63.00	2,037	1,134	34.75
	24.00	RR-50024	113.15	63.00	2,716	1,512	40.75
	36.00	RR-50036	113.15	63.00	4,074	2,264	52.75
	48.00	RR-50048	113.15	63.00	5,431	3,024	64.75

Lightweight Aluminum Cylinders
Double-Acting, RAR-Series

ENERPAC

▼ Shown from left to right: **RAR-506, RAR-508, RAR-302**



The Lightweight Solution for Double-Acting Applications



Saddles

All RAR-cylinders are equipped with bolt-on removable hardened steel saddles. For tilt saddles see next page.



Hoses

Enerpac offers a complete line of high-quality hydraulic hoses. To ensure the integrity of your system, specify only Enerpac hydraulic hoses.

- **Double-acting for rapid retraction, regardless of hose lengths and system losses**
- **Composite bearings increase cylinder life and side load resistance**
- **Hard coat finish on all surfaces resists damage and extends cylinder life**
- **Handles included on all models**
- **Steel base plate and saddle for protection against load-induced damage**
- **Integral stop ring prevents plunger over-travel and is capable of withstanding the full cylinder capacity**
- **Built-in safety valve prevents accidental over-pressurization**

Cylinder Capacity (ton)	Stroke* (in)	Model Number	Maximum Cylinder Capacity (ton)	Cylinder Effective Area (in^2)		Oil Capacity (in^3)	
			Push	Push	Pull	Push	Pull
20 (24.2)	1.97	RAR-202	24.2	4.83	2.88	9.52	5.67
	3.94	RAR-204	24.2	4.83	2.88	19.03	11.34
	5.91	RAR-206	24.2	4.83	2.88	28.55	17.02
	7.87	RAR-208	24.2	4.83	2.88	38.01	22.66
	9.84	RAR-2010	24.2	4.83	2.88	47.53	28.34
30 (34.2)	1.97	RAR-302	34.2	6.85	3.80	13.49	7.49
	3.94	RAR-304	34.2	6.85	3.80	26.99	14.97
	5.91	RAR-306	34.2	6.85	3.80	40.48	22.46
	7.87	RAR-308	34.2	6.85	3.80	53.91	29.91
	9.84	RAR-3010	34.2	6.85	3.80	67.40	37.39
50 (54.9)	1.97	RAR-502	55	10.99	3.54	21.65	6.97
	3.94	RAR-504	55	10.99	3.54	43.30	13.95
	5.91	RAR-506	55	10.99	3.54	64.95	20.92
	7.87	RAR-508	55	10.99	3.54	86.49	27.86
	9.84	RAR-5010	55	10.99	3.54	108.14	34.83
100 (110.9)	1.97	RAR-1002	111	22.19	12.33	43.71	24.29
	3.94	RAR-1004	111	22.19	12.33	87.43	48.58
	5.91	RAR-1006	111	22.19	12.33	131.14	72.87
	7.87	RAR-1008	111	22.19	12.33	174.64	97.04
	9.84	RAR-10010	111	22.19	12.33	218.35	121.33
150 (175.9)	1.97	RAR-1502	176	35.18	20.45	69.30	40.29
	3.94	RAR-1504	176	35.18	20.45	138.61	80.57
	5.91	RAR-1506	176	35.18	20.45	207.91	120.86
	7.87	RAR-1508	176	35.18	20.45	276.87	160.94
	9.84	RAR-15010	176	35.18	20.45	346.17	201.23

* Custom strokes available.

Lightweight Aluminum Cylinders
Double-Acting, RAR-Series

ENERPAC

Steel Base Plate

The steel base plate protects the cylinder base from damage, it should not be removed.

The base holes in these aluminum cylinders are designed for securing the steel base plate. **They will not withstand the capacity of the cylinder.**

Do not use the base holes in these aluminum cylinders to attach any device to the cylinder.

Capacity:
20-150 tons

Stroke:
1.97-9.84 inches

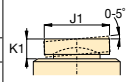
Maximum Operating Pressure:
10,000 psi

RAR Series



Optional Bolt Tilt Saddle Dimensions (in)

Cylinder Model / Capacity (ton)	Model Number*	Saddle Diameter J1	Saddle Protrusion from Plunger K1
RAR-50	CATG-50	1.95	1.02
RAR-100	CATG-100	2.81	1.22
RAR-150	CATG-150	3.57	1.30

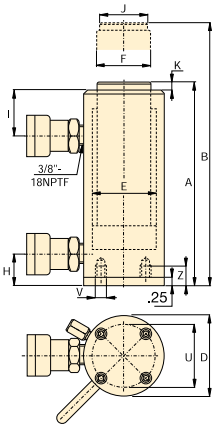


* Tilt saddle not available for less than 50 ton.

Steel Base Plate Mounting Holes

Cylinder Model / Capacity (ton)	Bolt Circle U (in)	Thread V (mm)	Thread Depth [1] Z (in)
RAR-20	3.66	M6	.47
RAR-30	4.13	M6	.47
RAR-50	4.33	M6	.47
RAR-100	6.10	M10	.47
RAR-150	7.87	M10	.47

[1] Including Base Plate Height of .25 inches. Four (4) base plate bolts included.



Collapsed Height A (in)	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Base to Advance Port H (in)	Top to Retract Port I (in)	Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Weight (lbs)	Model Number
7.45	9.42	4.45	2.48	1.58	1.19	1.97	1.18	0.12	16.3	RAR-202
9.42	13.35	4.45	2.48	1.58	1.19	1.97	1.18	0.12	17.6	RAR-204
11.29	17.29	4.45	2.48	1.58	1.19	1.97	1.18	0.12	19.0	RAR-206
13.35	21.23	4.45	2.48	1.58	1.19	1.97	1.18	0.12	20.3	RAR-208
15.32	25.17	4.45	2.48	1.58	1.19	1.97	1.18	0.12	21.6	RAR-2010
7.92	9.89	4.92	2.95	1.97	1.19	2.17	1.58	0.12	19.0	RAR-302
9.89	13.83	4.92	2.95	1.97	1.19	2.17	1.58	0.12	20.9	RAR-304
11.86	17.76	4.92	2.95	1.97	1.19	2.17	1.58	0.12	22.9	RAR-306
13.83	21.70	4.92	2.95	1.97	1.19	2.17	1.58	0.12	24.9	RAR-308
15.80	25.64	4.92	2.95	1.97	1.19	2.17	1.58	0.12	26.9	RAR-3010
7.92	9.89	5.71	3.74	2.95	1.19	2.21	1.97	0.12	24.5	RAR-502
9.89	13.83	5.71	3.74	2.95	1.19	2.21	1.97	0.12	28.0	RAR-504
11.86	17.76	5.71	3.74	2.95	1.19	2.21	1.97	0.12	31.5	RAR-506
13.83	21.70	5.71	3.74	2.95	1.19	2.21	1.97	0.12	35.1	RAR-508
15.80	25.64	5.71	3.74	2.95	1.19	2.21	1.97	0.12	38.6	RAR-5010
9.89	11.86	7.28	5.32	3.54	1.70	3.15	2.95	0.12	36.2	RAR-1002
11.86	15.80	7.28	5.32	3.54	1.70	3.15	2.95	0.12	42.6	RAR-1004
13.83	19.73	7.28	5.32	3.54	1.70	3.15	2.95	0.12	48.9	RAR-1006
15.80	23.67	7.28	5.32	3.54	1.70	3.15	2.95	0.12	55.3	RAR-1008
17.76	27.61	7.28	5.32	3.54	1.70	3.15	2.95	0.12	61.7	RAR-10010
9.77	11.74	9.06	6.70	4.33	1.50	2.95	3.70	0.12	53.4	RAR-1502
11.74	16.68	9.06	6.70	4.33	1.50	2.95	3.70	0.12	63.7	RAR-1504
13.71	19.61	9.06	6.70	4.33	1.50	2.95	3.70	0.12	73.2	RAR-1506
15.68	23.55	9.06	6.70	4.33	1.50	2.95	3.70	0.12	83.6	RAR-1508
17.64	29.46	9.06	6.70	4.33	1.50	2.95	3.70	0.12	93.9	RAR-15010

Aluminum Lock Nut Cylinders

Single-Acting, RACL-Series

ENERPAC

▼ Shown from left to right: **RACL-1006, RACL-504 and RACL-506**



- **Aluminum Lock Nut provides mechanical load holding for extended periods**
- **Hardened steel stop ring increases cylinder life and resistance to side-loads of up to 5%**
- **Hard coat finish on all surfaces resists damage and extends cylinder life**
- **Composite bearings increase cylinder life and side load resistance**
- **Handles included on all models**
- **Steel base plate and saddle for protection against load-induced damage**
- **Integral stop ring prevents plunger over-travel and is capable of withstanding the full cylinder capacity**
- **High-strength return spring for rapid cylinder retraction**
- **CR-400 coupler and dustcap included on all models**
- **All cylinders meet ASME B-30.1 and ISO 10100 standards**

To Secure Loads Mechanically



Saddles

All RACL cylinders are equipped with bolt-on removable saddles of hardened steel. For tilt saddles see next page.



Hoses

Enerpac offers a complete line of high-quality hydraulic hoses. To ensure the integrity of your system, specify only Enerpac hydraulic hoses.

Cylinder Capacity ton (maximum)	Stroke* (in)	Model Number	Cylinder Effective Area (in^2)
20 (24.2)	1.97	RACL-202	4.83
	3.94	RACL-204	4.83
	5.91	RACL-206	4.83
	7.87	RACL-208	4.83
	9.84	RACL-2010	4.83
30 (34.2)	1.97	RACL-302	6.85
	3.94	RACL-304	6.85
	5.91	RACL-306	6.85
	7.87	RACL-308	6.85
	9.84	RACL-3010	6.85
50 (54.9)	1.97	RACL-502	10.99
	3.94	RACL-504	10.99
	5.91	RACL-506	10.99
	7.87	RACL-508	10.99
	9.84	RACL-5010	10.99
100 (110.9)	1.97	RACL-1002	22.19
	3.94	RACL-1004	22.19
	5.91	RACL-1006	22.19
	7.87	RACL-1008	22.19
	9.84	RACL-10010	22.19
150 (175.9)	1.97	RACL-1502	35.18
	3.94	RACL-1504	35.18
	5.91	RACL-1506	35.18
	7.87	RACL-1508	35.18
	9.84	RACL-15010	35.18

Aluminum Lock Nut Cylinders

Single-Acting, RACL-Series

ENERPAC

Capacity:
20-150 tons

Stroke:
1.97-9.84 inches

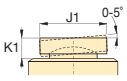
Maximum Operating Pressure:
10,000 psi

RACL Series



Optional Bolt-on Tilt Saddle Dimensions (in)

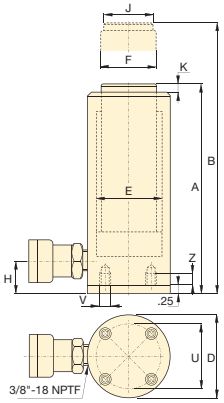
Cylinder Model / Capacity (ton)	Model Number*	Saddle Diameter J1	Saddle Protrusion from Plunger K1
RACL-50	CATG-50	1.95	1.02
RACL-100	CATG-150	3.57	1.30
RACL-150	CATG-200	4.64	1.44



* Tilt saddle not available for less than 50 ton.

Steel Base Plate Mounting Holes			
Cylinder Model / Capacity (ton)	Bolt Circle U (in)	Thread V (mm)	Thread Depth [1] Z (in)
RACL-20	2.76	M6	.47
RACL-30	3.15	M6	.47
RACL-50	4.33	M6	.47
RACL-100	5.91	M10	.47
RACL-150	7.87	M10	.47

[1] Including Base Plate Height of .25 inches. Four (4) base plate bolts included.



Oil Capacity (in³)	Collapsed Height A (in)	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter (Threaded) F (in)	Base to Advance Port H (in)	Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Lock Nut Height S (in)	Weight (lbs)	Model Number
9.52	8.83	10.80	3.35	2.48	2.17	1.07	1.58	0.12	1.97	8.8	RACL-202
19.03	10.80	14.73	3.35	2.48	2.17	1.07	1.58	0.12	1.97	10.1	RACL-204
28.55	12.76	18.67	3.35	2.48	2.17	1.07	1.58	0.12	1.97	11.4	RACL-206
38.01	14.73	22.61	3.35	2.48	2.17	1.07	1.58	0.12	1.97	12.7	RACL-208
47.53	16.70	26.54	3.35	2.48	2.17	1.07	1.58	0.12	1.97	14.1	RACL-2010
13.49	9.10	11.07	3.94	2.95	2.36	1.31	1.58	0.12	1.97	11.9	RACL-302
26.99	11.07	15.01	3.94	2.95	2.36	1.31	1.58	0.12	1.97	13.4	RACL-304
40.48	13.04	18.95	3.94	2.95	2.36	1.31	1.58	0.12	1.97	14.9	RACL-306
53.91	15.01	22.88	3.94	2.95	2.36	1.31	1.58	0.12	1.97	16.5	RACL-308
67.40	16.98	26.82	3.94	2.95	2.36	1.31	1.58	0.12	1.97	18.0	RACL-3010
21.65	9.30	11.27	5.12	3.74	3.15	1.19	1.97	0.12	2.95	20.5	RACL-502
43.30	11.27	15.21	5.12	3.74	3.15	1.19	1.97	0.12	2.95	23.4	RACL-504
64.95	13.24	19.14	5.12	3.74	3.15	1.19	1.97	0.12	2.95	26.2	RACL-506
86.49	15.20	23.08	5.12	3.74	3.15	1.19	1.97	0.12	2.95	29.1	RACL-508
108.14	17.17	27.02	5.12	3.74	3.15	1.19	1.97	0.12	2.95	31.9	RACL-5010
43.71	11.66	13.63	7.09	5.32	4.33	1.82	3.70	0.12	2.95	48.2	RACL-1002
87.43	13.63	17.57	7.09	5.32	4.33	1.82	3.70	0.12	2.95	53.3	RACL-1004
131.14	15.60	21.50	7.09	5.32	4.33	1.82	3.70	0.12	2.95	58.4	RACL-1006
174.64	17.57	25.44	7.09	5.32	4.33	1.82	3.70	0.12	2.95	63.4	RACL-1008
218.35	19.54	29.38	7.09	5.32	4.33	1.82	3.70	0.12	2.95	68.5	RACL-10010
69.30	12.71	14.68	9.06	6.69	5.51	2.02	4.45	0.12	3.15	71.0	RACL-1502
138.61	14.68	18.62	9.06	6.69	5.51	2.02	4.45	0.12	3.15	79.8	RACL-1504
207.91	16.65	22.56	9.06	6.69	5.51	2.02	4.45	0.12	3.15	88.6	RACL-1506
276.87	18.62	26.49	9.06	6.69	5.51	2.02	4.45	0.12	3.15	97.4	RACL-1508
346.17	20.59	30.43	9.06	6.69	5.51	2.02	4.45	0.12	3.15	106.3	RACL-15010

Low Height Cylinders
Single-Acting, RSM/RCS-Series

ENERPAC

▼ Shown from left to right: **RSM-1000, RSM-300, RSM-50, RCS-1002, RCS-302**



RSM RCS Series



Capacity:
5-150 tons

Stroke:
.25-2.44 inches

Maximum Operating Pressure:
10,000 psi

Maximum Power to Height Ratio

RSM-Series, Flat-Jac® Cylinders

- **Compact, flat design for use where other cylinders will not fit**
- **RSM-750, 1000 and 1500 have handles for easy carrying**
- **Mounting holes permit easy fixturing**
- **Baked enamel finish for increased corrosion resistance**
- **CR-400 coupler and dust cap included on all models***
- **Hard chrome plated high-quality steel plungers**
- **Grooved plunger ends require no saddle**
- **Single-acting spring return**

RCS-Series, Low Height Cylinders

- **Lightweight, low profile design for use in confined spaces**
- **Baked enamel finish for increased corrosion resistance**
- **Plunger wiper reduces contamination, extending cylinder life**
- **CR-400 coupler and dust cap included on all models**
- **Grooved plunger end with threaded holes for mounting tilt saddles**
- **Integral handle on RCS-1002 for easy carrying**
- **Plated steel plungers**
- **Single-acting spring return**



Saddles
All RCS-Series cylinders have plunger mounting holes for installation of tilt saddles. See table for selection and dimensional information.

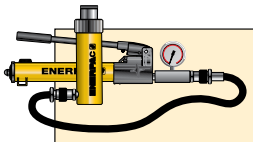
Cylinder Capacity (tons) [max.]	Stroke (in)	Model Number	Cyl. Effect. Area (in^2)	Oil Cap. (in^3)
5 [4.9]	.25	**RSM-50***	.99	.25
10 [11.2]	.44	**RSM-100**	2.24	.98
20 [22.1]	.44	**RSM-200**	4.43	1.94
30 [32.4]	.50	**RSM-300**	6.49	3.25
50 [48.1]	.63	**RSM-500**	9.62	6.01
75 [79.5]	.63	**RSM-750**	15.90	9.94
100 [98.1]	.63	**RSM-1000**	19.63	12.27
150 [153.4]	.63	**RSM-1500**	30.68	19.17
10 [11.2]	1.50	**RCS-101****	2.24	3.35
20 [22.1]	1.75	**RCS-201****	4.43	7.75
30 [32.4]	2.44	**RCS-302****	6.49	15.82
50 [48.1]	2.38	**RCS-502****	9.62	22.85
100 [98.1]	2.25	**RCS-1002****	19.63	44.18

* RSM-50 is fitted with an AR-400 coupler.
** Available as a set. See note on next page.

Low Height Cylinders

Single-Acting, RSM/RCS-Series

ENERPAC



Pump and Cylinder Sets

All cylinders marked with an ** are available as **sets** (cylinder, gauge, couplers, hose and pump) for your ordering convenience.

RSM RCS Series



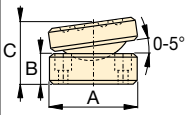
Capacity:
5-150 tons

Stroke:
.25-2.44 inches

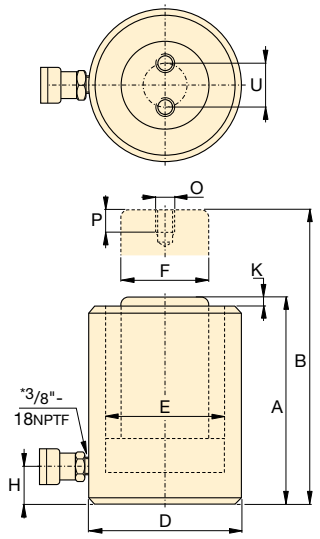
Maximum Operating Pressure:
10,000 psi

Optional Bolt On Tilt Saddle Dimensions (in)

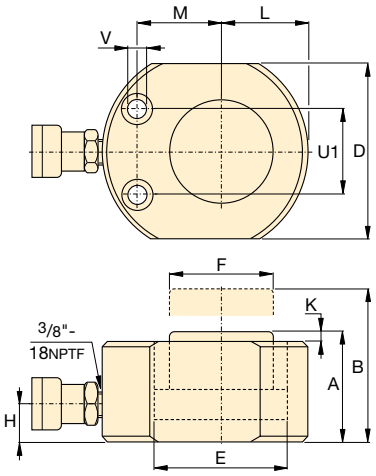
For cylinder model:	Model Number	A	B	C*
RCS-101	CAT-11	1.38	.43	.83
RCS-201, -302, -502	CAT-51	1.97	.59	1.14
RCS-1002	CAT-101	2.80	.67	1.39



* "C" dimension equals saddle protrusion from plunger. Mounting screws are included.



RCS-Series



RSM-Series

* 5° angle position of coupler on RCS-101, 201, 302.

RSM Cylinder Mounting Hole Dimensions (in)

Model Number	Hole Pitch U1	Hole Diam. V	Counter Bore Diam.	Counter Bore Depth
RSM-50	1.12	.20	.312	.17
RSM-100	1.44	.28	.422	.31
RSM-200	1.94	.40	.594	.39
RSM-300	2.06	.40	.625	.44
RSM-500	2.62	.47	.750	.50
RSM-750	3.00	.53	.812	.56
RSM-1000	3.00	.53	.812	.56
RSM-1500	4.62	.53	.812	.56

Collapsed Height A (in)	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Base to Advance Port H (in)	Plunger Protrusion from Base K (in)	Plunger to Base L (in)	Plunger to Mtg. Hole M (in)	Thread O (mm)	Thread Depth P (in)	Bolt Circle U (in)	Weight (lbs)	Model Number
1.28	1.53	2.31 x 1.63	1.13	1.00	.63	.04	.81	.88	–	–	–	2.3	RSM-50*
1.69	2.13	3.25 x 2.19	1.69	1.50	.75	.04	1.09	1.34	–	–	–	3.1	RSM-100
2.03	2.47	4.00 x 3.00	2.38	2.00	.75	.04	1.56	1.56	–	–	–	6.8	RSM-200
2.31	2.81	4.63 x 3.75	2.88	2.50	.75	.08	1.88	1.75	–	–	–	10	RSM-300
2.63	3.25	5.50 x 4.50	3.50	2.75	.75	.08	2.25	2.13	–	–	–	15	RSM-500
3.13	3.75	6.50 x 5.50	4.50	3.25	.75	.08	2.75	2.63	–	–	–	25	RSM-750
3.38	4.00	7.00 x 6.00	5.00	3.63	.75	.08	3.00	2.94	–	–	–	32	RSM-1000
3.94	4.56	8.50 x 7.50	6.25	4.50	.94	.08	3.75	3.25	–	–	–	58	RSM-1500
3.47	4.97	2.75	1.69	1.50	.69	.20	–	–	M4	.32	1.03	9	RCS-101**
3.88	5.63	3.63	2.38	2.00	.69	.13	–	–	M5	.32	1.57	11	RCS-201**
4.63	7.06	4.00	2.88	2.62	.75	.13	–	–	M5	.32	1.57	15	RCS-302**
4.81	7.19	4.88	3.50	2.75	.94	.08	–	–	M5	.32	1.57	24	RCS-502**
5.56	7.81	6.50	5.00	3.63	1.25	.06	–	–	M8	.40	2.17	50	RCS-1002**

Locknut Cylinders
Load Return, LPL-Series

ENERPAC

▼ **LPL-Series, Low-height Lock Nut Cylinders**



- **Lock nut provides mechanical load holding for a safe work environment**
- **Integrated tilt saddle allows for up to 5 degrees of misalignment**
- **Extreme low-height for use in confined areas**
- **Side-load resistance 5-10% of maximum capacity**
- **Overflow port as stroke limiter to prevent plunger blow-out**
- **Single-acting, gravity-return**

The Lowest Power Lifter



Integrated Tilt Saddles
All LPL-Series cylinders include integral tilt saddles with maximum tilt angles up to 5°.

The Summit Edition
Innovation is at the heart of the new Summit Edition cylinders, delivering the high-quality construction that you expect from Enerpac. Their durability ensures your job is done safely and reliably.

- Replaceable plunger support bearing adds support for eccentric loads *
- Nitrocarburization surface treatment for improved load and wear resistance and corrosion protection
- Replaceable composite bearing surrounds the seal, providing support for eccentric loads
- Low-wear, high-pressure seals provide longer service life.

* Eccentric load (or “side-load”) is inevitable in heavy lifting. Enerpac's unique *Summit Edition* features provide the ultimate protection against side load. Increased bearing surface maintains stability, and nitrocarburization treatment prevents scoring on the inside of the cylinder. Side-load poses a real problem.... our new cylinder features are the solution!

▼ *Only the extreme low-height LPL-cylinder fits in this confined area to lift the construction. The lock nut provides positive and safe mechanical load holding over a long period of time.*



Cylinder Capacity (ton)	Stroke (in)	Model Number	Maximum Cylinder Cap. at 10,150 psi (ton)	Side-load Resistance of Maximum Capacity	Cylinder Effective Area (in^2)
60	1.97	**LPL-602**	**68**	10%	13.42
100	1.97	**LPL-1002**	**113**	10%	22.19
150	1.77	**LPL-1602**	**179**	8%	35.18
200	1.77	**LPL-2002**	**223**	8%	43.95
250	1.77	**LPL-2502**	**286**	5%	56.27
400	1.77	**LPL-4002**	**450**	5%	88.75
500	1.77	**LPL-5002**	**575**	5%	113.25

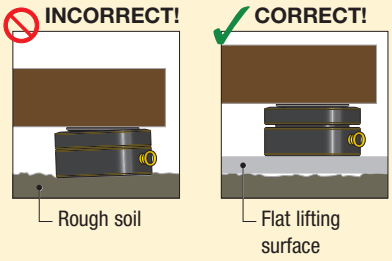
Locknut Cylinders

Load Return, LPL-Series

ENERPAC

IMPORTANT!

All LPL-Series cylinders require a solid lifting surface for correct support. The use of these cylinders on surfaces such as sand, mud or dirt, may result in cylinder damage.



For more safety instructions see our 'Learning Center' on www.enerpac.com

LPL Series



Capacity:
60 - 500 ton

Stroke:
1.77 - 1.97 inch

Maximum Operating Pressure:
10,150 psi



Longer Stroke Lock-Nut Cylinders

For longer stroke applications HCL-Series Lock-Nut Cylinders are the perfect choice.



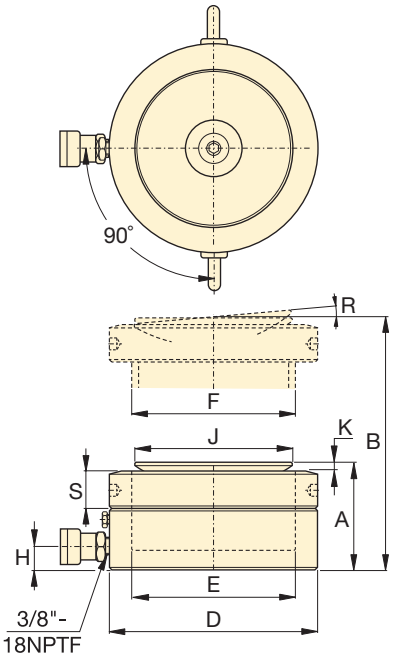
Split-Flow Pumps

SFP-Series pumps with multiple outlets with equal oil flow. For lifting and lowering applications on multiple points these pumps are a far better alternative than using separately operated pumps.



Synchronous Lifting Systems

Pumps for multiple lift-point capabilities. The economical **EVOB-Series** for basic applications and the multi-functional **EVO-Series** lifting system.



Oil Capacity (in³)	Collapsed Height A (in)	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (mm)	Base to Advance Port H (in)	Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Saddle Max. Tilt Angle R (degrees)	Lock Nut Height S (in)	Wt. (lbs)	Model Number
26.4	4.94	6.91	5.51	4.13	Tr 105 x 4	0.75	3.78	0.26	5°	1.10	33	LPL-602
43.7	5.39	7.36	6.81	5.31	Tr 135 x 6	0.83	4.96	0.31	5°	1.22	54	LPL-1002
62.3	5.83	7.60	8.66	6.69	Tr 170 x 6	1.06	6.30	0.35	5°	1.57	94	LPL-1602
77.9	6.10	7.87	9.65	7.48	Tr 190 x 6	1.18	7.09	0.39	5°	1.69	121	LPL-2002
99.7	6.24	8.01	10.83	8.46	Tr 215 x 6	1.26	7.87	0.45	5°	1.69	155	LPL-2502
157.2	7.01	8.78	13.78	10.63	Tr 270 x 6	1.56	9.84	0.45	4°	2.17	284	LPL-4002
200.6	7.56	9.33	15.75	12.01	Tr 305 x 6	1.91	11.42	0.39	3°	2.42	404	LPL-5002

High Tonnage Cylinders

Single Acting, Double-Acting, Lock Nut

ENERPAC

▼ HCL-1006, HCG-2006, HCR-506



Reaching the Summit Edition:

Substrate bonded multi-layer treatment

- **Hardened surface resists side-loading and cyclic wear**
- **Weather protected, inside and out**
- **Low-friction locking rings spin easy, save time and effort [1)]**

Enclosed polymer bearing system

- **Upper and lower bearings enclose the cylinder plunger for support and are able to be replaced along with seals and other soft parts**
- **State-of-the-art bearing material provides maximum conformity to reduce wear and avoid bore damage even in high side-load conditions**

Low-wear, high-pressure seals

- **Improved geometry and material selection increases seal performance even in harsh conditions**
- **Low friction improves retraction times**

Versatile

- **Over 200 models in four configurations [1)]**
- **Certified lifting eyes, base mounting holes and collar threads are included for secure handling and cylinder mounting [1)]**

[1)] See specific model's technical data for more information.

Highest Level of Durability

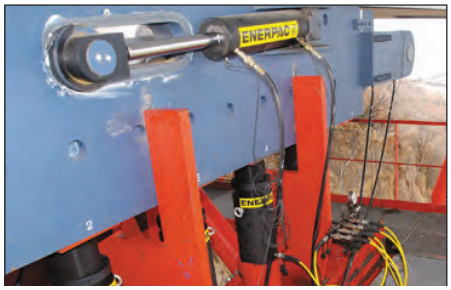
The Summit Edition

Innovation is at the heart of the new *Summit Edition* of cylinders, delivering the high quality construction that you expect from Enerpac. The durability ensures your job gets done safely and reliably.

- Plunger support bearing adds support for eccentric loads [2)]
- Nitrocarburization surface treatment for improved wear resistance and corrosion protection
- Replaceable composite bearings surround the seal providing support for eccentric loads
- Low-wear, high-pressure seals provide longer service life

[2)] Eccentric load (or "side-load") is inevitable in heavy lifting. Our unique Summit Edition features provide the ultimate protection against side-load. Increased bearing surface maintains stability, and nitrocarburization treatment prevents scoring on the inside of the cylinder. Side-load poses a real problem.... our new cylinder features are the solution!

▼ *Bridge lifting and launching system. The load is balanced on groups of lock nut cylinders. The hydraulic movements are synchronized using the Enerpac PLC-controlled synchronous lift systems.*



High Tonnage Cylinders

Single Acting, Double-Acting, Lock Nut

ENERPAC

High-Tonnage Cylinders

The Enerpac High-Tonnage Cylinders are particularly suitable for (multipoint) lifting applications.

In combination with our state-of-the-art power packs, you will have a world class hydraulic system to perform the most challenging lifting jobs in a safe and professional manner.

HCG, HCR, HCL-Series Cylinders

- 50 - 1000-ton lifting capacity
- 1.97 - 11.81 inch lifting stroke

HCG-Series - single-acting

- gravity-return
- stop-ring to prevent plunger blow-out
- designed to withstand up to 10% side-load of maximum capacity

HCR-Series - double-acting

- hydraulic advance and retract for controlled movement
- designed to withstand up to 10% side-load of maximum capacity

HCL-Series - lock nut, single-acting

- gravity-return
- lock nut for mechanical load holding
- overflow port to prevent plunger blow out
- designed to withstand 10% side-load up to 90% of maximum stroke

LPL-Series - lock nut, low height, single-acting

- 60 - 500-ton lifting capacity
- 1.77 - 1.97 inch lifting stroke
- integrated tilt saddle
- gravity-return
- lock nut for mechanical load holding
- 5-10% side-load of maximum capacity

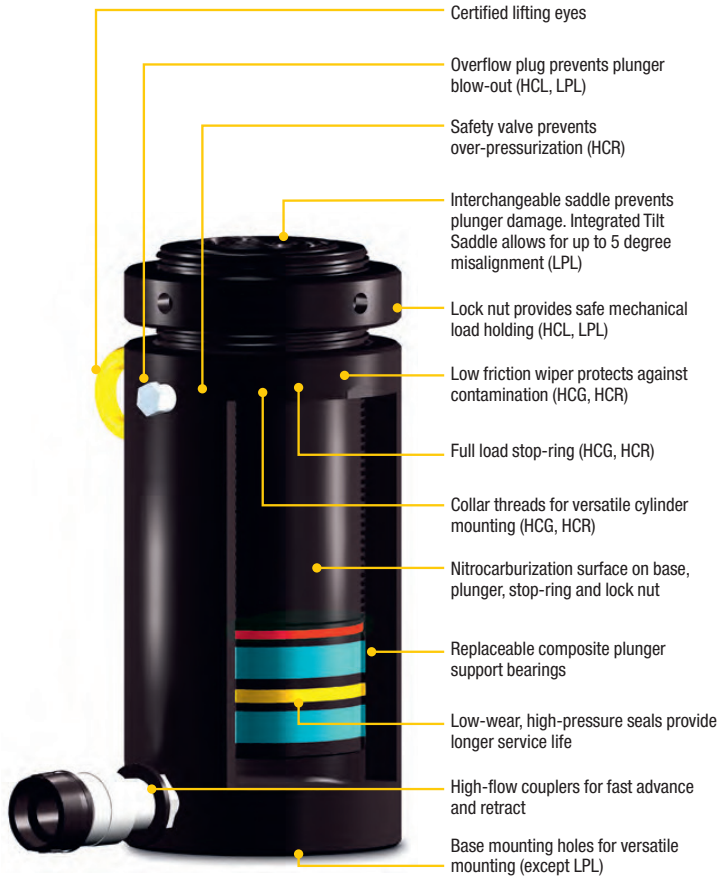
HCG HCR HCL Series



Capacity:
50 - 1000 ton

Stroke:
1.77 - 11.81 inch.

Maximum Operating Pressure:
10,150 psi





Assisted-Return Pumps

Enerpac HCG, HCL and LPL-Series cylinders are hydraulic advance and gravity-return. To improve productivity and plunger retraction Enerpac offers assisted return on ZU4 and ZE-Series pumps featuring Enerpac Venturi valve technology, specifically to facilitate the faster return of single-acting, gravity-return cylinders. See enerpac.com for details.



Split-Flow Pumps

SFP-Series pumps with multiple outlets with equal oil flow. For lifting and lowering applications on multiple points, these pumps are a far better alternative than using separately operated pumps.



Synchronous Lifting Systems

Pumps for multiple lift-point capabilities. The economical **EVOB-Series** for basic applications and the multi-functional **EVO-Series** lifting system.

High Tonnage Cylinders

Single Acting, Double-Acting, Lock Nut

ENERPAC





QUICK SELECTION			HCG-Series		HCR-Series		HCL-Series	
Cylinder Capacity (ton)	Stroke (in)	Maximum Cylinder Capacity at 10,150 psi (ton)	Model Number Single-Acting	Collapsed Height (in)	Model Number Double-Acting	Collapsed Height (in)	Model Number Single-Acting With Lock Nut	Collapsed Height (in)
50	1.97	62	HCG-502	7.20	HCR-502	7.20	HCL-502	6.46
	3.94		HCG-504	9.17	HCR-504	9.17	HCL-504	8.43
	5.91		HCG-506	11.14	HCR-506	11.14	HCL-506	10.39
	7.87		HCG-508	13.62	HCR-508	13.62	HCL-508	12.36
	9.84		HCG-5010	15.59	HCR-5010	15.59	HCL-5010	14.33
	11.81		HCG-5012	17.56	HCR-5012	17.56	HCL-5012	16.30
100	1.97	113	HCG-1002	7.95	HCR-1002	7.95	HCL-1002	7.36
	3.94		HCG-1004	9.92	HCR-1004	9.92	HCL-1004	9.33
	5.91		HCG-1006	11.89	HCR-1006	11.89	HCL-1006	11.30
	7.87		HCG-1008	14.92	HCR-1008	14.92	HCL-1008	13.27
	9.84		HCG-10010	16.89	HCR-10010	16.89	HCL-10010	15.24
	11.81		HCG-10012	18.86	HCR-10012	18.86	HCL-10012	17.20
150	1.97	168	HCG-1502	8.66	HCR-1502	8.66	HCL-1502	8.23
	3.94		HCG-1504	10.63	HCR-1504	10.63	HCL-1504	10.20
	5.91		HCG-1506	12.60	HCR-1506	12.60	HCL-1506	12.17
	7.87		HCG-1508	15.63	HCR-1508	15.63	HCL-1508	14.13
	9.84		HCG-15010	17.60	HCR-15010	17.60	HCL-15010	16.10
	11.81		HCG-15012	19.57	HCR-15012	19.57	HCL-15012	18.07
200	1.97	223	HCG-2002	9.09	HCR-2002	9.09	HCL-2002	9.37
	3.94		HCG-2004	11.06	HCR-2004	11.06	HCL-2004	11.34
	5.91		HCG-2006	13.03	HCR-2006	13.03	HCL-2006	13.31
	7.87		HCG-2008	16.06	HCR-2008	16.06	HCL-2008	15.28
	9.84		HCG-20010	18.03	HCR-20010	18.03	HCL-20010	17.24
	11.81		HCG-20012	20.00	HCR-20012	20.00	HCL-20012	19.21
250	1.97	286	HCG-2502	9.49	HCR-2502	9.49	HCL-2502	9.80
	3.94		HCG-2504	11.46	HCR-2504	11.46	HCL-2504	11.77
	5.91		HCG-2506	13.43	HCR-2506	13.43	HCL-2506	13.74
	7.87		HCG-2508	16.97	HCR-2508	16.97	HCL-2508	15.71
	9.84		HCG-25010	18.94	HCR-25010	18.94	HCL-25010	17.68
	11.81		HCG-25012	20.91	HCR-25012	20.91	HCL-25012	19.65
300	1.97	341	HCG-3002	11.65	HCR-3002	11.65	HCL-3002	10.94
	3.94		HCG-3004	13.62	HCR-3004	13.62	HCL-3004	12.91
	5.91		HCG-3006	15.59	HCR-3006	15.59	HCL-3006	14.88
	7.87		HCG-3008	17.56	HCR-3008	17.56	HCL-3008	16.85
	9.84		HCG-30010	19.53	HCR-30010	19.53	HCL-30010	18.82
	11.81		HCG-30012	21.50	HCR-30012	21.50	HCL-30012	20.79

High Tonnage Cylinders

Single Acting, Double-Acting, Lock Nut

ENERPAC

Capacity:
50 - 1000 ton

Stroke:
1.97 - 11.81 inch

Maximum Operating Pressure:
10,150 psi

HCG
HCR
HCL
Series









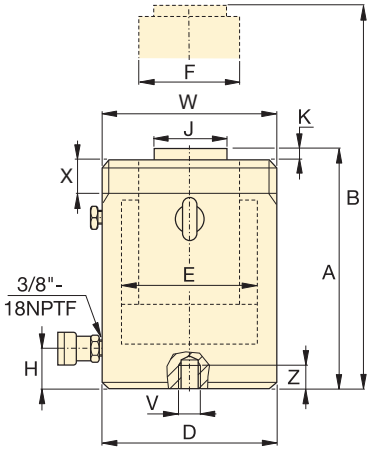
QUICK SELECTION

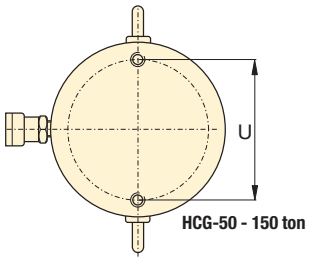
Cylinder Capacity (ton)	Stroke (in)	Maximum Cylinder Capacity at 10,150 psi (ton)	HCG-Series Model Number Single-Acting	HCG-Series Collapsed Height (in)	HCR-Series Model Number Double-Acting	HCR-Series Collapsed Height (in)	HCL-Series Model Number Single-Acting With Lock Nut	HCL-Series Collapsed Height (in)
400	1.97	450	HCG-4002	12.64	HCR-4002	12.64	HCL-4002	12.48
	3.94		HCG-4004	14.61	HCR-4004	14.61	HCL-4004	14.45
	5.91		HCG-4006	16.57	HCR-4006	16.57	HCL-4006	16.42
	7.87		HCG-4008	18.54	HCR-4008	18.54	HCL-4008	18.39
	9.84		HCG-40010	20.51	HCR-40010	20.51	HCL-40010	20.35
	11.81		HCG-40012	22.48	HCR-40012	22.48	HCL-40012	22.32
500	1.97	575	HCG-5002	13.54	HCR-5002	13.54	HCL-5002	14.06
	3.94		HCG-5004	15.51	HCR-5004	15.51	HCL-5004	16.02
	5.91		HCG-5006	17.48	HCR-5006	17.48	HCL-5006	17.99
	7.87		HCG-5008	19.45	HCR-5008	19.45	HCL-5008	19.96
	9.84		HCG-50010	21.42	HCR-50010	21.42	HCL-50010	21.93
	11.81		HCG-50012	23.39	HCR-50012	23.39	HCL-50012	23.90
600	1.97	673	HCG-6002	13.86	HCR-6002	13.86	HCL-6002	14.96
	3.94		HCG-6004	15.83	HCR-6004	15.83	HCL-6004	16.93
	5.91		HCG-6006	17.80	HCR-6006	17.80	HCL-6006	18.90
	7.87		HCG-6008	19.76	HCR-6008	19.76	HCL-6008	20.87
	9.84		HCG-60010	21.73	HCR-60010	21.73	HCL-60010	22.83
	11.81		HCG-60012	23.70	HCR-60012	23.70	HCL-60012	24.80
800	1.97	916	HCG-8002	15.91	HCR-8002	15.91	HCL-8002	16.93
	3.94		HCG-8004	17.87	HCR-8004	17.87	HCL-8004	18.90
	5.91		HCG-8006	19.84	HCR-8006	19.84	HCL-8006	20.87
	7.87		HCG-8008	21.81	HCR-8008	21.81	HCL-8008	22.83
	9.84		HCG-80010	23.78	HCR-80010	23.78	HCL-80010	24.80
	11.81		HCG-80012	25.75	HCR-80012	25.75	HCL-80012	26.77
1000	1.97	1196	HCG-10002	17.40	HCR-10002	17.40	HCL-10002	19.06
	3.94		HCG-10004	19.37	HCR-10004	19.37	HCL-10004	21.02
	5.91		HCG-10006	21.34	HCR-10006	21.34	HCL-10006	22.99
	7.87		HCG-10008	23.31	HCR-10008	23.31	HCL-10008	24.96
	9.84		HCG-100010	25.28	HCR-100010	25.28	HCL-100010	26.93
	11.81		HCG-100012	27.24	HCR-100012	27.24	HCL-100012	28.90

High Tonnage Cylinders

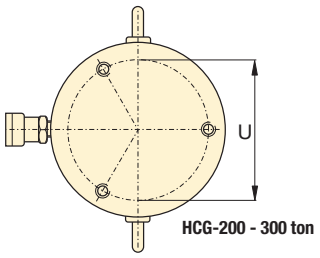
Single Acting, Load Return

ENERPAC





HCG-50 - 150 ton



HCG-200 - 300 ton

HCG-Series, Single-Acting, Gravity-Return Cylinders

- **Hardened surface resists side-loading and cyclic wear**
- **Designed to withstand up to 10% side-load of maximum capacity 1)**
- **Stop-ring to prevent plunger blow-out**
- **Weather protected, inside and out**
- **Upper and lower replaceable bearings enclose the cylinder plunger for support throughout the stroke**
- **Certified lifting eyes, base mounting holes and collar threads**

SELECTION CHART 50 – 300-TON HCG-MODELS
For 400 – 1000-ton models, see pages 42-43.
For full product features see pages 36-37.

Cylinder Capacity (ton)	Stroke (in)	Model Number	Maximum Cylinder Capacity at 10,150 psi (ton)	Cylinder Effective Area (in²)	Oil Capacity (in³)	Collapsed Height A (in)
50	1.97	HCG-502	62	12.17	23.96	7.20
	3.94	HCG-504			47.93	9.17
	5.91	HCG-506 1)			71.89	11.14
	7.87	HCG-508			95.86	13.62
	9.84	HCG-5010			119.82	15.59
	11.81	HCG-5012 1)			143.78	17.56
100	1.97	HCG-1002	113	22.19	43.67	7.95
	3.94	HCG-1004			87.35	9.92
	5.91	HCG-1006			131.02	11.89
	7.87	HCG-1008			174.70	14.92
	9.84	HCG-10010			218.37	16.89
	11.81	HCG-10012			262.05	18.86
150	1.97	HCG-1502	168	33.14	65.24	8.66
	3.94	HCG-1504			130.48	10.63
	5.91	HCG-1506			195.73	12.60
	7.87	HCG-1508			260.97	15.63
	9.84	HCG-15010			326.21	17.60
	11.81	HCG-15012			391.45	19.57
200	1.97	HCG-2002	223	43.95	86.51	9.09
	3.94	HCG-2004			173.02	11.06
	5.91	HCG-2006			259.53	13.03
	7.87	HCG-2008			346.04	16.06
	9.84	HCG-20010			432.55	18.03
	11.81	HCG-20012			519.06	20.00
250	1.97	HCG-2502	286	56.27	110.77	9.49
	3.94	HCG-2504			221.55	11.46
	5.91	HCG-2506			332.32	13.43
	7.87	HCG-2508			443.09	16.97
	9.84	HCG-25010			553.87	18.94
	11.81	HCG-25012			664.64	20.91
300	1.97	HCG-3002	341	67.23	132.34	11.65
	3.94	HCG-3004			264.68	13.62
	5.91	HCG-3006			397.02	15.59
	7.87	HCG-3008			529.36	17.56
	9.84	HCG-30010			661.71	19.53
	11.81	HCG-30012			794.05	21.50

1) HCG-506 and HCG-5012: 7% side-load of maximum capacity.

Collar Thread (in)

Model / Capacity (ton)	Thread Size W	Thread Length X
HCG-50	M130 x 2	1.18
HCG-100	M175 x 3	1.81
HCG-150	M215 x 3	2.17
HCG-200	M250 x 3	2.48
HCG-250	M280 x 3	2.52
HCG-300	M305 x 3	2.87

The collar thread length is designed for the full rated cylinder capacity.

Base Mounting Holes (in)

Model / Capacity (ton)	Bolt Circle U	Thread Size V	Minimum Thread Depth Z	Number of Holes	Angle from Coupler
HCG-50	4.13	M12 x 1,75	0.87	2	90°
HCG-100	5.91	M12 x 1,75	0.87	2	90°
HCG-150	7.28	M12 x 1,75	0.87	2	90°
HCG-200	8.46	M12 x 1,75	0.87	3	60°
HCG-250	9.65	M12 x 1,75	0.87	3	60°
HCG-300	10.24	M16 x 2	0.98	3	60°

High Tonnage Cylinders

Single Acting, Load Return

ENERPAC

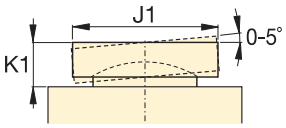
Capacity:
50 - 300 ton

Stroke:
1.97 - 11.81 inch

Maximum Operating Pressure:
10,150 psi

HCG Series





CATG-Series Tilt Saddle

Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Base to Advance Port H (in)	Standard Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Wt. (lbs)	Model Number	Optional Tilt Saddle: Diameter J1 (in)	Optional Tilt Saddle: Height K1 (in)	Optional Tilt Saddle: Saddle Model Number
9.17	5.12	3.94	2.76	1.50	1.97	0.12	37	HCG-502	1.97	0.94	CATG-50
13.11							45	HCG-504			
17.05							53	HCG-506 1)			
21.50							64	HCG-508			
25.43							72	HCG-5010			
29.37							80	HCG-5012 1)			
9.92	6.89	5.31	3.74	1.50	2.95	0.12	73	HCG-1002	2.87	1.14	CATG-100
13.86							88	HCG-1004			
17.80							102	HCG-1006			
22.80							128	HCG-1008			
26.73							142	HCG-10010			
30.67							157	HCG-10012 1)			
10.63	8.46	6.50	4.72	1.61	3.70	0.12	123	HCG-1502	3.57	1.22	CATG-150
14.57							145	HCG-1504			
18.50							168	HCG-1506			
23.50							207	HCG-1508			
27.44							230	HCG-15010			
31.38							253	HCG-15012			
11.06	9.84	7.48	5.51	1.85	4.45	0.12	178	HCG-2002	4.64	1.37	CATG-200
15.00							209	HCG-2004			
18.94							240	HCG-2006			
23.94							300	HCG-2008			
27.87							331	HCG-20010			
31.81							363	HCG-20012			
11.46	11.02	8.46	6.69	2.09	5.71	0.16	235	HCG-2502	5.67	1.85	CATG-250
15.39							277	HCG-2504			
19.33							318	HCG-2506			
24.84							401	HCG-2508			
28.78							442	HCG-25010			
32.72							484	HCG-25012			
13.62	12.01	9.25	7.87	2.28	6.97	0.16	348	HCG-3002	6.30	2.51	CATG-300
17.56							401	HCG-3004			
21.50							454	HCG-3006			
25.43							507	HCG-3008			
29.37							560	HCG-30010			
33.31							613	HCG-30012			

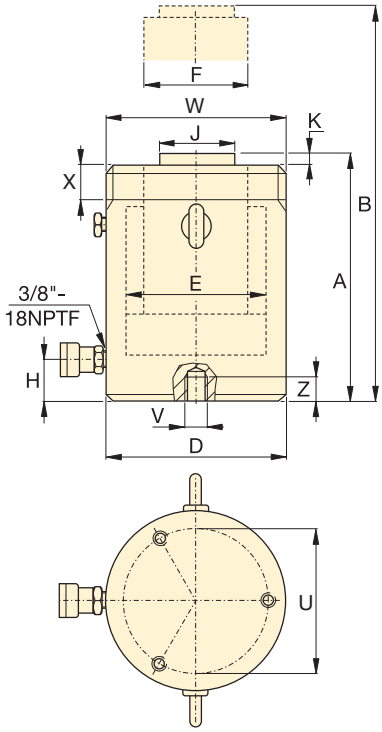
High Tonnage Cylinders

Single Acting, Load Return

ENERPAC

HCG-Series, Single-Acting, Gravity-Return Cylinders

- **Hardened surface resists side-loading and cyclic wear**
- **Designed to withstand up to 10% side-load of maximum capacity**
- **Stop-ring to prevent plunger blow-out**
- **Weather protected, inside and out**
- **Upper and lower replaceable bearings enclose the cylinder plunger for support throughout the stroke**
- **Certified lifting eyes, base mounting holes and collar threads**



SELECTION CHART 400 – 1000-TON HCG-MODELS
For 50 – 300-ton models, see pages 40-41.
For full product features see pages 36-37.

Cylinder Capacity (ton)	Stroke (in)	Model Number	Maximum Cylinder Capacity at 10,150 psi (ton)	Cylinder Effective Area (in^2)	Oil Capacity (in^3)	Collapsed Height A (in)
400	1.97	HCG-4002	450	88.75	174.70	12.64
	3.94	HCG-4004			349.39	14.61
	5.91	HCG-4006			524.09	16.57
	7.87	HCG-4008			698.79	18.54
	9.84	HCG-40010			873.49	20.51
	11.81	HCG-40012			1,048.18	22.48
500	1.97	HCG-5002	575	113.25	222.92	13.54
	3.94	HCG-5004			445.85	15.51
	5.91	HCG-5006			668.77	17.48
	7.87	HCG-5008			891.70	19.45
	9.84	HCG-50010			1,114.62	21.42
	11.81	HCG-50012			1,337.55	23.39
600	1.97	HCG-6002	673	132.57	260.97	13.86
	3.94	HCG-6004			521.94	15.83
	5.91	HCG-6006			782.90	17.80
	7.87	HCG-6008			1,043.87	19.76
	9.84	HCG-60010			1,304.84	21.73
	11.81	HCG-60012			1,565.81	23.70
800	1.97	HCG-8002	916	180.44	355.21	15.91
	3.94	HCG-8004			710.41	17.87
	5.91	HCG-8006			1,065.62	19.84
	7.87	HCG-8008			1,420.82	21.81
	9.84	HCG-80010			1,776.03	23.78
	11.81	HCG-80012			2,131.24	25.75
1000	1.97	HCG-10002	1196	235.68	463.94	17.40
	3.94	HCG-10004			927.88	19.37
	5.91	HCG-10006			1,391.83	21.34
	7.87	HCG-10008			1,855.77	23.31
	9.84	HCG-100010			2,319.71	25.28
	11.81	HCG-100012			2,783.65	27.24

Collar Thread (in)

Model / Capacity (ton)	Thread Size W	Thread Length X
HCG-400	M350 x 3	3.27
HCG-500	M400 x 4	3.54
HCG-600	M430 x 4	3.94
HCG-800	M505 x 5	4.80
HCG-1000	M570 x 5	5.39

The collar thread length is designed for the full rated cylinder capacity.

Base Mounting Holes (in)

Model / Capacity (ton)	Bolt Circle U	Thread Size V	Minimum Thread Depth Z	Number of Holes	Angle from Coupler
HCG-400	11.81	M16 x 2	0.98	3	60°
HCG-500	13.39	M24 x 3	1.42	3	60°
HCG-600	14.57	M24 x 3	1.42	3	60°
HCG-800	17.32	M24 x 3	1.42	3	60°
HCG-1000	19.69	M24 x 3	1.42	3	60°

High Tonnage Cylinders

Single Acting, Load Return

ENERPAC



▲ *Offshore wind turbine leveling: Enerpac's synchronous lifting system was the solution for leveling support cross pieces on 80 wind turbines.*

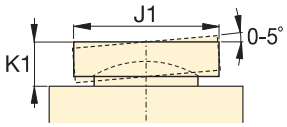
HCG Series



Capacity:
400 - 1000 ton

Stroke:
1.97 - 11.81 inch

Maximum Operating Pressure:
10,150 psi

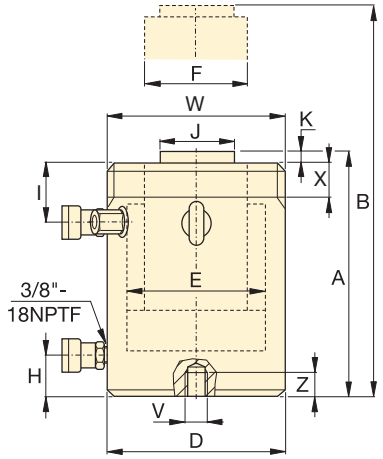


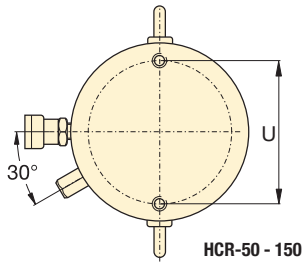
CATG-Series Tilt Saddle

Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Base to Advance Port H (in)	Standard Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Wt. (lbs)	Model Number	Optional Tilt Saddle: Diameter J1 (in)	Optional Tilt Saddle: Height K1 (in)	Optional Tilt Saddle: Saddle Model Number
14.61	13.78	10.63	8.66	2.91	7.72	0.16	500	HCG-4002	7.59	2.32	CATG-400
18.54							566	HCG-4004			
22.48							633	HCG-4006			
26.42							699	HCG-4008			
30.35							766	HCG-40010			
34.29							833	HCG-40012			
15.51	15.75	12.01	9.84	3.11	8.98	0.16	704	HCG-5002	8.98	2.48	CATG-500
19.45							792	HCG-5004			
23.39							880	HCG-5006			
27.32							968	HCG-5008			
31.26							1,056	HCG-50010			
35.20							1,144	HCG-50012			
15.83	16.93	12.99	10.63	3.35	9.72	0.16	834	HCG-6002	9.47	3.08	CATG-600
19.76							935	HCG-6004			
23.70							1,036	HCG-6006			
27.64							1,137	HCG-6008			
31.57							1,239	HCG-60010			
35.51							1,340	HCG-60012			
17.87	19.88	15.16	12.60	3.94	11.69	0.16	1,336	HCG-8002	11.28	3.41	CATG-800
21.81							1,479	HCG-8004			
25.75							1,621	HCG-8006			
29.69							1,763	HCG-8008			
33.62							1,905	HCG-80010			
37.56							2,047	HCG-80012			
19.37	22.44	17.32	13.39	4.49	12.72	0.16	1,852	HCG-10002	12.26	3.65	CATG-1000
23.31							2,020	HCG-10004			
27.24							2,188	HCG-10006			
31.18							2,355	HCG-10008			
35.12							2,523	HCG-100010			
39.06							2,691	HCG-100012			

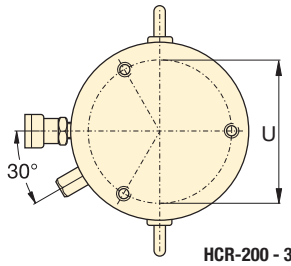
High Tonnage Cylinders
Double-Acting

ENERPAC





HCR-50 - 150 ton



HCR-200 - 300 ton

HCR-Series, Double-Acting Cylinders

- **Fast advance and retract**
- **Designed to withstand up to 10% side-load of maximum capacity** 1)
- **Hardened surface resists side-loading and cyclic wear**
- **Weather protected, inside and out**
- **Upper and lower replaceable bearings enclose the cylinder plunger for support throughout the stroke**
- **Certified lifting eyes, base mounting holes and collar threads**

SELECTION CHART AND DETAILS OF 50 – 300-TON HCR-MODELS
For 400 – 1000-ton models, see pages 46-47.
For full product features see pages 36-37

Cylinder Capacity (ton)	Stroke (in)	Model Number	Maximum Cylinder Capacity at 10,150 psi (ton)	Cylinder Effective Area (in^2)	Oil Capacity (in^3)	Collapsed Height A (in)
50	1.97	HCR-502	62	12.17	23.96	7.20
	3.94	HCR-504			47.93	9.17
	5.91	HCR-506 1)			71.89	11.14
	7.87	HCR-508			95.86	13.62
	9.84	HCR-5010			119.82	15.59
	11.81	HCR-5012 1)			143.78	17.56
100	1.97	HCR-1002	113	22.19	43.67	7.95
	3.94	HCR-1004			87.35	9.92
	5.91	HCR-1006			131.02	11.89
	7.87	HCR-1008			174.70	14.92
	9.84	HCR-10010			218.37	16.89
	11.81	HCR-10012			262.05	18.86
150	1.97	HCR-1502	168	33.14	65.24	8.66
	3.94	HCR-1504			130.48	10.63
	5.91	HCR-1506			195.73	12.60
	7.87	HCR-1508			260.97	15.63
	9.84	HCR-15010			326.21	17.60
	11.81	HCR-15012			391.45	19.57
200	1.97	HCR-2002	223	43.95	86.51	9.09
	3.94	HCR-2004			173.02	11.06
	5.91	HCR-2006			259.53	13.03
	7.87	HCR-2008			346.04	16.06
	9.84	HCR-20010			432.55	18.03
	11.81	HCR-20012			519.06	20.00
250	1.97	HCR-2502	286	56.27	110.77	9.49
	3.94	HCR-2504			221.55	11.46
	5.91	HCR-2506			332.32	13.43
	7.87	HCR-2508			443.09	16.97
	9.84	HCR-25010			553.87	18.94
	11.81	HCR-25012			664.64	20.91
300	1.97	HCR-3002	341	67.23	132.34	11.65
	3.94	HCR-3004			264.68	13.62
	5.91	HCR-3006			397.02	15.59
	7.87	HCR-3008			529.36	17.56
	9.84	HCR-30010			661.71	19.53
	11.81	HCR-30012			794.05	21.50

1) HCR-506 and HCR-5012: 7% side-load of maximum capacity.

Collar Thread (in)		
Model / Capacity (ton)	Thread Size W	Thread Length X
HCR-50	M130 x 2	1.18
HCR-100	M175 x 3	1.81
HCR-150	M215 x 3	2.17
HCR-200	M250 x 3	2.48
HCR-250	M280 x 3	2.52
HCR-300	M305 x 3	2.87

The collar thread length is designed for the full rated cylinder capacity.

Base Mounting Holes (in)					
Model / Capacity (ton)	Bolt Circle U	Thread Size V	Minimum Thread Depth Z	No. of Holes	Angle from Coupler
HCR-50	4.13	M12 x 1,75	0.87	2	90°
HCR-100	5.91	M12 x 1,75	0.87	2	90°
HCR-150	7.28	M12 x 1,75	0.87	2	90°
HCR-200	8.46	M12 x 1,75	0.87	3	60°
HCR-250	9.65	M12 x 1,75	0.87	3	60°
HCR-300	10.24	M16 x 2	0.98	3	60°

High Tonnage Cylinders
Double-Acting

ENERPAC

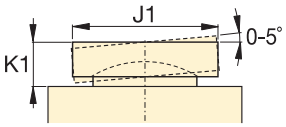
Capacity:
50 - 300 ton

Stroke:
1.97 - 11.81 inch

Maximum Operating Pressure:
10,150 psi

HCR Series





CATG-Series Tilt Saddle

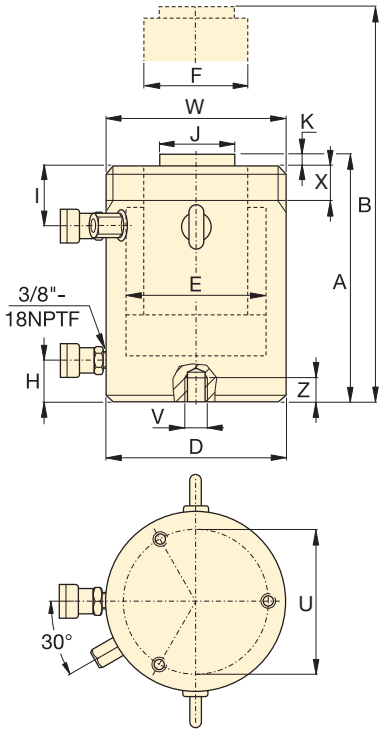
	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Base to Advance Port H (in)	Top to Retract Port I (in)	Standard Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Wt. (lbs)	Model Number	Optional Tilt Saddle Diameter J1 (in)	Optional Tilt Saddle Height K1 (in)	Optional Tilt Saddle Model Number
	9.17	5.12	3.94	2.76	1.50	1.77	1.97	0.12	37	HCR-502	1.97	0.94	CATG-50
	13.11								46	HCR-504			
	17.05								54	HCR-506 1)			
	21.50					2.17			68	HCR-508			
	25.43								76	HCR-5010			
	29.37								84	HCR-5012 1)			
	9.92	6.89	5.31	3.74	1.50	2.56	2.95	0.12	74	HCR-1002	2.87	1.14	CATG-100
	13.86								90	HCR-1004			
	17.80								105	HCR-1006			
	22.80					3.15			131	HCR-1008			
	26.73								146	HCR-10010			
	30.67								161	HCR-10012			
	10.63	8.46	6.50	4.72	1.61	2.76	3.70	0.12	124	HCR-1502	3.57	1.22	CATG-150
	14.57								148	HCR-1504			
	18.50								172	HCR-1506			
	23.50					3.54			209	HCR-1508			
	27.44								233	HCR-15010			
	31.38								257	HCR-15012			
	11.06	9.84	7.48	5.51	1.85	3.11	4.45	0.12	179	HCR-2002	4.64	1.37	CATG-200
	15.00								212	HCR-2004			
	18.94								244	HCR-2006			
	23.94					3.82			306	HCR-2008			
	27.87								338	HCR-20010			
	31.81								371	HCR-20012			
	11.46	11.02	8.46	6.69	2.09	3.11	5.71	0.16	236	HCR-2502	5.67	1.85	CATG-250
	15.39								279	HCR-2504			
	19.33								322	HCR-2506			
	24.84					4.09			407	HCR-2508			
	28.78								457	HCR-25010			
	32.72								500	HCR-25012			
	13.62	12.01	9.25	7.87	2.28	3.98	6.97	0.16	350	HCR-3002	6.30	2.51	CATG-300
	17.56								404	HCR-3004			
	21.50								458	HCR-3006			
	25.43								512	HCR-3008			
	29.37								566	HCR-30010			
	33.31								620	HCR-30012			

High Tonnage Cylinders
Double-Acting

ENERPAC

HCR-Series, Double-Acting Cylinders

- Fast advance and retract
- Designed to withstand up to 10% side-load of maximum capacity
- Hardened surface resists side-loading and cyclic wear
- Weather protected, inside and out
- Upper and lower replaceable bearings enclose the cylinder plunger for support throughout the stroke
- Certified lifting eyes, base mounting holes and collar threads



SELECTION CHART AND DETAILS OF 400 – 1000-TON HCR-MODELS

For 50 – 300-ton models, see pages 44-45.
For full product features see pages 36-37.

Cylinder Capacity (ton)	Stroke (in)	Model Number	Maximum Cylinder Capacity at 10,150 psi (ton)	Cylinder Effective Area (in^2)	Oil Capacity (in^3)	Collapsed Height A (in)
400	1.97	HCR-4002	450	88.75	174.70	12.64
	3.94	HCR-4004			349.39	14.61
	5.91	HCR-4006			524.09	16.57
	7.87	HCR-4008			698.79	18.54
	9.84	HCR-40010			873.49	20.51
	11.81	HCR-40012			1,048.18	22.48
500	1.97	HCR-5002	575	113.25	222.92	13.54
	3.94	HCR-5004			445.85	15.51
	5.91	HCR-5006			668.77	17.48
	7.87	HCR-5008			891.70	19.45
	9.84	HCR-50010			1,114.62	21.42
	11.81	HCR-50012			1,337.55	23.39
600	1.97	HCR-6002	673	132.57	260.97	13.86
	3.94	HCR-6004			521.94	15.83
	5.91	HCR-6006			782.90	17.80
	7.87	HCR-6008			1,043.87	19.76
	9.84	HCR-60010			1,304.84	21.73
	11.81	HCR-60012			1,565.81	23.70
800	1.97	HCR-8002	916	180.44	355.21	15.91
	3.94	HCR-8004			710.41	17.87
	5.91	HCR-8006			1,065.62	19.84
	7.87	HCR-8008			1,420.82	21.81
	9.84	HCR-80010			1,776.03	23.78
	11.81	HCR-80012			2,131.24	25.75
1000	1.97	HCR-10002	1196	235.68	463.94	17.40
	3.94	HCR-10004			927.88	19.37
	5.91	HCR-10006			1,391.83	21.34
	7.87	HCR-10008			1,855.77	23.31
	9.84	HCR-100010			2,319.71	25.28
	11.81	HCR-100012			2,783.65	27.24

Collar Thread (in)

Model / Capacity (ton)	Thread Size W	Thread Length X
HCR-400	M350 x 3	3.27
HCR-500	M400 x 4	3.54
HCR-600	M430 x 4	3.94
HCR-800	M505 x 5	4.80
HCR-1000	M570 x 5	5.39

The collar thread length is designed for the full rated cylinder capacity.

Base Mounting Holes (in)

Model / Capacity (ton)	Bolt Circle U	Thread Size V	Min. Thread Depth Z	Number of Holes	Angle from Coupler
HCR-400	11.81	M16 x 2	0.98	3	60°
HCR-500	13.39	M24 x 3	1.42	3	60°
HCR-600	14.57	M24 x 3	1.42	3	60°
HCR-800	17.32	M24 x 3	1.42	3	60°
HCR-1000	19.69	M24 x 3	1.42	3	60°

High Tonnage Cylinders
Double-Acting

ENERPAC



▲ *The superlifting and launch of a 43,000 ton floating oil production system in Malaysia for the Gumusut-Kakap offshore field has set high benchmarks for safety through its use of sophisticated EVO-Series synchronous hydraulics to lift, balance, weigh and smoothly launch massive resource structures.*

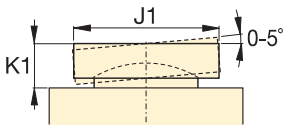
HCR Series



Capacity:
400 - 1000 ton

Stroke:
1.97 - 11.81 inch

Maximum Operating Pressure:
10,150 psi



CATG-Series Tilt Saddle

Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (in)	Base to Advance Port H (in)	Top to Retract Port I (in)	Standard Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Wt. (lbs)	Model Number	Optional Tilt Saddle: Diameter J1 (in)	Optional Tilt Saddle: Height K1 (in)	Optional Tilt Saddle: Saddle Model Number
14.61	13.78	10.63	8.66	2.91	4.37	7.72	0.16	501	HCR-4002	7.59	2.32	CATG-400
18.54								570	HCR-4004			
22.48								638	HCR-4006			
26.42								707	HCR-4008			
30.35								775	HCR-40010			
34.29								843	HCR-40012			
15.51	15.75	12.01	9.84	3.11	4.76	8.98	0.16	706	HCR-5002	8.98	2.48	CATG-500
19.45								797	HCR-5004			
23.39								887	HCR-5006			
27.32								977	HCR-5008			
31.26								1,067	HCR-50010			
35.20								1,158	HCR-50012			
15.83	16.93	12.99	10.63	3.35	4.76	9.72	0.16	836	HCR-6002	9.47	3.08	CATG-600
19.76								940	HCR-6004			
23.70								1,044	HCR-6006			
27.64								1,148	HCR-6008			
31.57								1,252	HCR-60010			
35.51								1,356	HCR-60012			
17.87	19.88	15.16	12.60	3.94	5.63	11.69	0.16	1,340	HCR-8002	11.28	3.41	CATG-800
21.81								1,485	HCR-8004			
25.75								1,631	HCR-8006			
29.69								1,777	HCR-8008			
33.62								1,922	HCR-80010			
37.56								2,068	HCR-80012			
19.37	22.44	17.32	13.39	4.49	6.02	12.72	0.16	1,858	HCR-10002	12.26	3.65	CATG-1000
23.31								2,031	HCR-10004			
27.24								2,205	HCR-10006			
31.18								2,379	HCR-10008			
35.12								2,552	HCR-100010			
39.06								2,726	HCR-100012			

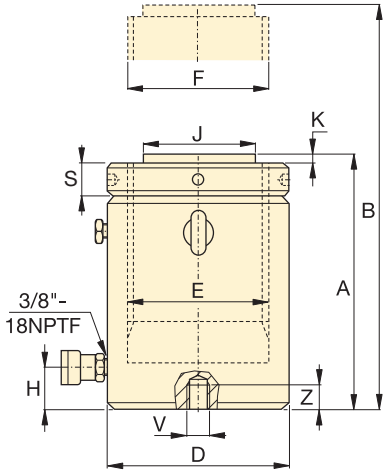
High Tonnage Cylinders

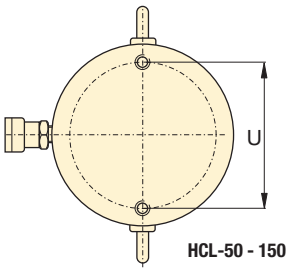
Lock Nut, Load Return

ENERPAC

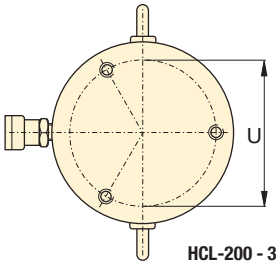
HCL-Series, Single-Acting, Gravity-Return Cylinders

- **Lock nut provides positive and safe mechanical load holding**
- **Low-friction locking rings spin easy, save time and effort**
- **Designed to withstand 10% side-load up to 90% of maximum stroke**
- **Hardened surface resists side-loading and cyclic wear**
- **Overflow port as stroke limiter to prevent plunger blow-out**
- **Weather protected, inside and out**
- **Replaceable bearings enclose the plunger for support throughout the stroke**
- **Certified lifting eyes and base mounting holes**





HCL-50 - 150 ton



HCL-200 - 300 ton

SELECTION CHART 50 – 300-TON HCL-MODELS
For 400 – 1000-ton models, see pages 50-51.
For full product features see pages 36-37.

Cylinder Capacity (ton)	Stroke (in)	Model Number	Maximum Cylinder Capacity at 10,150 psi (ton)	Cylinder Effective Area (in^2)	Oil Capacity (in^3)	Collapsed Height A (in)
50	1.97	HCL-502	62	12.17	23.96	6.46
	3.94	HCL-504			47.93	8.43
	5.91	HCL-506			71.89	10.39
	7.87	HCL-508			95.86	12.36
	9.84	HCL-5010			119.82	14.33
	11.81	HCL-5012			143.78	16.30
100	1.97	HCL-1002	113	22.19	43.67	7.36
	3.94	HCL-1004			87.35	9.33
	5.91	HCL-1006			131.02	11.30
	7.87	HCL-1008			174.70	13.27
	9.84	HCL-10010			218.37	15.24
	11.81	HCL-10012			262.05	17.20
150	1.97	HCL-1502	168	33.14	65.24	8.23
	3.94	HCL-1504			130.48	10.20
	5.91	HCL-1506			195.73	12.17
	7.87	HCL-1508			260.97	14.13
	9.84	HCL-15010			326.21	16.10
	11.81	HCL-15012			391.45	18.07
200	1.97	HCL-2002	223	43.95	86.51	9.37
	3.94	HCL-2004			173.02	11.34
	5.91	HCL-2006			259.53	13.31
	7.87	HCL-2008			346.04	15.28
	9.84	HCL-20010			432.55	17.24
	11.81	HCL-20012			519.06	19.21
250	1.97	HCL-2502	286	56.27	110.77	9.80
	3.94	HCL-2504			221.55	11.77
	5.91	HCL-2506			332.32	13.74
	7.87	HCL-2508			443.09	15.71
	9.84	HCL-25010			553.87	17.68
	11.81	HCL-25012			664.64	19.65
300	1.97	HCL-3002	341	67.23	132.34	10.94
	3.94	HCL-3004			264.68	12.91
	5.91	HCL-3006			397.02	14.88
	7.87	HCL-3008			529.36	16.85
	9.84	HCL-30010			661.71	18.82
	11.81	HCL-30012			794.05	20.79

Base Mounting Holes (in)

Model / Capacity (ton)	Bolt Circle U	Thread Size V	Minimum Thread Depth Z	Number of Holes	Angle from Coupler
HCL-50	4.13	M8X1.25	0.39	2	90˚
HCL-100	5.91	M12X1.75	0.67	2	90˚
HCL-150	7.28	M12X1.75	0.87	2	90˚
HCL-200	8.46	M12X1.75	0.87	3	60˚
HCL-250	9.65	M12X1.75	0.87	3	60˚
HCL-300	10.24	M16X2	0.98	3	60˚

High Tonnage Cylinders

Lock Nut, Load Return

ENERPAC

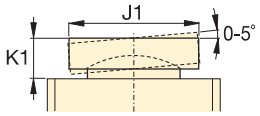
Capacity:
50 - 300 ton

Stroke:
1.97 - 11.81 inch

Maximum Operating Pressure:
10,150 psi

HCL Series





CAT-Series Tilt Saddle

Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (mm)	Base to Advance Port H (in)	Standard Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Lock Nut Height S (in)	Wt. (lbs)	Model Number	Optional Tilt Saddle Diameter J1 (in)	Optional Tilt Saddle Height K1 (in)	Optional Tilt Saddle Model Number
8.43	5.12	3.94	Tr 100 x 4	0.94	2.80	0.08	0.98	37	HCL-502	2.80	0.93	CAT-100
12.36								48	HCL-504			
16.30								60	HCL-506			
20.24								71	HCL-508			
24.17								83	HCL-5010			
28.11								94	HCL-5012			
9.33	6.89	5.31	Tr 135 x 6	1.30	2.80	0.08	1.30	77	HCL-1002	2.80	0.93	CAT-100
13.27								98	HCL-1004			
17.20								118	HCL-1006			
21.14								139	HCL-1008			
25.08								160	HCL-10010			
29.02								181	HCL-10012			
10.20	8.46	6.50	Tr 165 x 6	1.61	5.12	0.08	1.57	130	HCL-1502	5.12	0.76	CAT-200
14.13								161	HCL-1504			
18.07								192	HCL-1506			
22.01								224	HCL-1508			
25.94								255	HCL-15010			
29.88								287	HCL-15012			
11.34	9.84	7.48	Tr 190 x 6	1.85	5.12	0.08	1.77	188	HCL-2002	5.12	0.76	CAT-200
15.28								231	HCL-2004			
19.21								273	HCL-2006			
23.15								316	HCL-2008			
27.09								358	HCL-20010			
31.02								401	HCL-20012			
11.77	11.02	8.46	Tr 215 x 6	2.09	5.91	0.08	2.05	262	HCL-2502	5.91	0.76	CAT-250
15.71								316	HCL-2504			
19.65								369	HCL-2506			
23.58								422	HCL-2508			
27.52								476	HCL-25010			
31.46								529	HCL-25012			
12.91	12.01	9.25	Tr 235 x 6	2.28	5.49	0.08	2.20	348	HCL-3002	7.68	2.86	CAT-300
16.85								411	HCL-3004			
20.79								474	HCL-3006			
24.72								537	HCL-3008			
28.66								601	HCL-30010			
32.60								664	HCL-30012			

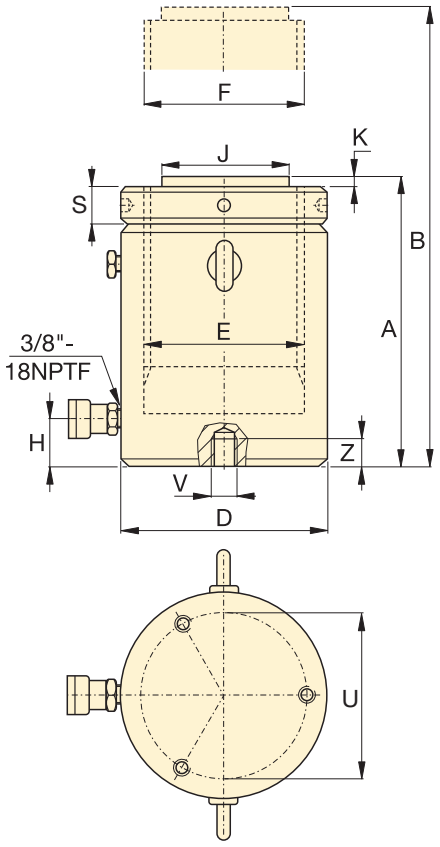
High Tonnage Cylinders

Lock Nut, Load Return

ENERPAC

HCL-Series, Single-Acting, Gravity-Return Cylinders

- **Lock nut provides positive and safe mechanical load holding**
- **Low-friction locking rings spin easy, save time and effort**
- **Designed to withstand 10% side-load up to 90% of maximum stroke**
- **Hardened surface resists side-loading and cyclic wear**
- **Overflow port as stroke limiter to prevent plunger blow-out**
- **Weather protected, inside and out**
- **Replaceable bearings enclose the plunger for support throughout the stroke**
- **Certified lifting eyes and base mounting holes**



SELECTION CHART 400 – 1000-TON HCL-MODELS

For 50 – 300-ton models, see pages 48-49
For full product features see pages 36-37.

Cylinder Capacity (ton)	Stroke (in)	Model Number	Maximum Cylinder Capacity at 10,150 psi (ton)	Cylinder Effective Area (in^2)	Oil Capacity (in^3)	Collapsed Height A (in)
400	1.97	HCL-4002	450	88.75	174.70	12.48
	3.94	HCL-4004			349.39	14.45
	5.91	HCL-4006			524.09	16.42
	7.87	HCL-4008			698.79	18.39
	9.84	HCL-40010			873.49	20.35
	11.81	HCL-40012			1,048.18	22.32
500	1.97	HCL-5002	575	113.25	222.92	14.06
	3.94	HCL-5004			445.85	16.02
	5.91	HCL-5006			668.77	17.99
	7.87	HCL-5008			891.70	19.96
	9.84	HCL-50010			1,114.62	21.93
	11.81	HCL-50012			1,337.55	23.90
600	1.97	HCL-6002	673	132.57	260.97	14.96
	3.94	HCL-6004			521.94	16.93
	5.91	HCL-6006			782.90	18.90
	7.87	HCL-6008			1,043.87	20.87
	9.84	HCL-60010			1,304.84	22.83
	11.81	HCL-60012			1,565.81	24.80
800	1.97	HCL-8002	916	180.44	355.21	16.93
	3.94	HCL-8004			710.41	18.90
	5.91	HCL-8006			1,065.62	20.87
	7.87	HCL-8008			1,420.82	22.83
	9.84	HCL-80010			1,776.03	24.80
	11.81	HCL-80012			2,131.24	26.77
1000	1.97	HCL-10002	1196	235.68	463.94	19.06
	3.94	HCL-10004			927.88	21.02
	5.91	HCL-10006			1,391.83	22.99
	7.87	HCL-10008			1,855.77	24.96
	9.84	HCL-100010			2,319.71	26.93
	11.81	HCL-100012			2,783.65	28.90

Base Mounting Holes (in)

Model / Capacity (ton)	Bolt Circle U	Thread Size V	Minimum Thread Depth Z	Number of Holes	Angle from Coupler
HCL-400	11.81	M16 x 2	0.95	3	60°
HCL-500	13.39	M24 x 3	1.42	3	60°
HCL-600	14.57	M24 x 3	1.42	3	60°
HCL-800	17.32	M24 x 3	1.42	3	60°
HCL-1000	19.69	M24 x 3	1.42	3	60°

High Tonnage Cylinders

Lock Nut, Load Return

ENERPAC



▲ *Heavy lifting and foundation levelling. The lock nut provides mechanical load holding over a long period of time.*

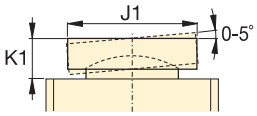
HCL Series



Capacity:
400 - 1000 ton

Stroke:
1.97 - 11.81 inch

Maximum Operating Pressure:
10,150 psi



CAT-Series Tilt Saddle

	Extended Height B (in)	Outside Diameter D (in)	Cylinder Bore Diameter E (in)	Plunger Diameter F (mm)	Base to Advance Port H (in)	Standard Saddle Diameter J (in)	Saddle Protrusion from Plunger K (in)	Lock Nut Height S (in)	Wt. (lbs)	Model Number	Optional Tilt Saddle Diameter J1 (in)	Optional Tilt Saddle Height K1 (in)	Optional Tilt Saddle Model Number
	14.45	13.78	10.63	Tr 270 x 6	2.64	6.27	0.20	2.56	520	HCL-4002	8.86	3.34	CAT-400
	18.39								603	HCL-4004			
	22.32								686	HCL-4006			
	26.26								770	HCL-4008			
	30.20								853	HCL-40010			
	34.13								936	HCL-40012			
	16.02	15.75	12.01	Tr 305 x 6	2.95	7.06	0.20	2.83	751	HCL-5002	9.84	3.57	CAT-500
	19.96								860	HCL-5004			
	23.90								968	HCL-5006			
	27.83								1,077	HCL-5008			
	31.77								1,186	HCL-50010			
	35.71								1,294	HCL-50012			
	16.93	16.93	12.99	Tr 330 x 6	3.19	7.65	0.20	3.15	942	HCL-6002	10.83	3.89	CAT-600
	20.87								1,067	HCL-6004			
	24.80								1,193	HCL-6006			
	28.74								1,319	HCL-6008			
	32.68								1,444	HCL-60010			
	36.61								1,570	HCL-60012			
	18.90	19.88	15.16	Tr 385 x 6	3.74	8.83	0.20	3.54	1,472	HCL-8002	12.60	4.89	CAT-800
	22.83								1,646	HCL-8004			
	26.77								1,819	HCL-8006			
	30.71								1,992	HCL-8008			
	34.65								2,166	HCL-80010			
	38.58								2,339	HCL-80012			
	21.02	22.44	17.32	Tr 440 x 6	4.33	9.81	0.20	4.13	2,115	HCL-10002	14.17	5.36	CAT-1000
	24.96								2,335	HCL-10004			
	28.90								2,556	HCL-10006			
	32.83								2,777	HCL-10008			
	36.77								2,998	HCL-100010			
	40.71								3,219	HCL-100012			

Hydraulic Hoses
High Pressure, 700/900 Series

ENERPAC

Shown from top to bottom: **HC-7206, HC-7210, HC-9206**



Crimped-on rubber strain relief for improved life and durability on all models.

Thermo-plastic Hoses (700-Series)

- For demanding applications, featuring a 4:1 design factor
- Maximum working pressure of 10,000 psi
- Two layers of steel wire braids
- Outside jacket is polyurethane, to provide maximum abrasion resistance
- Exhibits low volumetric expansion under pressure to enhance overall system efficiency

Heavy-duty Rubber Hoses (900-Series)

- The most complete offering: 35 models up to 50 feet in length
- Rubber coated with two layers of steel wire braids
- Designed to comply with Material Handling Institute IJ-100 hose specification
- Flexible, with little "memory", is the best choice for long hose runs

Emphasize Safety and Quality

To ensure the integrity of your system, specify only Enerpac hydraulic hoses.

WARNING !

- **Do not exceed 10,000 psi maximum pressure.**
- **Do not handle hoses while under pressure.**

More safety instructions in our "Yellow Pages".

▼ **Hose End Couplings**

¼" NPTF	
⅜" NPTF	
A-604	
A-630	
AH-604	
AH-630	
C-604	
CH-604	

Hydraulic Hoses

High Pressure, 700/900 Series

ENERPAC

Hose Oil Capacity

When using long hose lengths, it is sometimes necessary to fill the pump reservoir after filling the hoses. To determine the hose oil capacity, use the following:

For .25" internal diameter hoses: Capacity (in^3) = .5892 x Length (ft)

For .38" internal diameter hoses: Capacity (in^3) = 1.3608 x Length (ft)

H700
H900
Series



Inside Diameter:
.25 and .38 inch

Length:
2-50 feet

Maximum Operating Pressure:
10,000 psi

Internal Dia.	Hose End Assemblies and Couplers*		Hose Length	700-Series Thermo-plastic		900-Series Heavy-duty Rubber	
(in)	End one	End two	(ft)	Model Number	Wt. (lbs)	Model Number	Wt. (lbs)
.25	¼" NPTF	¼" NPTF	6	–		H-9206Q	2.6
		⅜" NPTF	6	–		H-9206S	2.6
		A-630	6	HB-7206QB	2.4	HB-9206QB	3.1
		AH-630	6	–		HB-9206Q	2.9
		CH-604	6	HC-7206Q	2.3	HC-9206Q	3.0
	⅜" NPTF	⅜" NPTF	2	H-7202	1.2	H-9202	1.6
			3	H-7203	1.5	H-9203	1.9
			6	H-7206	2.0	H-9206	2.6
			10	H-7210	3.0	H-9210	3.9
			20	H-7220	6.2	H-9220	8.0
			30	H-7230	10.0	H-9230	13.0
			50	H-7250	15.4	H-9250	22.0
		A-604		–		–	
			6	HA-7206B	2.5	HA-9206B	3.2
			10	–		HA-9210B	4.5
		AH-604		–		–	
			3	–		HA-9203	2.1
			6	HA-7206	2.2	HA-9206	2.9
			10	HA-7210	3.2	HA-9210	4.2
		AH-630	6	HB-7206	2.2	HB-9206	2.9
		C-604	3	HC-7203B	2.2	HC-9203B	2.9
			6	HC-7206B	2.8	HC-9206B	3.7
			10	HC-7210B	3.9	HC-9210B	5.0
		CH-604	3	HC-7203	1.7	HC-9203	2.2
			6	HC-7206	2.3	HC-9206	3.0
			10	HC-7210	3.3	HC-9210	4.3
			20	HC-7220	6.4	HC-9220	8.3
	CH-604	CH-604	6	HC-7206C	2.4	HC-9206C	3.1
			50	HC-7250C	15.4	HC-9250C	20.0
.38	⅜" NPTF	⅜" NPTF	6	H-7306	3.5	H-9306	4.6
			10	H-7310	5.4	H-9310	7.0
			20	H-7320	10.0	H-9320	13.0
			30	H-7330	16.2	H-9330	21.0
			50	H-7350	15.2	H-9350	33.0
		CH-604	6	HC-7306	3.4	HC-9306	4.9
			8	–		HC-9308	6.2
			10	HC-7310	5.6	HC-9310	7.3



GA45GC Gauge Adaptor

Protect yourself from system overloading by simply ordering one part number for a pre-assembled gauge, adaptor block and coupler.



Torque Wrenches Hoses

Use Enerpac 3.5:1 twin safety hoses with double-acting wrenches to ensure the integrity of your hydraulic system. See Selection Matrix.



Fittings

For additional fittings see the fitting page of the System Components section.

Gauges
High Pressure & Force

ENERPAC



GF Series Force & Pressure (GF-Series)

- GF-Series gauges are calibrated with dual scale reading for pressure and force
- Excellent readability; 4 inch diameter gauge face
- Fast, easy installation
- GF-Series gauges are glycerine filled
- Stainless steel gauge cases for corrosion resistance
- GP-Series gauges are calibrated with dual scale reading for psi and bar

Glycerine Filled (G-Series)

- Calibrated in dual scale reading in psi and bar
- All pressure sensing parts sealed and dampened by glycerine for long life
- Includes safety blow-out disk and pressure equalizing membrane
- Gauge snubbers or needle valves recommended for high cycle applications

High Cycle (H-Series)

- Calibrated in dual scale reading in psi and bar
- Ideal for use in many applications, specifically for high cycle and harsh environments
- Gauge snubbers or needle valves recommended to shut off gauge when not in use

GF
GP
Series



Pressure Range:
0-15,000 psi

Face Diameter:
4 inch

Accuracy, % of full scale:
± 1%

G
H
Series



Pressure Range:
0-15,000 psi

Face Diameter:
2.5-4 inches

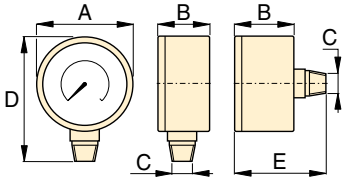
Accuracy, % of full scale:
±1% and 1½%

Gauges
High Pressure & Force

ENERPAC

Gauge Type and Calibration					Units per Division	Model Number*	Thread C	Gauge Adaptor		
								 126		
								Required		
psi	bar	psi	lbs	tons			(in)	GA-1	GA-2	GA-3
0-10,000	0-700	–	–	–	100 psi, 10 bar	GP-10S	½ NPTF	●	●	
0-15,000	0-1000	–	–	–	200 psi, 10 bar	GP-15S	½ NPTF	●	●	
–	–	0-10,000	0-10,000	0-5	100 psi, 100 lbs, .1 ton	GF-5P	½ NPTF	●	●	
–	–	0-10,000	0-22,200	0-11	100 psi, 200 lbs, .2 ton	GF-10P	½ NPTF	●	●	
–	–	0-10,000	0-51,500	0-25.5	100 psi, 500 lbs, .5 ton	GF-20P	½ NPTF	●	●	
–	–	0-10,000	0-110,000	0-55	100 psi, 1000 lbs, 1 ton	GF-50P	½ NPTF	●	●	
–	–	0-10,000	0-27,000	0-13.5	100 psi, 200 lbs, .25 ton	GF-120P	½ NPTF	●	●	
–	–	0-10,000	–	0-23.5/36/65	100 psi, .5/.5/1 ton	GF-813P	¼ NPTF			●
–	–	0-10,000	–	0-22/32	100 psi, .5/.5 ton	GF-230P	½ NPTF	●	●	
–	–	0-10,000	–	0-50/100	100 psi, 1/1 ton	GF-510P	½ NPTF	●	●	
–	–	0-10,000	0-51,500	0-25.5	100 psi, 500 lbs, .5 ton	GF-20P	½ NPTF	●	●	
–	–	0-10,000	0-11,000	0-55	100 psi, 1000 lbs, 1 ton	GF-50P	½ NPTF	●	●	
–	–	0-10,000	–	0-25.5/32.5/55	100 psi, .5/.5/.5 ton	GF-835P	¼ NPTF			●
–	–	0-10,000	–	0-79/103	100 psi, 1/1 ton	GF-871P	¼ NPTF			●
–	–	0-10,000	–	0-150/200	100 psi, 5/5 ton	GF-200P	¼ NPTF			●

* Metric scale Force Gauges are available by changing the "P" suffix to "B".



Dimensions (in)						
Face Diam.	Connection	A	B	C	D	E
2.5	Lower Mount	2.50	1.46	¼" NPTF	3.31	–
2.5	Center Rear	2.50	1.46	¼" NPTF	–	2.48
4.0	Lower Mount	4.0	1.15	¼" NPTF	4.80	–
4.0	Lower Mount	4.0	1.93	½" NPTF	5.38	–

Note: dimensions for reference only.

▼ SELECTION CHART

Gauge Series	Pressure Range		Model Number				Major Graduation		Minor Graduation		Major Graduation		Minor Graduation	
			Face ø 2.5" ¼ NPTF Lower Mount	Face ø 2.5" ¼ NPTF Center Rear	Face ø 4" ¼ NPTF Lower Mount	Face ø 4" ½ NPTF Lower Mount	(psi)				(bar)			
	(psi)	(bar)	Accuracy ±1½%	Accuracy ±1½%	Accuracy ±1%	Accuracy ±1%	(2.5")	(4")	(2.5")	(4")	(2.5")	(4")	(2.5")	(4")
G -Series	0-100	0-7	G2509L	–	–	–	10	–	2	–	1	–	0,01	–
	0-160	0-11	G2510L	–	–	–	10	–	2	–	1	–	0,02	–
	0-200	0-14	G2511L	–	–	–	50	–	5	–	1	–	0,02	–
	0-300	0-20	G2512L	–	–	–	50	–	5	–	5	–	0,50	–
	0-600	0-40	G2513L	–	–	–	100	–	10	–	10	–	1	–
	0-1,000	0-70	G2514L	G2531R	–	–	100	–	20	–	10	–	1	–
	0-2,000	0-140	G2515L	–	–	–	500	–	50	–	10	–	2	–
	0-3,000	0-200	G2516L	–	–	–	500	–	50	–	50	–	5	–
	0-6,000	0-400	G2517L	G2534R	–	–	1000	–	100	–	100	–	10	–
	0-10,000	0-700	G2535L	G2537R	G4088L	G4039L	2000	1000	200	100	100	100	10	10
	0-15,000	0-1000	G2536L	G2538R	G4089L	G4040L	3000	3000	200	200	100	100	20	20
H-Series	0-10,000	0-700	–	–	H4049L	H4071L	–	1000	–	100	–	100	–	10

POW'R-RISER
PR-Series

ENERPAC

▼Shown: **PRASA10027L**



PR Series



Rated Lifting Capacity:
60-200 tons

Stroke:
14-27 inches

Maximum Operating Pressure:
10,000 psi

- **60, 100, 150 and 200-ton capacities with pneumatic or electric pumps for the toughest jobs**
- **4-inch ground clearance for transport over rail and rough terrain**
- **Three position handle provides easy tilt back and transport**
- **Complies with ASME/ANSI B30.1:2015 & CE specifications**
- **Easy to change external filter minimizes down time**
- **Rugged, fully enclosed 24-inch wide frame with no exposed fittings or hoses**
- **SUP-R-STACK™ Extension System allows lifting at all heights without blocking.**

Pendant Cord
Standard 12 ft. pendant cord for air driven units with pneumatic valves and 20 ft. pendant cord for electric driven units keeps operator away from the load.

Capacity (ton)	Stroke (in)	Electric Pump Model Number (115 VAC)	Weight (lbs)
60	14	PREMB06014L	390
	27	PREMB06027L	600
100	16	PREMB10016L	510
	27	PREMB10027L	600
	16	-	-
	27	-	-
150	15.5	-	-
	26.5	-	-
	15.5	PREMB15016L	570
	26.5	PREMB15027L	708
200	15.5	-	-
	26.5	-	-

(PR-Series not available in Canada. Contact Enerpac.)

POW'R-RISER
PR Series

ENERPAC



SUP-R-STACK™ Extensions

Increase useful height from 5" to 18".

Model No.	Size (in)	Model No.	Size (in)
PRE5	5	PRE11	11
PRE7	7	PRE14	14
PRE9	9	PRE18	18
PRES6024	Extension set includes **PRE5, PRE7, PRE11PRE18**		



Spacers

Fine tune your Extension stack height.

Model No.	Size (in)	Model No.	Size (in)
PRS1	1	PRS3	3
PRS2	2	–	–
PRS4	Set includes (2) **PRS1,** (1) **PRS2** and (1) **PRS3**		

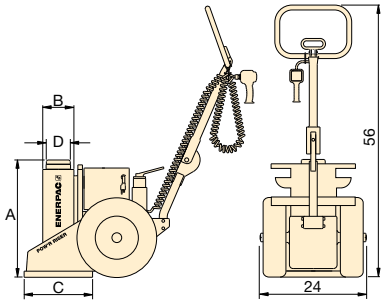
Cap. (ton)	Swivel Load Cap	Locking U-Rings 1 in.	3 in.	4¼ in.	5½ in.	10 in.	Set Model Number	Locking U-Ring Sets Include (quantity and model numbers) 2X	1X	2X	1X
60	PRTS60	PRU11	PRU13	PRU14	–	PRU110	[1] PRUS126	PRU11	PRU13	PRU14	–
							[2] PRUS137	PRU11	PRU13	PRU14	PRU10
100	PRTS60	PRU11	PRU13	PRU14	–	PRU110	[1] PRUS126	PRU11	PRU13	PRU14	–
							[2] PRUS137	PRU11	PRU13	PRU14	PRU110
150	PRTS150	PRU151	PRU153	–	PRU155	PRU1510	[3] PRUS1526	PRU151	PRU153	PRU155	–
							[2] PRUS1537	PRU151	PRU1510	PRU155	–
200	PRTS200	PRU201	PRU203	–	PRU205	PRU2010	[3] PRUS2026	PRU201	PRU203	PRU205	–
							[2] PRUS2037	PRU201	PRU2010	PRU205	–

[1] For 14 and 16" stroke models
[2] For 27" stroke models
[3] For 15.5" stroke models

WARNING!

Extensions: Any two Extensions may be stacked for loads up to 60 tons. For loads over 60 tons or strokes over 14" only one Extension and one Spacer can be used.

Spacers: Never exceed 3" in total Spacer height.



	Air Pump	Weight (lbs)	A (in)	B (in)	C (in)	D (in)	Max. Additional Stack Height Using Optional Ext. System (in)	Valve Type
	PRAMA06014L	390	24	6.4	14	4	32*	Manual
	PRAMA06027L	600	37	6.4	14	4	11	
	PRAMA10016L	510	26	7.0	18	4	21**	
	PRAMA10027L	600	37	7.0	18	4	11	
	PRASA10016L	510	26	7.0	18	4	21**	Pneumatic
	PRASA10027L	600	37	7.0	18	4	11	
	PRASA15016L	570	26	8.0	18	5	21**	
	PRASA15027L	708	37	8.0	18	5	11	
	-	-	26	8.0	18	5	21**	Manual
	-	-	37	8.0	18	5	11	
	PRASA20016L	640	26	9.5	20	6	21**	Pneumatic
	PRASA20027L	825	37	9.5	20	6	11	

* Based on one 18" and one 11" Extension and one 3" Spacer.
** Based on one 18" Extension and one 3" Spacer.

For power source, the following characters should be inserted in the 5th space of the model number.

Ordering Example:
Model No. PREMI06014L is a 14" stroke, 60 ton model, with a manual valve and a 208-240 VAC, 1-ph electric motor.

A Air Pump, 50 scfm, 80 psi
B 115 VAC, 1ph., 50-60 Hz, 20 A
E 208-240 VAC, 1-ph., 50-60 Hz, Euro Plug, 10 A
I 208-240 VAC, 1-ph., 50-60 Hz, USA Plug, 10 A
G [1] 208-240 VAC, 3-ph., 50-60 Hz
W [1] 380-415 VAC, 3-ph., 50-60 Hz
J [1] 440-480 VAC, 3-ph., 50-60 Hz
R [1] 575 VAC, 3-ph., 50-60 Hz

[1] Not available for 60-ton capacity

Industrial Spreaders
Hydraulic Wedge

ENERPAC

▼ Shown clockwise from top: **WR-5, A-92, WR-15**



A, WR
Series

Capacity:
0.75-1.00 ton

Tip Clearance:
0.50-1.38 inches

Maximum Spread Range:
3.70-11.50 inches

Maximum Operating Pressure:
10,000 psi



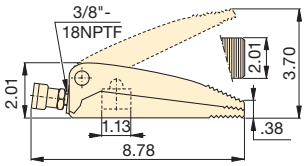
Best Match Hand Pump

To power your WR5 and WR15 the **P-392** hand pump is an ideal choice.

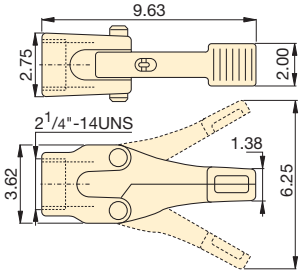
www.enerpac.com or www.chicagojack.com

- **Single-acting, spring return**
- **WR-15: For long stroke spreading applications**
- **WR-5: For use in very confined work areas**
- **A-92: Spreader attachment screws onto RC-Series 10 ton cylinders (except RC-101)**

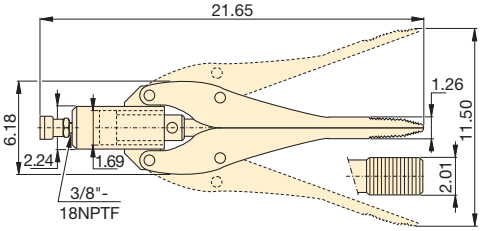
WR-5



A-92



WR-15



Spreader Capacity (ton)	Tip Clearance (in)	Model Number	Maximum Spread (in)	Cylinder Effective Area (in^2)	Oil Capacity (in^3)	Wt. (lbs)
1.00	.50	**WR-5**	3.70	1.00	.61	5.0
.75	1.26	**WR-15**	11.50	2.25	3.91	25.0
1.00	1.38	**A-92**	6.25	–	–	8.0

Industrial Spreaders
Hydraulic & Mechanical

ENERPAC

▼ Shown: **FSH-14 and FSM-8 with safety blocks SB1**



- **Integrated wedge concept: friction-free, smooth, parallel wedge movement eliminates flange damage and spreading arm failure**
- **Unique interlocking wedge design: no first step bending and risk of slipping out of joint**
- **Requires very small access gap of only .24 in. (6 mm)**
- **Stepped spreader arm design: each step can spread under full load**
- **Few moving parts means durability and low maintenance**
- **Safety block SB-1 and ratchet spanner SW-22 included with FSM-8**
- **Safety block and Enerpac RC-102 cylinder included with FSH-14**

FSM/FSH/STF Series

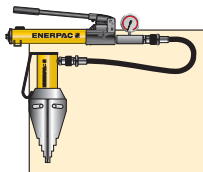
Tip Clearance / Maximum Spread*:
0.24/3.16 inches

Maximum Spread Force:
8-14 tons

Maximum Operating Pressure:
10,000 psi (FSH-14)

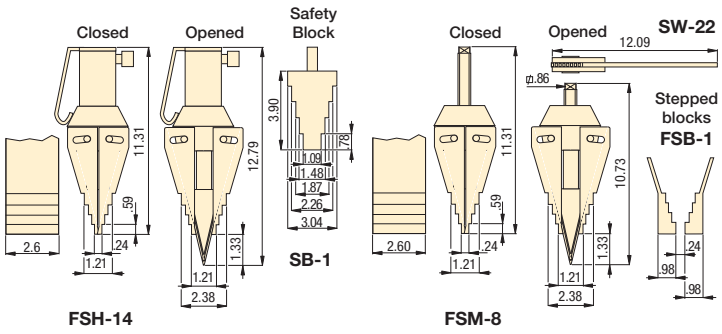


Stepped Blocks FSB-1
Use this pair of stepped blocks to increase wedge opening up to 3.16 in. (81 mm). Fits both FSH-14 and FSM-8.



Flange Spreader Sets
Hydraulic **FSH-14** is available as a set (pump, tool, gauge, adaptor and hose).

Set Model Number	Set Includes:	
STF-14H	FSH-14	GA-2
	P-392	GP-10S
	HC-7206	–



Max. Spreading Force (ton)	Model Number	Tip Clearance (in)	Max. Spread[1] (in)	Type	Oil Capacity (in^3)	Weight (lbs)
8	FSM-8	.24	3.16	Mechanical	-	14.3
14	FSH-14*	.24	3.16	Hydraulic	4.76	15.7

[1] Using stepped blocks FSB-1.
* Available as pump-tool set, see note on ths page.

Hydraulics

Mechanical Pullers
Sync Grip

ENERPAC

▼ Shown: **SGM10 with three jaws**



SGM
Series

Puller Capacity:
1-20 tons

Maximum Reach:
4.1-23.6 inches

Maximum Spread:
4.3-26.8 inches

- **Sync Grip mechanism synchronizes movement of all jaws for simultaneous engagement, helping to prevent misalignment for safe and easy use**
- **Threaded spindle and jaw indexes provide adjustable reach**
- **Three-jaw configuration for even load distribution**
- **Two-jaw configuration for confined access applications available on all pullers 10 ton and below (not available on SGM20)**
- **High-strength forged jaws for superior reliability**
- **Suitable for a variety of applications including bearings, bushings, wheels, gears and pulleys**

Dimensions
Dimensional information for all puller models is included in the dimensional overview table:

WARNING!
Do not exceed 50% of the rated puller capacity when using two jaw configurations.

▼ *SGM10 with two jaws.*



▼ **DIMENSIONAL DATA**

Puller Capacity (ton)	Puller Model No.	Dimensions (in) Max. Reach A	Dimensions (in) Max. Spread B	Weight (lbs)	Long Jaw Sets Model No.*	Dimensions (in) Max. Reach A	Dimensions (in) Max. Spread B
1	SGM01	4.13	4.33	1.8	–	—	—
4	SGM04	7.28	6.89	4.4	–	—	—
7	SGM07	8.86	9.45	14.3	–	—	—
10	SGM10	16.14	13.78	32.0	SG1002K	19.29	15.94
20	SGM20	23.62	26.77	122.3	SG3002K	25.20	28.35

* Jaw sets include three jaws.

Hydraulic Pullers
Sync Grip

ENERPAC

▼ Shown: **GPS14H**



GPS
Series

Puller Capacity:
14-50 tons

Maximum Reach:
12.6-27.6 inches

Maximum Spread:
13.8-38.6 inches

Maximum Operating Pressure:
10,000 psi

- **Sync Grip mechanism synchronizes movement of all jaws for simultaneous engagement**
- **Hydraulically applied pulling force increases pulling capacity and reduces operator fatigue**
- **Threaded spindle and jaw indexes provide adjustable reach**
- **Three-jaw configuration for even load distribution**
- **High-strength forged jaws for superior reliability**
- **The versatile puller set facilitates safe and easy dismounting in a variety of applications**

Dimensions
Dimensional information for all puller models is included in the dimensional overview table:

Sets Include:[1)]



[1)] Choose pump options below.

▼ **DIMENSIONAL DATA**

Puller Capacity (ton)	Model No. (Puller and Cylinder)	Stroke (in)	Dimensions (in) Max. Reach A	Dimensions (in) Max. Spread B	Wt. (lbs)	Hydraulic Puller Sets: Hand Pump	Air Pump	Electric Pump	Cordless Pump	All Sets Include:	Long Jaw Sets Model No.***	Dimensions (in) Max. Reach A	Dimensions (in) Max. Spread B
14	SGH14	1.0	12.60	13.78	55.1	GPS14H	GPS14A	GPS14E	GPS14C	*	SG1002K	15.75	15.94
24	SGH24	2.0	12.60	18.90	108.0	GPS24H	GPS24A	GPS24E	GPS24C	GA45GC & HC7206C	SG2002K	17.13	21.26
36	SGH36	2.5	16.14	25.59	165.3	GPS36H	GPS36A	GPS36E	GPS36C		SG3002K	20.67	28.35
50**	SGH64	3.0	27.56	38.58	363.7	GPS64H	GPS64A	GPS64E	GPS64C		SG6002K	33.46	42.52

* 14-ton sets include an AR-630 female coupler, GA45 gauge adaptor, and G2535L gauge.
** Puller capacity at 7,850 psi, maximum cylinder capacity @ 10,000 psi is 64.6 tons.
*** Jaw sets include three jaws.

For 115 V application add "B" suffix
For 230 V application add "E" suffix

Hand Pumps

Lightweight Hand Pumps, P-Series

ENERPAC

▼ Pumps shown, from top to bottom: **P-802, P-842, P-202, P-142**



P Series



Reservoir Capacity:
20-155 in³

Flow at Rated Pressure:
.055-.15 in³/stroke

Maximum Operating Pressure:
10,000 psi

Exclusively from Enerpac

- **Lightweight and compact design**
- **Durable glass-filled nylon reservoir and nylon encapsulated aluminum pump base for maximum corrosion resistance**
- **Two-speed operation on most models reduces handle strokes by as much as 78% over single speed pumps**
- **Lower handle effort to minimize operator fatigue**
- **Integral 4-way valve on P-842 for operation of double-acting cylinders**
- **Handle lock and lightweight construction for easy carrying**
- **Large oil capacities to power a wide range of cylinders or tools**
- **Non-conductive fiberglass handle for operator safety**
- **Internal pressure relief valve for overload protection**

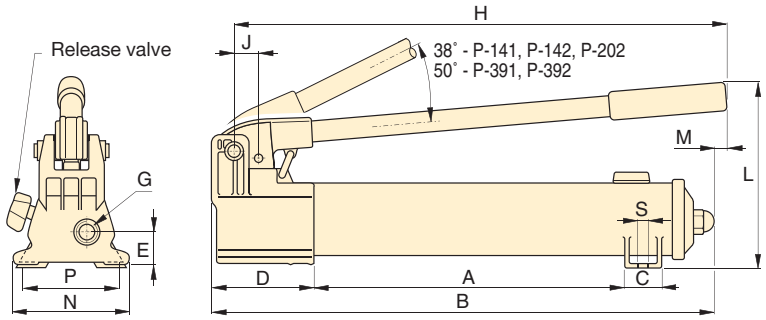
Pump Type	Usable Oil Capacity (in^3)	Model Number	Pressure Rating* (psi)		Oil Displacement per Stroke (in^3)		Max. Handle Effort (lbs)
			1st stage	2nd stage	1st stage	2nd stage	
Single speed	20	P-141	N/A	10,000	N/A	.055	72
	55	P-391	N/A	10,000	N/A	.151	85
Two speed	20	P-142**	200	10,000	.221	.055	78
	55	P-202	200	10,000	.221	.055	63
	55	P-392**	200	10,000	.687	.151	93
	155	P-802	400	10,000	2.40	.151	95
	155	P-842***	400	10,000	2.40	.151	95

* Contact Enerpac for applications where operating pressure is less than 10% of pressure rating.
** Available as set, see note on top of next page.
*** For use with double-acting cylinders.

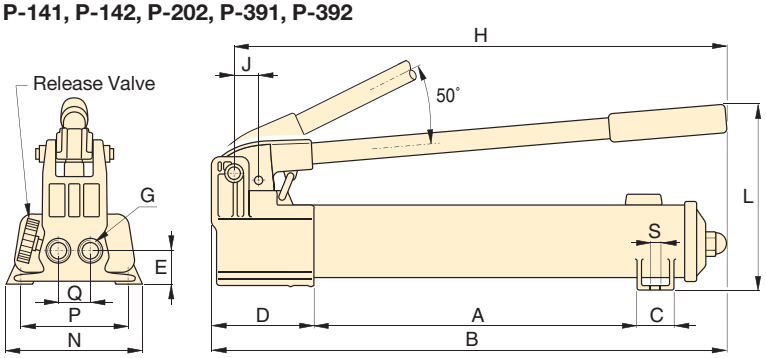
Hand Pumps

Lightweight Hand Pumps, P-Series

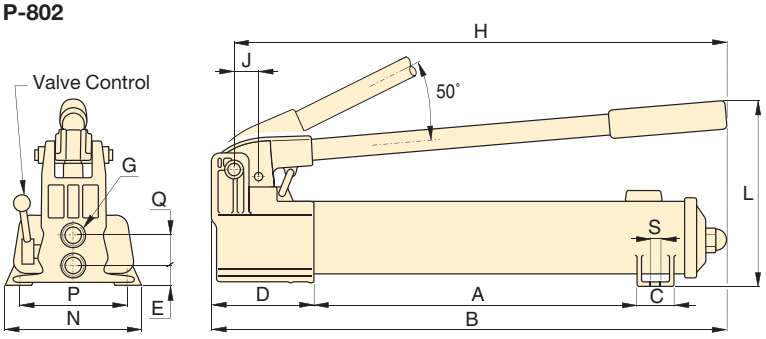
ENERPAC



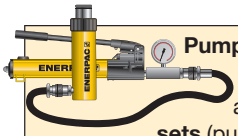
P-141, P-142, P-202, P-391, P-392



P-802



P-842



Pump and Cylinder Sets

Pumps marked with an ** are available as **sets** (pump, cylinder, gauge, couplers and hose) for your ordering convenience.



Hoses

Enerpac offers a complete line of high-quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.



Gauges

Minimize the risk of over-loading and ensure long, dependable service from your equipment. Refer to the System Components section for a full range of gauges.

Piston Stroke	Dimensions (in)														Weight	Model Number
(in)	A	B	C	D	E	G	H	J	L	M	N	P	Q	S	(lbs)	
.50	7.31	13.25	1.13	3.37	1.13	¼"-18 NPTF	12.56	.75	5.63	–	3.75	3.25	–	.28	4.5	**P-141**
1.00	13.56	21.00	1.44	3.93	1.31	⅜"-18 NPTF	20.56	1.19	7.00	.63	4.75	–	–	–	9.0	**P-391**
.50	7.31	13.25	1.13	3.37	1.13	¼"-18 NPTF	12.56	.75	5.63	–	3.75	3.25	–	.28	5.3	**P-142****
.50	13.56	20.06	1.44	3.37	1.13	¼"-18 NPTF	15.75	.75	5.69	.63	3.75	–	–	–	7.5	**P-202**
1.00	13.56	21.00	1.44	3.93	1.31	⅜"-18 NPTF	20.56	1.19	7.00	.63	–	–	–	–	9.0	**P-392****
1.00	13.30	21.75	1.78	5.25	1.39	⅜"-18 NPTF	20.75	2.19	9.00	–	7.12	6.02	1.40	.41	18.0	**P-802**
1.00	13.30	21.75	1.78	5.25	.81	⅜"-18 NPTF	20.75	2.19	9.00	–	7.12	6.02	1.44	.41	22.0	**P-842*****

Hand Pumps

ULTIMA Steel Hand Pumps, P-Series

ENERPAC

▼ Shown from left to right: **P-77, P-80, P-84, P-801, P-39**



P Series



Reservoir Capacity:
47-453 in³

Flow at Rated Pressure:
.15-.29 in³/stroke

Maximum Operating Pressure:
10,000 psi

- **Reduced handle effort and ergonomic grip for less operator fatigue**
- **Two-speed operation for fast and easy operation (except P-39)**
- **Vent free reservoir eliminates spills**
- **Quick grip handle allows for easy transport**
- **Integral reservoir over-pressurization protection**
- **All steel construction, chrome plated plunger and wiper system for durable, long lasting performance**
- **4-way valving on the P84 and P-464 for operation of double-acting cylinders**

Two Speed Pumps
Recommended for applications where cylinder plunger must advance rapidly to contact load, and applications where greater oil capacities are required, such as multiple cylinder hook-ups.



Gauges
Minimize the risk of over-loading and ensure long, dependable service from your equipment. Refer to the System Components section for a full range of gauges.



4-Way Control Valve
P-84 and P-464 feature a manual 4-way control valve, designed for use with one double-acting or two single-acting cylinders. For system set-up information:

The Solution for Tough Jobs

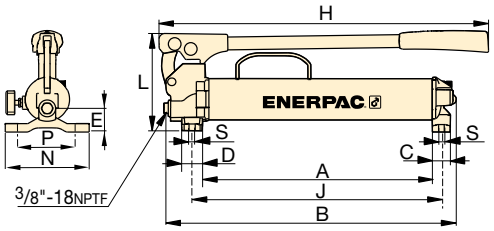
Pump Type	Usable Oil Capacity (in³)	Model Number	Pressure Rating* (psi) 1st stage	Pressure Rating* (psi) 2nd stage	Oil Displacement per Stroke (in³) 1st stage	Oil Displacement per Stroke (in³) 2nd stage	Max. Handle Effort (lbs)
Single	47	**P-39**	N/C	10,000	N/C	.15	85
Two-speed	47	**P-77**	500	10,000	1.00	.15	88
	134	**P-80****	500	10,000	1.00	.15	77
	250	**P-801**	500	10,000	1.00	.15	77
	134	**P-84*****	500	10,000	1.00	.15	77
	453	**P-462**	200	10,000	7.69	.29	110
	453	**P-464*****	200	10,000	7.69	.29	110

* Contact Enerpac for applications where operating pressure is less than 10% of pressure rating.
** Available as a set, see note on next page.
*** For use with double-acting cylinders.

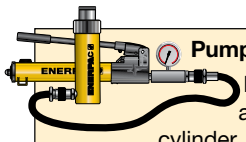
Hand Pumps

Steel Hand Pumps, P-Series

ENERPAC

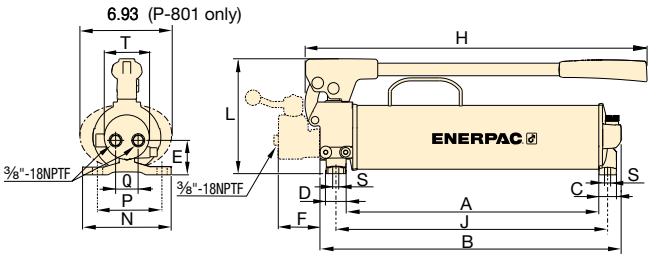


P-39, P-77

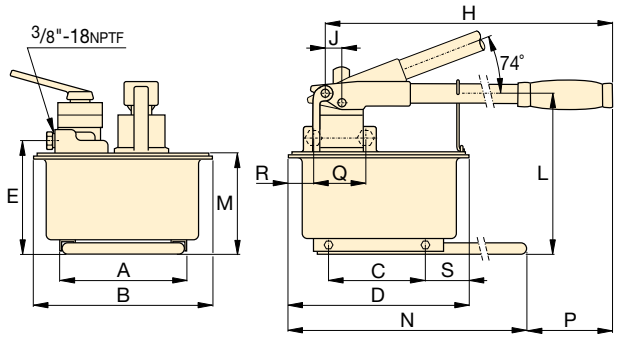


Pump and Cylinder Sets

P-80 is also available as a **set** (pump, cylinder, gauge, couplers and hose) for your ordering convenience.



P-80, P-801, P-84



P-462, P-464

Piston Stroke	Dimensions (in)																Weight	Model Number
(in)	A	B	C	D	E	F	H	J	L	M	N	P	Q	R	S	T	(lbs)	
1.00	15.09	18.91	1.18	1.38	1.48	–	21.63	16.37	6.39	–	5.51	4.37	–	–	0.33	–	13.6	**P-39**
1.00	15.39	19.19	1.18	1.38	1.86	–	21.63	16.67	6.39	–	5.51	4.37	–	–	0.33	–	15.6	**P-77**
1.00	16.83	20.12	1.18	1.38	2.17	–	23.50	18.11	7.65	–	5.91	4.76	1.65	–	0.33	2.93	23.6	**P-80****
1.00	16.83	20.12	1.18	1.38	2.17	–	23.50	18.11	7.65	–	5.91	4.76	1.65	–	0.33	2.93	31.0	**P-801**
1.00	16.83	20.06	1.18	1.38	2.30	2.77	22.78	18.11	7.65	–	5.91	4.76	1.50	–	0.33	2.93	26.0	**P-84*****
1.50	8.25	12.13	6.42	12.63	7.68	–	26.44	.98	10.63	6.89	25.6	3.63	–	–	3.13	–	61.0	**P-462**
1.50	8.35	12.13	6.42	12.63	7.68	–	26.44	.98	10.63	6.89	25.6	3.63	3.50	2.68	3.13	–	61.0	**P-464*****

Hand Pumps

Low Pressure Hand Pumps, P-Series

ENERPAC

▼ Shown from left to right: **P-25, P-51, P-18**



P Series



Reservoir Capacity:
22-200 in³

Flow at Rated Pressure:
.15-.58 in³/stroke

Maximum Operating Pressure:
2,500-5,000 psi

When Less Than 10,000 psi is All You Need

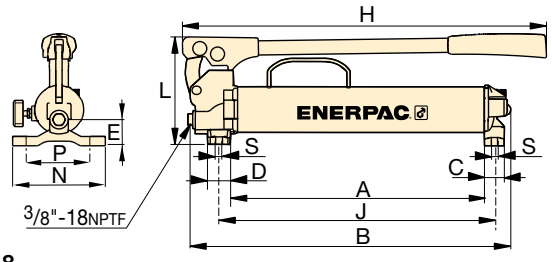
- **P-25 and P-50 pump oil in both forward and reverse handle movement improving overall efficiency, ideal when mounting space is restricted**
- **External load-release valve**
- **Internal pressure-relief valve for overload protection**
- **P-51 can be operated in horizontal and vertical position with pump head and oil outlet facing downwards**

Pump Type	Usable Oil Capacity (in³)	Model Number	Pressure Rating (psi)	Oil Displace-ment per Stroke (in³)	Max. Handle Effort (lbs)
Single-speed	22	**P-18**	2,850	0.15	34
	200	**P-25**	2,500	0.58	60
	200	**P-50**	5,000	0.29	60
	50	**P-51**	3,000	0.25	61

Hand Pumps

Low Pressure Hand Pumps, P-Series

ENERPAC

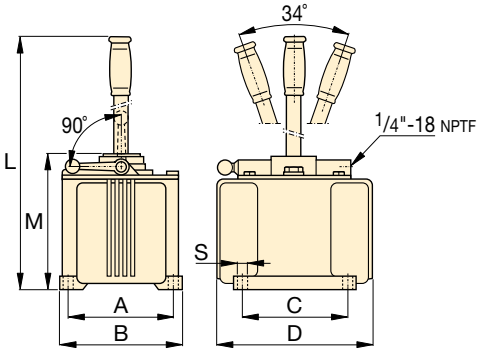


P-18

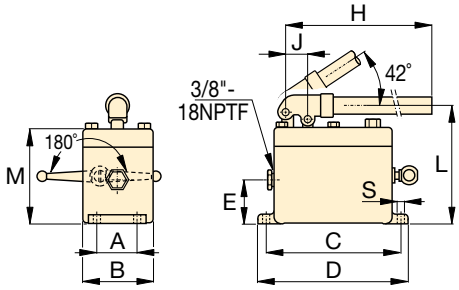


Hoses

Enerpac offers a complete line of high quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.



P-25, P-50



P-51

Piston Stroke	Dimensions (in)												Weight	Model Number
(in)	A	B	C	D	E	H	J	L	M	N	P	S	(lbs)	
1.00	8.70	12.44	1.18	1.38	1.48	15.17	9.98	6.39	–	5.51	4.37	.33	11	**P-18**
1.50	6.00	6.82	6.00	9.43	–	–	–	26.94	7.88	–	–	.40	36	**P-25**
1.50	6.00	6.82	6.00	9.43	–	–	–	26.94	7.88	–	–	.40	37	**P-50**
1.00	2.06	3.63	7.12	7.88	2.25	24.00	1.16	6.31	5.06	–	–	.34	12	**P-51**

Battery Pumps
Cordless Hydraulic, XC-Series

ENERPAC

▼ Shown: **XC-1201**



- **Lightweight design with integrated handle and carrying strap for portability**
- **Bladder reservoir prevents contamination and allows pump usage in any position**
- **Powerful ½ horsepower motor and 28 volt Lithium-Ion battery deliver exceptional speed and run time**
- **High-strength fiberglass reinforced composite shroud for superior durability in demanding job site environments**
- **Cordless technology eliminates tripping hazards found in other electric or air powered pumps**
- **Available in both single-acting and double-acting valve configurations**

XC Series



Reservoir Capacity:
60-120 in^3

Flow at Rated Pressure:
15 in^3/min.

Maximum Operating Pressure:
10,000 psi



GA45GC Gauge Adaptor
Protect yourself from system overloading by simply ordering one part number for a pre-assembled gauge, adaptor block and coupler.

Battery packs contain no cadmium, so they are environmentally friendly. Enerpac encourages recycling.



28-Volt Battery
The XC-28V with Lithium-Ion technology for maximum battery performance.



Battery Charger
1-hour quick charger.

XC-115VC	115 VAC
XC-230VC	230 VAC



Hydraulic Swivel Connector
Customer installed swivel connector for optimal orientation of the hydraulic hose.

Order model number [1]	**XSC1**

[1] Accessories must be ordered separately.

Battery Pumps
Cordless Hydraulic, XC-Series

ENERPAC

XC-Series Cordless Hydraulic Pump

The XC-Series cordless pump is ideal for jobs that require a combination of portability, speed, and safety. These cordless pumps are perfect for remote locations without access to power, but also indoors where trip hazards, ergonomics or size is a concern. The XC-Series cordless pump is compatible with all Enerpac hydraulic tools and small to medium sized cylinders.

The Lithium-Ion battery provides superior run time, even under extreme job site conditions.*

- 279 cuts of 3/8 inch reinforcing bar using the WHC-750 Cutter
- 112 lifts with the WR-5 Spreader
- 44 splits on 1-inch, grade 8 nuts using the NC-3241 Nut Splitter
- 28 lifts of an RC-104

The XC-Series cordless pump is CSA and CE compliant.

*Actual number of cycles per charge will vary depending on condition of tool, battery and ambient conditions. Battery life with double-acting tools is approximately 75% of that for comparable, single-acting tools.

XC Series

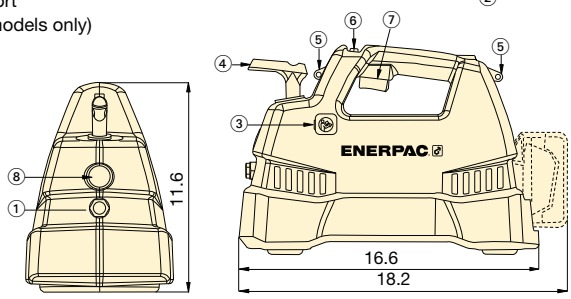


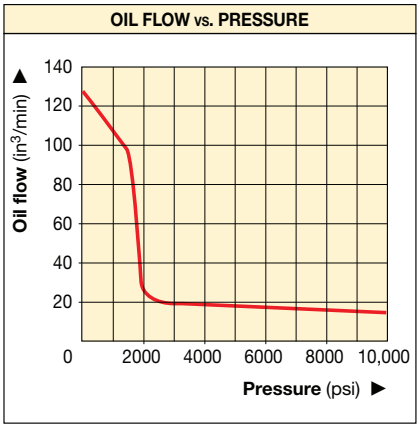
Reservoir Capacity:
60-120 in³

Flow at Rated Pressure:
15 in³/min.

Maximum Operating Pressure:
10,000 psi

① Outlet "Advance" Port
② Oil Fill *(must use funnel)*
③ User Adjustable Relief Valve Access Port
④ Directional Control Valve
⑤ Shoulder Strap Connection Points
⑥ Safety Lock Feature
⑦ On/Off Switch
⑧ Inlet "Retract" Port (double-acting models only)





Oil Capacity (in³)	Model Number	Output Flow Rate (in³/min) No Load	2000 psi	10,000 psi	Valve Function	Charger Voltage (VAC)	Weight (lbs)
60	**XC-1201MB**	125	30	15	3-way, 2-pos.	115	21.9
120	**XC-1202MB**	125	30	15			23.8
60	**XC-1201ME**	125	30	15	3-way, 2-pos.	230	21.9
120	**XC-1202ME**	125	30	15			23.8
60	**XC-1201M***	125	30	15	3-way, 2-pos.	–	21.9
120	**XC-1202M***	125	30	15			23.8
60	**XC-1401MB**	125	30	15	4-way, 3-pos.	115	22.3
120	**XC-1402MB**	125	30	15			24.2
60	**XC-1401ME**	125	30	15	4-way, 3-pos.	230	22.3
120	**XC-1402ME**	125	30	15			24.2
60	**XC-1401M***	125	30	15	4-way, 3-pos.	–	22.3
120	**XC-1402M***	125	30	15			24.2

* Batteries and charger not included.

Electric Pumps

Economy Electric, PU-Series

ENERPAC

▼ Shown: **PUJ-1200B**



PU Series

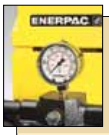


Reservoir Capacity:
0.5-1.0 gal.

Flow at Rated Pressure:
20 in³/min.

Motor Size:
.5 hp

Maximum Operating Pressure:
10,000 psi



Gauges

Minimize the risk of over-loading and ensure long, dependable service from your equipment. For use with the Economy pump the **G-2535L** gauge and **GA-3** gauge adaptor are suggested.

For a full range of gauges, please refer to the System Components section.

- **Lightweight and compact design**
- **Large easy-carry handle for maximum portability**
- **Two-speed operation reduces cycle times for improved productivity**
- **115 VAC 50/60-cycle universal motor will operate on voltages as low as 60 volts**
- **24 VAC remote motor control, 10-ft length for operator safety**
- **Starts under full load**
- **High strength molded shroud with integral handle, protects motor from contamination and damage**
- **Designed for intermittent duty cycle**

Used with Cylinder	Usable Oil Capacity (gal)	Model Number*	Pressure Rating (psi) 1st stage	Pressure Rating (psi) 2nd stage	Output Flow Rate (in³/min) 1st stage	Output Flow Rate (in³/min) 2nd stage	Valve Type	Current Draw (Amps)	Motor Voltage (VAC)	Sound Level (dBA)	Dimensions (in) A	B	C	D	E	F	H	J	Weight (lbs)	Model Number*
Single-acting	.50	PUD-1100B	200	10,000	200	20	Dump **	9.5	115	85	9.62	9.62	14.25	4.00	4.72	8.00	.40	5.25	26	PUD-1100B
	1.00	PUD-1101B	200	10,000	200	20		9.5	115	85	14.50	12.18	14.72	4.15	5.12	12.74	.40	5.62	35	PUD-1101B
	.50	PUD-1300B	200	10,000	200	20	Dump and Hold	9.5	115	85	9.62	9.62	14.25	4.00	4.72	8.00	.40	5.25	26	PUD-1300B
	1.00	PUD-1301B	200	10,000	200	20		9.5	115	85	14.50	12.18	14.72	4.15	5.12	12.74	.40	5.62	35	PUD-1301B
	.50	PUJ-1200B	200	10,000	200	20	3-way, 2-pos.	9.5	115	85	9.62	9.62	14.25	4.00	4.72	8.00	.40	5.25	24	PUJ-1200B
	1.00	PUJ-1201B	200	10,000	200	20		9.5	115	85	14.50	12.18	14.72	4.15	5.12	12.74	.40	5.62	31	PUJ-1201B
Double-acting	.50	PUJ-1400B	200	10,000	200	20	4-way, 3-pos.	9.5	115	85	9.62	9.62	14.25	4.00	4.72	8.00	.40	5.25	29	PUJ-1400B
	1.00	PUJ-1401B	200	10,000	200	20		9.5	115	85	14.50	12.18	14.72	4.15	5.12	12.74	.40	5.62	36	PUJ-1401B

* For 230 volt applications replace "B" suffix with "E".
** Electric dump valve for auto-retract of cylinders.

Electric Pumps

Economy Electric, PU-Series

ENERPAC

About the Economy Pump

The Economy pump is best suited to power small to medium size cylinders or hydraulic tools. Its lightweight and compact design makes it ideal for applications which require easy transport of the pump.
The Universal motor works well on long extension cords or generator-driven electrical power supplies.

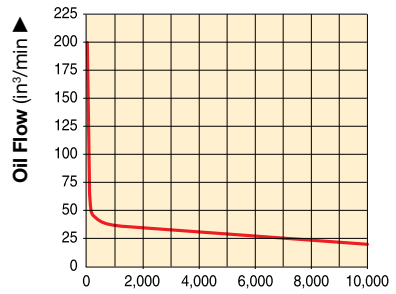
For further application assistance refer to the “Yellow Pages”.

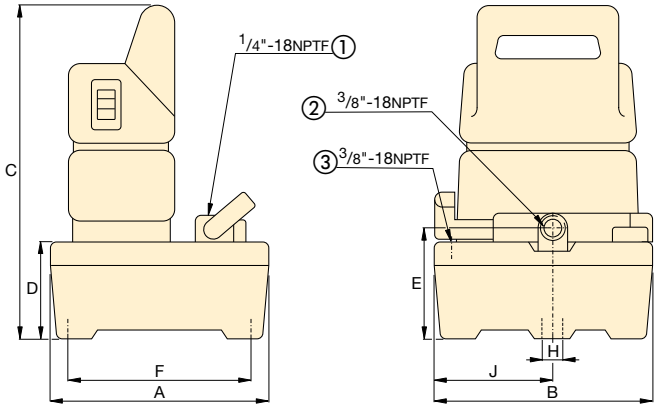
PUD-1100 Series
- Provides advance/auto-retract of single-acting cylinders
- Ideal for punching applications
- For applications not requiring load holding
- 10-ft pendant controls motor and valve operation

PUD-1300 Series
- Provides advance/hold/retract of single-acting cylinders
- 10-foot pendant controls motor and valve operation
- Ideal for applications requiring remote valve operation.

PUJ-Series
- Available with 3- and 4-way valves for single- or double-acting cylinders
- 10-ft pendant controls the motor operation
- Manual valves provide advance/retract tool control

OIL FLOW vs. PRESSURE





① Gauge Port (PUJ-1200/1201 only)
② Outlet Port
③ Tank Port

Hydraulics

Electric Pumps

Electric Pumps, ZU-Series

ENERPAC

▼ Shown from left to right: **ZU4304MB, ZU4420SB-H, ZU4304PB-K**



ZU Series



Reservoir Capacity:
1.0-10.0 gal.

Flow at Rated Pressure:
60 in³/min.

Motor Size:
1.7 hp

Maximum Operating Pressure:
10,000 psi

- **Features *Z-Class* high-efficiency pump design; higher oil flow and bypass pressure, cooler running and requires 18% less current draw than comparable pumps**
- **Powerful 1.7 hp universal electric motor provides high power-to-weight ratio and excellent low-voltage operating characteristics**
- **High-strength, molded composite shroud protects motor and electronics, while providing an ergonomic, non-conductive handle for easy transport**
- **Low-voltage pendant provides additional safety for the operator (remote control units)**

Pro Series pump only

- **LCD readout provides pressure and torque display and a number of diagnostic and readout capabilities never before offered on a portable electric pump**
- **AutoCycle feature provides continuous cycle operation of the torque wrench as long as the advance button is pressed (pump can be used with or without auto cycle feature)**

***Z-Class* – A Pump For Every Application**

Patented *Z-Class* pump technology provides high by-pass pressures for increased productivity—important in applications using long hose runs and high pressure-drop circuits, like heavy lifting or certain double-acting tools.

Enerpac ZU4 Hydraulic Pumps are built to power small to large-sized cylinders or hydraulic tools, or wherever high-speed, intermittent duty, remote hydraulic power is needed.

Classic Electric Pump

- The *Classic* has traditional electro-mechanical components (transformers, relays and switches) in place of solid-state electronics. The Classic delivers durable, safe and efficient hydraulic power for demanding markets like construction, post-tensioning and foundation repair.

Standard Electric Pump

- For applications that do not require digital display features of the Premium Pump. Available in all manual or jog versions.

Pro Electric Pump

- Digital (LCD) display features a built-in hour meter and shows self-diagnostic, cycle-count and low voltage warning information.

Pressure can also be displayed when the pump is equipped with an optional pressure transducer.

Electric Pumps

Ordering Matrix, ZU-Series

ENERPAC

CUSTOM BUILD YOUR ZU4 SERIES PUMP
If the ZU4 Series pump that would best fit your application cannot be found in the chart on page 79, you can easily build your custom ZU4 Series pump here.

▼ This is how a ZU-Series pump model number is built up:

Z	U	4	4	08	L	B	-	H	K	T	
1	2	3	4	5	6	7		8			
Product Type	Motor Type	Flow Group	Valve Type	Reservoir Size	Valve Operation	Voltage		Options and Accessories			

1 Product Type
Z = Pump Series

2 Motor Type
U = Universal electric motor

3 Flow Group
4 = 60 in^3/min @ 10,000 psi

4 Valve Type (see page 110 for more details)
1 Dump (VE32D)
2 3 way/2 position manual or electric (VM32 or VE32)
3 3 way/3 position manual or electric (VM33 or VE33)
4 4 way/3 position manual or electric (VM43 or VE43)
6 3 way/3 position locking manual w/po check (VM33-L)
7 3 way/2 position manual (VM22)
8 4 way/3 position locking manual w/po check (VM43-L)
9 4 way/3 position manual w/power seating (VM43-LPS)

5 Reservoir Size (useable capacity)
04 = 1.0 gallon
08 = 2.0 gallon
10 = 2.5 gallon (includes side handles)
20 = 5.0 gallon (includes side handles)
40 = 10.0 gallon (includes side handles)

6 Valve Operation
D = Dump (solenoid valve w/pendant and LCD Electric)
J = Jog (manual valve w/pendant and Standard Electric (i.e. w/o LCD)
K = Jog (manual valve w/pendant and LCD Electric)
L = Manual valve w/LCD Electric (w/o pendant)
P = Manual valve w/pendant and classic electric (i.e.w/o LCD)
R = Manual valve w/Classic electric (i.e. w/o LCD) [w/o pendant]
M = Manual valve w/Standard Electric (i.e. w/o LCD) [w/o pendant]
S = Solenoid valve w/pendant and LCD Electric

7 Voltage
B = 115V, 1 ph, 50/60Hz
E = 208-240V, 1 ph, 50/60 Hz (w/European plug and CE EMC compliant)
I = 208-240V, 1 ph, 50/60 Hz (w/NEMA 6-15 plug)

8 Options and Accessories (see page 82 for possibilities)
F = Filter
G = 0-15,000 psi gauge (2 1/2") [1]
H = Heat exchanger
K = Skidbar (1 and 2 gallon reservoirs only)
L = Level/temp switch [2] [3]
N = No reservoir handles (includes lifting eyes)
R = Roll cage
T = Pressure transducer [2]
U = Foot switch

[1] Pressure gauge not available on pump models with pressure transducer
[2] These options require LCD electric
[3] Not available on 1 and 2 gallon reservoirs

Speed Chart
To determine how a "Z" pump will operate your cylinder, see the Pump/Cylinder Speed Chart in the "Yellow Pages".

Ordering Example
Model Number:
ZU4408LB-HKT
ZU4408LB-HKT is a 60 in^3/min at 10,000 psi pump with a 4-way, 3-position manual valve, a 2 gal. (8-liter) reservoir, operates on 115V, 1ph, 50/60 Hz and is specified with optional LCD electrical panel, heat exchanger, pressure transducer and skidbar.



Torque Wrench Pumps
System matched air and electric pumps provide control to operate Enerpac Torque Wrenches.

Electric Pumps

Electric, ZE-Series

ENERPAC

▼ Shown from left to right: **ZE3304MB-K, ZE4110DB-FHR**



ZE Series



Reservoir Capacity:
1.0-10.0 gal.

Flow at Rated Pressure:
40-200 in^3/min.

Motor Size:
1.0-7.5 hp

Maximum Operating Pressure:
10,000 psi

- **Features *Z-Class* high-efficiency pump design; higher oil flow and by-pass pressure, cooler running and requires 18% less current draw than comparable pumps**
- **Totally enclosed, fan-cooled industrial electric motors supply extended life and stand up to harsh industrial environments**
- **Low-voltage pendant, on certain models, provides additional safety for the operator**
- **Multiple valve and reservoir configurations provide application specific models to match the most demanding industrial applications**
- **High-strength, molded electrical enclosure protects electronics, power supplies and LCD readout from harsh industrial environments**
- **LCD readout provides a number of diagnostic and readout capabilities never before offered on an industrial pump (included with electric valve models, optional on other models)**
- **IP54 Rating for superior dust and water protection**

Electric Pumps
Ordering Matrix, ZU-Series

ENERPAC

CUSTOM BUILD YOUR ZE SERIES PUMP
If the ZE Series pump that would best fit your application cannot be found in the chart on page 85, you can easily build your custom ZE Series pump here.

▼ This is how a ZE Series Pump model is built up:

Z	E	4	4	20	L	B	-	F	H	L	T
1 Product Type	2 Motor Type	3 Flow Group	4 Valve Type	5 Useable Oil Capacity	6 Valve Opera-tion	7 Voltage		8 Options and Accessories			

1 Product Type
- **Z** = Pump Class

2 Prime movers
- **E** = Induction Electric Motor

3 Flow Group
- **3** = 40 in^3/min @ 10,000 psi
- **4** = 60 in^3/min @ 10,000 psi
- **5** = 120 in^3/min @ 10,000 psi[1)]
- **6** = 200 in^3/min @ 10,000 psi[1)]

4 Valve Types
- **0** = No valve w/coverplate
- **1** = Dump (VE32D)
- **2** = 3 way/2 position manual (VM32)
- **3** = 3 way/3 position manual or electric (VM33 or VE33)
- **4** = 4 way/3 position manual or electric (VM43 or VE43)
- **6*** = 3 way/3 position locking manual w/po check (VM33L*)
- **7** = 3 way/2 position manual (VM22)
- **8** = 4 way/3 position locking manual w/po check (VM43L)

5 Useable Oil Capacity
- **04** = 1.0 gallon[2)]
- **08** = 2.0 gallon[2)]
- **10** = 2.5 gallon
- **20** = 5.0 gallon
- **40** = 10.0 gallon

6 Valve Operation
- **D** = Dump valve (w/ pendant and LCD)
- **L** = Manual valve (w/o pendant, w/ LCD)
- **M** = Manual valve [6)] (w/o pendant or LCD)
- **N** = No valve [6)] (no electrical box)
- **S** = Solenoid valve (w/ pendant and LCD)
- **W** = No valve (w/o pendant and LCD)

7 Voltages

Single Phase
- **B** = 115V 1 ph 50-60Hz [3)]
- **E** = 208-240V 1 ph 50-60 Hz European Plug
- **I** = 208-240V 1 ph 50-60 Hz USA Plug

Three Phase [6)]
- **M** = 190-200V 3ph 50-60Hz
- **G** = 208-240V 3ph 50-60Hz
- **W** = 380-415V 3ph 50-60Hz
- **K** = 440V 3ph 50-60Hz
- **J** = 460-480V 3ph 50-60Hz
- **R** = 575V 3ph 60Hz

8 Options and Accessories (see page 88 for possibilities)
- **F** = Filter
- **G** = 0-15,000 psi gauge (2 1/2") [7)]
- **H** = Heat exchanger [4)]
- **K** = Skidbar (1 and 2 gal. reservoirs only)
- **L** = Level/temp switch [4) 5)]
- **N** = No reservoir handles (includes lifting eyes)
- **P** = Pressure switch [4)]
- **R** = Roll cage
- **S** = Single stage
- **T** = Pressure transducer [4) 7)]
- **U** = Foot switch [4)]

1) ZE5 and ZE6 series pumps only available with 3-phase motors.
2) 1 and 2 gallon reservoirs only available on ZE3 and ZE4 series pumps.
3) 115 volt pumps are supplied with 15 amp plug for intermittent use. 20 amp circuit recommended for frequent full pressure use.
4) These options require LCD electrical package. Pressure switch option only available on manual valves without locking valve. The LCD electrical package can accept either a pressure switch or pressure transducer, but not both.
5) Not available with 1 and 2 gallon reservoirs.
6) Standard Electric models with 3-phase motors are shipped without cord, motor starter or overload protection.
7) Pressure gauge not available on pump models with pressure transducer. Pressure transducer provides digital pressure readout on LCD display.

* Not available on ZE5 or ZE6 Series Pumps

Electric Pumps
Split Flow, SFP-Series

ENERPAC

▼ SFP421SJ and SFP404SJ (Gauges and retract valves not shown)



SFP Series



Reservoir Capacity:
5, 10 or 40 gallons

Split Flow Outlets:
2, 4, 6 or 8 outlets

Flow at Rated Pressure:
20 - 305 in³/min

Maximum Operating Pressure:
10,000 psi

- **2, 4, 6 or 8 split-flow outlets**
- **Individual or simultaneously operation of valves, with advance/hold/retract function**
- **Joystick (manual) controlled or pendant (solenoid) controlled valves**
- **Flow per outlet ranging from 20 to 305 in³/min at 10,000 psi**
- **For double- and single-acting cylinders**
- **Adjustable pressure relief valve per circuit**
- **Reservoir: 5, 10 or 40 gallons**
- **All models include pressure gauges**

Typical Split Flow Pump Applications

For lifting and lowering applications on multiple points, Split-Flow Pumps are a far better alternative than using independently operated pumps. Where synchronization of maximum 4% is acceptable, Split Flow Pumps are a safe and economical solution.

The SFP-Series pumps feature both single and synchronized multiple outlet control either through joystick or pendant operation.

Application examples:

- Bridge deck lifting for bearing maintenance
- Stage lifting in construction and shipbuilding
- Skidding to move structures and buildings
- Levelling of constructions like wind turbines



Remote Control Pendant

Split Flow pumps with solenoid valves include a remote pendant with selector switches for each individual outlet, allowing single or multiple cylinder operation.

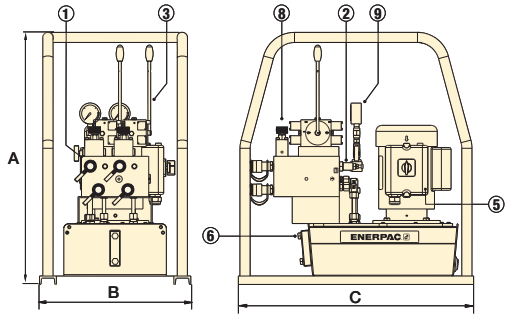


Hoses and Couplers

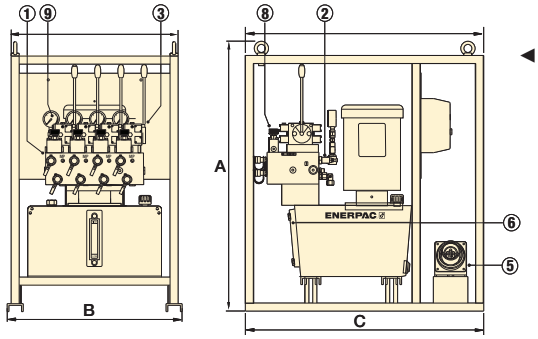
Enerpac offers a complete line of high-quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac System Components.

Electric Pumps
Split Flow, SFP-Series

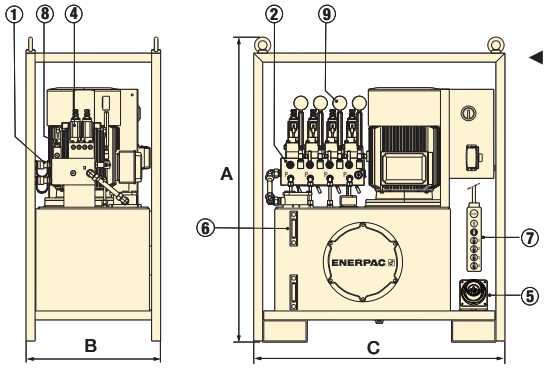
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◀ **SFP-Series with 5 gallon reservoir (shown with 2 split flow outlets)**



◀ **SFP-Series with 10 gallon reservoir (shown with 4 split flow outlets)**



◀ **SFP-Series with 40 gallon reservoir (shown with 4 split flow outlets)**

Multiple Outlets with Equal Flow for Lifting and Lowering

① Manifold with split flow outlets and CR-400 couplers
② Adjustable pressure relief valve per circuit
③ Manual 4/3 control valves with joysticks
④ Solenoid 4/3 control valves (24 VDC)
⑤ Power Receptacle
⑥ Oil sight gauge(s)
⑦ Remote control pendant with 30 ft. cord
⑧ Flow control valve
⑨ Hydraulic gauge



Lifting Cylinders

For a complete line of Enerpac cylinders, see the Cylinder and Lifting Products in our catalog.

Number of Split Flow Outlets	Reservoir Size (gal)	Oil Flow per Outlet @ 10,000 psi (in^3/min)	Pump Model Number 4/3 Valve Operation Advance/Hold/Retract Manual (Joystick)	Pump Model Number 4/3 Valve Operation Advance/Hold/Retract 24 V Solenoid (Pendant)	Motor Size 460 V - 3ph 60 Hz (hp)	Dimensions (in) A	Dimensions (in) B	Dimensions (in) C	Weight (lbs)
2	5	20	SFP202MB	–	1.0*	29.5	17.7	27.5	190
	10	94	SFP213MJ	SFP213SJ	7.5	40.1	26.0	35.4	529
	40	203	SFP228MJ	SFP228SJ	10	54.0	23.8	44.5	1076
	40	305	SFP242MJ	SFP242SJ	15	54.0	23.8	44.5	1160
4	10	33	SFP404MJ	SFP404SJ	7.5	40.1	26.0	35.4	529
	40	65	SFP409MJ	SFP409SJ	7.5	54.0	23.8	44.5	1047
	40	101	SFP414MJ	SFP414SJ	10	54.0	23.8	44.5	1076
	40	153	SFP421MJ	SFP421SJ	15	54.0	23.8	44.5	1160
6	10	33	SFP604MJ	SFP604SJ	7.5	40.1	26.0	35.4	529
	40	94	—	SFP613SJ	15	54.0	31.7	47.2	1213
8	40	94	—	SFP813SJ	20	54.0	31.7	47.2	1300

Electric Pumps

8000-Series Electric, PE-Series

ENERPAC

▼ Shown: **PEM-8418**



The Largest Pump for the Largest Jobs

PE
Series



Flow at Rated Pressure:

Reservoir Capacity:
25 gal.

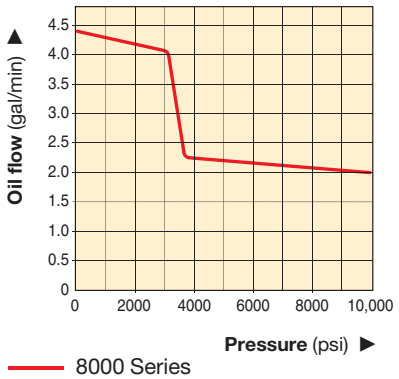
2.0 gal/min.

Motor Size:
12.5 hp

Maximum Operating Pressure:
10,000 psi

- **Panel-mounted pressure gauge and adjustable relief valve for system pressure control**
- **Two-speed pump design, with high by-pass pressure, for rapid cylinder advance**
- **Dual voltage motor (230/460 VAC, 3 phase, 60 Hz)**
- **Full length reservoir sight tube with integral thermometer for ease in monitoring oil level and temperature**
- **Low voltage controls to protect the pump operator**

OIL FLOW vs. PRESSURE



Used with Cylinder	Usable Oil Capacity (gal)	Model Number	Pressure Rating (psi) 1st stage	Pressure Rating (psi) 2nd stage	Output Flow Rate (gal/min) 1st stage	Output Flow Rate (gal/min) 2nd stage	Valve Type		(Amps)	(VAC)	(dBA)	(lbs)
Single-acting	18	PEM-8218	3,700	10,000	4.4	2.0	Manual (VM-2)	3-way, 2-pos.	33.0	230	78-84	720
	18	PEM-8218C	3,700	10,000	4.4	2.0			16.5	460	78-84	720
Double-acting	18	PEM-8418	3,700	10,000	4.4	2.0	Manual (VM-4)	4-way, 3-pos.	33.0	230	78-84	720
	18	PEM-8418C	3,700	10,000	4.4	2.0			16.5	460	78-84	720
	18	PER-8418	3,700	10,000	4.4	2.0	Solenoid (VE43)	4-way, 3-pos.	33.0	230	78-84	765
	18	PER-8418C	3,700	10,000	4.4	2.0			16.5	460	78-84	765

* Consult Enerpac for availability of other voltages.

Gas Pumps

8000-Series Gas, EGM-Series

ENERPAC

▼ Shown: **EGM-8418**



EGM
Series

Reservoir Capacity:
25 gal.

Flow at Rated Pressure:
1.5 gal/min.

Motor Size:
18 hp

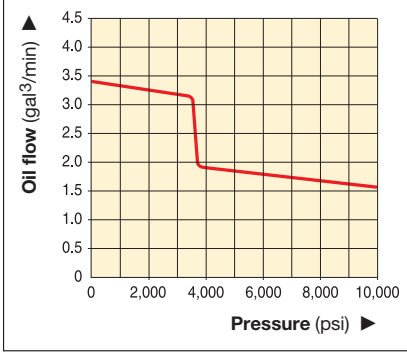
Maximum Operating Pressure:
10,000 psi

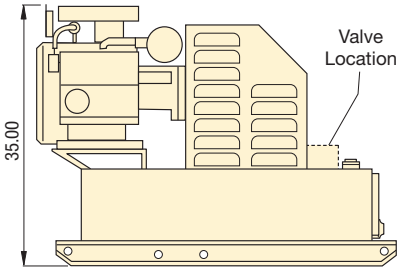


Locking Valves
Pumps with VM-4 manual valves are available with VM-4L manual valves for positive load holding. Add suffix "L" to pump model number.

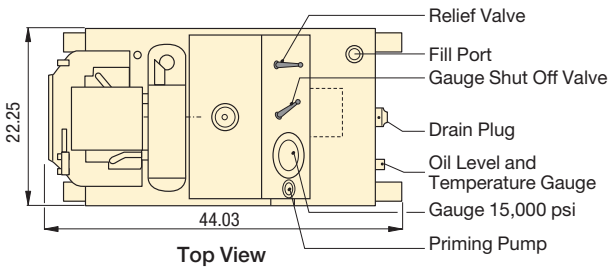
- **Industrial grade 18 hp twin-cylinder motor**
- **Panel mounted pressure gauge and adjustable relief valve for system pressure control**
- **Two-speed pump design with high by-pass pressure for rapid cylinder advance**
- **Built in oil temperature and oil level gauge**
- **External adjustable relief valve (1,200-10,000 psi) allows control of operating pressure without opening the pump**
- **Integral priming circuit guarantees quick starts after transport**

OIL FLOW vs. PRESSURE





Side View



Top View

Used with Cylinder	Usable Oil Capacity (gal)	Model Number	Pressure Rating (psi)		Output Flow Rate (gal/min)		Valve Type	Valve Function	Sound Level (dBA)	Weight (lbs)
			1st stage	2nd stage	1st stage	2nd stage				
Single-acting	18	**EGM-8218**	3,700	10,000	3.4	1.5	3-way, 2-pos.	Adv./Retr.	94	890
Double-acting	18	**EGM-8418**	3,700	10,000	3.4	1.5	4-way, 3-pos.	Adv./Hold/Retr.	94	890

Gas Pumps
ZG5-Series

ENERPAC

▼ Shown: **ZG5420MX-R**



Z Tough. Dependable. Innovative. CLASS

- **Features *Z-Class* high-efficiency pump design, higher oil flow and bypass pressure**
- **Two-speed operation reduces cycle time for improved productivity**
- **Full-sight oil level glass on all reservoirs allow quick and easy oil level monitoring**
- **ZG5 is available in two 4-cycle engine sizes: 7.1 ft.lbs Honda and 8.5 ft.lbs Briggs & Stratton**

Speed Chart

To determine how a ZG Series pump will operate your cylinder, see the Pump/Cylinder Speed Chart in the "Yellow Pages".

ZG-Series, Gasoline Pump Performance

Elevation can affect the performance of any gasoline engine. ZG-Series pumps are designed to develop rated performance at elevations up to 4921 ft.

For applications above this elevation please consult your Enerpac office.



User-Adjustable Relief Valve

All VM-Series directional valves have a user adjustable relief valve to allow the operator to easily set the optimum working pressure.

▼ **SELECTION CHART**

Used with Cylinder	Usable Oil Capacity (gal)	Valve Model Number	Valve Function	Model Number with Roll Cage	Output Flow Rate (in³/min) at 100 psi	at 700 psi	at 5000 psi	at 10,000 psi	Sound Level (dBA)	Motor Manufacturer* (ft-lbs)
Single-Acting	2.5	VM33	Advance/ Hold/ Retract	ZG5310MX-R	700	650	110	100	88 - 93	Honda
	5.0			ZG5320MX-R	700	650	110	100	88 - 93	
Double-Acting	2.5	VM43		ZG5410MX-R	700	650	110	100	88 - 93	
	5.0			ZG5420MX-R	700	650	110	100	88 - 93	
Single-Acting	2.5	VM33		ZG5310MX-BR	400	380	110	100	91 - 95	Briggs & Stratton *
	5.0			ZG5320MX-BR	400	380	110	100	91 - 95	
Double-Acting	2.5	VM43		ZG5410MX-BR	400	380	110	100	91 - 95	
	5.0			ZG5420MX-BR	400	380	110	100	91 - 95	
	10.0	VM43L		ZG5840MX-BR	400	380	110	100	91 - 95	

*To order Briggs & Stratton motor, place a "B" suffix in the model number.

Gas Pumps
ZG5-Series

ENERPAC

CUSTOM BUILD YOUR ZG AIR PUMP

▼ **This is how a ZG-Series Pump model number is built up:**

Z	G	5	4	10	M	X	-	F	R		
1 Product Type	2 Motor Type	3 Flow Group	4 Valve Type	5 Usable Oil Capacity	6 Valve Operation	7 Voltage		8 Options			

1 Product Type
Z = Pump class

2 Motor Type
G = Gasoline Engine

3 Flow Group
5 = 100 in³/min@10,000 psi
6 = 200 in³/min@10,000 psi (see page 114)

4 Valve Type
0 = No valve with coverplate [1)]
2 = 3-way, 2-position (VM32)
3 = 3-way, 3-position (VM33)
4 = 4-way, 3-position (VM43)
6 = 3-way, 3-position, locking (VM33L)
8 = 4-way, 3-position, locking (VM43L)

[1)] For remote valve mounting order **BSS1090** high pressure connecting plate.

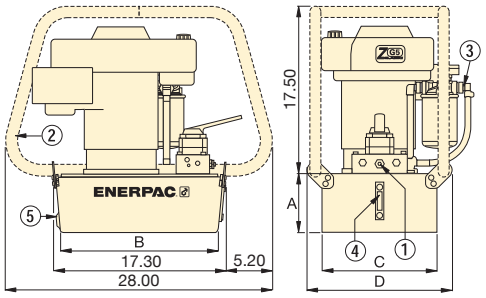
5 Usable Oil Capacity (Reservoir Size)
10 = 2.5 gallon
20 = 5.0 gallon
40 = 10.0 gallon

6 Valve Operation
M = Manual valve
N = No valve

7 Voltage
X = Not applicable

8 Options
(Specify in alphabetical order)
B = Briggs & Stratton gasoline engine
F = Return Line Filter
G = 15,000 psi gauge
N = No reservoir handles (includes lifting eyes; 2.5, 5, 10 gallon only)
R = Roll bars

Ordering Example
Model Number: **ZG5420MX-FR**
This is a 10,000 psi hydraulic pump, with a 4/3 manual valve, 2.5 gallon reservoir, with a 7.1 ft-lbs Honda gasoline engine pump, return-line filter and roll bar.



① User-adjustable relief valve on all manual valves. 3/8" NPTF on A and B ports; 1/4" NPTF on auxiliary ports.
② Roll Bar (optional)
③ Return Line Filter (optional)
④ Oil Level Gauge
⑤ Oil Drain

	Relief Valve Adjustment Range (psi)	Reservoir Size (gal)	ZG5 Dimensions (in) A	B	C	D	Weight (lbs)	Model Number with Roll Cage
	1000-10,000	2.5	6.1	16.5	12.0	15.1	113.6	**ZG5310MX-R**
		5.0	7.1	16.3	16.6	19.7	140.9	**ZG5320MX-R**
		2.5	6.1	16.5	12.0	15.1	113.6	**ZG5410MX-R**
		5.0	7.1	16.3	16.6	19.7	141.0	**ZG5420MX-R**
	1000-10,000	2.5	6.1	16.5	12.0	15.1	111.0	**ZG5310MX-BR**
		5.0	7.1	16.3	16.6	19.7	138.3	**ZG5320MX-BR**
		2.5	6.1	16.5	12.0	15.1	111.1	**ZG5410MX-BR**
		5.0	7.1	16.3	16.6	19.7	138.4	**ZG5420MX-BR**
		10.0	10.6	15.7	19.8	21.9	189.6	**ZG5840MX-BR**

ZG5 Series



Reservoir Capacity:
2.5 - 5 - 10 gal.

Flow at Rated Pressure:
100 in³/min.

Engine Size:
7.1 and 8.5 Ft.lbs

Maximum Operating Pressure:
10,000 psi

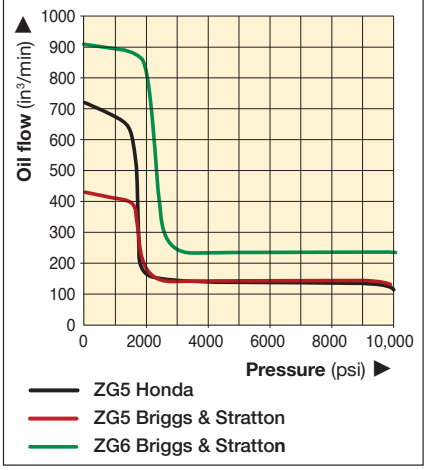


High-Pressure Hoses
Enerpac offers a complete line of high-quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.



ZG6-Series 17.0 Ft-lb Pump
The ZG6 pump has a 200 in³/min. oil flow at 10,000 psi, Briggs & Stratton 4-cycle gasoline engine with electric start and 12 volt charge output for accessories.

OIL FLOW vs. PRESSURE



Hydraulics

Heavy Lifting Technology
Overview

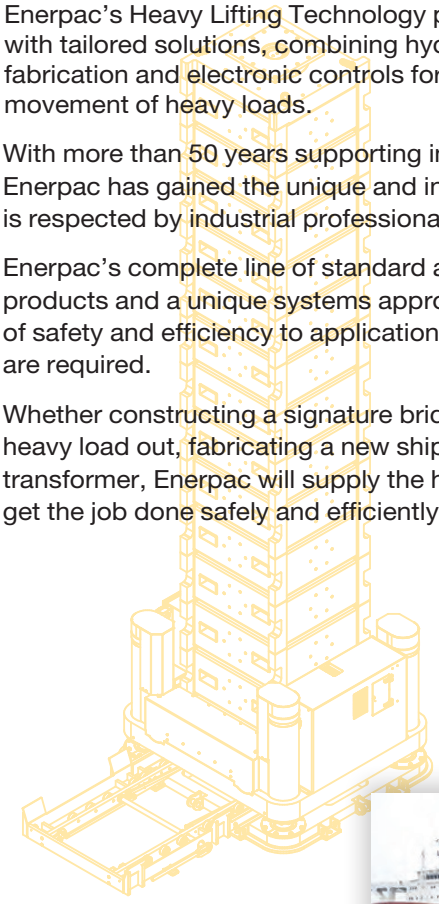
ENERPAC

Enerpac's Heavy Lifting Technology provides customers with tailored solutions, combining hydraulics, steel fabrication and electronic controls for safe, precise movement of heavy loads.

With more than 50 years supporting industrial markets, Enerpac has gained the unique and in-depth expertise that is respected by industrial professionals around the world.

Enerpac's complete line of standard and customized products and a unique systems approach offers the benefits of safety and efficiency to applications where high forces are required.

Whether constructing a signature bridge, performing a heavy load out, fabricating a new ship or positioning a large transformer, Enerpac will supply the hydraulic solutions to get the job done safely and efficiently.





Synchronous superlift and launch



Jacking with high capacity precision control



Synchronous hoisting and load positioning



Precision lift and position of heavy loads

EXPERIENCE and EXPERTISE



HYDRAULICS
Moving heavy loads with hydraulic systems is our core expertise. Enerpac designs, manufactures, integrates and tests complete hydraulic systems in house.



ELECTRONICS
Our in-house team of electrical engineers combine their knowledge of heavy lifting equipment to tailor system controls to match unique project requirements.



STEEL FABRICATION
Enerpac has a dedicated facility for steel fabrication and welding. We design and manufacture custom structures used in demanding heavy-lifting applications.

Heavy Lifting Technology
Modular Trailer

ENERPAC

▼ Shown: **SPMT600-360**



- **Modular design for multiple configurations**
- **Minimized height and slim design are ideal for in-plant operation**
- **Intelli-Drive wireless control system is intuitive and easy to use**
- **One power pack can operate 2-3 trailers maximum depending on model**
- **Two trailers and power pack can be shipped inside a 20 ft. container**
- **Hydraulic power unit is tier-4 diesel engine for reduced emissions**

SPMT
Series

Capacity (per transporter):
67 tons

Transport Speed (unloaded-loaded):
1.9 - 1.0 mph

Motor Size:
75 hp

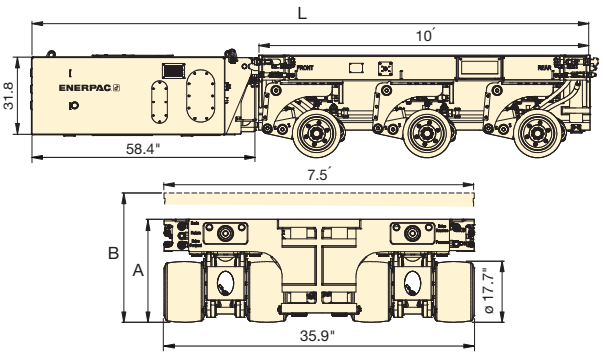
Self-Propelled Modular Transporter

The Enerpac Self-Propelled Modular Transporter (SPMT) features a minimized height and slim design, which makes it very easy to operate in confined spaces. Each wheel unit has a steering function as well as a lifting cylinder at its disposal. Wheel propulsion is established by wheel drives.

The SPMT is operated by the Intelli-Drive Remote Controller. This remote controller can be used both hard wired and wireless (based on radio frequency).

The SPMT is a modular system comprised of trailers with 3 axle lines each and diesel hydraulic power units (HPU). Depending on the model number, the trailers and HPUs can be configured to a maximum of 4 trailers in 2 rows (4x2) or 6 trailers in 2 rows (6x2).

This is the maximum setup of units that can work together on just one Intelli-Drive Remote Controller.



Capacity (per transporter) (ton)	Transporter Model Number	Maximum Configuration (transporters in rows)	Steering Range (degrees)	Steering Mode: crab	Steering Mode: carousel	Retracted Height A (in)	Average Travel Height B (in)	Overall Length L (ft)	Lifting Stroke (in)	Wt. (SPMT) (lbs)	HPU * Model No.	Wt. (HPU*) (lbs)
67	SPMT600-100	4 x 2	±50°	•	–	30.20	37.76	14.96	15.12	15,432	MTPP-100	5512
	SPMT600-360	6 x 2	±179°	•	•	30.07	37.64	17.02	15.12	17,637	MTPP-360	5512

** HPU = 54 kW Power Pack Diesel. HPU is sold separately.*

Heavy Lifting Technology
Syn Lifting System

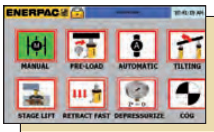
ENERPAC

▼ **EVO-8** (shown with 4 cylinders and stroke sensors, (sold separately)



- **Lifting system to control 4, 8 or 12 lifting points (12 points for Standard EVO only)**
- **Intuitive user interface provides easy set-up and control with multiple lifting options**
- **Accuracy of up to 0.040 in (1 mm) between leading and lagging cylinders**
- **For use with standard single- or double-acting cylinders**
- **Built in warning and stop alarms for optimum safety**
- **Available with several flow options for optimal lifting speed**

The Multi-Functional Synchronous Lifting System



Ease of Operation

- A single operator controls the entire operation
- User friendly interface: visual screens, icons, symbols and color coding



Lifting Cylinders

For a complete line of Enerpac cylinders, see the cylinder and lifting products in our catalog.



Hoses

Enerpac offers a complete line of high-quality hydraulic hoses. To ensure the integrity of your system, specify only genuine Enerpac hydraulic hoses.

Enerpac's family of EVO Synchronous Lifting Systems provides precision control suitable for most lifting/lowering applications. Custom systems tailored to unique project requirements are also available.

The Standard EVO Synchronous Lift System

It's a comprehensive self-contained design that features simple to use software that is extremely efficient at completing basic to complex applications.

The Basic EVOB Synchronous Lift System

Leveraging Enerpac's market leading Z-Class pumps and components from the standard EVO, the EVOB offers an economical solution to basic applications requiring stroke only control for a maximum of 8 lifting points.

▼ *Shown: 3600-ton tunnel boring machine lowered and tilted into its starting position with the EVO-Series Synchronous Lifting System.*



Heavy Lifting Technology

Syn Lifting System

ENERPAC

CUSTOM BUILD YOUR OWN SYNCHRONOUS LIFTING SYSTEM

▼ This is how a SyncLift model number is built up.

EVO	12	40	460	W
1 Product Type	2 Lift Points	3 Flow Group	4 Voltage	5 Options

1 Product Type

EVO = Standard SyncLift System
EVOB = Basic SyncLift System

2 Lift Points

4 = 4 Lift Points
8 = 8 Lift Points
12 = 12 Lift Points (EVO only)

3 Flow Group (in³/min) 60Hz

EVO
21 = 153
40 = 293

EVOB
05 = 40
08 = 60
16 = 120*

*only available with 3 Ph motor

4 Voltage [1)]

EVO
380 = 380-415 V, 3 Ph, 50-60 Hz
460 = 460-480 V, 3 Ph, 50-60 Hz

EVOB
B = 115 V, 1 Ph, 50-60 Hz
E = 208-240 V, 1 Ph, 50-60 Hz
G = 208-240 V, 3 Ph, 50-60 Hz
W = 380-415 V, 3 Ph, 50-60 Hz
J = 460-480 V, 3 Ph, 50-60 Hz
R = 575 V, 3 Ph, 60 Hz

5 Options

W = Weighing
(Only available with the EVO Standard SyncLift System)

Weighing option includes load cell inputs with special programming for calibration and center of gravity.

[1)] 115 VAC supply voltage required for pumps with G, J, R suffixes.
230 VAC supply voltage required for pumps with W suffix.

Ordering Examples:

Model Number: EVO821460W
EVO has 8 lift points, 153 in³/min, and voltage is 460-480 V, 3-Phase, 50-60 Hz with weighing option.

Model Number: EVOB408B
EVOB has 4 lift points, 60 in³/min, and voltage is 115 V, 1-Phase, 50-60 Hz.

EVO Series



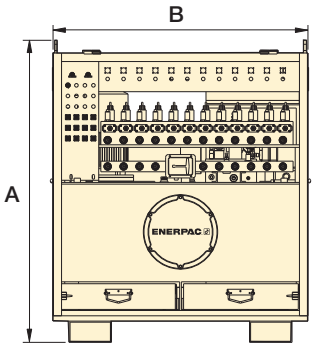
Reservoir Capacity:
10 or 66 gallons

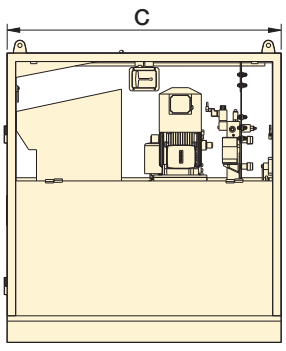
Number of Lifting Points:
4, 8 or 12

Accuracy:
0.040 inch

Motor Size:
1-10 hp

Maximum Operating Pressure:
10,000 psi





Series	Reservoir Capacity (gal)	A (in)	B (in)	C (in)	Motor Size (hp)	Weight (lbs)
EVO	66	63.37	54.07	55.00	5-10	3000
EVOB	10	48.57	34.00	32.43	1-3	610

▼ *Synchronous lift system used to lift a 1000-ton building.*



Heavy Lifting Technology
Strand Jacks

ENERPAC

▼ Shown: **HSL50006 Strand Jack**



Heavy Lifting Strand Jacks

High Capacity - Precision Control

- **Precision control of synchronous lifting and lowering**
- **Can be controlled by a single operator from a central location for increased safety**
- **Automated locking - unlocking operation**
- **Two strand sizes: 0.62 in (15.7 mm) and 0.71 in (18 mm)**
- **Telescopic strand guide pipes prevent bird caging**
- **Internal components are coated with Lunac, an anti-corrosion coating, making it suitable for marine environments**
- **Lifting anchor included with all strand jacks**
- **Lloyds witness tested to 125% of maximum working load**

Strand Jacks

Enerpac strand jacks are the strand jacks of choice for customers seeking precise synchronous control with heavy lifting capacity in an economical, compact, and reliable foot print.

Enerpac strand jacks are powered by electrical or diesel driven hydraulic power packs and controlled by Enerpac's proprietary SCC-Smart Cylinder Control System to ensure full control of lifting and lowering operations.

Enerpac continually improves reliability, durability, and safety of their strand jacks, making them an industry standard for heavy lifting.

▼ *Shown: HSL85007 Strand Jack System used on Enerpac custom Self-Erecting Tower.*



▼ *Enerpac's SCC-Smart Cylinder Control System simplifies synchronous operation with intuitive controls and a user-friendly graphical interface.*



Heavy Lifting Technology
Strand Jacks

ENERPAC

Strand Jacks

A strand jack can be considered a linear winch. In a strand jack, a bundle of steel strands are guided through a main "lifting" jack. Above and below the cylinder are anchor systems with wedges that grip the strand bundle simultaneously. Lifting and lowering a load is achieved by hydraulically controlling the main jack and both mini jacks alternately.

In the case of system pressure loss, the wedges are mechanically closed automatically, holding the suspended load in place.

Today, strand jacks are widely recognized as the most sophisticated heavy lifting solution. They are used all over the world to erect bridges, load out offshore structures, and lift/lower heavy loads where the use of conventional cranes is neither economical nor practical.

HSL Series

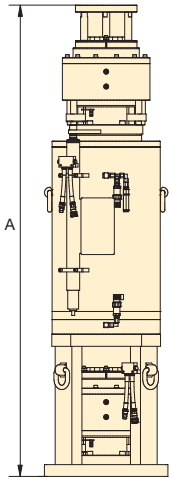


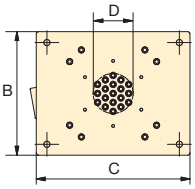
Capacity:
17-1405 tons

Stroke:
9.8-23.6 inches

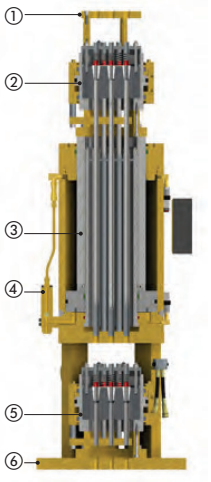
Maximum Operating Pressure:
5,000 psi

Shown: HSL20006 Strand Jack





① Strand Guide
② Top Mini Jack
③ Main Lifting Jack
④ Counter Balance Valve
⑤ Bottom Mini Jack
⑥ Chair



Strand Diameter inch (mm)	Capacity (tons)	Model Number	No. of Strands	Stroke (in)	A (in)	B (in)	C (in)	D (in)	Wt. (lbs)
0.62 (15.7)	34	HSL3006	3	18.9	72.9	13.8	19.7	2.3	1,102
	79	HSL7006	7	18.9	75.4	14.2	22.6	3.7	1,411
	225	HSL20006	19	18.9	78.4	20.6	25.6	6.7	2,860
	337	HSL30006	31	18.9	80.6	26.5	26.5	8.5	4,820
	562	HSL50006	48	18.9	84.1	28.9	28.9	10.7	6,930
0.71 (18)	17	HSL1507	1	9.8	48.9	8.7	8.7	0.8	220
	51	HSL4507	3	18.9	68.0	13.8	19.7	2.9	1,102
	67	HSL6007	4	18.9	69.0	15.7	24.6	3.5	1,433
	112	HSL10007	7	18.9	75.8	16.1	24.6	4.6	1,874
	225	HSL20007	12	18.9	78.8	20.6	25.6	6.5	3,086
	337	HSL30007	19	18.9	80.9	26.5	26.5	8.3	4,290
	506	HSL45007	31	18.9	87.5	28.9	28.9	10.7	6,724
	731	HSL65007	43	18.9	88.1	33.5	33.5	13.8	8,690
	955	HSL85007	55	18.9	94.6	35.4	35.4	14.3	11,023
	1124	HSL100007	66	18.9	100.7	43.0	43.0	17.2	16,865
	1405	HSL125007	84	23.6	104.6	43.3	43.3	18.0	18,298

▼ **Strand Jack Accessories –**
Contact Enerpac for assistance at **enerpac.com/contact-us**



SLPP-Series Hydraulic Power Packs
Enerpac offers a comprehensive range of hydraulic power packs that are optimized for use with their industry leading strand jacks.



SG-Series Strand Guide
Provides a guide for the strand as a strand jack lifts the load.



SR-Series Strand Recoiler
Passively pays in or pays out strands while jacking and lowering.



SD1 Strand Dispenser
Essential to safely unbundle a new strand coil.



Lifting Anchor
Each Strand Jack includes a lifting anchor for attaching strand to the load.

Heavy Lifting Technology
Gantry Systems

ENERPAC



- **Self-contained hydraulics and electronics**
- **Intelli-Lift wireless control system**
- **Self-propelled wheels or tank rollers**
- **Foldable boom on SBL900, SBL1100, MBL500 and MBL600**
- **Full range of supplementary equipment: header beams, lifting lugs, side shift, skid tracks**
- **Designed and tested to meet ASME B30.1-2015 safety standards**
- **Lloyds witness tested to 120% of maximum working load**

Precision Lift and Position of Heavy Loads

The Ultimate in Safety and Control



INTELLI-LIFT

The Intelli-Lift wireless control system is included with all Enerpac hydraulic gantries. The Intelli-Lift controller offers superior safety and control and includes the following features:

- Encrypted bi-directional communication that eliminates interference from other devices
- Remote operation using multi-channel wireless (2.4 GHz) or wired (RS-485) control
- High and low speed settings
- Automatic synchronization of lifting with an accuracy of 0.95 inch (24 mm)
- Automatic synchronization of travelling with an accuracy of 0.60 inch (15 mm)
- Overload and stroke alarms
- Remote side shift control
- Emergency stop switch

▼ *Shown: SBL1100*



Maximum Capacity (4 legs) (tons)	Model No.	Retracted Height A (ft)
67	**SL60**	6.57
141	**SL125**	8.66
337	**SL300**	8.87
450	**SL400**	10.39
585	**SBL500**	9.93
1009	**SBL900**	16.42
1178	**SBL1100**	14.34
562	**MBL500**	20.01
674	**MBL600**	21.50

Heavy Lifting Technology
Gantry Systems

ENERPAC

Hydraulic Gantries

Hydraulic Gantries are a safe, efficient way to lift and position heavy loads in applications where traditional cranes will not fit and permanent overhead structures for job cranes are not an option.

Hydraulic Gantries are placed on skid tracks to provide a means for moving and placing heavy loads, many times with only one pick.

Enerpac offers three series of Hydraulic Gantry systems:

- **SL-Series Super Lift**
  The cost-effective SL-Series Super Lift offer control and stability for everyday lifting applications below 450 ton up to 25 feet.
- **SBL-Series Super Boom Lift**
  The heavy-duty SBL-Series Super Boom Lift boom style gantries offer increased lifting capacity of over 450 ton to heights of almost 40 feet.
- **MBL-Series Mega Boom Lift**
  The massive **MBL-Series Mega Boom Lift** offers capacities and lifting heights of over 600 ton at almost 47.7 feet extreme lifting conditions.

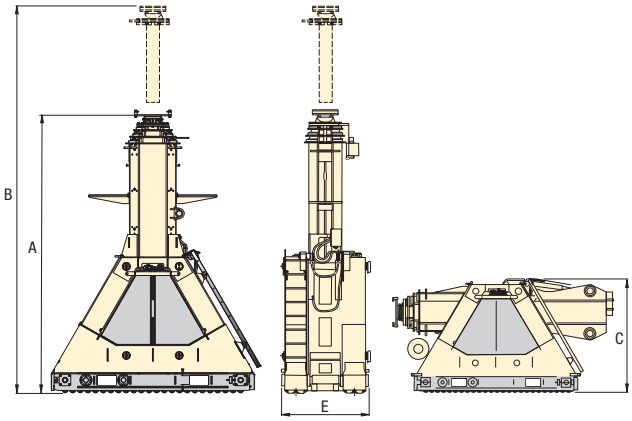
All Enerpac gantries are delivered with specific properties and control systems to ensure optimum stability and safety.

SL, SBL, MBL Series



Capacity:
67-1178 tons

Lift Height:
15.43-47.74 feet



Drawing shows SBL-series, SL-sereis without boom.

	Stage 1		Stage 2 [1]		Stage 3		Transport Height	Base Width	Weight per Leg (with oil)	Model No. (4 towers)
	Max. Height B (ft)	Max. Cap. (ton)	Max. Height B (ft)	Max. Cap. (ton)	Max. Height B (ft)	Max. Cap. (ton)	C (ft)	E (in)	(lbs) [2]	
	11.17	17	15.43	17	–	–	–	31.50	2315	**SL60**
	15.01	35	21.78	35	–	–	–	36.69	4696	**SL125**
	15.11	84	21.98	56	–	–	8.87	34.65	7165	**SL300**
	17.14	112	23.73	112	29.99	52	–	49.45	10,141	**SL400**
	16.40	146	22.66	146	28.27	84	–	50.43	13,889	**SBL500**
	27.24	252	37.07	166	–	–	7.36	55.43	29,432	**SBL900**
	22.98	295	31.72	190	39.38	106	7.36	55.43	26,345	**SBL1100**
	–	–	42.21	141	–	–	7.36	83.90	43,541	**MBL500**
	–	–	47.74	169	–	–	8.28	95.71	46,187	**MBL600**

[1] MBL500 and MBL600 are two stage gantries; stages 1 and 2 extend simultaneously and provide full capacity at any height.
[2] Weight per tower

▼ **Additional Accessories –**
Contact Enerpac for assistance at **enerpac.com/contact-us**



Skid Tracks
Skid tracks used for leveling and load distribution. Available in two standard lengths, 10 feet and 20 feet.



Header Beams
Sold in pairs and includes lifting points and fork pockets for easy positioning on gantry towers.
Available in 26.24 ft., 32.80 ft. and 39.36 ft. lengths.



Powered Side Shift
Electric propulsion controlled by standard gantry controls. Each set consists of 4 units.



Lifting Anchors
Designed to transfer the load to the top of the header beam. Can accommodate a 250 ton shackle or attach directly to the lifted load.

General Purpose Cylinders
Single-Acting, R-Series

SIMPLEX



R556 Shown

Capacity ..... ▶ 5 - 100 tons
Stroke ..... ▶ .62 - 14.38 in.
Maximum Pressure ..... ▶ 10,000 psi

- ▶ HD internal spring for fast retract assistance.
- ▶ Heat treated load caps are standard.
- ▶ Stop ring for piston blow-out protection.
- ▶ Plated piston resists scoring & corrosion.
- ▶ High flow couplers are plated to resist corrosion.
- ▶ Rod wiper protects inner cylinder from dirt.



HOSES
Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.



POWER PUMPS
Simplex offers a wide variety of lightweight power pumps to fit any application.



GAUGES
Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.



THINK SAFETY



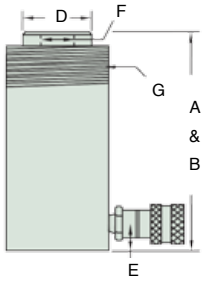
MANIFOLDS
The ideal solution in obtaining precise control when operating multiple cylinders.

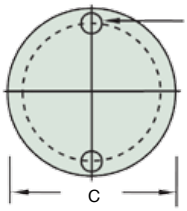
This R10010 is used to press the drive shaft into a large industrial fan during standard maintenance. When combined with a Simplex power pump, this job was completed quickly and safely. ▼



General Purpose Cylinders
Single-Acting, R-Series

SIMPLEX





** R50 Base Mounting hole 7/32 through x 23/64 "C" bore (1/4" depth).*

Standard Base Mounting Holes R51 through R10010 Cylinders

Model	Bolt Circle (in)	Thread (in)	Thread Depth (in)
5 Ton*	1	.25 - 20 UNC	.56
10 Ton	1.56	.31 - 18 UNC	.50
15 Ton	1.88	.38 - 16 UNC	.50
25 Ton	2.31	.5 - 13 UNC	.75
30 Ton	----	----	----
55 Ton	3.75	.5 - 13 UNC	.75
75 Ton	----	----	----
100 Ton	5.5	.75 - 10 UNC	1.00

Model	Cap. (Tons)	Stroke (in)	Oil Cap. Req'd (cu in)	Ram Bore Dia. (in)	Effect Area (sq.in.)	Pres. @ Cap. (psi)	A	B	C	D	E	F		G		Wgt. (lbs)
							Min. Height (in)	Ext. Height (in)	Body O.D. (in)	Piston O.D. (in)	Base to Port C/L (in)	Piston I.D. Thrds (in)	Piston Threads Depth (in)	Collar Threads (in)	Collar Threads Lgth (in)	
R50	5	0.62	0.6	1.13	0.99	10,000	1.62	2.24	2.62	1.00	0.75	----	----	----	----	2.5
R51	5	1.13	0.99	1.13	0.99	10,000	4.37	5.50	1.5	1.00	0.75	.75 --16	0.75	1.5 -- 16	1.13	2.3
R53	5	3.13	2.98	1.13	0.99	10,000	6.52	9.65	1.5	1.00	0.75	.75 --16	0.75	1.5 -- 16	1.13	3.3
R55	5	5.13	4.97	1.13	0.99	10,000	8.52	13.65	1.5	1.00	0.75	.75 --16	0.75	1.5 -- 16	1.13	4.1
R57	5	7.18	6.96	1.13	0.99	10,000	10.75	17.93	1.5	1.00	0.75	.75 --16	0.75	1.5 -- 16	1.13	5.3
R59	5	9.18	9.07	1.13	0.99	10,000	12.83	22.01	1.5	1.00	0.75	.75 --16	0.75	1.5 -- 16	1.13	6.1
R101	10	1.03	2.3	1.69	2.24	8,945	3.50	4.53	2.25	1.50	0.75	----	----	2.25 -- 14	1.13	4
R102	10	2.19	4.18	1.69	2.24	8,945	4.78	6.97	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	5.1
R104	10	4.19	9.2	1.69	2.24	8,945	6.78	10.97	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	7.2
R106	10	6.00	13.7	1.69	2.24	8,929	9.78	15.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	9.8
R108	10	8.00	17.89	1.69	2.24	8,929	11.78	19.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	12
R1010	10	10.00	22.65	1.69	2.24	8,929	13.78	23.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.13	14
R1012	10	12.00	26.84	1.69	2.24	8,929	15.78	27.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.06	15
R1014	10	14.00	31.31	1.69	2.24	8,929	17.78	31.78	2.25	1.50	0.75	1 -- 8	0.75	2.25 -- 14	1.06	18
R152	15	2.13	6.28	2.00	3.14	9,554	5.83	7.96	2.75	1.63	0.75	1 -- 8	1.00	2.75 -- 16	1.19	9
R154	15	4.13	12.57	2.00	3.14	9,554	7.83	11.96	2.75	1.63	0.75	1 -- 8	1.00	2.75 -- 16	1.19	11
R156	15	6.38	19	2.00	3.14	9,554	10.69	17.07	2.75	1.63	1.00	1 -- 8	1.00	2.75 -- 16	1.19	15
R1510	15	10.38	31.4	2.00	3.14	9,554	14.69	25.07	2.75	1.63	1.00	1 -- 8	1.00	2.75 -- 16	1.19	21
R1514	15	14.38	44	2.00	3.14	9,554	18.69	33.07	2.75	1.63	1.00	1 -- 8	1.00	2.75 -- 16	1.19	26
R251	25	1.00	5.16	2.56	5.16	9,690	5.50	6.50	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	13
R252	25	2.00	10.31	2.56	5.16	9,690	6.50	8.50	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	14
R254	25	4.00	20.63	2.56	5.16	9,690	8.50	12.50	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	18
R256	25	6.19	32.23	2.56	5.16	9,690	10.75	16.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	22
R258	25	8.19	42.55	2.56	5.16	9,690	12.75	20.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	27
R2510	25	10.19	52.86	2.56	5.16	9,690	14.75	24.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	31
R2512	25	12.19	63.18	2.56	5.16	9,690	16.75	28.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	36
R2514	25	14.19	73.49	2.56	5.16	9,690	18.75	32.94	3.62	2.25	1.00	1.5 -- 16	1.13	3.31 -- 12	1.93	39
R308	30	8.25	53.6	2.88	6.49	9,245	15.25	23.50	4	2.25	2.25	1.5 -- 16	1.00	3.31 --12	1.93	40
R552	55	2.00	22.08	3.75	11.04	9,960	6.94	8.94	5	3.13	1.38	----	----	5 -- 12	2.81	33
R554	55	4.00	44.16	3.75	11.04	9,960	8.94	12.94	5	3.13	1.38	----	----	5 -- 12	2.81	42
R556	55	6.19	69	3.75	11.04	9,960	11.06	17.25	5	3.13	1.38	----	----	5 -- 12	2.81	51
R5513	55	13.25	146.3	3.75	11.04	9,960	18.26	31.51	5	3.13	1.38	----	----	5 -- 12	2.81	83
R756	75	6.06	95.4	4.50	15.90	9,430	11.31	17.37	5.75	3.75	1.19	----	----	5.75 -- 12	1.75	65
R7513	75	13.06	208	4.50	15.90	9,430	19.38	32.44	5.75	3.75	1.19	----	----	5.75 -- 12	1.75	130
R1006	100	6.63	137	5.13	20.63	9,695	14.06	20.69	7	4.13	1.62	----	----	6.87 -- 12	1.75	90
R10010	100	10.25	212	5.13	20.63	9,695	17.69	27.94	7	4.13	1.62	----	----	6.87 -- 12	1.75	110

Hollow Plunger Cylinders
Double-Acting, RCD-Series

SIMPLEX



RC603A Shown

Capacity Range ▶ 12 - 100 tons
Stroke Range ▶ .31 - 6.13 in.
Maximum Pressure ▶ 10,000 psi

- ▶ Induction hardened piston rod for added strength eliminating the need for a loadcap.
- ▶ Collar threads for easy fixturing.
- ▶ Design allows for both push & pull forces.
- ▶ Large center hole for greater flexibility.



POWER PUMPS
Simplex offers a wide variety of lightweight power pumps to fit any application.

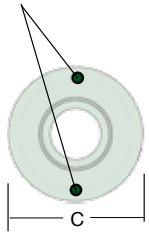


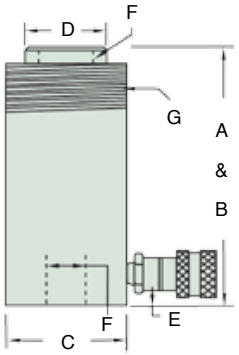
CENTER HOLE
Corrosion resistant technology on the piston rod and retaining nut extends cylinder life.

Base Mounting Hole Dimensions

Model	Bolt Circle (in)	Thread (in)	Thread Depth (in)
RC120A	2.00	5/16 - 18 UNC	.25
RC121A	NO TAPPED HOLES		
RC123A	2.00	5/16 - 18 UNC	.50
20 Ton	3.25	3/8 - 16 UNC	.37
30 Ton	3.63	3/8 - 16 UNC	.62
60 Ton	5.13	1/2 - 13 UNC	.55
RC1003A	7.00	5/8 - 11 UNC	.75

• Refer to Base Mounting Table





Model	Cap. (tons)	Stroke (in)	Oil Capacity Required (cu. in.)	Effect Area (sq.in.)	Pres. @ Cap. (psi)	A	B	C	D	E	F	G		Wgt. (lbs)
						Minimum Height (in)	Extended Height (in)	Body O.D. (in)	Piston O.D. (in)	Base to Port C/L (in)	Center Hole Diameter (in)	Collar Threads (in)	Collar Thread Length (in)	
RC120A	12	0.31	.86	2.76	8,695	2.2	2.5	2.75	1.38	0.38	.77	2 3/4-16	1.19	3.5
RC121A	12	1.63	4.5	2.76	8,695	4.75	6.38	2.75	1.38	0.98	.77	2 3/4-16	1.19	6.5
RC123A	12	3	8.3	2.76	8,695	7.25	10.25	2.75	1.38	0.98	.77	2 3/4-16	1.19	10
RC202A	20	2	9.46	4.73	8,456	6.42	8.42	3.88	2.12	0.75	1.06	3 7/8-12	1.50	17
RC206A	20	6.10	28.67	4.73	8,456	12.09	18.09	3.88	2.12	0.75	1.06	3 7/8-12	1.50	31
RC302A	30	2.5	18.05	7.22	8,310	7.03	9.53	4.5	2.5	0.85	1.31	4 1/2-12	1.66	24
RC306A	30	6.13	44.23	7.22	8,310	13	19.13	4.5	2.5	1.00	1.31	4 1/2-12	1.66	48
RC603A	60	3	38.29	12.73	9,426	9.75	13.25	6.26	3.62	1.25	2.12	6 1/4-12	1.91	62
RC606A	60	6	76.41	12.73	9,426	12.75	18.75	6.26	3.26	1.25	2.12	6 1/4-12	1.91	78
RC1003A	100	3	62	20.60	9,694	10	13	8.38	5	1.50	3.11	8 3/8-12	2.38	132

Hollow Plunger Cylinders

Single-Acting, RC-Series

SIMPLEX



RCD307A Shown

Capacity Range ..... ▶ 30 - 500 tons
Stroke Range ..... ▶ 3 - 10.13 in.
Maximum Pressure ..... ▶ 10,000 psi

- ▶ Induction hardened piston rod for added strength eliminating the need for a loadcap.
- ▶ Performance Nitride/QPQ corrosion resistant technology on the piston rod and retaining nut for extended cylinder life.
- ▶ Large center hole for greater flexibility.



RELIEF VALVE
Relief valve prevents damage in case of over pressurization.

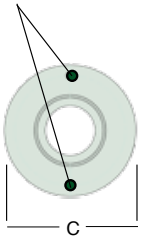


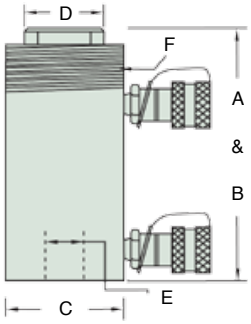
HOSES
Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

Base Mounting Hole Dimensions

Model	Bolt Circle (in)	Thread (in)	Thread Depth (in)
30 Ton	3.63	3/8 - 16 UNC	.62
60 Ton	5.12	1/2 - 13 UNC	.55
100 Ton	7.00	5/8 - 11 UNC	.75

• Refer to Base Mounting Table





Model	Push Capacity (tons)	Stroke (in)	Oil Capacity Required (cu.in.)	Push Effect Area (sq.in.)	Pres. @ Cap. (psi)	A	B	C	D	E	F		Wgt. (lbs)
						Minimum Height (in)	Extended Height (in)	Body O.D. (in)	Piston O.D. (in)	Center Hole Dia. (in)	Collar Threads (in)	Collar Threads Length (in)	
RCD307A	36	7	50.55	7.22	8,310	13	20	4.5	2.5	1.31	4 1/2-12	1.66	48
RCD6010A	64	10.12	128.94	12.73	9,426	17.25	27.37	6.26	3.62	2.13	6 1/4-12	1.91	101
RCD1003A	103	3	61.88	20.63	9,694	10	13	8.38	5.0	3.13	8 3/8-12	2.38	135
RCD1006A	103	6	123.76	20.63	9,694	13.50	19.50	8.38	5.0	3.13	8 3/8-12	2.38	175
RCD10010A	103	10.13	208.84	20.63	9,694	18.12	28.25	8.38	5.0	3.13	8 3/8-12	2.38	235
RCD1505	150	5	78	31.6	9,491	13.13	18.13	10	6	3.13	---	---	240
RCD2006C	246	6	172	49.3	10,000	16.25	22.25	12	8	4.13	---	---	385
RCD3006C	434	6	296	91.5	10,000	18.75	24.75	15	9.5	4.25	---	---	720
RCD5006C	646	6	463	129.3	10,000	21.5	27.5	17.75	12	5.25	---	---	1230

Low Height Cylinders
Single-Acting, RLS-Series

SIMPLEX



RLS201 Shown

Capacity ..... ▶ 10 - 100 tons
Stroke ..... ▶ 1.5 - 2.44 in.
Maximum Pressure ..... ▶ 10,000 psi

- ▶ Compact low-profile design.
- ▶ HD spring for fast retraction.
- ▶ Grooved plunger to stabilize the load.
- ▶ Stop ring for piston blow-out protection.
- ▶ Rod wiper protects inner cylinder from dirt.
- ▶ Plated piston to resist scoring & corrosion.



GAUGES
Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.



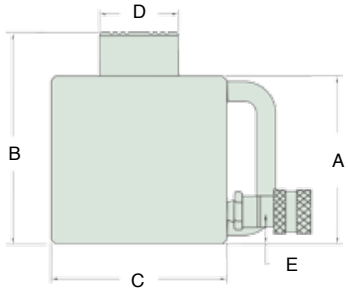
IN-LINE VALVES
Maximize control and safety with our in-line valves.



POWER PUMPS
Simplex offers a wide variety of lightweight power pumps to fit any application.

Simplex RLS Series provides the ideal fit and force required for most bridge lifting and pier cap maintenance jobs.▼





Model	Cap. (tons)	Stroke (in)	Oil Capacity Required (cu.in.)	Ram Bore Diameter (in)	Effect Area (sq in)	Pressure @ Capacity (psi)	A Minimum Height (in)	B Extended Height (in)	C Body O.D. (in)	D Piston O.D. (in)	E Base to Port C/L (in)	Wgt. (lbs)
RLS101	10	1.5	3.4	1.68	2.24	8,940	3.47	4.97	2.75	1.5	.68	9
RLS201	20	1.75	7.8	2.38	4.43	9,030	3.87	5.62	3.62	2	.68	11
RLS302	30	2.44	15.8	2.87	6.49	9,250	4.62	7.06	4	2.62	.75	15
RLS502	50	2.38	22.8	3.5	9.62	10,400	4.81	7.19	4.87	2.75	.93	24
RLS1002	100	2.25	44.2	5	19.63	10,200	5.56	7.81	6.5	3.62	1.25	50

Low Height Cylinders
Single-Acting, RFS-Series

SIMPLEX



RFS20 Shown

Capacity ..... ▶ 5 - 150 tons
Stroke ..... ▶ .44 - .62 in.
Maximum Pressure ..... ▶ 10,000 psi

- ▶ Plated piston to resist scoring & corrosion.
- ▶ Low profile, high tonnage design.
- ▶ Rod wiper protects inner cylinder from dirt.

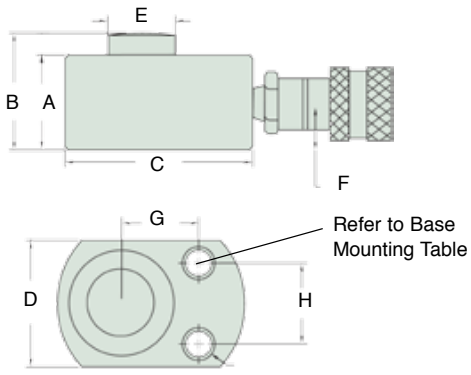


HAND PUMPS
Simplex carries the widest variety of Hand Pumps for specific applications.

Model	Base Mounting Hole Dimensions (in)
R50	.22 through x .36 C' Bore (.25 Deep)
RFS10	.28 through x .42 C' Bore (.31 Deep)
RFS20	.39 through x .62 C' Bore (.39 Deep)

Simplex RFS Series cylinders provide the ideal fit and force required for most bridge lifting and pier cap maintenance jobs. ▼





Model	Cap. (tons)	Stroke (in)	Oil Cap. Req'd (cu.in.)	Ram Bore Dia. (in)	Effective Area (sq.in.)	Pressure @ Cap. (psi)	A	B	C	D	E	F	G	H	Wgt. (lbs)
							Minimum Height (in)	Extended Height (in)	Body Length (in)	Body Width (in)	Piston O.D. (in)	Base to Port C/L (in)	Width (in)	Width (in)	
R50	5	.62	.6	1.13	.99	10,000	1.62	2.25	2.56	1.62	1	.75	1	1.13	2.5
RFS10	10	.44	1	1.68	2.24	8,940	1.68	2.13	3.25	2.19	.75	.75	1.34	1.41	3.3
RFS20	20	.44	1.9	2.38	4.43	9,030	2.03	2.47	4	3	1.13	.75	1.56	1.93	6
RFS30	30	.5	3.2	2.87	6.49	9,250	2.31	2.81	4.5	3.75	1.38	.75	-----	-----	8.5
RFS50	50	.62	6	3.5	9.62	10,400	2.62	3.25	5.5	4.5	1.75	.75	-----	-----	14.3
RFS75	75	.62	10	4.5	15.90	9,440	3.13	3.75	6.5	5.5	2.13	.75	-----	-----	24.5
RFS100	100	.62	12.3	5	19.63	10,200	3.38	4	7	6	2.5	.75	-----	-----	31
RFS150	150	.56	17.2	6.25	30.66	9,785	3.93	4.5	8.5	7.5	3	.93	-----	-----	50.5

Hydraulic Pull Cylinders
Single-Acting, RF-Series

SIMPLEX



RP55A Shown

Capacity Range ▶ 2 - 5 tons
Stroke Range ▶ 5 - 5.5 in.
Maximum Pressure ▶ 10,000 psi

- ▶ Designed for pulling & tensioning applications.
- ▶ High strength, all steel construction.
- ▶ Chrome plated piston rod resists corrosion.
- ▶ Spring loaded piston rod automatically extends when pressure is released.
- ▶ Rod wiper protects inner cylinder from dirt.

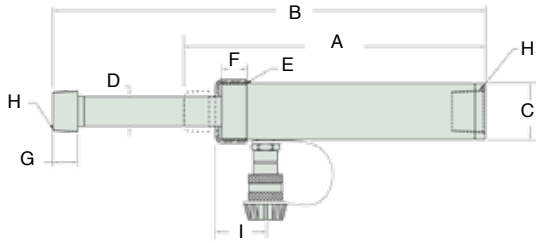


THINK SAFETY

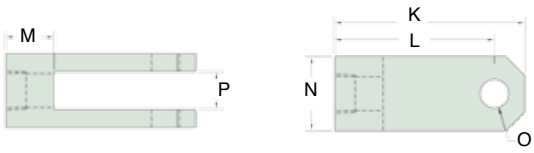


POWER PUMPS
Simplex offers a wide variety of lightweight power pumps to fit any application.

Pull Cylinder Dimensions



Clevis Dimensions



The RP55A pull cylinder and a G5 Air Pump was needed to position structural I-Beams for welding. ▼



Optional Accessories

Model	K (in)	L (in)	M (in)	N (in)	O (in)	P (in)
RPC25	5.13	4.31	1.31	2	.75	1
RPC55	6	5	1.5	2.5	.87	1.5

Both models include adapter and clevis.

Model	Capacity (tons)	Stroke (in)	Oil Capacity Required (cu.in.)	Pressure @ Capacity (psi)	A Minimum Height (in)	B Extended Height (in)	C Body O.D. (in)	D Piston O.D. (in)	E Collar Thread (in)	F Collar Thread Length (in)	G Piston Adapter (in)	H NPT Thread (in)	I Cylinder To Port (in)	Wgt. (lbs)
RP25A	2	5	2.8	9,090	10.44	15.44	1.87	.75	1.5 -16	1	1.13	.75 -14	1.77	4
RP55A	5	5.5	6.2	8,850	11.88	17.38	2.25	1.19	2.25 -14	1.06	1.25	1.25-11.5	1.68	10

Hydraulic Pull Cylinders
Double-Acting, RDP-Series

SIMPLEX



RDP506 Shown

Capacity Range ▶ 10 - 100 tons
Stroke Range ▶ 6 in.
Maximum Pressure ▶ 10,000 psi

- ▶ Hard chrome plated steel piston rods resist corrosion.
- ▶ Ideal for joining steel plates for welding.
- ▶ Useful for the fabrication industry as well as cable tensioning.
- ▶ Double acting cylinder provides quick & full retraction.



COUPLERS
High flow quick disconnect couplers provide a quick change to a variety of pumps.



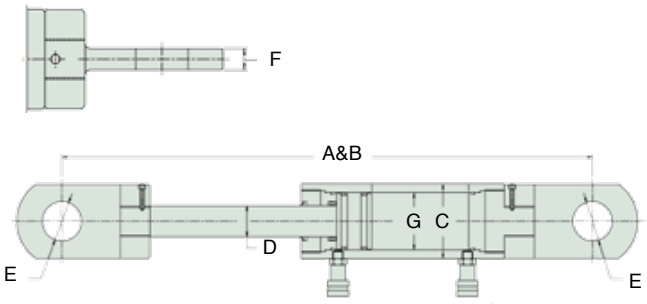
IN-LINE VALVES
Maximize control and safety with our in-line valves.



HOSES
Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

The Simplex RDP506 is used by this manufacturer of heavy steel cables.▼





Model	Capacity (tons)	Stroke (in)	Oil Capacity Required (cu.in.)	Effect Area (sq.in.)	Pressure @ Capacity (psi)	A Closed Dimensions (in)	B Open Dimensions (in)	C Body O.D. (in)	D Piston O.D. (in)	E Clevis Hole Diameter (in)	F Clevis Width (in)	G Bore Diameter (in)	Wgt. (lbs)
RDP106	10	6	11.5	2.4	8333	21.1	27.1	3.34	1.57	1.18	.78	2.36	30.8
RDP306	30	6	16.56	6.6	9091	26.3	32.3	4.53	1.89	2.36	.98	3.46	63.8
RDP506	50	6	25.9	11.7	8547	25.2	31.2	6.10	2.36	2.75	1.77	4.53	99
RDP1006	100	6	30.38	22.2	9010	29.1	35.1	7.80	2.56	3.15	1.97	5.91	193.6

High Tonnage Cylinders
Single-Acting, RLR Series

SIMPLEX



RLR1006 Shown

Capacity Range ▶ 30 - 1000 tons
Stroke Range ▶ 6 - 12 in.
Maximum Pressure ▶ 10,000 psi

- ▶ Large bearings resist side load.
- ▶ Plated piston to resist scoring & corrosion.
- ▶ Stop ring for piston blow-out protection.
- ▶ Custom strokes and capacities up to 1,500 tons available, contact factory.
- ▶ Swivel Eye Bolts are used 100 tons and up.



THINK SAFETY



POWER PUMPS
Simplex offers a wide variety of lightweight power pumps to fit any application.



SWIVEL LOAD CAP
5° swivel load caps on 30-100 ton models help stabilize the load.

DESIGN CONSTRUCTION 150+ TONS



Piston Flange
A thick bronze inlay on the piston flange virtually eliminates scoring of cylinder bore while offering the best protection against accidental side loading. (150 Tons and up)

A ten cylinder system, using RLR40012 cylinders, is used to lift the bed of this dragline so that maintenance can be performed on the rollers.▼



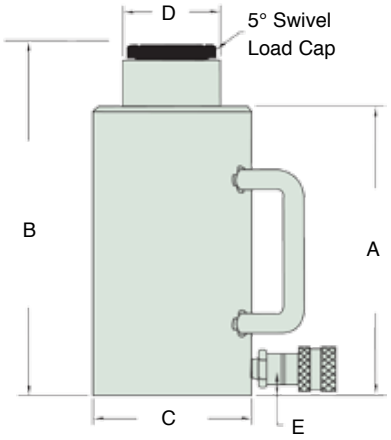
High Tonnage Cylinders

Single-Acting, RLR Series

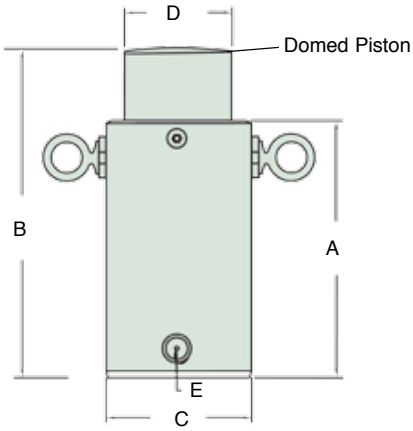
SIMPLEX

• *Note: 100 Ton Models Have Eyebolts For Positioning*

30 - 100 Tons



150 - 1000 Tons



Model	Cap. (tons)	Stroke (in)	Oil Capacity Required (cu.in.)	Ram Bore Diameter (in)	Effective Area (sq in)	Pressure @ Capacity (psi)	A Minimum Height (in)	B Extended Height (in)	C Body O.D. (in)	D Piston O.D. (in)	E Base to Port C/L (in)	Wgt. (lbs)
RLR306	30	6	38.9	2.87	6.49	9,240	9.38	15.38	4	2	.75	32
RLR502	50	2	22.1	3.75	11.05	9,054	5.44	7.44	5	3	.78	30
RLR506	50	6	66.3	3.75	11.05	9,054	9.44	15.44	5	3	.78	55
RLR5010	50	10	133	3.75	11.05	9,054	13.44	23.44	5	3	.78	92
RLR1006	100	6	118	5	19.63	10,200	10.56	16.56	6.38	3.38	1.25	90
RLR10010	100	10	196	5	19.63	10,200	14.56	24.56	6.38	3.38	1.25	126
RLR1502	150	2	66.4	6.25	30.68	9,778	7	9	9	5.56	1.25	117
RLR1506	150	6	199	6.25	30.68	9,778	11	17	9	5.56	1.93	189
RLR15012	150	12	398	6.25	30.68	9,778	17	29	9	5.56	1.93	297
RLR2002	200	2	88.4	7.25	41.28	9,054	8	10	10	6.56	2.06	184
RLR2006	200	6	265	7.25	41.28	9,054	12	18	10	6.56	2.06	282
RLR20012	200	12	530	7.25	41.28	9,054	18	30	10	6.56	2.06	429
RLR3002	300	2	120	8.75	60.13	9,978	11.5	13.5	12	7.81	2.44	277
RLR3006	300	6	361	8.75	60.13	9,978	13.75	19.75	12	70.81	2.44	405
RLR30012	300	12	722	8.75	60.13	9,978	19.75	31.75	12	7.81	2.44	597
RLR4002	400	2	174	10.5	86.59	9,238	11.5	13.5	14	6.56	3	455
RLR4006	400	6	520	10.5	86.59	9,238	15.5	21.5	14	6.56	3	612
RLR40012	400	12	1040	10.5	86.59	9,238	21.5	33.5	14	6.56	3	842
RLR5002	500	2	208	11.5	103.87	9,628	12.62	14.62	16	10.31	3.19	627
RLR5006	500	6	623	11.5	103.87	9,628	16.62	22.62	16	10.31	3.19	855
RLR50012	500	12	1246	11.5	103.87	9,628	22.62	34.62	16	10.31	3.19	1197
RLR6002	600	2	246	12.5	122.71	9,778	13.5	15.5	17.5	11.31	3.5	655
RLR6006	600	6	738	12.5	122.71	9,778	17.5	23.5	17.5	11.31	3.5	902
RLR60012	600	12	1476	12.5	122.71	9,778	23.5	35.5	17.5	11.31	3.5	1273
RLR8002	800	2	330	14.5	165.13	9,690	14.44	16.44	18	13.31	4.13	997
RLR8006	800	6	991	14.5	165.13	9,690	18.44	24.44	18	13.31	4.13	1256
RLR80012	800	12	1982	14.5	165.13	9,690	24.44	36.44	18	13.31	4.13	1644
RLR10002	1000	2	402	16	201.06	9,950	16.13	18.13	21	14.93	4.25	1523
RLR10006	1000	6	1206	16	201.06	9,950	20.13	26.13	21	14.93	4.25	1883
RLR100012	1000	12	2412	16	201.06	9,950	26.13	38.13	21	14.93	4.25	2423

High Tonnage Cylinders
Double-Acting, RDA-Series

SIMPLEX



RDA10006 Shown -
with optional o/c valve (sold separately)

Capacity Range ▶ 10 - 1000 tons
Stroke Range ▶ 2 - 24 in.
Maximum Pressure ▶ 10,000 psi

- ▶ Collar threads designed for full load (10-200 tons).
- ▶ Removable load cap for flexibility and safety.
- ▶ Stop ring for piston blow-out protection.
- ▶ Plated piston to resist scoring & corrosion.
- ▶ Large bearings resist side load.
- ▶ Rod wiper protects inner cylinder from dirt.
- ▶ Custom strokes and capacities up to 1,500 tons available, contact factory.



GAUGES
Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.



POWER PUMPS
Simplex offers a wide variety of lightweight power pumps to fit any application.



MANIFOLDS
The ideal solution in obtaining precise control when operating multiple cylinders.

DESIGN CONSTRUCTION 200+ TONS



Bronze Inlay
Thick bronze inlay on the inner diameter of the retaining nut protects the piston rod.



Piston Flange
A thick bronze inlay on the piston flange virtually eliminates scoring of cylinder bore while offering the best protection against accidental side loading. (200 Tons and up)

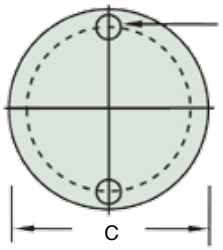
Maintenance crews relied on Simplex RDA15018 cylinders to help lift, transport and launch a U.S. Navy research ship from dry dock to the ship's launch site. ▼



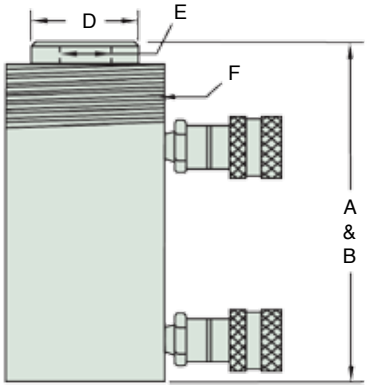
High Tonnage Cylinders

Double-Acting, RDA-Series

SIMPLEX



Refer to Base Mounting Table



Base Mounting Hole Dimensions

Model	Thread		Bolt Circle Diameter (in)
	Size (in)	Depth (in)	
55 Ton	.62 -11	.75	3.75
100 Ton	.62 -11	1	4.25
150 Ton	1-8	1.38	5
200 Ton	1-8	1.13	5

Model	Push Cap. (tons)	Pull Cap. (tons)	Stroke (in)	Oil Cap. Req'd. (cu.in.)	Ram Bore Dia. (in)	Push Effect Area (sq. in)	Pull Effect. Area (sq.in)	Pres. @ Cap. (psi)	A	B	C	D	E		F		Wgt. (lbs)
									Min. Ht. (in)	Ext. Ht. (in)	Body O.D. (in)	Piston O.D. (in)	Piston I.D. Thrds. (in)	Piston Thrd. Depth (in)	Collar Thrds. (in)	Collar Thrd. Lgth. (in)	
RDA1010	10	4	10	22	1.68	2.23	.80	8,960	16.13	26.13	2.87	1.38	1-8	1	2.25-14	1.06	28
RDA308	30	12.5	8.13	34	2.87	6.51	3	9,250	15.75	23.75	4	2.13	1.5 -16	1	3.31-12	1.93	40
RDA3014	30	12.5	14.5	91	2.87	6.51	3	9,250	21.62	36.13	4	2.13	1.5 -16	1	3.31-12	1.93	64
RDA556	55	17	6.13	46	3.75	11.05	3.4	9,955	13.13	19.25	5	3.13	1 -12	1.5	5-12	1.75	68
RDA5512	55	17	12	92	3.75	11.05	3.4	9,955	19.13	31.13	5	3.13	1 -12	1.5	5-12	1.75	114
RDA5524	55	17	24	184	3.75	11.05	3.4	9,955	31.62	55.62	5	3.13	1 -12	1.5	5-12	1.75	201
RDA1006	100	45	6.06	77	5.25	21.65	9.08	9,239	13.87	19.93	7	4	3.25 -12	2.5	7-12	2.5	140
RDA10012	100	45	12	151	5.25	21.65	9.08	9,239	19.87	31.87	7	4	3.25 -12	2.5	7-12	2.5	187
RDA1506	150	67	6.06	120	6.5	33.18	13.55	9,041	15.44	21.5	8.5	5	3.5 -12	2.75	8.5-12	2.19	218
RDA15012	150	67	12	236	6.5	33.18	13.55	9,041	21.5	33.5	8.5	5	3.5 -12	2.75	8.5-12	2.19	295
RDA2002	200	72	2	66	7.5	44.18	15.91	9,054	11.44	13.44	10	6	2.5 - 12	2.5	9.75-12	1.87	232
RDA2006	200	72	6	170	7.5	44.18	15.91	9,054	15.44	21.44	10	6	2.5 - 12	2.5	9.75-12	1.87	315
RDA20013	200	72	13	368	7.5	44.18	15.91	9,054	22.44	35.44	10	6	2.5 - 12	2.5	9.75-12	1.87	440
RDA3002	355	----	2	101	9.5	70.9	20.62	10,000	13.25	15.25	12	8	---	---	---	---	277
RDA3006	355	----	6	302	9.5	70.9	20.62	10,000	17.25	23.25	12	8	---	---	---	---	441
RDA30012	355	----	12	605	9.5	70.9	20.62	10,000	23.25	35.25	12	8	---	---	---	---	688
RDA4002	565	----	2	127	12	113	49.48	10,000	12.38	14.38	14.5	9	---	---	---	---	530
RDA4006	565	----	6	382	12	113	49.48	10,000	16.62	22.62	14.5	9	---	---	---	---	670
RDA40012	565	----	12	762	12	113	49.48	10,000	22.87	34.87	14.5	9	---	---	---	---	880
RDA5002	664	----	2	156	13	132	54.19	10,000	16.5	18.5	16	10	---	---	---	---	722
RDA5006	664	----	6	471	13	132	54.19	10,000	20.5	26.5	16	10	---	---	---	---	953
RDA50012	664	----	12	942	13	132	54.19	10,000	26.5	38.5	16	10	---	---	---	---	1300
RDA6002	600	----	2	158	12.5	122.71	44.17	10,000	15	17	17	10	---	---	---	---	917
RDA6006	600	----	6	472	12.5	122.71	44.17	10,000	19	25	17	10	---	---	---	---	1188
RDA60012	600	----	12	944	12.5	122.71	44.17	10,000	25	37	17	10	---	---	---	---	1595
RDA8002	800	----	2	226	14.5	165.13	52.03	9,690	16	18	18.5	10	---	---	---	---	1166
RDA8006	800	----	6	991	14.5	165.13	52.03	9,690	21.5	27.5	18.5	10	---	---	---	---	1461
RDA80012	800	----	12	1,360	14.5	165.13	52.03	9,690	26	38	18.5	10	---	---	---	---	1776
RDA10002	1000	----	2	354	17	227	50.27	8,810	16	18	21	15	---	---	---	---	1558
RDA10006	1000	----	6	1,071	17	227	50.27	8,810	20	26	21	15	---	---	---	---	2058
RDA100012	1000	----	12	2,142	17	227	50.27	8,810	27	39	21	15	---	---	---	---	2808

Lightweight Aluminum Cylinders
Single-Acting, RAC-Series

SIMPLEX



RAC303 Shown

Capacity Range ..... ▶ 30 - 60 tons
Stroke Range ..... ▶ 3 - 6 in.
Maximum Pressure ..... ▶ 10,000 psi

- ▶ Half the weight of steel cylinders.
- ▶ Heavy duty spring for fast & full retraction.
- ▶ Technical coating reduces wear & corrosion.
- ▶ Stop rings for piston blow-out protection.
- ▶ Rod wiper protects inner cylinder from dirt.



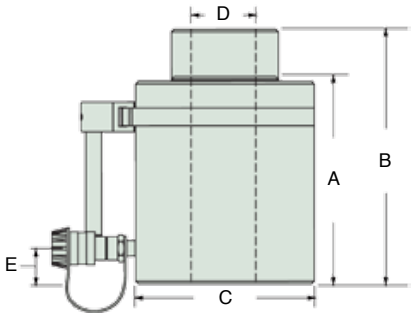
POWER PUMPS
Simplex offers a wide variety of lightweight power pumps to fit any application.



CENTER HOLE
Chrome plated center hole for extra protection.

The Simplex RAC306A 30 ton single acting aluminum center hole cylinder is used to pull pins from off road equipment. ▼





Model	Capacity (tons)	Stroke (in)	Oil Capacity Required (cu.in.)	Effect Area (sq.in.)	Pressure @ Capacity (psi)	A Minimum Height (in)	B Extended Height (in)	C Body O.D. (in)	D Center Hole (in)	E Base to Port C/L (in)	Wgt. (lbs)
RAC303	30	3	22	7.21	8321	8.75	11.75	5.5	1.19	1	22
RAC306A	30	6	44	7.21	8321	11.75	17.75	5.5	1.19	1	30
RAC603	60	3	37	12.3	9756	10.13	13.13	7.5	2.13	1	42
RAC606	60	6	74	12.3	9756	13.25	19.25	7.5	2.13	1	55

Lightweight Aluminum Cylinders

Double-Acting, RACD-Series

SIMPLEX



RACD306 Shown

Capacity Range ▶ 30 - 150 tons
Stroke Range ▶ 2 - 10 in.
Maximum Pressure ▶ 10,000 psi

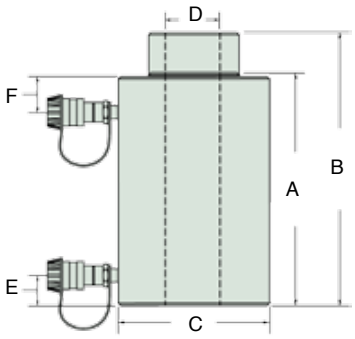
- ▶ Technical coating reduces wear & corrosion.
- ▶ Steel piston for protection against load damage.
- ▶ Chrome plated sleeve for extra protection.
- ▶ Stop rings for piston blow-out protection.
- ▶ Rod wiper protects inner cylinder from dirt.



RELIEF VALVE
Relief valve prevents damage in case of over pressurization.



CARRYING HANDLES
2 Carrying handles on models RACD1002 & RACD15010 for ease of mobility.



Model	Capacity (tons)	Stroke (in)	Oil Capacity Required (cu.in.) Push	Effect Area (sq.in.)	Pressure @ Capacity (psi)	A Minimum Height (in)	B Extended Height (in)	C Body O.D. (in)	D Center Hole Diameter (in)	E Base to Port C/L (in)	F Collar to Port C/L (in)	Wgt. (lbs)
RACD302	30	2	14.34	6.35	9449	7	9	5.5	1.5	1.75	1.75	20
RACD306	30	6	43.02	6.35	9449	11	17	5.5	1.5	1.75	1.75	28
RACD3010	30	10	71.7	6.35	9449	15	25	5.5	1.5	1.75	1.75	35
RACD502	50	2	21.71	10.3	9709	7	9	7.5	2.13	1.75	1.75	33
RACD504	50	4	43.44	10.3	9709	9	13	7.5	2.13	1.75	1.75	41
RACD506	50	6	65.16	10.3	9709	11	17	7.5	2.13	1.75	1.75	49
RACD5010	50	10	108.6	10.3	9709	15	25	7.5	2.13	1.75	1.75	65
RACD1002	100	2	41.52	20.28	9862	10	12	11	3.5	2.5	2.5	85
RACD1004	100	4	83.04	20.28	9862	12	16	11	3.5	2.5	2.5	105
RACD1006	100	6	124.56	20.28	9862	14	20	11	3.5	2.5	2.5	120
RACD10010	100	10	206.6	20.28	9862	18	28	11	3.5	2.5	2.5	155
RACD1502	150	2	61.26	31.47	9533	10	12	12	3.5	2.5	2.5	101
RACD1506	150	6	183.73	31.47	9533	14	20	12	3.5	2.5	2.5	141
RACD15010	150	10	306.3	31.47	9533	18	28	12	3.5	2.5	2.5	180

Lightweight Aluminum Cylinders

Single-Acting, RAS-Series

SIMPLEX



RAS306B Shown

Capacity Range ..... ▶ 30 - 150 tons
Stroke Range ..... ▶ 2 - 10 in.
Maximum Pressure ..... ▶ 10,000 psi

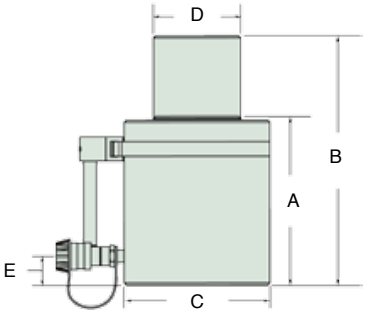
- ▶ Half the weight of steel cylinders.
- ▶ Heavy duty spring for fast & full retraction.
- ▶ Large bearing surfaces for side load protection.
- ▶ Technical coating reduces wear & corrosion.
- ▶ Stop rings for piston blow out protection.
- ▶ Rod wiper protects inner cylinder from dirt.



POWER PUMPS
Simplex offers a wide variety of lightweight power pumps to fit any application.

The RAS302B spring return cylinder along with a P32 aluminum hand pump is easy to carry and position in tight places. ▼





Model	Capacity (tons)	Stroke (in)	Oil Capacity Required (cu.in.)	Effect Area (sq. in)	Pressure @ Capacity (psi)	A Minimum Height (in)	B Extended Height (in)	C Body O.D. (in)	D Piston O.D. (in)	E Base to Port C/L (in)	Wgt. (lbs)
RAS302B	30	2	13	6.5	9231	6.5	8.5	4.5	2.5	1.5	14
RAS306B	30	6	39	6.5	9231	10.5	16.5	4.5	2.5	1.5	18
RAS502B	50	2	22.1	11	9091	6.5	8.5	5.5	3.13	1.5	13
RAS504B	50	4	44.2	11	9091	8.5	12.5	5.5	3.13	1.5	17
RAS506B	50	6	66.2	11	9091	10.5	16.5	5.5	3.13	1.5	28
RAS5010B	50	10	110.4	11	9091	14.5	24.5	5.5	3.13	1.5	36
RAS1002B	100	2	41.2	20.7	9662	6.5	8.5	8	4.25	1.5	40
RAS1004B	100	4	82.4	20.7	9662	8.5	12.5	8	4.25	1.5	45
RAS1006B	100	6	123.7	20.7	9662	10.5	16.5	8	4.25	1.5	50
RAS10010B	100	10	206	20.7	9662	14.5	24.5	8	4.25	1.5	68
RAS1502B	150	2	61.4	30.7	9772	6.5	8.5	10	4.87	1.5	58
RAS1506B	150	6	184.1	30.7	9772	10.5	16.5	10	4.87	1.5	86
RAS15010B	150	10	306.8	30.7	9772	14.5	24.5	10	4.87	1.5	110

Lightweight Aluminum Cylinders

Single-Acting, Lock Nut

SIMPLEX



RAL502 Shown

Capacity Range ▶ 50 - 150 tons
Stroke Range ▶ 2 - 10 in.
Maximum Pressure ▶ 10,000 psi

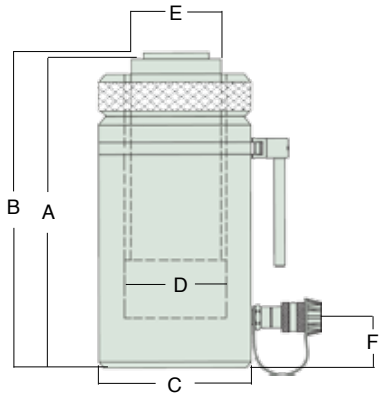
- ▶ Technical coating reduces wear & corrosion.
- ▶ Carrying handles standard on all models.
- ▶ Half the weight of steel cylinders.
- ▶ Locknuts offer extended load holding.
- ▶ Stop rings for piston blow out protection.
- ▶ Heavy duty spring for fast & full retraction.



COUPLERS
High flow quick disconnect couplers provide a quick change to a variety of pumps.



HOSES
Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.



Model	Cap. (tons)	Stroke (in)	Oil Capacity Required (cu.in.)	Effect Area (sq.in.)	Pressure @ Capacity (psi)	A Minimum Height (in)	B Extended Height (in)	C Body O.D. (in)	D Cylinder Bore Diameter (in)	E Piston O.D. (in)	F Base to Port C/L (in)	Wgt. (lbs)
RAL502	50	2	21.65	11.04	9058	8.13	10.13	5.5	3.75	3.13	1.5	20
RAL504	50	4	43.3	11.04	9058	10.13	14.13	5.5	3.75	3.13	1.5	25
RAL506	50	6	64.92	11.04	9058	12.13	18.13	5.5	3.75	3.13	1.5	30
RAL5010	50	10	108.2	11.04	9058	16.13	26.13	5.5	3.75	3.13	1.5	40
RAL1002	100	2	40.51	20.68	9671	8.38	10.38	8	5.13	4.25	1.5	45
RAL1004	100	4	81	20.68	9671	10.38	14.38	8	5.13	4.25	1.5	55
RAL1006	100	6	121.5	20.68	9671	12.38	18.38	8	5.13	4.25	1.5	64
RAL10010	100	10	202.5	20.68	9671	16.38	26.38	8	5.13	4.25	1.5	82
RAL1502	150	2	60.6	30.68	9778	8.38	10.38	10	6.25	5	1.5	65
RAL1506	150	6	181.8	30.68	9778	12.38	18.38	10	6.25	5	1.5	101
RAL15010	150	10	303	30.68	9778	16.38	26.38	10	6.25	5	1.5	156

Hand Pumps

Lightweight Pumps, P-Series

SIMPLEX



P32 & P72 Shown

Reservoir Capacity ▶ 30 - 70 cu.in.
Weight ▶ 8 - 11 lbs.
Maximum Pressure ▶ 10,000 psi

- ▶ All aluminum construction makes these pumps extremely light weight and easy to handle.
- ▶ 25% faster per stroke than comparative pumps means less work for operator.



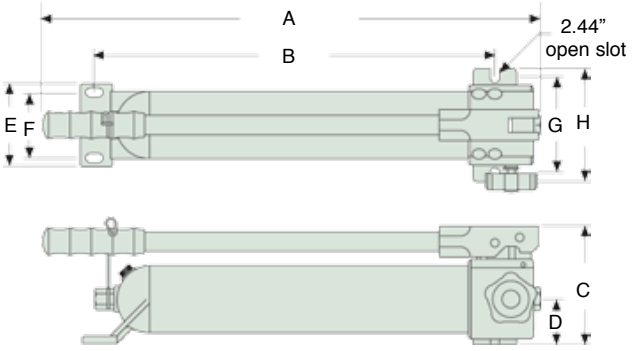
RELEASE KNOB
Precise load lowering with large knob and fine pitched threads.



POWER PUMPS
Simplex offers a wide variety of lightweight power pumps to fit any application.

This P32 provided the power and control to lift this 10 ton CNC machine during routine maintenance. ▼





Model	Speed	Pressure Rating (PSI)	Oil Volume Per Stroke (cu.in.)	Usable Oil Capacity (cu.in.)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	Wgt. (lbs)
P30	2	1st Stage 200 2nd Stage 3,000	.91 .19	30	17.13	11.81	5.55	2	5.51	4.25	4.25	5.5	8
P32	2	1st Stage 200 2nd Stage 10,000	.43 .06	30	17.13	11.81	5.55	2	5.51	4.25	4.25	5.5	8
P71	1	10,000	.14	70	24.60	19.35	5.55	2	5.51	4.25	4.25	5.5	10
*P71V**	1	10,000	.14	70	24.60	19.35	5.55	2	5.51	4.25	4.25	5.5	10
P72	2	1st Stage 200 2nd Stage 10,000	.91 .19	70	24.60	19.35	5.55	2	5.51	4.25	4.25	5.5	11

***Viton Seals**

Hand Pumps
Steel Pumps, P-Series

SIMPLEX



P82A, P41 Shown

Reservoir Capacity ▶ 20 - 134 cu.in.
Weight ▶ 10 - 24 lbs.
Maximum Pressure ▶ 10,000 psi

- ▶ Large 3/8" pressure port for maximum flow.
- ▶ Low handle effort for easy operation.
- ▶ Single and two speed models.
- ▶ Two-speed operation for fast and easy operation.
- ▶ Carrying handle for easy transport (P41).
- ▶ Chrome plated plunger and wiper system for durable, long lasting performance.



GAUGES
Improve your system visibility and safety by adding an inline hydraulic gauge to your circuit.



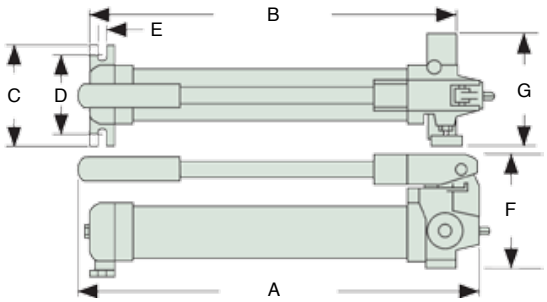
COUPLERS
High flow quick disconnect couplers provide a quick change to a variety of pumps.



HOSES
Heavy duty and thermo plastic hydraulic hoses to meet your requirements and safety factor.

With its compact footprint, the Simplex P22 hand pump is perfect for fixed mounting. ▼





Model	Speed	Pressure Rating (PSI)	Oil Volume Per Stroke (cu.in.)		Usable Oil Capacity (cu.in.)	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	Wgt. (lbs)
			1st Stage	2nd Stage									
P20	2	1st Stage 200 2nd Stage 2,850	.79	.16	20	14.23	11.08	2.62	1.5	.59	5.59	5.39	10
P22	2	1st Stage 200 2nd Stage 10,000	.23	.06	20	14.23	11.08	2.62	1.5	.59	5.06	4.92	10
P41	1	10,000	----	.16	40	23	21.75	5	---	---	5.75	5.75	18
P42	2	1st Stage 200 2nd Stage 10,000	.79	.16	45	25.64	20.86	3.54	---	---	5.75	5.39	19
P82A	2	1st Stage 350 2nd Stage 10,000	.99	.15	134	21.97	19.50	5.75	4.76	.31	6.88	7.00	24

Hand Pumps
High Pressure

SIMPLEX



P60 Shown

Reservoir Capacity ..... ▶ 60 cu.in.
Weight ..... ▶ 10 lbs.
Maximum Pressure ..... ▶ 40,000 psi

- ▶ 40,000 psi maximum pressure.
- ▶ 60 cu. in. reservoir provides more usable oil capacity.
- ▶ Large pressure release knob, fine threaded for added control.
- ▶ Lower handle effort provides less operator fatigue.
- ▶ Slotted front mounting hole offers flexibility.



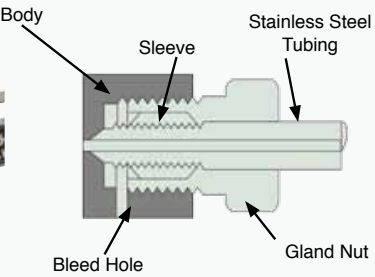
THINK SAFETY



SPRING LATCH
An easy to use spring latch handle provides quick carrying mobility.

Pressure Port Details

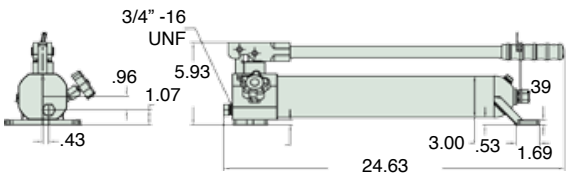




▲ **Cone Seal**
High pressure fitting seal on a cone surface does not require pipe sealer. The gland nut holds the sleeve and tube to provide 40,000 psi seal.

Ideal for lab testing, the P60 offers safe and easy operation for applications requiring up to 40,000 psi. ▼





Model	Usable Reservoir Capacity (cu.in.)	Pressure Rating (PSI)		Oil Volume Per Stroke (cu.in.)		Handle Effort (lbs)	Weight (lbs)
		1st Stage	2nd Stage	1st Stage	2nd Stage		
P60	60	200	40,000	.86	.04	90	10

Hand Pumps
Steel Pumps, P-Series

SIMPLEX



P140 & P461D Shown

Reservoir Capacity ▶ 175 - 460 cu.in.
Weight ▶ 26 - 61 lbs.
Maximum Pressure ▶ 10,000 psi

- ▶ Heavy duty, metal construction for durability.
- ▶ High displacements of oil per stroke.
- ▶ Adjustable handle effort / dual pivot points.
- ▶ Low, back saving handle effort.
- ▶ External adjustable relief valves.

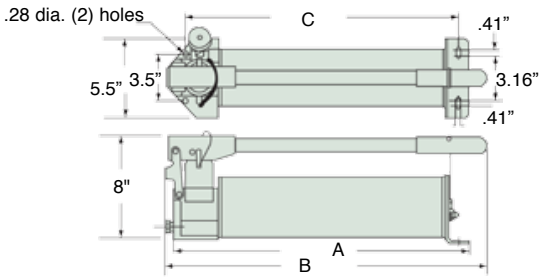


THINK SAFETY

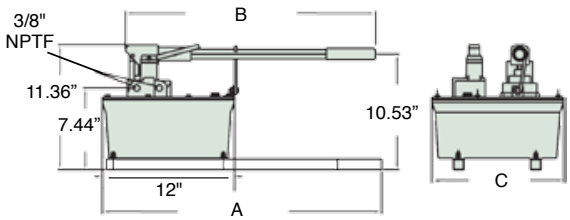
US recovery teams needed to dismantle and remove a downed Navy aircraft, they used Simplex P140D hand pumps.▼



P140 & P300 Series



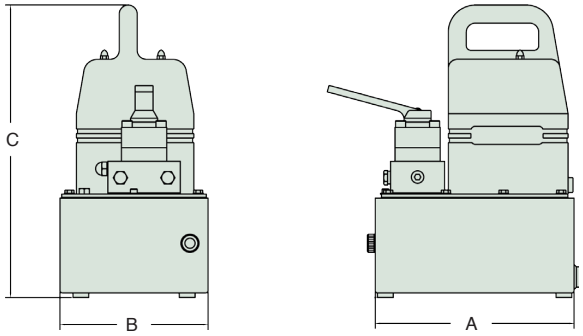
P230 & P461 Series



Model	Tool Type	Pressure Rating (PSI)	Oil Volume Per Stroke (cu.in.)		Usable Oil Capacity (cu.in.)	A (in)	B (in)	C (in)	Wgt. (lbs)
			1st Stage	2nd Stage					
P140	Single Acting	1st Stage 400 2nd Stage 10,000	2.8	.24	175	24.81	27.25	23.31	26
P230			7.7	.3	230	25.38	22.75	9	49
P300			2.8	.24	300	28.5	31	26.5	37
P461			7.7	.3	460	25.38	22.75	12	61
P140D	Double Acting	1st Stage 400 2nd Stage 10,000	2.8	.24	175	29.5	31.5	23.31	30
P230D			7.7	.3	230	25.38	22.75	9	49
P300D			2.8	.24	300	32..68	34.68	26.5	41
P461D			7.7	.3	460	25.38	22.75	12	61

Electric Pumps
G1 Series

SIMPLEX



G1 Electric

Reservoir (Gallons)	A (in)	B (in)	C (in)
1 Plastic	10.52	8.08	15.95
1 Metal	11.00	8.17	16.17

Model	Pressure Rating (psi)		Output Flow (cu.in. / min.)		Motor Spec.		Valve Type	Pendant Control	Usable Oil	Weight (lbs)
	1st Stage	2nd Stage	1st Stage	2nd Stage	(vac)	(amps)				
G1100	400	10,000	250	19	115	10	DUMP	MOTOR	1	30
G1101	400	10,000	250	19	115	10	DUMP	MOTOR	1	32
G1121	400	10,000	250	19	115	10	2W, 2P	MOTOR	1	33
G1131	400	10,000	250	19	115	10	3W, 3P	MOTOR	1	34
G1141	400	10,000	250	19	115	10	4W, 3P	MOTOR	1	34

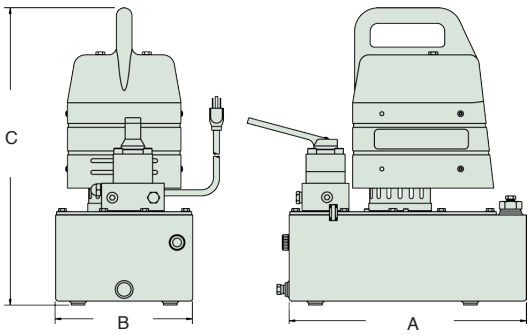
* For 230 VAC pump use "2" in the 3rd character of the model number. Motor specifications 0,37 kw single phase, 5 amps @ 230 VAC.
* Motor pendant is standard on all models.

Additional Pump Configurations

	MODEL	SELECTIONS
Class	G	Power Pump
Series	1	.5 HP Universal Motor / 19 cu.in.
Motor Voltage	1	1 = 115 VAC Single Phase 2 = 230 VAC Single Phase
Valve Function	3	0 = Dump 1 = 2 Way Dump 2 = 2 Way Manual 3 = 3 Way Manual 4 = 4 Way Manual
Reservoir Size	1	0 = 1 Gallon Usable Oil (Plastic) 1 = 1 Gallon Usable Oil (Metal)

Electric Pumps
G3-Series

SIMPLEX



G3 Electric

Reservoir (Gallons)	A (in)	B (in)	C (in)
1	11.00	8.19	18.75
1.5	15.13	8.75	19
2.5	17	9.75	19
5	25.10	11.75	18.75
10	25.10	11.75	23
20	28	19.6	25.25

Model	Pressure Rating (psi)		Output Flow (cu.in./min.)		Motor Spec.		Valve Type	Pendant Control	Usable Oil	Weight (lbs)
	1st Stage	2nd Stage	1st Stage	2nd Stage	(vac)	(amps)				
G3100	1,100	10,000	525	46	115	16	Dump	Motor	1	38
G3101	1,100	10,000	525	46	115	16	Dump	Motor	1	45
G3102	1,100	10,000	525	46	115	16	Dump	Motor	1.5	50
G3121	1,100	10,000	525	46	115	16	2W, 2P	Motor	1	45
G3122	1,100	10,000	525	46	115	16	2W, 2P	Motor	1.5	52
G3131	1,100	10,000	525	46	115	16	3W, 3P	Motor	1	48
G3132	1,100	10,000	525	46	115	16	3W, 3P	Motor	1.5	53
G3133	1,100	10,000	525	46	115	16	3W, 3P	Motor	2.5	63
G3162	1,100	10,000	525	46	115	16	3W, 3P	Motor / Solenoid	1.5	57
G3163	1,100	10,000	525	46	115	16	3W, 3P	Motor / Solenoid	2.5	67
G3141	1,100	10,000	525	46	115	16	4W, 3P	Motor	1	48
G3142	1,100	10,000	525	46	115	16	4W, 3P	Motor	1.5	53
G3143	1,100	10,000	525	46	115	16	4W, 3P	Motor	2.5	63
G3172	1,100	10,000	525	46	115	16	4W, 3P	Motor / Solenoid	1.5	57
G3173	1,100	10,000	525	46	115	16	4W, 3P	Motor / Solenoid	2.5	67

* For 230 VAC pump use "2" in the 3rd character of the model number. Motor specifications 0,8 kw single phase, 10 amps @ 230 VAC.

Additional Pump Configurations

	MODEL	SELECTIONS		
Class	G	Power Pump		
Series	3	1.13 HP Universal Motor / 46 cu.in.		
Motor Voltage	1	1 = 115 VAC Single Phase	2 = 230 VAC Single Phase	
Valve Function	3	0 = Dump 1 = 2 Way Dump 2 = 2 Way Manual	3 = 3 Way Manual 4 = 4 Way Manual 6 = 3 Way Solenoid	7 = 4 Way Solenoid
Reservoir Size	2	1 = 1 Gallon Usable Oil 2 = 1.5 Gallons Usable Oil	3 = 2.5 Gallons Usable Oil 5 = 5 Gallons Usable Oil	6 = 10 Gallons Usable Oil 7 = 20 Gallons Usable Oil
Factory Installed Options*	G	C = Caster Wheel Kit F = Foot Switch (Motor) G = Pump Mounted Gauge	L = Locking Style Manifold O = Oil Filter P = Pressure Switch	R = Roll Cage S = Foot Switch (Valve)

* If pump model consists of more than 3 options, contact factory. * Motor pendant is standard on all models.
* Gauge will not be protected by roll cage when a 5 gallon or larger reservoir is ordered.
* Roll cage not available on 10 & 20 gallon reservoir.
* Caster wheel kit not available on 5,10 & 20 gallon reservoirs.
* Oil filter not available on dump, 2 way dump & 2 way manual.

Electric Pumps
G4-Series

SIMPLEX

G4 Electric



G4173 Shown

Reservoir Capacity ▶ 1.5 - 20 gallons
Flow @ Rated Pressure ▶ 55 cu.in./min.
Maximum Pressure ▶ 10,000 psi

- ▶ Powered by a 115V - 60Hz, 1.5 hp induction motor (1,725 rpm).
- ▶ Low startup voltage, draws amps at full load (230V models available).
- ▶ High performance two-stage pump provides higher cross-over pressure for faster cycle times and equipment operation.
- ▶ Ideal for use with mid sized hydraulic cylinders.



CYLINDERS
A large selection of steel and aluminum cylinders to meet every need.



COUPLERS
High flow quick disconnect couplers provide a quick change to a variety of pumps.



MANIFOLDS
The ideal solution in obtaining precise control when operating multiple cylinders.



SUC-O-MATIC VALVE

The 3 position / 3 way "Suc-O-Matic" valve draws hydraulic oil out of any single acting cylinder with full retraction regardless of weak springs or mounting.

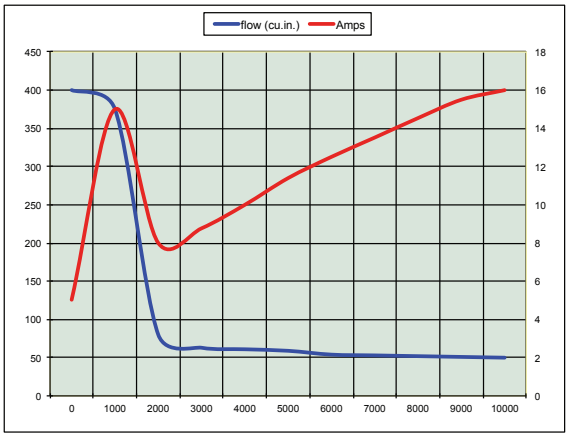


THINK SAFETY

Hydraulics

The Simplex G4 power pump along with the S3000A spreader was used to pry apart the rusted doors on this steel shipping container. ▼

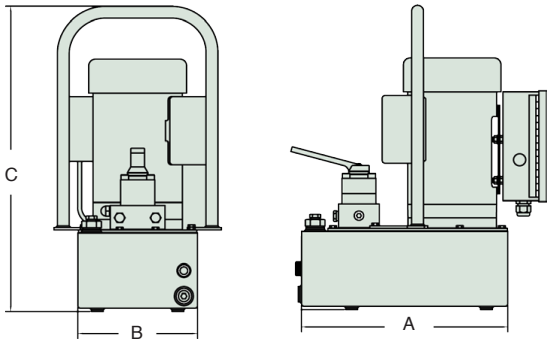




Electric Pumps

G4-Series

SIMPLEX



G4 Electric

Reservoir (Gallons)	A (in)	B (in)	C (in)
1.5	15.13	8.75	22.34
2.5	17	9.75	22.34
5	25.10	11.75	21
10	25.10	11.75	25.25
20	28	19.6	25.25

Model	Pressure Rating (psi)		Output Flow (cu.in./min.)		Motor Spec.		Valve Type	Pendant Control	Usable Oil	Weight (lbs)
	1st Stage	2nd Stage	1st Stage	2nd Stage	(vac)	(amps)				
G4102	1,100	10,000	400	55	115	16	Dump	Motor	1.5	38
G4103	1,100	10,000	400	55	115	16	Dump	Motor	2.5	45
G4122	1,100	10,000	400	55	115	16	2W, 2P	Optional Motor	1.5	52
G4132	1,100	10,000	400	55	115	16	3W, 3P	Optional Motor	1.5	53
G4133	1,100	10,000	400	55	115	16	3W, 3P	Optional Motor	2.5	63
G4162	1,100	10,000	400	55	115	16	3W, 3P	Motor / Solenoid	1.5	57
G4163	1,100	10,000	400	55	115	16	3W, 3P	Motor / Solenoid	2.5	67
G4142	1,100	10,000	400	55	115	16	4W, 3P	Optional Motor	1.5	53
G4143	1,100	10,000	400	55	115	16	4W, 3P	Optional Motor	2.5	63
G4172	1,100	10,000	400	55	115	16	4W, 3P	Motor / Solenoid	1.5	57
G4173	1,100	10,000	400	55	115	16	4W, 3P	Motor / Solenoid	2.5	67

* For 230 VAC pump use "2" in the 3rd character of the model number. Motor specifications 1,1 kw single phase, 10 amps @ 230 VAC.

Additional Pump Configurations

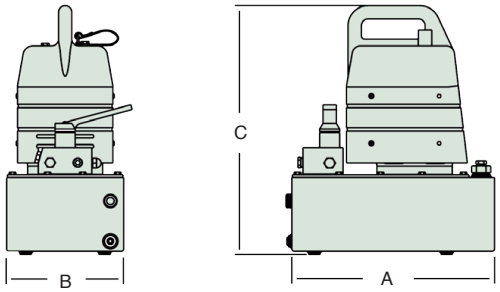
	MODEL	SELECTIONS		
Class	G	Power Pump		
Series	4	1.5 HP Induction Motor / 55 cu.in.		
Motor Voltage	1	1 = 115 VAC Single Phase	2 = 230 VAC Single Phase	
Valve Function	3	0 = Dump 1 = 2 Way Dump 2 = 2 Way Manual	3 = 3 Way Manual 4 = 4 Way Manual 6 = 3 Way Solenoid	7 = 4 Way Solenoid
Reservoir Size	2	2 = 1.5 Gallons Usable Oil 3 = 2.5 Gallons Usable Oil	5 = 5 Gallons Usable Oil 6 = 10 Gallons Usable Oil	7 = 20 Gallons Usable Oil
Factory Installed Options*	G	C = Caster Wheel Kit F = Foot Switch (Motor) G = Pump Mounted Gauge H = Heat Exchanger	L = Locking Style Manifold M = Motor Pendant O = Oil Filter	P = Pressure Switch R = Roll Cage S = Foot Switch (Valve)

* If pump model consists of more than 3 options, contact factory.
* Gauge will not be protected by roll cage when a 5 gallon or larger reservoir is ordered.
* Roll cage not available on 10 & 20 gallon reservoir.
* Caster wheel kit not available on 5,10 & 20 gallon reservoirs.
* Oil filter not available on dump, 2 way dump & 2 way manual.

Electric Pumps

G5-Series

SIMPLEX



Reservoir (Gallons)	A (in)	B (in)	C (in)
1.5	15.13	8.75	18.59
2.5	17	9.75	18.59
5	25.10	11.75	18.59
10	25.10	11.75	22.84
20	28	19.60	22.84

G5 Electric

Model	Pressure Rating (psi)		Output Flow (cu.in./min.)		Motor Spec.		Valve Type	Pendant Control	Usable Oil	Weight (lbs)
	1st Stage	2nd Stage	1st Stage	2nd Stage	(vac)	(amps)				
G5102	1,100	10,000	550	55	115	18	Dump	Motor	1.5	64
G5103	1,100	10,000	550	55	115	18	Dump	Motor	2.5	74
G5122	1,100	10,000	550	55	115	18	2W, 2P	Motor	1.5	64
G5123	1,100	10,000	550	55	115	18	2W, 2P	Motor	2.5	74
G5132	1,100	10,000	550	55	115	18	3W, 3P	Motor	1.5	67
G5133	1,100	10,000	550	55	115	18	3W, 3P	Motor	2.5	77
G5135	1,100	10,000	550	55	115	18	3W, 3P	Motor	5	115
G5162	1,100	10,000	550	55	115	18	3W, 3P	Motor / Solenoid	1.5	71
G5163	1,100	10,000	550	55	115	18	3W, 3P	Motor / Solenoid	2.5	81
G5165	1,100	10,000	550	55	115	18	3W, 3P	Motor / Solenoid	5	119
G5142	1,100	10,000	550	55	115	18	4W, 3P	Motor	1.5	67
G5143	1,100	10,000	550	55	115	18	4W, 3P	Motor	2.5	77
G5145	1,100	10,000	550	55	115	18	4W, 3P	Motor	5	115
G5172	1,100	10,000	550	55	115	18	4W, 3P	Motor / Solenoid	1.5	71
G5173	1,100	10,000	550	55	115	18	4W, 3P	Motor / Solenoid	2.5	81
G5175	1,100	10,000	550	55	115	18	4W, 3P	Motor / Solenoid	5	119

* For 230 VAC pump use "2" in the 3rd character of the model number. Motor specifications 1,1 kw single phase, 10 amps @ 230 VAC.

Additional Pump Configurations

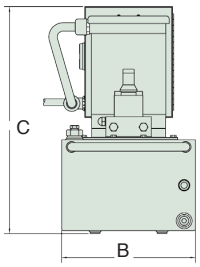
	MODEL	SELECTIONS		
Class	G	Power Pump		
Series	5	1.5 HP Permanent Magnet Motor / 55 cu.in.		
Motor Voltage	1	1 = 115 VAC Single Phase	2 = 230 VAC Single Phase	
Valve Function	3	0 = Dump 1 = 2 Way Dump 2 = 2 Way Manual	3 = 3 Way Manual 4 = 4 Way Manual 5 = 2 Way Solenoid	6 = 3 Way Solenoid 7 = 4 Way Solenoid
Reservoir Size	2	2 = 1.5 Gallons Usable Oil 3 = 2.5 Gallons Usable Oil	5 = 5 Gallons Usable Oil 6 = 10 Gallons Usable Oil	7 = 20 Gallons Usable Oil
Factory Installed Options*	G	B = 3 Stage Pump C = Caster Wheel Kit F = Foot Switch (Motor)	G = Pump Mounted Gauge H = Heat Exchanger L = Locking Style Manifold	O = Oil Filter P = Pressure Switch R = Roll Cage S = Foot Switch (Valve)

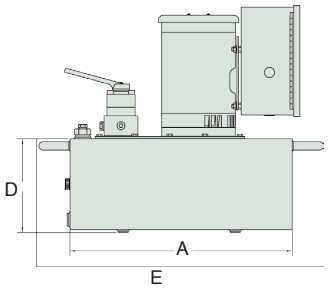
* If pump model consists of more than 3 options, contact factory.
* Gauge will not be protected by roll cage when a 5 gallon or larger reservoir is ordered.
* Roll cage not available on 10 & 20 gallon reservoir.
* Caster wheel kit not available on 5,10 & 20 gallon reservoirs.
* Oil filter not available on dump, 2 way dump & 2 way manual.
* Motor pendant is standard on all models.

Electric Pumps

G6-Series

SIMPLEX





G6 Electric

Reservoir (Gallons)	A (in)	B (in)	C (in)	D (in)	E (in)
5	19.62	11.75	20.52	8.46	25.10
10	19.62	11.75	24.76	12.71	25.10
20	23.50	19.60	24.51	12.46	28
40	36	24	24.7	12.25	41.5

Model	Pressure Rating (psi)		Output Flow (cu.in./min.)		Motor Spec.		Valve Type	Pendant Control	Usable Oil	Weight (lbs)
	1st Stage	2nd Stage	1st Stage	2nd Stage	(vac)	(amps)				
G6335	1,500	10,000	750	100	230	9.5	3W, 3P	----	5	162
G6336	1,500	10,000	750	100	230	9.5	3W, 3P	----	10	217
G6336L	1,500	10,000	750	100	230	9.5	3W, 3P (L)	----	10	218
G6365	1,500	10,000	750	100	230	9.5	3W, 3P	Solenoid	5	165
G6366	1,500	10,000	750	100	230	9.5	3W, 3P	Solenoid	10	220
G6366L	1,500	10,000	750	100	230	9.5	3W, 3P (L)	Solenoid	10	221
G6346	1,500	10,000	750	100	230	9.5	4W, 3P	----	10	210
G6347	1,500	10,000	750	100	230	9.5	4W, 3P	----	20	311
G6347L	1,500	10,000	750	100	230	9.5	4W, 3P (L)	----	20	312
G6375	1,500	10,000	750	100	230	9.5	4W, 3P	Solenoid	5	165
G6376	1,500	10,000	750	100	230	9.5	4W, 3P	Solenoid	10	220
G6376L	1,500	10,000	750	100	230	9.5	4W, 3P (L)	Solenoid	10	221

(L) = Lock Valve Manifold

* For 230 VAC pump use “3” in the 3rd character of the model number. Motor specifications 2,2 kw 3 phase, 10 amps @ 230 VAC.
* For 380 VAC pump use “4” in the 3rd character of the model number. Motor specifications 2,2 kw 3 phase, 5.8 amps @ 380 VAC.
* For 460 VAC pump use “5” in the 3rd character of the model number. Motor specifications 2,2 kw 3 phase, 4.7 amps @ 460 VAC.
* For 575 VAC pump use “6” in the 3rd character of the model number. Motor specifications 2,2 kw 3 phase, 3.8 amps @ 575 VAC.

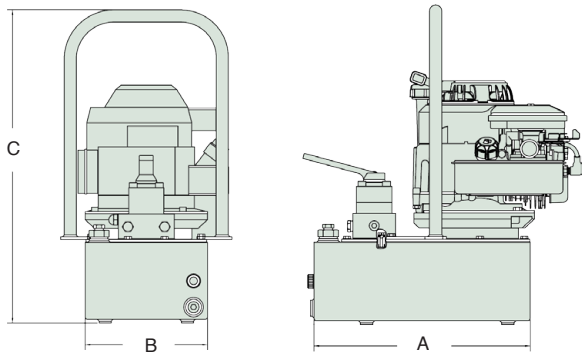
Additional Pump Configurations

	MODEL	SELECTIONS		
Class	G	Power Pump		
Series	6	3 HP / 3 Phase / 100 cu.in.		
Motor Voltage	3	3 = 230 VAC, 3 Phase 4 = 380 VAC, 3 Phase	5 = 460 VAC, 3 Phase 6 = 575 VAC, 3 Phase	
Valve Function	3	2 = 2 Way Manual 3 = 3 Way Manual	4 = 4 Way Manual 6 = 3 Way Solenoid	7 = 4 Way Solenoid
Reservoir Size	5	5 = 5 Gallons Usable Oil 6 = 10 Gallons Usable Oil	7 = 20 Gallons Usable Oil 8 = 40 Gallons Usable Oil	
Factory Installed Options *	F	F = Foot Switch (Motor) G = Gauge (Integrated) H = Heat Exchanger	L = Locking Style Manifold M = Motor Pendant O = Oil Filter	P = Pressure Switch S = Foot Switch (Valve)

* If pump consists of more than 3 options, consult factory.
* Oil filter not available on 2 way manual.

Gas Pumps
G4-Series

SIMPLEX



G4 Gas

Reservoir (Gallons)	A (in)	B (in)	C (in)
1.5	15.13	8.75	22.34
2.5	17	9.75	22.34
5	25.10	11.75	19.54
10	25.10	11.75	23.97
20	28	19.60	22.84

Model	Pressure Rating (psi)		Output Flow (cu.in. / min.)		Motor	Valve Type	Usable Oil	Weight (lbs)
	1st Stage	2nd Stage	1st Stage	2nd Stage	B&S			
G4833	1,100	10,000	400	50	127 c.c.	3W, 3P	2.5	53
G4835	1,100	10,000	400	50	127 c.c.	3W, 3P	5	108
G4843	1,100	10,000	400	50	127 c.c.	4W, 3P	2.5	53
G4845	1,100	10,000	400	50	127 c.c.	4W, 3P	5	108

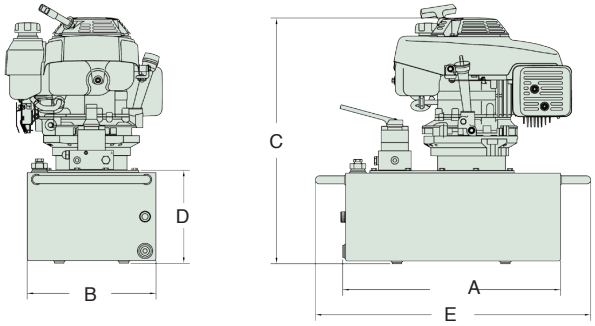
Additional Pump Configurations

	MODEL	SELECTIONS		
Class	G	Power Pump		
Series	4	127 c.c. Gas Motor		
Motor Type	8	8 = 4 HP Briggs & Stratton® Gas Motor / 50 cu.in.		
Valve Function	3	2 = 2 Way Manual 3 = 3 Way Manual	4 = 4 Way Manual	
Reservoir Size	5	2 = 1.5 Gallons Usable Oil 3 = 2.5 Gallons Usable Oil	5 = 5 Gallons Usable Oil 6 = 10 Gallons Usable Oil	7 = 20 Gallons Usable Oil
Factory Installed Options*	G	C = Caster Wheel Kit G = Gauge (Integrated) L = Locking Style Manifold	O = Oil Filter R = Roll Cage	

* If pump model consists of more than 3 options, contact factory.
* Gauge will not be protected by roll cage when a 5 gallon or larger reservoir is ordered.
* Roll cage not available on 10 & 20 gallon reservoir.
* Caster wheel kit not available on 5,10 & 20 gallon reservoirs.
* Oil filter not available on dump, 2 way dump & 2 way manual.

Gas Pumps
G6-Series

SIMPLEX



G6 Gas

Reservoir (Gallons)	A (in)	B (in)	C (in)	D (in)	E (in)
2.5	17	9.75	19.86	5.71	----
5	19.60	11.75	22.36	8.46	25.10
10	19.60	11.75	26.61	12.71	25.10
20	23.50	19.60	26.36	12.46	28

28 x 22.68 x 18.75 Roll Cage Dimensions for 2.5 gallon.

Model	Pressure Rating (psi)		Output Flow (cu.in./ min.)		Motor Spec	Valve Type	Usable Oil	Weight (lbs)
	1st Stage	2nd Stage	1st Stage	2nd Stage	Honda			
G6833	1,200	10,000	750	100	163 c.c.	3W, 3P	2.5	68
G6835	1,200	10,000	750	100	163 c.c.	3W, 3P	5	123
G6843	1,200	10,000	750	100	163 c.c.	4W, 3P	2.5	68
G6845	1,200	10,000	750	100	163 c.c.	4W, 3P	5	123

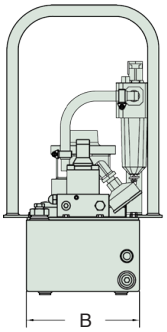
Additional Pump Configurations

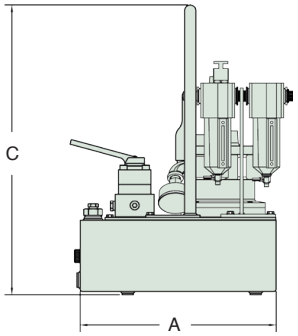
	MODEL	SELECTIONS	
Class	G	Power Pump	
Series	6	163 c.c. Gas Motor	
Motor Type	8	8 = Honda Gas Motor / 100 cu.in.	
Valve Function	3	2 = 2 Way Manual 3 = 3 Way Manual	4 = 4 Way Manual
Reservoir Size	5	3 = 2.5 Gallons Usable Oil 5 = 5 Gallons Usable Oil	6 = 10 Gallons Usable Oil 7 = 20 Gallons Usable Oil
Factory Installed Options *	C	B = 3 Stage Pump C = Caster Wheel Kit (2.5 gal. only)	G = Gauge (Integrated) L = Locking Style Manifold O = Oil Filter

* For reservoirs over 20 gallon capacity, please contact factory.
* If pump model consists of more than 3 options, contact factory.
* Oil filter not available with 2 way manual.

Air Pumps
G5-Series

SIMPLEX





G5 Air

Reservoir (Gallons)	A (in)	B (in)	C (in)
1.5	15.13	8.75	22.34
2.5	17	9.75	22.34
5	25.10	11.75	20.52
10	25.10	11.75	24.77
20	28	19.62	26.69

Model	Pressure Rating (psi)		Output Flow (cu.in. / min.)		Motor Spec.		Valve Type	Pendant Control	Usable Oil	Weight (lbs)
	1st Stage	2nd Stage	1st Stage	2nd Stage	(psi)	(cfm)				
G5732	1,100	10,000	700	55	90	50	3W, 3P	-----	1.5	50
G5735	1,100	10,000	700	55	90	50	3W, 3P	-----	5	108
G5762	1,100	10,000	700	55	90	50	3W, 3P	Solenoid	1.5	52
G5765	1,100	10,000	700	55	90	50	3W, 3P	Solenoid	5	110
G5742	1,100	10,000	700	55	90	50	4W, 3P	-----	1.5	50
G5745	1,100	10,000	700	55	90	50	4W, 3P	-----	5	108
G5772	1,100	10,000	700	55	90	50	4W, 3P	Solenoid	1.5	52
G5775	1,100	10,000	700	55	90	50	4W, 3P	Solenoid	5	110

Additional Pump Configurations

	MODEL	SELECTIONS		
Class	G	Power Pump		
Series	5	3 HP Air Motor / 55 cu.in.		
Motor Type	7	7 = Rotary Vane		
Valve Function	3	0 = Dump 1 = 2 Way Dump 2 = 2 Way Manual	3 = 3 Way Manual 4 = 4 Way Manual 5 = 2 Way Solenoid	6 = 3 Way Solenoid 7 = 4 Way Solenoid
Reservoir Size	5	2 = 1.5 Gallons Usable Oil 3 = 2.5 Gallons Usable Oil	5 = 5 Gallons Usable Oil 6 = 10 Gallons Usable Oil	7 = 20 Gallons Usable Oil
Factory Installed Options*		B = 3 Stage Pump C = Caster Wheel Kit	G = Gauge (Integrated) L = Locking Style Manifold M = Motor Pendant	O = Oil Filter R = Roll Cage

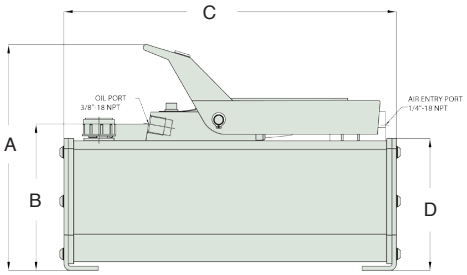
* If pump model consists of more than 3 options, contact factory.
* Gauge will not be protected by roll cage when a 5 gallon or larger reservoir is ordered.
* Roll cage not available on 10 & 20 gallon reservoir.
* Caster wheel kit not available on 5,10 & 20 gallon reservoirs.
* Oil filter not available on dump, 2 way dump & 2 way manual.

Air Pumps
G9-Series

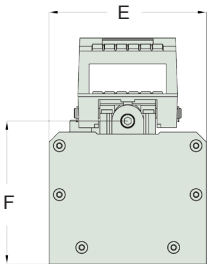
SIMPLEX

GA9
Air over Hydraulic

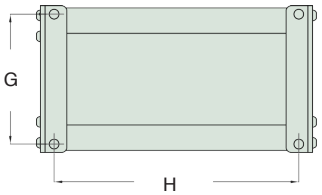
GA9 - 90 cu. in. Reservoir



Side

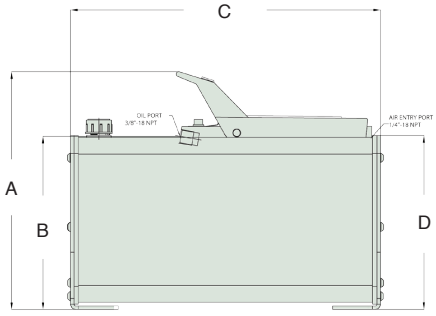


Front

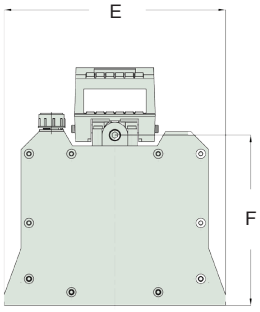


Bottom

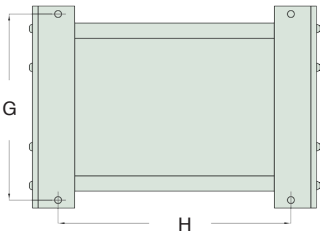
GA9 - 230 / 460 cu. in. Reservoir



Side



Front



Bottom

Model	Tool Type	Control	Usable Oil Capacity (cu.in.)	Oil Flow @ 0 psi (cu. in.)	Oil Flow @ 10,000 psi (cu. in.)	Operating Air Pressure Range (psi)	Weight (lbs)	Reservoir Sizes (in)						Mounting Holes (in)	
								A	B	C	D	E	F	G	H
GA90	S/A	Foot Pedal	90	68	11	60 - 150	18.5	8.38	5.32	10.69	4.81	5.81	5.25	5.01	9.27
GA9230	S/A	Foot Pedal	230	68	11	60 - 150	32.6	11.88	7.94	10.63	7.94	9.84	7.88	9.05	11.29
GA9460	S/A	Foot Pedal	460	68	11	60 - 150	41	11.88	7.94	14.06	7.94	9.84	7.88	9.05	11.29
GA90R	S/A	Pendant	90	68	8	60 - 150	23.5	8.38	5.32	10.69	4.81	5.81	5.25	5.01	9.27
GA9230R	S/A	Pendant	230	68	8	60 - 150	37.6	11.88	7.94	10.63	7.94	9.84	7.88	9.05	11.29
GA9230D	D/A	Valve	230	68	11	60 - 150	31.6	11.88	7.94	10.63	7.94	9.84	7.88	9.05	11.29
GA9460D	D/A	Valve	460	68	11	60 - 150	41	11.88	7.94	14.06	7.94	9.84	7.88	9.05	11.29

General Purpose Cylinders

Single Acting, Spring Return, C-Series

POWER TEAM

RUGGED, HIGH QUALITY CYLINDER USED FOR LIFTING AND PRESSING

- Aluminum bronze bearing reduces wear caused by off-center loads.
- Maximum sized springs speed piston return and increase spring life.
- Solid steel cylinder body for durability.
- Chrome plated piston rod resists wear and corrosion.
- Wide range of accessories available to thread onto piston rod, collar, or onto cylinder base.
- Base mounting holes standard on 5 through 55 ton cylinders; optional on 75 and 100 ton cylinders.
- A 3/8" NPTF female half coupler is standard.



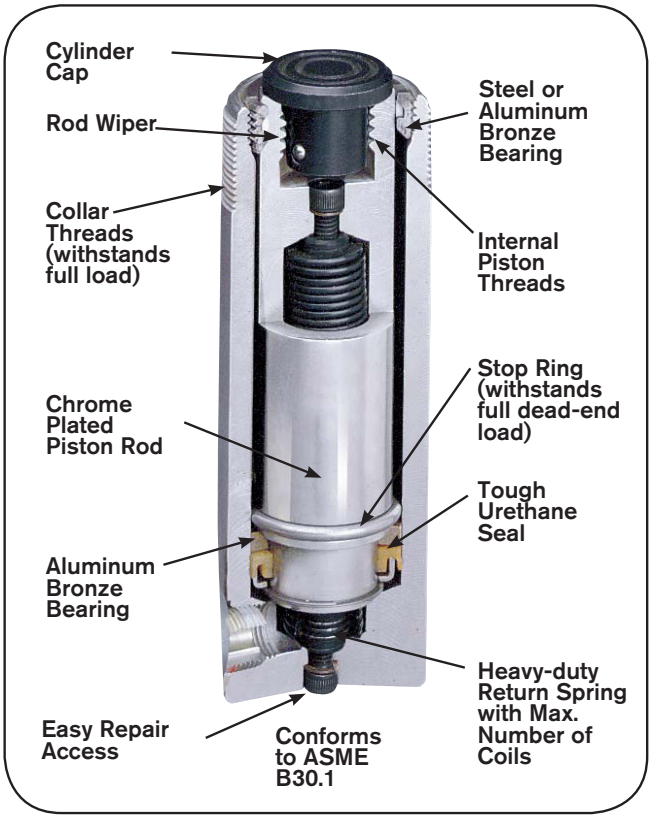
C106C

BASE MOUNTING HOLES



Cylinder Tonnage	No. Holes	Thread Size	Thread Depth	Bolt Circle Diameter (in.)
5	2†	1/4–20	0.38	1.00
10		5/16–18	0.50	1.56
15		3/8–16		1.88
25		1/2–13	0.75	2.31
55				3.75
*Optional 75	4	3/4–10	1.00	4.50
*Optional 100		1–8		4.75

* Consult Factory (45° from coupler) † 90° from coupler.





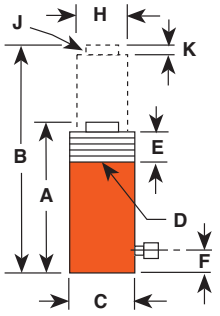
C756C

General Purpose Cylinders

Single Acting, Spring Return, C-Series

POWER TEAM

"C" Series Cyl. Caps, see page 233.



Cyl Cap Tons	Stroke (in.)	Order No.	Oil Cap. (cu.in)	A Re-tracted Height (in.)	B Ex-tended Height (in.)	C Outside Dia. (in.)	D Collar Thread (in.)	E Piston Collar Thread Length (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	J Piston Rod Int. Thread and Depth (in.)	K Rod Protru-sion (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.)	Internal Press. at Cap. (psi)	Tons at 10,000 (psi)	Prod. Wt. (lbs.)
5	1	C51C	1.1	4 11/32	5 7/16	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	2.25
	3 1/4	C53C	3.2	6 1/2	9 3/4	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	3.26
	5 1/4	C55C	5.2	8 1/2	13 3/4	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	4
	7 1/4	C57C	7.2	10 3/4	18	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	5
	9 1/4	C59C	9.2	12 3/4	22	1 1/2	1 1/2-16	1 1/8	3/4	1	3/4-16 x 5/8	1/4	1 1/8	.994	10,061	4.97	5.8
10	1	C101C	2.2	3 5/8	4 5/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	4
	2 1/8	C102C	4.8	4 3/4	6 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	5
	4 1/8	C104C	9.2	6 3/4	10 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	6.7
	6 1/8	C106C	13.7	9 3/4	15 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	9.4
	8 1/8	C108C	19.9	11 3/4	19 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	11
	10 1/8	C1010C	22.6	13 3/4	23 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	13
	12 1/8	C1012C	27.1	15 3/4	27 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	14.6
	14 1/8	C1014C	31.6	17 3/4	31 7/8	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	16.2
	16	C1016C	36.1	20 1/2	36 1/2	2 1/4	2 1/4-14	1 1/8	3/4	1 1/2	1-8 x 3/4	1/4	1 11/16	2.236	8,948	11.2	18.5
15	1	C151C	3.1	4 7/8	5 7/8	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	7.5
	2 1/8	C152C	6.7	5 7/8	8	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	8.9
	4 1/8	C154C	12.9	7 7/8	12	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	11.5
	6 1/8	C156C	19.2	10 11/16	16 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	15.3
	8 1/8	C158C	25.5	12 11/16	20 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	17.9
	10 1/8	C1510C	31.8	14 11/16	24 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	20.7
	12 1/8	C1512C	38.1	16 11/16	28 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	23.2
	14 1/8	C1514C	44.4	18 11/16	32 13/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	26
	16	C1516C	50.3	20 9/16	36 9/16	2 3/4	2 3/4-16	1 1/8	3/4	1 3/4	1-8 x 3/4	1/4	2	3.142	9,549	15.7	28.2
25	1	C251C	5.1	5 1/2	6 1/2	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 5/16	5.15	9,699	25.8	11.9
	2	C252C	10.3	6 1/2	8 1/2	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 5/16	5.15	9,699	25.8	13.9
	4	C254C	20.6	8 1/2	12 1/2	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 5/16	5.15	9,699	25.8	17.6
	6 1/4	C256C	32.2	10 3/4	17	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 5/16	5.15	9,699	25.8	21.7
	8 1/4	C258C	42.5	12 3/4	21	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 5/16	5.15	9,699	25.8	25.6
	10 1/4	C2510C	52.8	14 3/4	25	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 5/16	5.15	9,699	25.8	29.3
	12 1/4	C2512C	63.2	16 3/4	29	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 5/16	5.15	9,699	25.8	33.1
	14 1/4	C2514C	73.5	18 3/4	33	3 3/8	3 5/16-12	1 15/16	1	2 1/4	1 1/2-16 x 7/8	3/8	2 5/16	5.15	9,699	25.8	36.8
55	2	C552C	22.1	6 7/8	8 7/8	5	5-12	2 5/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	32.5
	4 1/4	C554C	46.9	9 1/8	13 3/8	5	5-12	2 5/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	41.3
	6 1/4	C556C	69.0	11 1/8	17 3/8	5	5-12	2 5/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	51
	10 1/4	C5510C	113.2	15 1/8	25 3/8	5	5-12	2 5/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	67
	13 1/4	C5513C	146.3	18 1/8	31 3/8	5	5-12	2 5/16	1 3/8	3 1/8	None	1/8	3 3/4	11.04	9,959	55.2	78
75	6 1/8	C756C	97.4	12 3/8	18 1/2	5 3/4	5 3/4-12	1 3/4	1 1/4	3 3/4	None	1/8	4 1/2	15.90	9,434	79.5	73.5
	13 1/8	C7513C	208.7	19 3/8	32 1/2	5 3/4	5 3/4-12	1 3/4	1 1/4	3 3/4	None	1/8	4 1/2	15.90	9,434	79.5	109.5
100	2	C1002C	41.2	8 5/8	10 5/8	6 1/4	6 1/4-12	2 1/4	1 5/8	4 1/8	None	1/8	5 1/8	20.62	9,695	103.1	63
	6 5/8	C1006C	137.0	13 1/4	19 7/8	6 1/4	6 1/4-12	2 1/4	1 5/8	4 1/8	None	1/8	5 1/8	20.62	9,695	103.1	91
	10 1/4	C10010C	211.5	16 7/8	27 1/8	6 1/4	6 1/4-12	2 1/4	1 5/8	4 1/8	None	1/8	5 1/8	20.62	9,695	103.1	113

Shorty Cylinders
Single Acting, RSS-Series

POWER TEAM

IDEAL FOR CONFINED AREAS FROM 3-1/2" TO 11-7/16" CLEARANCE.

- Power Tech plated piston rods and gland nuts resist scoring and corrosion.
- Heavy duty return spring (except for double-acting models) provides fast piston return & low collapsed height.
- Coupler on 10 thru 50 ton models is angled upward 5° for added clearance.
- Grooved piston top keeps load from sliding.
- Cylinders can be "dead-ended" at full capacity.
- Removable carrying handles on 100 ton and 250 ton models.



RSS2503

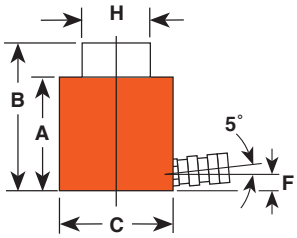
RSS302



ASME B30.1
10,000 PSI



Cribbing blocks are shown in a 30 ton RSS302 "Shorty" cylinder. For more information see pg 38.



Cyl Capacity (Tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.) Push	Oil Cap. (cu. in.) Return	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.) Push	Internal Press. at Cap. (psi) Push	Tons at 10,000 psi Push	Prod. Wt. (lbs.)
10	1 1/2	**RSS101**	3.4	–	3 1/2	5	2 3/4	5/8	1 1/2	1 11/16	2.24	8,943	11.2	6.0
20	1 3/4	**RSS202**	7.7	–	3 3/4	5 1/2	3 9/16	5/8	2 5/32	2 3/8	4.43	9,029	22.1	9.9
30	2 7/16	**RSS302**	15.8	–	4 5/8	7 1/16	4	5/8	2 1/2	2 7/8	6.49	9,243	32.5	14.7
50	2 3/8	**RSS502**	22.8	–	5	7 3/8	4 7/8	3/4	3 1/8	3 1/2	9.62	10,393	48.1	23.2
100	2 1/4	**RSS1002**	44.2	–	5 1/2	7 3/4	6 5/8	15/16	4 3/8	5	19.63	10,186	98.2	47.3
100	1 1/2	**RSS1002D**	29.4	12.9	5 11/16	7 3/16	6 7/8	15/16*	3 3/4	5	19.63	10,186	98.2	54.6
250	3	**RSS2503**	150.6	–	11 7/16	14 7/16	9 7/8	1 13/16	5 1/2	8	50.22	9,956	251.1	220.0

*Cylinder top to port is 1 9/16

Low Profile Cylinders

Single Acting, Spring Return, RLS-Series

POWER TEAM

IDEAL FOR CONFINED AREAS FROM 1-5/8" TO 4" CLEARANCE.

- Cylinder body, piston and gland nut "Power Tech" treated for corrosion and abrasion resistance (see page 8).
- Standard domed piston rod (5-30 ton) or swivel cap (50-150 ton) minimize effects of off-center loading.
- Unique heavy duty spring provides fast piston return.
- A 9796 3/8" NPTF female half coupler is standard with each cylinder (the RLS50 has a 3/8" coupler which is not angled). Oil ports are 3/8" NPTF.
- Couplers on all cylinders, except RLS50, are angled upward for extra clearance.



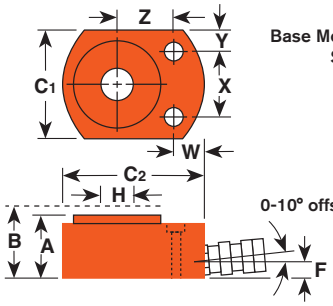
RLS100



ASME B30.1
10,000 PSI



RLS1000S



Base Mounting Holes
See Page 233

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C1 & C2 Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	W Mounting Hole Location (in.)	X Mounting Hole Location (in.)	Y Mounting Hole Location (in.)	Z Mounting Hole Location (in.)	Bore Dia. (in.)	Cyl. Eff. Area (sq. in.)	Int. Press. at Cap. (psi)	Tons at 10,000 psi	Prod. Wt. (lbs.)
5	9/16	RLS50	.62	1 5/8	2 3/16	1 5/8 x 2 9/16	3/4	5/8	3/4	1 1/8	1/4	1	1 1/8	.994	10,061	4.97	2.2
10	7/16	RLS100	1.0	1 3/4	2 3/16	2 3/16 x 3 1/4	5/8	3/4	11/16	1 7/16	3/8	1 5/16	1 11/16	2.236	8,943	11.18	3.3
20	7/16	RLS200	2.0	2	2 7/16	3 x 4	21/32	1 1/8	23/32	1 15/16	17/32	1 9/16	2 3/8	4.430	9,029	22.15	5.6
30	1/2	RLS300	3.2	2 5/16	2 13/16	3 3/4 x 4 1/2	23/32	1 3/8	13/16	2 1/16	27/32	1 3/4	2 7/8	6.492	9,242	32.46	8.6
50	5/8	RLS500S	6.0	2 5/8	3 1/4	4 1/2 x 5 1/2	27/32	1 3/4	15/16	2 5/8	15/16	2 1/8	3 1/2	9.621	10,394	48.10	14.0
75	5/8	RLS750S	9.9	3 1/8	3 3/4	5 17/32 x 6 1/2	1	2 1/8	15/16	3	1 17/64	2 19/32	4 1/2	15.904	9,431	79.52	23.3
100	5/8	RLS1000S	12.3	3 3/8	4	6 x 7	1	2 1/2	13/16	3	1 1/2	2 13/16	5	19.635	10,186	98.17	30.0
150	9/16	RLS1500S	17.2	4	4 9/16	7 1/2 x 8 1/2	1 5/16	3	1 5/16	4 5/8	1 7/16	3 1/8	6 1/4	30.680	9,778	153.39	52.0

Center Hole Cylinders

Single Acting, Spring Return, RH-Series

POWER TEAM

IDEAL FOR PULLING AND TENSIONING OF CABLES, ANCHOR BOLTS, FORCING SCREWS, ETC.

- Interchangeable piston head inserts provide versatility of application.
- 12, 20*, 30*, 50, 60 Ton Single-Acting Models Feature Threaded Collar
- Withstands full "dead-end" loads.
- Corrosion resistant standpipe has "Power Tech" treatment.
- All cylinders except RH120 are furnished with a 9796 3/8" NPT female half coupler.
- Aluminum cylinder body and piston are featured on the RHA306 cylinder.

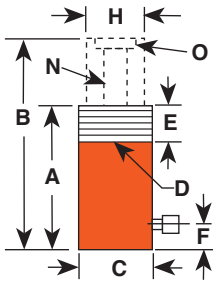
* Model RH203 and RHA306 do not feature the collar thread. See the chart below.





ASME B30.1
10,000 PSI





10, 20, 100 Ton Single-Acting Models Feature Plain Collar

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	D Collar Thread (in.)	E Collar Thread Length (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	N Center Hole Dia. (in.)	O Insert Thread and Size (in.)	Mounting Holes Bolt Circle (in.)	Cylinder Effective Area (sq. in.)	Internal Press. at Cap. (psi)	Tons at 10,000 psi	Prod. Wt. (lbs.)
10	2 1/2	RH102	5.52	5 5/16	7 13/16	3	None	None	1	2 1/16	49/64	1 3/4-12	1/4-20 x 2 3/8	2.21	9,054	11	9
10	8	RH108	17.68	11 5/16	19 5/16	3	None	None	1	2 1/16	49/64	1 3/4-12	1/4-20 x 2 3/8	2.21	9,054	11	18.7
12	5/16	RH120**	.87	2 3/16	2 1/2	2 3/4	2 3/4-16	1 1/4	3/8	1 3/8	11/16	3/4-16	5/16-18 x 2	2.76	8,692	13.8	3
12	1 5/8	RH121	4.49	4 13/16	6 7/16	2 3/4	2 3/4-16	1 1/4	1	1 3/8	51/64	None	None	2.76	8,692	13.8	6.6
12	1 5/8	RH121T**	4.49	4 13/16	6 7/16	2 3/4	2 3/4-16	1 1/4	1	1 3/8	11/16	3/4-16	None	2.76	8,692	13.8	6.6
12	3	RH123	8.29	7 1/4	10 1/4	2 3/4	2 3/4-16	13/16	1	1 3/8	13/16	None	None	2.76	8,692	13.8	8.9
20	2	RH202	9.45	6 1/8	8 1/8	3 7/8	3 7/8-12	1 1/2	1	2 1/8	1 5/64	1 9/16-16	3/8-16 x 3 1/4	4.72	8,466	23.6	16.1
20	3	RH203	11.76	6 1/16	9 1/16	4	None	None	1	2 3/4	1 3/64	2 1/4-12	3/8-16 x 3 1/4	3.92	10,186	19.6	20
20	6	RH206	28.35	12 1/8	18 1/8	3 7/8	3 7/8-12	1 1/2	1	2 1/8	1 5/64	1 9/16-16	3/8-16 x 3 1/4	4.72	8,466	23.6	30.2
30	2 1/2	RH302	15.85	6 1/4	8 3/4	4 3/4	4 3/4-12	1 1/2	1 5/32	3 1/4	1 19/64	2 3/4-12	7/16-20 x 3 5/8	6.34	9,457	31.7	25.6
30	5 7/8	RHA306	38.1	11 5/32	17 1/32	5 1/8	None	None	1 1/4	3 1/4	1 9/32	2 5/8-8	None	6.34	9,457	31.7	21.9
30	6	RH306	38.1	9 3/4	15 3/4	4 3/4	4 3/4-12	1 1/2	1 5/32	3 1/4	1 9/32	2 3/4-12	7/16-20 x 3 5/8	6.34	9,457	31.7	39
50	3	RH503	32.58	7 1/8	10 1/8	6	6-12	2	1 1/4	4 1/8	1 43/64	3 1/4-12	5/8-18 x 4 3/4	10.86	9,208	54.3	46.6
60	3	RH603*	37	9 1/4	12 1/4	6 1/4	6 1/4-12	2 1/2	1	3 19/32	2 1/8	3-12	1/2-13 x 5 1/8	12.31	9,750	61.6	60
60	6	RH606*	73.86	12 1/4	18 1/4	6 1/4	6 1/4-12	2 1/2	1	3 19/32	2 1/8	3-12	1/2-13 x 5 1/8	12.31	9,750	61.6	78
100	3	RH1003*	61.8	10	13	8 3/8	None	None	1 1/4	5	3 1/8	4 1/8-12	None	20.62	9,700	103.1	115

*Supplied with carrying handles.

Aluminum

** RH120 and RH121T do not have an internal threaded insert, but do have a 3/4-16 internal thread. The RH120 inlet port is 1/4" NPTF.

Center Hole Cylinders
Double Acting, RH-Series

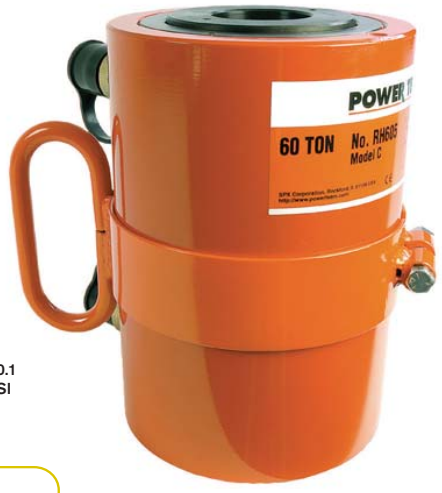
POWER TEAM



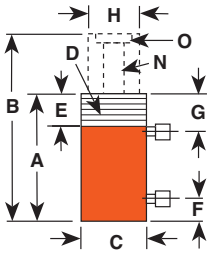
FOR PULLING AND TENSIONING OF CABLES, ANCHOR BOLTS, FORCING SCREWS.

- Interchangeable piston head inserts (see page 39) provide versatility of application.
- Built-in safety feature prevents over-pressurization of the retraction circuit.
- Plated piston rod resists wear; superior packings provide high cycle life without leakage.
- Corrosion-resistant standpipe has "Power Tech" treatment (see page 8).
- Each cylinder has 9796 3/8" NPTF female half couplers. The 60 ton thru 200 ton steel models are equipped with removable carrying handles.

ASME B30.1
10,000 PSI



30, 60, 100 Ton
Double-Acting Models
Feature Threaded Collar



Cyl. Cap. (tons) Push	Cyl. Cap. (tons) Pull	Stroke (in.)	Order No.	Oil Cap. (cu.in.) Push	Oil Cap. (cu.in.) Pull	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	D Collar Thread (in.)	E Collar Thread Length (in.)	F Base to Port (in.)	G Cylinder Top to Port (in.)	H Piston Rod Dia. (in.)	N Center Hole Dia. (in.)	O Insert Thread Size (in.)	Mounting Holes and Bolt Circle (in.)	Cylinder Effective Area (sq.in.) Push	Cylinder Effective Area (sq.in.) Pull	Internal Pressure at Cap. (psi) Push	Internal Pressure at Cap. (psi) Pull	Tons at 10,000 psi Push	Tons at 10,000 psi Pull	Prod. Wt (lbs.)
30	15	3	RH303	17.6	10.2	7 1/16	10 1/16	4 3/4	None	None	1	1 5/8	2 1/2	1 9/32	2-12	3/8-16x3 5/8	5.89	3.38	10,200	8,876	29.5	16.9	29.8
30	15	6	RH306D	35.34	20.28	11 1/16	17 1/16	4 3/4	None	None	1	1 5/8	2 1/2	1 17/64	2-12	7/16-20x3 5/8	5.89	3.38	10,200	8,876	29.5	16.9	45
30	20	10 1/8	RH3010	66	41	17 1/4	27 3/8	4 1/2	4 1/2-12	1 5/8	1 3/4	3 3/16	2 3/8	1 5/16	1 7/8-16	None	6.54	4.04	9,174	9,901	32.7	20. 2	61
60	25	4	RHA604D	49.2	20.6	9 1/2	13 1/2	7	None	None	1 9/16	2 1/4	4	2 1/8	3-12	1/2-13x5 1/8	12.31	5.15	9,750	9,709	61.5	27.7	35.6
60	25	5	RH605*	61.55	25.77	9 1/2	14 1/2	6 17/32	None	None	1	1 3/4	4	2 1/8	3-12	1/2-13x5 1/8	12.31	5.15	9,750	9,709	61.5	27.7	73
60	40	10 1/8	RH6010*	133	87	18 1/16	28 3/16	6 1/4	6 1/4-12	1 7/8	2 1/8	3 7/32	3 5/8	2 1/8	3-16	None	13.14	8.59	9,132	9,313	65.7	42.9	120
100	45	1 1/2	RH1001	32.1	14.2	6 1/2	8	8 3/8	None	None	1 1/4	2 5/16	5	3 9/64	4-16	5/8-11x7	21.39	9.43	9,350	9,544	106.9	47.1	85
100	50	6	RH1006*	120.2	65.6	12 3/8†	18 3/8	7 1/4	None	None	1 15/32	2 21/64	4 3/8	2 1/16	None	1/2-13x5 1/2	20.03	10.93	9,986	9,150	100.1	54.7	95
100	45	10 1/8	RH10010*	216.6	95.5	19 1/2	29 5/8	8 1/2	8 1/2-12	2 1/4	2 1/2	3 39/64	5 1/2	3 9/64	4 1/2-12	None	21.39	9.43	9,350	9,544	106.9	47.1	240
150	70	5	RH1505*	150.9	73.6	12 1/4†	17 1/4	8 1/2	None	None	1 15/32	2 11/16	5 1/2	2 9/16	None	None	30.1	14.7	9,937	9,524	150.9	73.6	148
150	75	8	RH1508*	239.6	127.2	13 3/4	21 3/4	9 3/4	None	None	1 35/64	2 13/32	6	3 5/32	5-12	None	29.95	15.9	10,015	9,434	149.8	79.5	227
200	75	8	RH2008*	323.6	127.6	16 1/16	24 1/16	10 3/4	None	None	2 1/4	3 7/32	7 1/2	4 1/16	6-12	1 1/4-7 x 7 3/4	40.45	15.95	9,888	9,404	202.3	79.8	311

* Supplied with carrying handles.
† Measured with serrated load cap installed.

Aluminum

High Tonnage Cylinders
Double Acting, RD-Series

POWER TEAM

HIGH TONNAGE PREMIUM DESIGN FOR HIGH CYCLE LIFE.

- Perfect for bridge lifting, building reconstruction, shipyard, utility and mining equipment maintenance.
- Aluminum bronze overlay bearings provide long life.
- Chrome plated piston rod resists corrosion.
- Load cap snaps out to expose internal piston rod threads for pulling applications; threads withstand full tonnage.
- Grooved ring pattern in load cap helps guard against load slippage.
- Each cylinder has two 9796 3/8" NPTF female half couplers.
- Built-in safety relief valve prevents over-pressurization of the retract circuit.
- Feature mounting holes and collar threads.



Four special order 500 ton, 24" stroke cylinders used in a swaging press for crimping 3 1/2" wire rope.



RD10013

ASME B30.1
10,000 PSI



RD300



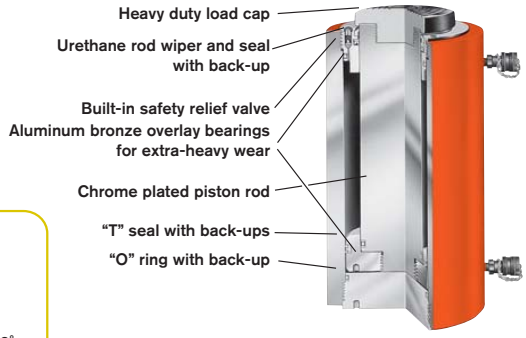
RD556

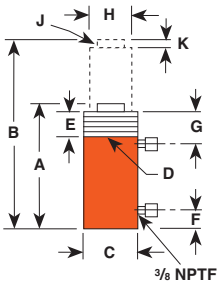
High Tonnage Cylinders

Double Acting, RD-Series

POWER TEAM

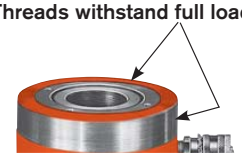
Features of RD Series Cylinders





Base mounting holes see page 233.

Threads withstand full load.



Cyl. Cap. (tons) Push	Pull	Stroke (in.)	Order No.	Oil Capacity (cu.in.) Push	Pull	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	D Collar Thread Size (in.)	E Thread Length (in.)	F Base to Port (in.)	G Cylinder Top to Port (in.)	H Rod Dia. (in.)	J Rod Int. Thread & Depth (in.)	K Piston Rod Protrusion (in.)	Load Cap Dia. (in.)	Bore Dia. (in.)	Cyl. Eff. Area (sq.in.) Push	Pull	Int. Press. at Cap. Push	Pull	Tons at 10,000 psi Push	Pull	Prod. Wt. (lbs)
10	4	6 1/4	RD106	13.9	5.5	11 11/16	17 15/16	3	2 3/4-12	1 5/8	1	2 1/2	1 5/16	1-8x1	1/4	1 3/8	1 11/16	2.23	0.88	8,943	9,055	11.2	4.4	22
10	4	10	RD1010	22.3	8.8	15 11/16	25 11/16	3	2 3/4-12	1 5/8	1	2 1/2	1 5/16	1-8x1	1/4	1 3/8	1 11/16	2.23	0.88	8,943	9,055	11.2	4.4	28
25	8	6 1/4	RD256	32.2	10.1	12 3/8	18 5/8	4	4-12	1 5/8	1	2 1/2	2 1/8	1 1/2-16x1	3/8	2 1/8	2 9/16	5.15	1.61	9,695	9,934	25.8	8.0	39.8
25	8	14 1/4	RD2514	73.5	22.9	20 3/8	34 5/8	4	4-12	1 5/8	1	2 1/2	2 1/8	1 1/2-16x1	3/8	2 1/8	2 9/16	5.15	1.61	9,695	9,934	25.8	8.0	65
55	28	6 1/4	RD556	69.0	35.2	12 31/32	19 7/32	5	5-12	1 5/8	1 5/16	2 1/2	2 5/8	1 11/16-8X1 3/16	5/8	2 5/8	3 3/4	11.04	5.63	9,959	9,941	55.2	28.2	61.4
55	28	13 1/8	RD5513	144.9	73.9	19 27/32	32 31/32	5	5-12	1 5/8	1 5/16	2 1/2	2 5/8	1 11/16-8X1 3/16	5/8	2 5/8	3 3/4	11.04	5.63	9,959	9,941	55.2	28.2	90
55	28	18 1/8	RD5518	200.0	102.0	25 7/8	44	5	5-12	1 5/8	1 5/16	2 1/2	2 5/8	1 11/16-8X1 3/16	5/8	=7*2 5/8	3 3/4	11.04	5.63	9,959	9,941	55.2	28.2	142
80	44	13 1/8	RD8013	208.6	115.9	20 3/8	33 1/2	5 3/4	5 3/4-12	1 5/8	1 1/2	2 1/2	3	2-4 1/2x1 1/2	9/16	2 7/8	4 1/2	15.90	8.84	10,060	9,954	79.5	44.2	118
100	44	6 5/8	RD1006	136.7	58.5	13 25/32	20 13/32	6 7/8	6 7/8-12	1 5/8	1 1/2	2 1/2	3 7/8	2 3/4-12x1 5/32	5/8	3 7/8	5 1/8	20.63	8.84	9,695	9,959	103.1	44.2	126
100	44	13 1/8	RD10013	270.7	116.0	20 9/32	33 13/32	6 7/8	6 7/8-12	1 5/8	1 1/2	2 1/2	3 7/8	2 3/4-12x1 5/32	5/8	3 7/8	5 1/8	20.63	8.84	9,695	9,959	103.1	44.2	181
100	44	20 1/8	RD10020	415.2	178.0	30 1/2	50 5/8	6 7/8	6 7/8-12	1 5/8	2 25/32	2 1/2	3 7/8	2 3/4-12x1 5/32	5/8	3 7/8	5 1/8	20.63	8.84	9,695	9,959	103.1	44.2	260
150	73	6 5/8	RD1506	203.3	97.9	14 7/8	21 1/2	8 1/4	8 1/4-12	1 5/8	2	2 1/2	4 1/2	3 1/4-8x1 1/2	13/16	4 1/2	6 1/4	30.68	14.78	9,779	9,880	153.4	73.8	188
150	73	13 1/8	RD15013	402.7	193.9	21 3/8	34 1/2	8 1/4	8 1/4-12	1 5/8	2	2 1/2	4 1/2	3 1/4-8x1 1/2	13/16	4 1/2	6 1/4	30.68	14.78	9,779	9,880	153.4	73.8	272
150	73	18 1/8	RD15018	556.8	267.8	26 17/32	44 21/32	8 1/4	8 1/4-12	1 5/8	2	2 1/2	4 1/2	3 1/4-8x1 1/2	3/4	4 1/2	6 1/4	30.68	14.78	9,779	9,880	153.4	73.8	376
200	113	6 5/8	RD2006	273.5	149.8	16	22 5/8	9 1/2	9 1/2-12	1 5/8	2 1/2	2 11/16	4 7/8	3 1/4-8x2 1/4	1 1/16	4 1/2	7 1/4	41.28	22.62	9,689	9,992	206.4	113.1	262
200	113	13 1/8	RD20013	541.8	296.9	22 1/2	35 5/8	9 1/2	9 1/2-12	1 5/8	2 1/2	2 11/16	4 7/8	3 1/4-8x2 1/4	1 1/16	4 1/2	7 1/4	41.28	22.62	9,689	9,992	206.4	113.1	356
200	113	18 1/8	RD20018	748.2	409.9	28 1/2	46 5/8	9 1/2	9 1/2-12	1 5/8	2 1/2	2 11/16	4 7/8	3 1/4-8x2 1/4	1 1/16	4 1/2	7 1/4	41.28	22.62	9,689	9,992	206.4	113.1	442
300	147	6	RD3006	361.0	177.0	17 9/32	23 9/32	10 3/4	10 1/2-12	2 3/8	3 3/8	3 3/8	6 1/4	2 1/2-12x3 1/4	1 1/8	6 7/8	8 3/4	60.13	29.45	9,978	10,000	300.7	147.3	380
300	147	13	RD30013	782.0	383.0	24 13/16	37 13/16	10 3/4	10 1/2-12	2 3/8	3 3/8	3 3/8	6 1/4	2 1/2-12x3 1/4	1 1/8	6 7/8	8 3/4	60.13	29.45	9,978	10,000	300.7	147.3	654
400	186	6	RD4006	471.0	247.0	19 9/32	25 9/32	12 5/8	12 1/2-8	2 3/4	3 27/32	3 27/32	7 1/4	3-12x3 3/4	1 1/4	7 13/16	10	78.54	37.26	10,185	10,000	392.7	186.3	585
400	186	13	RD40013	1021.0	536.0	26 9/32	39 9/32	12 5/8	12 1/2-8	2 3/4	3 27/32	3 27/32	7 1/4	3-12x3 3/4	1 1/4	7 13/16	10	78.54	37.26	10,185	10,000	392.7	186.3	770
500	245	6	RD5006	596.0	295.0	20 9/16	26 9/16	14 3/4	14 3/4-8	3 1/8	4 5/32	4 5/32	8	3 1/4-12x4 1/4	1 1/2	8 1/2	11 1/4	99.40	49.14	10,060	10,000	497.0	245.6	819
500	245	13	RD50013	1292.0	639.0	27 9/16	40 9/16	14 3/4	14 3/4-8	3 1/8	4 5/32	4 5/32	8	3 1/4-12x4 1/4	1 1/2	8 1/2	11 1/4	99.40	49.14	10,060	10,000	497.0	245.6	1092

High Tonnage Cylinders

Single Acting Load Return, RC-Series

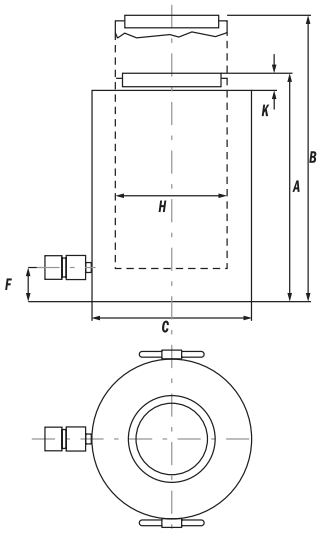
POWER TEAM



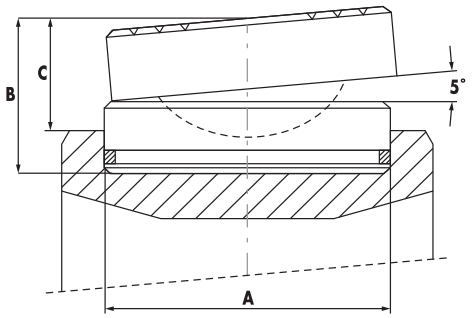
HIGH-TONNAGE, LOW CYCLE, GRAVITY RETURN.

- Overflow port ("weep hole") prevents piston from being overextended under load.
- Alloy heat treated piston and body for reliability and strength.
- Plated piston rod increases corrosion resistance and gives superior bearing support.

Single-Acting High Tonnage Cylinders



Swivel Cap



Order No.	Used with Cyl. Order No.	A (in.)	B (in)	C (in.)	Product Wt (lbs.)
2000822	**RC740*D**	7.9	3.1	2.24	2.5
2000823	**RC965*D**	9.8	4.1	3.0	88.2
2000825	**RC1220*D**	12.7	6.9	4.9	249.1

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	Bore Dia. (in.)	Cyl. Eff. Area (cu. in.)	Tons @ 10,000 psi	Product Wt. (lbs.)
740	2.0	**RC7402C**	293.6	10.4	12.4	16.9	2.6	13.8	0.4	13.8	149.1	742	661
740	6.0	**RC7406C**	880.7	14.4	20.3	16.9	2.6	13.8	0.4	13.8	149.1	742	917
740	10	**RC74010C**	1,467.8	18.3	28.1	16.9	2.6	13.8	0.4	13.8	149.1	742	1,168
965	2.0	**RC9652C**	383.2	11.4	13.4	19.3	2.8	15.7	0.4	15.7	194.8	970	933
965	6.0	**RC9656C**	1,150.2	15.4	21.3	19.3	2.8	15.7	0.4	15.7	194.8	970	1,272
965	10	**RC96510C**	1,916.2	19.3	29.1	19.3	2.8	15.7	0.4	15.7	194.8	970	1,598
1220	2.0	**RC12202C**	485.1	16.3	18.1	21.7	3.1	17.7	0.4	17.7	246.5	1227	1,689
1220	6.0	**RC12206C**	1,455.8	20.2	26.1	21.7	3.1	17.7	0.4	17.7	246.5	1227	2,116
1220	10	**RC122010C**	2,452.2	24.4	34.2	21.7	3.1	17.7	0.4	17.7	246.5	1227	2,529

High Tonnage Cylinders

Single Acting Load Return, R-Series

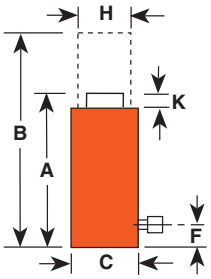
POWER TEAM



R2802C

ASME B30.1
10,000 PSI

HIGH-TONNAGE, LOW CYCLE, GRAVITY RETURN.



- Visible indicator band alerts when stroke limit is reached; overflow port ("weep hole") stroke limiter prevents piston from being overextended.
- Alloy heat treated piston and body for reliability and strength.
- Plated piston rod increases corrosion resistance and gives superior bearing support.

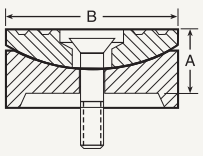
Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.)	Internal Pressure at Cap. (psi)	Tons at 10,000 psi	Product Wt. (lbs.)
55	2	**R552C**	22.1	4 15/16	6 15/16	5	1	3 3/4	1/8	3 3/4	11.04	9,960	55.2	27
55	6	**R556C**	66.3	8 15/16	14 15/16	5	1	3 3/4	1/8	3 3/4	11.04	9,960	55.2	50
55	10	**R5510C**	110.4	12 15/16	22 15/16	5	1	3 3/4	1/8	3 3/4	11.04	9,960	55.2	72
100	2	**R1002C**	41.3	5 1/2	7 1/2	6 1/2	1	5 1/8	1/8	5 1/8	20.63	9,695	103.2	52
100	6	**R1006C**	123.8	9 1/2	15 1/2	6 1/2	1	5 1/8	1/8	5 1/8	20.63	9,695	103.2	89
150	2	**R1502C**	61.4	6 3/8	8 3/8	8 1/16	1 1/4	6 1/4	1/8	6 1/4	30.68	9,778	153.4	92
150	6	**R1506C**	184.1	10 3/8	16 3/8	8 1/16	1 1/4	6 1/4	1/8	6 1/4	30.68	9,778	153.4	151
150	10	**R15010C**	306.8	14 3/8	24 3/8	8 1/16	1 1/4	6 1/4	1/8	6 1/4	30.68	9,778	153.4	210
200	2	**R2002C**	82.6	7 1/2	9 1/2	9 1/4	1 5/8	7 1/4	1/8	7 1/4	41.28	9,690	206.4	145
200	6	**R2006C**	247.7	11 1/2	17 1/2	9 1/4	1 5/8	7 1/4	1/8	7 1/4	41.28	9,690	206.4	221
280	2	**R2802C**	113.5	7 1/2	9 1/2	10 1/4	1 5/8	8 1/2	1/8	8 1/2	56.74	9,870	283.7	201
280	6	**R2806C**	340.4	11 1/2	17 1/2	10 7/8	1 5/8	8 1/2	1/8	8 1/2	56.74	9,870	283.7	300
355	2	**R3552C**	141.8	9 1/8	11 1/8	11 3/4	2 1/8	9 1/2	1/8	9 1/2	70.88	10,017	354.4	302
355	6	**R3556C**	425.3	13 1/8	19 1/8	11 3/4	2 1/8	9 1/2	1/8	9 1/2	70.88	10,017	354.4	434
355	10	**R35510C**	708.8	17 1/8	27 1/8	11 3/4	2 1/8	9 1/2	1/8	9 1/2	70.88	10,017	354.4	565
430	2	**R4302C**	173.2	10 3/8	12 3/8	13	2 1/2	10 1/2	1/8	10 1/2	86.59	9,932	433.0	440
430	6	**R4306C**	519.5	14 3/8	20 3/8	13	2 1/2	10 1/2	1/8	10 1/2	86.59	9,932	433.0	609
565	2	**R5652C**	226.2	11 1/2	13 1/2	14 7/8	2 3/4	12	1/8	12	113.10	9,991	565.5	638
565	6	**R5656C**	678.6	15 1/2	21 1/2	14 7/8	2 3/4	12	1/8	12	113.10	9,991	565.5	858
565	10	**R56510C**	1131.0	19 1/2	29 1/2	14 7/8	2 3/4	12	1/8	12	113.10	9,991	565.5	1078

SWIVEL CAPS

Reduce the effects of off center loading. Tilts up to 5 degrees. Radial grooves on top of cap reduce load slippage.

For use with "RC" cylinders

Use with Cyl. No.	Swivel Cap Order No.	Wt. (lbs).	A (in.)	B (in.)
150-200 ton	**420867**	8.8	1 1/2	5 1/8
280 ton	**420868**	13.5	1 3/4	5 7/8
355 ton	**420869**	37	2 3/4	7 11/16
430 ton	**420870**	52	3 1/8	8 7/8
565 ton	**420871**	78	3 5/8	9 7/8



Reduce the effects of off-center loading. Tilts up to 5 degrees. Radial grooves on top of cap reduce load slippage. Notch across face of each cap helps keep loads having a protruding or round shaped centered.

High Tonnage Cylinders
Double Acting, RC-Series

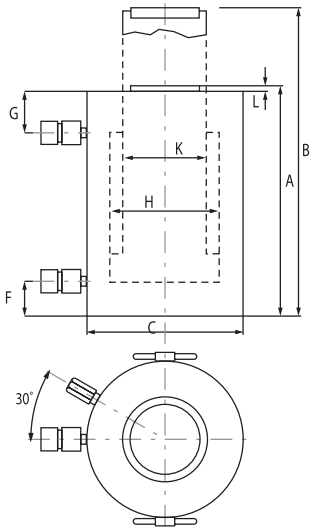
POWER TEAM

HIGH TONNAGE CYLINDERS RUGGED AND RELIABLE

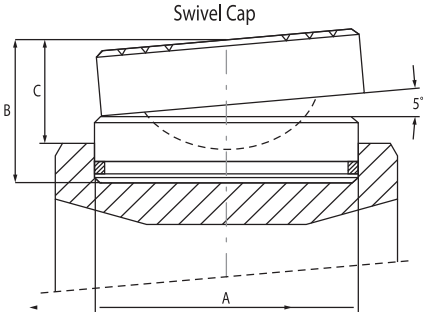
- Cylinders come standard with hardened caps.
- Cylinders may be "dead-ended" without damage.
- Safety relief valve prevents over-pressurization of the retract circuit.
- Each cylinder has two 9796 3⁄8" NPTF female half couplers.



Double-Acting High Tonnage Cylinders



Swivel Cap



- OPTIONAL SWIVEL CAPS REDUCE THE EFFECTS OF OFF-CENTER LOADING.

Order No.	Used with Cyl. Order No.	A (in.)	B (in.)	C (in.)	Product Wt (lbs.)
2000822	**RC740*D**	7.9	3.1	2.2	42.5
2000823	**RC965*D**	9.8	4.1	3.0	88.2
2000825	**RC1220*D**	12.7	6.9	4.9	249.1

In mm Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	G Cyl. Top to Port (in.)	H Bore Dia. (in.)	K Piston Rod Dia. (in.)	L Piston Rod Protusion (in.)	Cyl. Eff. Area (cu. in.)	Tons @ 10,000 psi	Product Wt. (lbs.)
740	2.0	**RC7402D**	293.6	11.1	13.1	16.9	2.6	3.9	13.8	11.01	0.4	149.1	742	670
740	6.0	**RC7406D**	880.7	15.7	21.6	16.9	2.6	3.9	13.8	11.01	0.4	149.1	742	877
740	10	**RC74010D**	1,467.8	20.0	29.8	16.9	2.6	3.9	13.8	11.01	0.4	149.1	742	1,080
965	2.0	**RC9652D**	383.2	12.2	14.2	19.3	2.8	4.5	15.7	12.75	0.4	194.8	970	957
965	6.0	**RC9656D**	1,150.2	16.5	22.4	19.3	2.8	4.5	15.7	12.75	0.4	194.8	970	1,215
965	9.8	**RC96510D**	1,916.2	20.9	30.7	19.3	2.8	4.5	15.7	12.75	0.4	194.8	970	1,473
1220	2.0	**RC12202D**	485.1	13.0	15.0	21.7	3.1	5.3	17.7	14.17	0.4	246.5	1227	1,287
1220	6.0	**RC12206D**	1,455.8	17.6	23.2	21.7	3.1	5.3	17.7	14.17	0.4	246.5	1227	1,612
1220	10	**RC122010D**	2,452.2	21.7	31.5	21.7	3.1	5.3	17.7	14.17	0.4	246.5	1227	1,936

High Tonnage Cylinders

Double Acting, R-Series

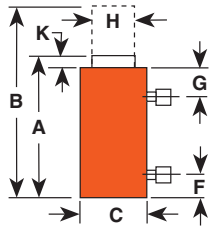
POWER TEAM

HIGH-TONNAGE, LOW CYCLE, HYDRAULIC RETURN.

- Cylinders come standard with swivel caps to reduce the effects of off-center loading.
- Cylinders may be “dead-ended” without damage.
- Hard chrome plated, heat treated piston rod reduces wear on piston and gland nut.
- Built-in safety relief valve prevents over-pressurization of the retraction circuit.
- Each cylinder has two 9796 3⁄8” NPTF female half couplers.



R2806D





R1502D

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Capacity (cu. in.) Push	Oil Capacity (cu. in.) Return	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	G Cylinder Top to Dia. (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.) Push	Internal Press. at Cap. (psi) Push	Tons at 10,000 psi Push	Prod. Wt. (lbs.)
100	2	**R1002D**	41.2	19.2	6 41/64	8 41/64	6 1/2	1	2 13/64	3 3/4	9/32	5 1/8	20.60	9,695	103.0	54
100	6	**R1006D**	123.6	57.6	10 41/64	16 41/64	6 1/2	1	2 13/64	3 3/4	9/32	5 1/8	20.60	9,695	103.0	81
100	10	**R10010D**	206.0	96.0	14 41/64	24 41/64	6 1/2	1	2 13/64	3 3/4	9/32	5 1/8	20.60	9,695	103.0	108
150	2	**R1502D**	61.4	29.6	7 7/16	9 7/16	8 1/16	1 1/4	2 1/4	4 1/2	19/64	6 1/4	30.70	9,778	153.4	95
150	6	**R1506D**	184.2	88.8	11 7/16	17 7/16	8 1/16	1 1/4	2 1/4	4 1/2	19/64	6 1/4	30.70	9,778	153.4	136
150	10	**R15010D**	307	148	15 7/16	25 7/16	8 1/16	1 1/4	2 1/4	4 1/2	19/64	6 1/4	30.70	9,778	153.4	136
200	2	**R2002D**	82.6	39.2	8 9/64	10 9/64	9 1/4	1 5/8	2 5/16	5 1/4	11/32	7 1/4	41.30	9,690	206.4	136
200	6	**R2006D**	247.8	117.6	12 9/64	18 9/64	9 1/4	1 5/8	2 5/16	5 1/4	11/32	7 1/4	41.30	9,690	206.4	187
200	10	**R20010D**	413.0	196.0	16 9/64	26 9/64	9 1/4	1 5/8	2 5/16	5 1/4	11/32	7 1/4	41.30	9,690	206.4	239
280	2	**R2802D**	113.4	47.2	9 13/64	11 13/64	10 7/8	1 7/8	2 37/64	6 1/2	13/32	8 1/2	56.70	9,870	283.7	219
280	6	**R2806D**	340.2	141.6	13 13/64	19 13/64	10 7/8	1 7/8	2 37/64	6 1/2	13/32	8 1/2	56.70	9,870	283.7	297
280	10	**R28010D**	567.0	236.0	17 13/64	27 13/64	10 7/8	1 7/8	2 37/64	6 1/2	13/32	8 1/2	56.70	9,870	283.7	376
355	2	**R3552D**	141.8	47.4	11 3/8	13 3/8	11 3/4	2 1/8	2 3/4	7 3/4	7/16	9 1/2	70.90	10,017	354.4	324
355	6	**R3556D**	425.4	142.2	15 3/8	21 3/8	11 3/4	2 1/8	2 3/4	7 3/4	7/16	9 1/2	70.90	10,017	354.4	421
430	2	**R4302D**	173.2	59.6	12 5/16	14 5/16	13	2 1/2	2 61/64	8 1/2	15/32	10 1/2	86.60	9,932	433.0	439
430	6	**R4306D**	519.6	178.8	16 5/16	22 5/16	13	2 1/2	2 61/64	8 1/2	15/32	10 1/2	86.60	9,932	433.0	558
430	10	**R43010D**	866.0	298.0	20 5/16	30 5/16	13	2 1/2	2 61/64	8 1/2	15/32	10 1/2	86.60	9,932	433.0	673
565	2	**R5652D**	226.2	76.8	13 19/32	15 19/32	14 7/8	2 3/4	3 13/64	9 3/4	35/64	12	113.10	9,991	565.5	619
565	6	**R5656D**	678.6	230.4	17 19/32	23 19/32	14 7/8	2 3/4	3 13/64	9 3/4	35/64	12	113.10	9,991	565.5	772
565	10	**R56510D**	1131.0	384.0	21 19/32	31 19/32	14 7/8	2 3/4	3 13/64	9 3/4	35/64	12	113.10	9,991	565.5	926

Locking Collar Cylinders

Single Acting, Spring Return, RL-Series

POWER TEAM

POSITIVE MECHANICAL LOCK TO SUPPORT LOAD.

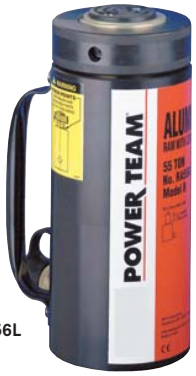
- Supports lifted load for extended periods of time with hydraulic pressure released.
- At half the weight of steel cylinders of comparable capacity, aluminum cylinders are ideal when portability is a key factor.
- Features carrying handle.



Locking collar feature permits non-hydraulic support of load.

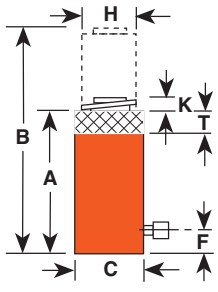


RA1006L



RA556L

ASME B30.1
10,000 PSI



Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	T Nut Thickness (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.)	Internal Pressure at Cap. (psi)	Tons at 10,000 psi	Product Wt. (lbs.)
55	6 1/8	**RA556L**	67.6	12 1/2	18 5/8	5 1/4	1 3/8	3 1/4	1/2	1 1/2	3 3/4	11.04	9,960	55.2	29.6
100	6 1/4	**RA1006L**	129	13 3/8	19 5/8	7 3/8	1 3/16	4 1/2	1/4	1 1/2	5 1/8	20.62	9,696	103.1	64.0

Note: Supported loads not to exceed the rated capacity of the cylinders. Not intended to support additional dynamic loads, such as those applied by moving vehicles.

Locking Collar Cylinders

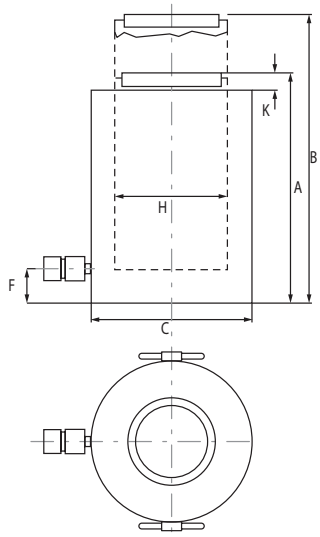
Single Acting, Load Return, RC-Series

POWER TEAM

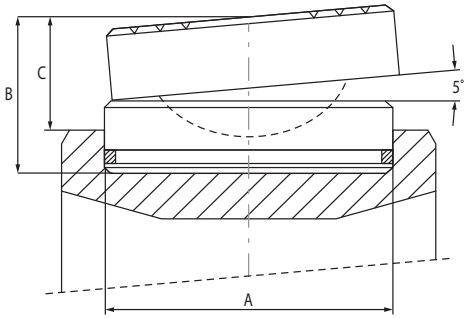
POSITIVE MECHANICAL LOCK TO SUPPORT LOAD.



Single-Acting Locking Collar Cylinders



Swivel Cap



Order No.	Used with Cyl. Order No.	A (in.)	B (in)	C (in.)	Product Wt (lbs.)
2000822	**RC740*L**	7.9	3.1	2.2	42.5
2000823	**RC965*L**	9.8	4.1	3.0	88.2
2000825	**RC1220*L**	12.7	6.9	4.9	249.1

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Bore Dia. (in.)	K Piston Rod Protrusion (in.)	Piston Thr. Dia. (in.)	Cyl. Eff. Area (cu. in.)	Tons @ 10,000 psi	Product Wt. (lbs.)
740	2.0	**RC7402L**	293	12.0	14.0	16.9	2.6	13.8	0.2	13.8 x 6	149.1	746	756
740	6.0	**RC7406L**	880	16.5	22.4	16.9	2.6	13.8	0.2	13.8 x 6	149.1	746	1,043
740	10.0	**RC74010L**	1,468	21.1	30.9	16.9	2.6	13.8	0.2	13.8 x 6	149.1	746	1,332
965	2.0	**RC9652L**	383	12.8	14.8	19.3	2.8	15.7	0.2	15.7 x 6	194.7	973	1,045
965	6.0	**RC9656L**	1,150	17.3	23.2	19.3	2.8	15.7	0.2	15.7 x 6	194.7	973	1,418
965	10.0	**RC96510L**	1,917	21.9	31.7	19.3	2.8	15.7	0.2	15.7 x 6	194.7	973	1,792
1220	2.0	**RC12202L**	485	13.4	15.4	21.7	3.1	17.7	0.2	17.7 x 6	246.5	1232	1,501
1220	6.0	**RC12206L**	1,456	19.1	25.0	21.7	3.1	17.7	0.2	17.7 x 6	246.5	1232	1,971
1220	10.0	**RC122010L**	2,426	23.6	33.5	21.7	3.1	17.7	0.2	17.7 x 6	246.5	1232	2,441

Locking Collar Cylinders

SIngle Acting, Load Return, RL-Series

POWER TEAM



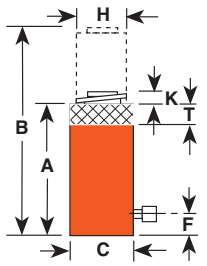
R556L

POSITIVE MECHANICAL LOCK TO SUPPORT LOAD.

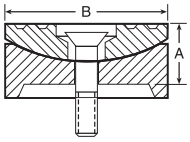
- Supports lifted load for extended periods of time with hydraulic pressure released.
- Visible indicator band alerts when stroke limit is reached; overflow port ("weep hole") stroke limiter prevents piston from being overextended.
- All cylinders feature coated pistons to resist corrosion and abrasion.



Locking collar feature permits non-hydraulic support of load.



SWIVEL CAPS For use with "RL" cylinders reduce the effects of off center loading. Tilts up to 5 degrees. Radial grooves on top of cap reduce load slippage.



A (in.)	B (in.)	Use with Cyl. No.	Swivel Cap Order No.	Wt. (lbs.)
1	2 13/16	55-100 ton	**420866**	1.8
1 1/2	5 1/8	150-200 ton	**420867**	8.8
1 3/4	5 7/8	280 ton	**420868**	13.5
2 3/4	7 11/16	355 ton	**420869**	37
3 1/8	8 7/8	430 ton	**420870**	52
3 5/8	9 7/8	565 ton	**420871**	78

Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Extended Height (in.)	C Outside Dia. (in.)	F Base to Port (in.)	H Piston Rod Dia. (in.)	K Piston Rod Protrusion (in.)	T Nut Thickness (in.)	Bore Dia. (in.)	Cylinder Effective Area (sq. in.)	Internal Pressure at Cap. (psi)	Tons at 10,000 psi	Product Wt. (lbs.)
55	2	**R552L**	22.10	6 3/8	8 3/8	4 15/16	1	3 3/4	1/8	1 7/16	3 3/4	11.04	9,964	55.2	33.7
55	6	**R556L**	66.30	10 3/8	16 3/8	4 15/16	1	3 3/4	1/8	1 7/16	3 3/4	11.04	9,964	55.2	58.0
55	10	**R5510L**	110.40	14 3/8	24 3/8	4 15/16	1	3 3/4	1/8	1 7/16	3 3/4	11.04	9,964	55.2	80.0
100	2	**R1002L**	41.30	7 1/4	9 1/4	6 1/2	1	5 1/8	1/8	1 3/4	5 1/8	20.63	9,695	103.0	66.0
100	6	**R1006L**	123.80	11 1/4	17 1/4	6 1/2	1	5 1/8	1/8	1 3/4	5 1/8	20.63	9,695	103.0	103.0
100	10	**R10010L**	206.30	15 1/4	25 1/4	6 1/2	1	5 1/8	1/8	1 3/4	5 1/8	20.63	9,695	103.0	142.0
150	2	**R1502L**	61.40	8 1/8	10 1/8	8 1/16	1 1/4	6 1/4	1/8	1 3/4	6 1/4	30.68	9,778	153.4	117.0
150	6	**R1506L**	184.10	12 1/8	18 1/8	8 1/16	1 1/4	6 1/4	1/8	1 3/4	6 1/4	30.68	9,778	153.4	177.0
200	2	**R2002L**	82.60	9 1/2	11 1/2	9 1/4	1 5/8	7 1/4	1/8	2	7 1/4	41.28	9,690	206.4	183.0
200	6	**R2006L**	247.70	13 1/2	19 1/2	9 1/4	1 5/8	7 1/4	1/8	2	7 1/4	41.28	9,690	206.4	259.0
280	2	**R2802L**	113.50	9 3/4	11 3/4	10 7/8	1 5/8	8 1/2	1/8	2 1/4	8 1/2	56.74	9,870	283.7	261.0
280	6	**R2806L**	340.40	13 3/4	19 3/4	10 7/8	1 5/8	8 1/2	1/8	2 1/4	8 1/2	56.74	9,870	283.7	359.0
280	10	**R28010L**	567.40	17 3/4	27 3/4	10 7/8	1 5/8	8 1/2	1/8	2 1/4	8 1/2	56.74	9,870	283.7	459.0
355	2	**R3552L**	141.80	11 1/2	13 1/2	11 3/4	2 1/8	9 1/2	1/8	2 3/8	9 1/2	70.88	10,017	354.4	381.0
355	6	**R3556L**	425.30	15 1/2	21 1/2	11 3/4	2 1/8	9 1/2	1/8	2 3/8	9 1/2	70.88	10,017	354.4	512.0
430	2	**R4302L**	173.20	13 1/8	15 1/8	13	2 1/2	10 1/2	1/8	2 3/4	10 1/2	86.59	9,932	433.0	556.0
430	6	**R4306L**	519.50	17 1/8	23 1/8	13	2 1/2	10 1/2	1/8	2 3/4	10 1/2	86.59	9,932	433.0	725.0
430	10	**R43010L**	865.90	21 1/8	31 1/8	13	2 1/2	10 1/2	1/8	2 3/4	10 1/2	86.59	9,932	433.0	894.0
565	2	**R5652L**	226.20	14 5/8	16 5/8	14 7/8	2 3/4	12	1/8	3 1/8	12	113.10	9,991	565.5	811.0
565	6	**R5656L**	678.60	18 5/8	24 5/8	14 7/8	2 3/4	12	1/8	3 1/8	12	113.10	9,991	565.5	1031.0
565	10	**R56510L**	1131.0	22 5/8	32 5/8	14 7/8	2 3/4	12	1/8	3 1/8	12	113.10	9,991	565.5	1251.0

▪NOTE: Supported loads not to exceed the rated capacity of the cylinders. Not intended to support additional dynamic loads, such as those applied by moving vehicles.

Locking Collar Cylinders

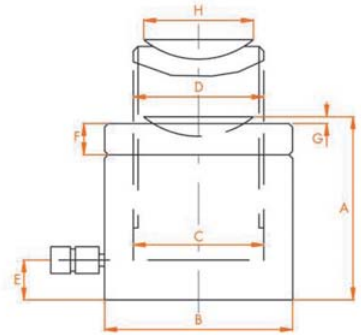
Single Acting, Load Return, RC-Series

POWER TEAM

POSITIVE MECHANICAL LOCK TO SUPPORT LOAD.

- Compact design - for use where space is limited.
- Locking collar designed to support lifted load for extended periods of time with hydraulic pressure released.
- Integral tilt saddle standard improves performance under side load.
- Overflow port ("weep hole") prevents piston from being overextended under load.
- Special coating improves corrosion and abrasion resistance.
- Cylinders come standard with hardened swivel caps reducing the effects of off-center loading Single-Acting Locking Collar Cylinders.
- Equipped with 3⁄8" NPTF female half couplers.





Cyl. Cap. (tons)	Stroke (in.)	Order No.	Oil Cap. (cu. in.)	A Retracted Height (in.)	B Outside Dia. (in.)	C Bore Dia. (in.)	D Piston Thr. Dia. (in.)	E Base to Port (in.)	F Nut Thickness (in.)	G Swivel Cap Protrusion (in.)	H Swivel Cap Dia (in.)	Product Wt. (lbs.)
55	2	**RC0552P**	21.66	4.92	4.72	3.74	3.74 x 4	0.75	0.83	0.24	3.62	24.25
100	1.75	**RC1002P**	36.43	5.39	6.5	5.12	5.12 x 6	0.83	1.22	0.31	4.96	48.50
155	1.75	**RC1552P**	55.23	5.83	8.07	6.30	6.30 x 6	1.06	1.50	0.35	5.83	85.98
240	1.75	**RC2402P**	86.23	6.10	10.04	7.87	7.87 x 6	1.10	1.57	0.39	6.18	130.07
380	1.75	**RC3802P**	134.74	7.01	12.60	9.84	9.84 x 6	1.38	1.97	0.43	9.45	242.51
620	1.75	**RC6202P**	220.78	7.56	15.94	12.60	12.60 x 6	1.50	2.36	0.39	11.61	425.49

Battery Pumps
PB Series

POWER TEAM

Order No.:
PB102-1, PB102P-1



Features

COMPACT, PORTABLE, CORDLESS HYDRAULIC PUMP FOR MRO APPLICATIONS

- Compact, Li-ion 18VDC, 9.0 Ah battery-powered pump provides extended run-time , CE compliant.
- Two stage, compact high-pressure hydraulic pump offers quick tool advancement in the first stage
- Extremely compact, lightweight with an ergonomic handle grip and transport strap to ease portability
- Self-contained, rubber bladder reservoir allows pump usage in most positions with an impressive capacity of 70 cu. in. (1,1 liter)usable
- Quiet – smooth running, serviceable brushed 18VDC motor
- High impact, fiberglass reinforced shroud protects your investment in the most demanding and harsh applications
- Large valve section to accommodate a vast array of applications

Ordering Information

Order Number	Description	Refer to Note	Tool Type	Valve Type	Valve Function	Remote Control
PB102-1	18VDC, 1/4 HP Power Pump, S/A, 2-Way w/ Auto Dump	(1)	Single Acting	2-Way/ Auto. Dump (9561)	Advance / Return (Auto)	Optional
PB102P-1	18VDC Power Pump, S/A, 2-Way w/Auto Dump	(1)	Single Acting	2-Way/ Auto. Dump (9561)	Advance / Return (Auto)	Included, Pendant w/10ft cord
PB102R-1	18VDC Power Pump, S/A, 2-Way w/Auto Dump and Pressure Regulator	(1), (3)	Single Acting	2-Way/ Auto. Dump / Pressure Regulator (9561, 9560)	Advance / Return (Auto) / Pressure Adjustment 1-10K	Optional
PB102A-1	18VDC Power Pump, S/A, Auto Dump	(2)	Single Acting	Auto. Dump (9562)	Advance / Return	Optional
PB104-1	18VDC Power Pump, S/A, 4-Way	(4)	Double Acting	4-Way (9563)	Advance / Hold / Return	Optional
PB102-2	18VDC Power Pump, S/A, 2-Way w/Auto Dump	(1)	Single Acting	2-Way/ Auto. Dump (9561)	Advance / Return (Auto)	Optional
PB102P-2	18VDC Power Pump, S/A, 2-Way w/Auto Dump	(1)	Single Acting	2-Way/ Auto. Dump (9561)	Advance / Return (Auto)	Included, Pendant w/10ft cord
PB102R-2	18VDC Power Pump, S/A, 2-Way w/Auto Dump and Pressure Regulator	(1), (3)	Single Acting	2-Way/ Auto. Dump / Pressure Regulator (9561, 9560)	Advance / Return (Auto) / Pressure Adjustment 1-10K	Optional
PB102A-2	18VDC Power Pump, S/A, Auto Dump	(2)	Single Acting	Auto. Dump (9562)	Advance / Return	Optional
PB104-2	18VDC Power Pump, S/A, 4-Way	(4)	Double Acting	4-Way (9563)	Advance / Hold / Return	Optional
PB102-0	18VDC, 1/4 HP Power Pump, S/A, 2-Way w/ Auto Dump	(1)	Single Acting	2-Way/ Auto. Dump (9561)	Advance / Return (Auto)	Optional
PB102P-0	18VDC Power Pump, S/A, 2-Way w/Auto Dump	(1)	Single Acting	2-Way/ Auto. Dump (9561)	Advance / Return (Auto)	Included, Pendant w/10ft cord
PB102R-0	18VDC Power Pump, S/A, 2-Way w/Auto Dump and Pressure Regulator	(1), (3)	Single Acting	2-Way/ Auto. Dump / Pressure Regulator (9561, 9560)	Advance / Return (Auto) / Pressure Adjustment 1-10K	Optional
PB102A-0	18VDC Power Pump, S/A, Auto Dump	(2)	Single Acting	Auto. Dump (9562)	Advance / Return	Optional
PB104-0	18VDC Power Pump, S/A, 4-Way	(4)	Double Acting	4-Way (9563)	Advance / Hold / Return	Optional

(1) 2-Way Auto Dump Function: Flapper handle in "hold" position will allow the tool to advance and maintain pressure when the motor is shut off, flapper handle must be switched back to retract and dump pressure. Flapper handle is set to "return" position, power on will advance tool and power off will retract tool and dump pressure.
(2) Auto Dump Function: Power on - tool advances, and power off - tool returns, releasing pressure to tank.

Hand Pumps

P-Series, 12 To 55 cu. in.
Single Speed, Single Acting

POWER TEAM

BEST SUITED FOR APPLICATIONS WHERE THERE IS LITTLE OR NO FREE TRAVEL.

- All metal construction, won't burn through in welding environments.
- Formed metal handle provides less flex, and reduces operator fatigue.
- Convenient fill port on P23 and P55 allows pumps to be filled in a horizontal or vertical position.
- Fill cap seal acts as safety valve preventing over-pressurizing of reservoir.
- Relief valve inboard of check valve prevents loads from drifting down.
- Large valve knob gives added control for slowly metering loads down.



P12

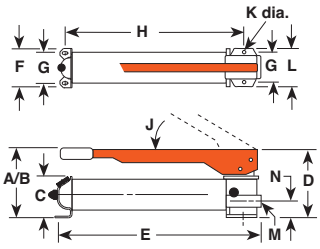


P23

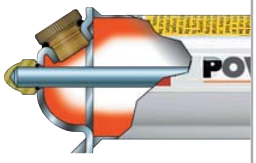
10,000 psi



P55



Pump No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (deg.)	K (in.)	L (in.)	M (in.)	N (in.)	P (in.)
P12	4	13	2 1/16	4	13 1/2	3 3/8	2 3/16	11 1/2	45	3/16	3 3/8	3/8 NPTF	1 1/8	—
* **P23**	6 1/4	13	3 1/2	5 9/16	13 5/8	4 1/4	3 1/4	10 5/16	38	5/16	4 3/4	3/8 NPTF	1 5/8	—
*The P23 pump maximum pressure is 3000 psi only.														
P55	6 1/2	21	3 1/2	5 9/16	23	4 1/4	3 1/4	19 3/4	38	5/16	4 3/4	3/8 NPTF	1 5/8	—



Power Team hand pumps, with the angled fill port, have a built in "relief valve" protection system. This system is designed to protect over-pressurization of the reservoir from sudden back pressure. This system also works as a seal to prevent oil leaks.

For Use With	Order No.	Volume & PressureReservoir Volume per Stroke (cu. in.) Speed	LP	HP	Maximum Pressure (psi) LP	HP	Handle Effort (lbs.)	Oil Capacity (cu.in.)	Usable Oil Capacity (cu. in.)	Oil Port (in.)	Product Weight (lbs.)
Single Acting Cylinders*	P12	1	—	.069	—	10,000	75	12	9	3/8 NPTF	5.7
	P23	1	—	.160	—	3,000	70	23.8	20.3	3/8 NPTF	12
	P55	1	—	.160	—	10,000	145	55	45	3/8 NPTF	15.8

LP = Low Pressure
HP = High Pressure

* Pump includes 2-Way Valve

Hand Pumps

P-Series, 24.4 To 55 cu. in.
Two Speed, Single Acting

POWER TEAM



P59L

10,000 psi

PUMP AUTOMATICALLY SHIFTS INTO THE HIGH PRESSURE LIFT STAGE UPON CONTACT WITH THE LOAD.

- All metal construction won't burn through in welding environments.
- Two-speed reduces handle strokes so you work faster and easier.
- Formed metal handle provides less flex, and reduces operator fatigue.
- Convenient fill port allows pumps to be filled in a horizontal or vertical position.
- Relief valve inboard of check valve prevents loads from drifting down.
- Large valve knob gives added control for slowly metering loads down.

P19L/P59L

- More usable oil volume — use with larger or longer stroke cylinders.
- True unloading valve set for 850 PSI (59 Bar) provides more efficiency and lower handle force.
- Link design reduces handle effort by 40%.
  - Durable aluminum reservoir, manifold, and end cap.
  - Ergonomic non-slip handle grip provides more comfort.
  - Spring loaded handle lock incorporated into handle.

P59F

- Replaces hand control with foot control.



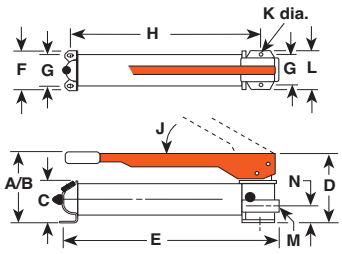
P19



Foot pump conversion kit

No. FK59 - Foot pump conversion kit for use on P55/P59 pumps. Wt., 6 lbs.

No. FK159B – Foot pump conversion kit for use on P157/P159 and P300/P300D pumps. Wt., 6 lbs.



Pump No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (deg.)	K (in.)	L (in.)	M (in.)	N (in.)
P19	5 1/2	14 5/8	2 7/8	4 9/16	13 11/16	4	3 1/4	11 1/16	53°	5/16	4	3/8 NPTF	1 13/32
P19L	5 1/2	—	—	—	13 11/16	4 1/8	3 1/4	11 1/16	40°	5/16	—	3/8 NPTF	—
P59	7	21	3 1/2	5	23	4 1/4	3 1/4	19 3/4	38°	5/16	4 3/4	3/8 NPTF	1 5/8
P59L	7	—	—	—	21	5	3 1/4	19 3/4	50°	5/16	—	3/8 NPTF	—
P59F	3 1/2	16 3/4	3 1/2	6	23 1/4	4 1/4	3 1/4	20 1/4	—	5/16	4 1/2	3/8 NPTF	1 11/16

For Use With	Order No.	Volume & Pressure: Speed	Volume per Stroke (cu. in.) LP	Volume per Stroke (cu. in.) HP	Maximum Pressure (psi) LP	Maximum Pressure (psi) HP	Reservoir Handle Effort (lbs.)	Oil Capacity (cu.in.)	Usable Oil Capacity (cu. in.)	Oil Port (in.)	Product Weight (lbs.)
Single Acting Cylinders*	**P19**	2	.305	.076	325	10,000	99	24.4	20	3/8 NPTF	6.6
	P19L	2	.250	.050	850	10,000	78	29	27	3/8 NPTF	5.1
	P59	2	.662	.160	325	10,000	145	55	45	3/8 NPTF	17.2
	P59L	2	.720	.150	850	10,000	104	69	66	3/8 NPTF	8.9
	P59F	2	.550	.130	325	10,000	120	55	45	3/8 NPTF	14

LP = Low Pressure
HP = High Pressure

*Pump includes 2-Way Valve

Hand Pumps

P-Series, 152 cu. in.
Two Speed Single and Double Acting

POWER TEAM

BEST SUITED FOR APPLICATIONS WHERE THERE IS LITTLE OR NO FREE TRAVEL.

- Rugged all metal construction for strength and durability that won't burn through in welding environments.
- Heavy-duty, formed metal handle provides less flex, and less operator fatigue than round or composite handles.
- Convenient fill port on P23 and P55 allows pumps to be filled in a horizontal or vertical position.
- Fill cap seal acts as safety valve to prevent over-pressurizing of reservoir.
- Relief valve inboard of check valve prevents loads from drifting down.
- Large valve knob gives added control for slowly metering loads down.



P157/P159


P300 hand pump and 10 ton cylinders used for a vehicle lift.



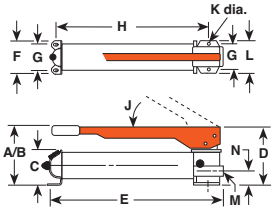
P300

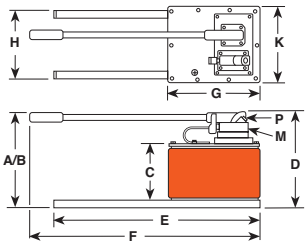


P159D



P460





Pump No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (deg.)	K (in.)	L (in.)	M (in.)	N (in.)	P (in.)
P157/ P159	7 3/4	20 1/2	4 7/8	6 7/8	22 3/4	3 7/8	3	19 3/4	39	5/16	3 3/4	3/8 NPTF	2 1/4	—
P300	8 1/4	21	4 1/2	6 7/8	22 5/8	8 1/2	7 1/2/3	20 23/32	39	5/16	3 3/4	3/8 NPTF	2 1/4	—
P460	11 1/8	31	6 3/4	11 3/8	24	29 1/4	11	9	80	9 1/2	—	3/8 NPTF	—	1/4



FK59
FK159B

Foot pump conversion kit

No. FK59 - Foot pump conversion kit for use on P55/P59 pumps. Wt., 6 lbs.

No. FK159B – Foot pump conversion kit for use on P157/P159 and P300/P300D pumps. Wt., 6 lbs.

For Use With	Order No.	Volume & Pressure: Speed	Volume per Stroke (cu. in.): LP	Volume per Stroke (cu. in.): HP	Maximum Pressure (psi): LP	Maximum Pressure (psi): HP	Reservoir Handle Effort (lbs.)	Oil Capacity (cu. in.)	Usable Oil Capacity (cu. in.)	Oil Port (in.)	Product Weight (lbs.)
Single-	**P157**	2	.650	.160	1,400	10,000	140	152	137	3/8 NPTF	26.7
Acting	**P159**	2	2.6	.160	325	10,000	140	152	137	3/8 NPTF	26.2
Cylinders*	**P300**	2	2.6	.160	325	10,000	140	1.5 gal.	310	3/8 NPTF	55.3
	P460	2	7.35	.294	325	10,000	90	2.5 gal.	460	3/8 NPTF	54.9
Double-	**P157D**	2	.650	.160	1,400	10,000	140	152	137	3/8 NPTF	28.8
Acting	**P159D**	2	2.6	.160	325	10.000	140	152	137	3/8 NPTF	27.9
Cylinders**	**P300D**	2	2.6	.160	325	10,000	140	1.5 gal.	310	3/8 NPTF	57.0
	P460D	2	7.35	.294	325	10,000	90	2.5 gal.	460	3/8 NPTF	57.9

LP = Low Pressure
HP = High Pressure

* Pump includes 2-Way Valve
** Pump includes 4-Way Valve

Air Pumps
PA6-Series
Double Acting

POWER TEAM



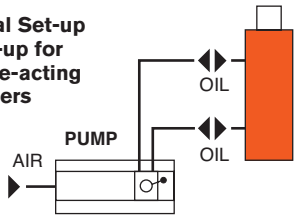
PA6DM-1



PA6D2

PA6D pump, DG100 digital pressure gauge and 25 ton cylinder used in a test fixture.

Typical Set-up Hook-up for double-acting cylinders



Description	Order No.	Valve No.	Air Supply Req'd (psi)	Reservoir Cap. (cu. in.)	Reservoir Usable (cu. in.)	Oil Port (in.)	Prod. Wt (lbs.)
Base model pump with high density polyethylene reservoir.	**PA6D**	9504, 3-way/ 4-way	40-120	105	98	3/8 NPTF	18.4
PA6D, except has metal reservoir.	**PA6DM**	9504, 3-way/ 4-way	40-120	105	98	3/8 NPTF	20.4
PA6D, except has 1 gallon metal reservoir.	**PA6DM-1**	9504, 3-way/ 4-way	40-120	1 gal.	185	3/8 NPTF	28.1
PA6D, except has 2 gallon, high density polyethylene reservoir.	**PA6D2**	9504, 3-way/ 4-way	40-120	2 gal.	454	3/8 NPTF	28.6
PA6D, except has 2 1/2 gallon metal reservoir.	**PA6DM-2**	9504, 3-way/ 4-way	40-120	2 1/2 gal.	570	3/8 NPTF	36.2

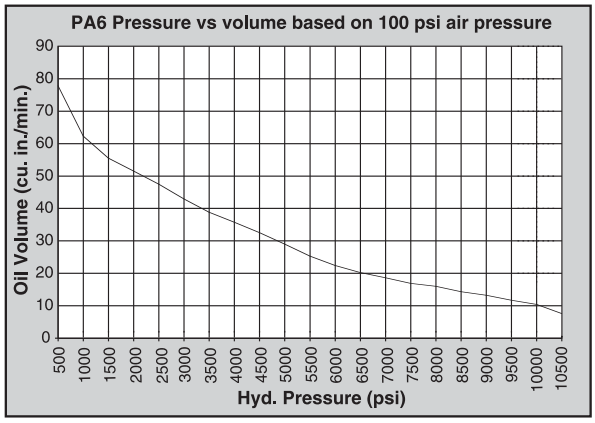
Air Pumps

PA6D-Series, 6 cu. in./min. Double Acting

POWER TEAM

COMPACT, LIGHTWEIGHT AND PORTABLE SINGLE-SPEED PUMP FOR DRIVING DOUBLE-ACTING CYLINDERS.

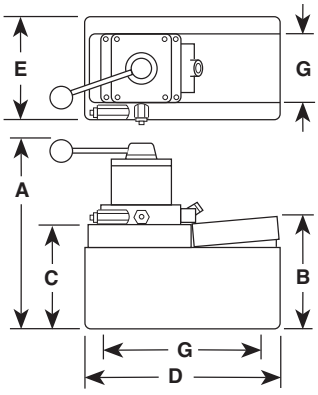
- Operate at 40-100 psi shop air pressure at the pump.
- Internal relief valve protects circuit components, air inlet filter protects motor.
- Serviceable pump motor is not a "throw away," providing economical repair.
- Permanently vented reservoir cap.
- dBA 85 at 10,000 psi for all PA6 pumps.





10,000 psi

PA6D



Pump No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	G (in.)
PA6D	10 3/8	5 7/8	4 3/8	9 1/2	5	4 x 9
PA6DM	10 3/8	5 7/8	4 3/8	9 1/2	5	4 x 9
PA6DM-1	11	5 3/4	4 3/8	12 5/8	7 3/8	—
PA6D2	12 3/4	8	7	11 5/16	9 1/4	5 1/8 x 7 1/8
PA6DM-2	12 1/2	7 3/4	6 3/4	11 1/2	9 1/2	8 x 10

Air Pumps
PA6-Series
Single Acting

POWER TEAM

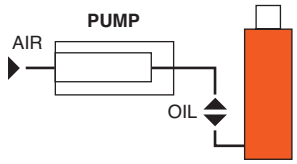


PA6M-1



PA6-2

Typical Set-up
Hook-up for single-acting cylinders



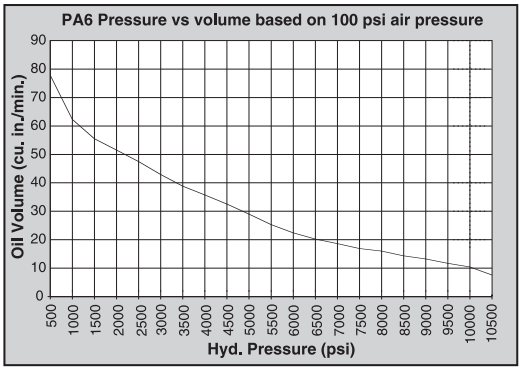
Description	Order No.	Air Supply Req'd (psi)	Reservoir Cap. (cu. in.)	Reservoir Usable (cu. in.)	Oil Port (in)	Prod. Wt. (lbs.)
Base model pump with high density polyethylene reservoir.	**PA6**	40-120	105	98	3/8 NPTF	14
PA6 with externally adjustable relief valve.	**PA6A**	40-120	105	98	3/8 NPTF	15
PA6A with metal reservoir.	**PA6AM**	40-120	105	98	3/8 NPTF	17
PA6, except has metal reservoir.	**PA6M**	40-120	105	98	3/8 NPTF	18
PA6 with 12 foot remote control.	**PA6R**	40-120	105	98	3/8 NPTF	20.58
PA6R, except has metal reservoir.	**PA6RM**	40-120	105	98	3/8 NPTF	21.58
PA6, except has 1 gallon metal reservoir.	**PA6M-1**	40-120	1 gal.	185	3/8 NPTF	23.7
PA6, except has 2 gallon, high density polyethylene reservoir.	**PA6-2**	40-120	2 gal.	454	3/8 NPTF	24.5
PA6, except has 2 1/2 gallon metal reservoir.	**PA6M-2**	40-120	2 1/2 gal.	570	3/8 NPTF	32.1

Air Pumps
PA6-Series
Single Acting

POWER TEAM

COMPACT, LIGHTWEIGHT AND PORTABLE. SINGLE-SPEED PUMPS DESIGNED TO DRIVE SINGLE-ACTING CYLINDERS.

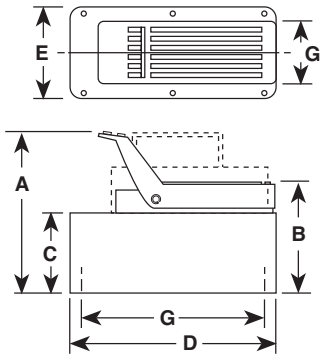
- The power unit of choice for major manufacturers of auto body, frame straighteners and other equipment.
- Operate at 40-100 psi shop air pressure at the pump.
- dBA 85 at 10,000 psi.
- Serviceable pump motor is not a “throw away,”providing economical repair.
- Permanently vented reservoir cap.
- Internal relief valve protects circuit components, air inlet filter protects motor.



10,000 psi



PA6



Pump No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	G (in.)
PA6	7 3/4	5 7/8	4 3/8	9 1/2	5	4 x 9
PA6A	7 3/4	5 7/8	4 3/8	9 1/2	5	4 x 9
PA6AM	7 3/4	5 7/8	4 3/8	9 1/2	5	4 x 9
PA6M	7 3/4	5 7/8	4 3/8	9 1/2	5	4 x 9
PA6R	7 3/4	5 7/8	4 3/8	9 1/2	5	4 x 9
PA6RM	7 3/4	5 7/8	4 3/8	9 1/2	5	4 x 9
PA6M-1	7 7/8	6	4 3/8	12 5/8	7 3/8	—
PA6-2	10 1/4	8	7	11 1/2	9 1/2	5 1/8 x 7 1/8
PA6M-2	10	7 3/4	6 3/4	11 1/2	9 1/2	8 x 10

Electric Pumps

PE18-Series

Up to 55 Ton 18 cu. in./min.

POWER TEAM



PE183-2


PE183C

For use with Cyl. Type	Description	Order No.	Valve Type	Valve Function	Control Switch††	Motor	Reservoir Usable (cu. in.)
Single-Acting	Base model pump has 1/2 hp pump with 2-Way valve and 1/2 gal. reservoir.	**PE182**	2-Way	Advance Return†	Remote Motor Control (10 ft.) on/off	1/2 hp, 110/115VAC** 50/60 Hz, A.C., Single Phase	104
Single-Acting	PE182, except has 3-way valve.	**PE183**	3-Way	Advance Hold Return	Remote Motor Control (10 ft.) on/off	1/2 hp, 110/115VAC** 50/60 Hz, A.C., Single Phase	104
Single-Acting	PE183, except has 2 gal. reservoir.	**PE183-2**	3-Way	Advance Hold Return	Remote Control (10 ft.)	1/2 hp, 110/115VAC** 50/60 Hz, A.C., Single Phase	525††
Single-Acting	PE183, except has "dump valve".	**PE183A∞**	Auto./Dump Pump	Advance Return	Remote (10 ft.)	1/2 hp, 110/115VAC** 50/60 Hz, A.C., Single Phase	104
Single-Acting	Special crimping pump.	**PE183C∞**	Special, for crimping only	Advance Hold Return	Remote Motor Control (25 ft.) on/off	1/2 hp, 110/115VAC** 50/60 Hz, A.C., Single Phase	104
Single-Acting/ Double-Acting	Base model pump has 1/2 hp pump for double-acting systems with 1/2 gal. reservoir.	**PE184**	4-Way	Advance Hold Return†	Remote Motor Control (10 ft.) on/off	1/2 hp, 110/115VAC** 50/60 Hz, A.C., Single Phase	104
Single-Acting/ Double-Acting	PE184, except with 2 gal. reservoir.	**PE184-2**	4-Way	Advance Hold Return†	Remote Motor Control (10 ft.) on/off	1/2 hp, 110/115VAC** 50/60 Hz, A.C., Single Phase	525††
Single-Acting/ Double-Acting	Special crimping pump.	**PE184C***	4-Way	Advance Return	Remote Control (10 ft.) on/off	1/2 hp, 110/115VAC** 50/60 Hz, A.C., Single Phase	104

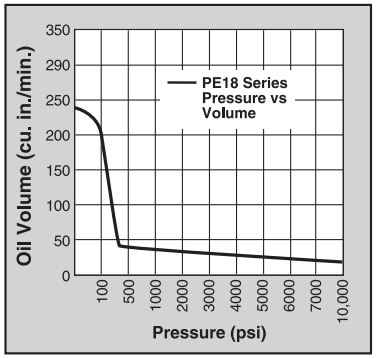
* Also for use with special single-acting cylinder applications.
** Available with 220 Volt, 60/50 Hz motor (to order, place suffix "50-220" behind pump order number). Specify voltage when ordering.
† Holds when motor is shut off and valve is in "advance" position.
†† Pumps supplied with 2 gal. oil (usable oil is 355 cu. in.), will hold 2 1/2 gal. when filled to within 1 1/2" below reservoir cover plate.
∞ Not to be used for lifting.

Electric Pumps

PE18-Series

Up to 55 Ton 18 cu. in./min.

POWER TEAM



IDEAL FOR USE WITH SMALL HYDRAULIC POWER TOOLS.

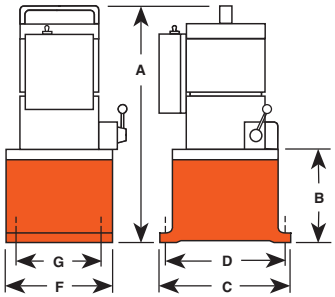
- Vanguard Jr.® pumps provide two-speed high performance in a light-weight, compact package.
- Gauge port provided on pump. Metal reservoir on all models.
- Equipped with a ½ hp, 115 volt, 60/50 Hz single phase motor that starts under load, even at reduced voltage.
- Low amperage draw permits use with smaller generators and low amperage circuits.
- All pumps have a 10 foot remote control (PE183C has 25 foot remote control).
- CSA rated for intermittent duty. Noise level of 85-90 dBA.

PE182



For operating hydraulic crimping, cutting or other tools:

- **No. PE183C** - For crimping or pressing applications. Has special electrical circuitry to pulse/advance, hold at full pressure, build to a predetermined pressure, release and reset circuit. Features separate emergency return switch.
- **No. PE184C** - Allows operator to alternately operate a spring-return cutting and/or crimping tool without disconnecting either tool. Select port connection with manual 4-way valve, start pump with remote control hand switch and extend connected tool. When hand switch is switched to off, pump stops and automatic valve opens, allowing tool to return. In center (neutral) position, manual control valve holds tool in position at time valve is shifted.



10,000 psi

LR19814

Order No.	Max. Pressure Output (psi)	rpm	dBa at Idle and 10,000 (psi)	Amp Draw 115 V at 10,000 (psi)	Oil Del. (cu. in./min. @)† 0 (psi)	100 (psi)	5,000 (psi)	10,000 (psi)	A (in.)	B (in.)	C (in.)	D (in.)	F (in.)	G (in.)	Prod. Wt. with Oil (lbs.)
PE182	10,000	12,000	85/90**	10.2 Amps	230	190	25	18	16	4 3/4	8	7 1/8	6	5 1/8	30
PE183	10,000	12,000	85/90**	10.2 Amps	230	190	25	18	16	4 3/4	8	7 1/8	6	5 1/8	30
PE183A	10,000	12,000	85/90**	10.2 Amps	230	190	25	18	16	4 3/4	8	7 1/8	6	5 1/8	30
PE184	10,000	12,000	85/90**	10.2 Amps	230	190	25	18	16	4 3/4	8	7 1/8	6	5 1/8	30
PE183-2*	10,000	12,000	85/90**	10.2 Amps	230	190	25	18	18 1/2	7 1/4	11 1/2	10	9 1/2	8	42
PE184-2*	10,000	12,000	85/90**	10.2 Amps	230	190	25	18	18 1/2	7 1/4	11 1/2	10	9 1/2	8	42
PE183C ††	10,000	12,000	85/90**	10.2 Amps	230	190	25	18	16	4 3/4	12 1/4	7 1/8	7	5 1/8	30
PE184C ††	10,000	12,000	85/90**	10.2 Amps	230	190	25	18	16	4 3/4	8	7 1/8	6	5 1/8	30

* 2 1/2 gal. reservoir.

** Measured at 3 ft. distance, all sides.

† Typical delivery. Actual flow will vary with field conditions.

†† Special application pumps for cutting, crimping or pressing.

Electric Pumps

PE18-Series

Up to 200 Tons, 55 cu./min.

POWER TEAM

A HEAVY DUTY PUMP FOR MULTIPLE APPLICATIONS: HEAVY CONSTRUCTION, CONCRETE STRESSING WITH LOW VOLTAGE STARTING POTENTIAL.

- $1^{1}/_{8}$ hp, 12,000 rpm, 110/115 volt, 50/60 Hz universal motor; draws 25 amps at full load, starts at reduced voltage. CSA rated for intermittent duty.
- 10 foot remote motor control (except PE552S which has a 25 foot remote motor and valve control).
- True unloading valve achieves greater pump efficiency, allowing higher flow at maximum pressure.
- Reservoirs available in sizes up to 10 gallons.

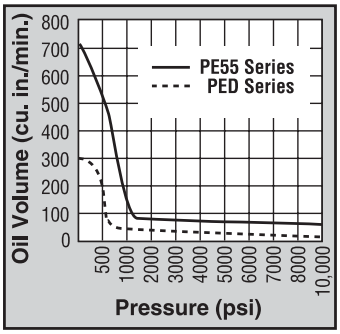
- Light weight and portable. Best weight-to-performance ratio of all Power Team pumps.
- "Assemble-to-Order" System: There are times when a custom pump is required. Power Team's "Assemble to Order" system allows you to choose from a wide range of pre-engineered, off-the-shelf components to build a customized pump to fit specific requirements. By selecting standard components you get a "customized" pump without "customized" prices. All pumps come fully assembled, add oil and ready for work.

PE55TWP Torque Wrench

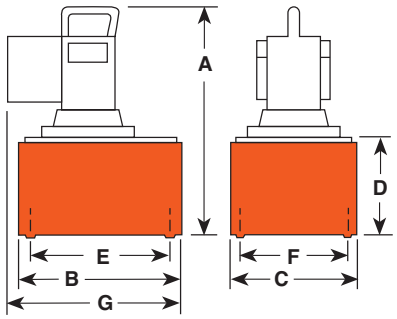




PE554W Weather-resistant model



4 mounting holes ½"–20



Pump No.	Max. Pressure Output (psi)	rpm	dBa at Idle and 10,000 (psi)	Amp Draw at 10,000 psi (115 V.)**	Oil Del. (cu. in./min. @ 0 (psi)	700 (psi)	5,000 (psi)	10,000 (psi)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	Prod. Wt. w/Oil (lbs.)
PE55 Series	10,000	12,000	90/89*	25	704	440	74	56	$18^{1}/_{4}$	$11^{1}/_{2}$	$9^{1}/_{2}$	7	10	8	14	–	65

*Noise level reading (dBA) measured at a 3 ft. distance, all sides.

** Amp draw at 10,000 psi, 230 Volts 50/60 Hz is 15 Amps.

Hydraulics

Electric Pumps

PE55 Series

Up to 200 Tons, 55 cu./min.

POWER TEAM



PE554S

LR19814



PE554PT

PE552



10,000 psi

For use with Cyl. Type	Description	Order No.***	Valve Type	Valve No.	Valve Function	Control Switch††	Motor	Reservoir Usable (cu. in.)
Single-Acting	Base model 1 1/8 hp pump with 2 1/2 gal. reservoir, remote motor control & 3-way valve.	**PE552**	3-Way	9582	Advance Return**	Remote Motor	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Single-Acting	PE552, except also has solenoid operated remote valve.	**PE552S**	3-Way	9579	Advance Hold Return	Remote Motor & Valve	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Single-Acting	PE552, except has "Auto Dump" valve.	**PE552A**∞	Auto/Dump	9610	Advance Return	Remote Motor	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Single-Acting	1 1/8 hp pump with 2 1/2 gal. reservoir. Valve has "Posi-check" feature.	**PE553**	3-Way†	9520	Advance Hold Return	Remote Motor	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Double-Acting	Base model 1 1/8 hp pump with 2 1/2 gal. res. and 4-way valve for double-acting systems.	**PE554**	4-Way†	9506	Advance Hold Return	Remote Motor	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Double-Acting	Weather-resistant model 1 1/8 hp pump with 2 1/2 gal. res. and 4-way valve for double-acting systems.	**PE554W**	4-Way†	9506	Advance Hold Return	Remote Motor	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Double-Acting	PE554, except has 9500 tandem center valve.	**PE554T**	4-Way	9500	Advance Hold Return	Remote Motor	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Double-Acting	For use with single-acting Spring Seat, Stressing Jack or double-acting cylinder.	**PE554P**	4-Way	9500	Advance Hold Return	Remote Motor	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Double-Acting	For use with single-acting or double-acting Power Seat, Stressing Jacks ONLY.	**PE554PT**	4-Way	9628	Advance Hold Sequenced Return	Remote Motor	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Double-Acting	Pump suitable to run multiple spring return tools.	**PE554C**	4-Way	9511†††	Advance Hold Return	Remote Motor	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525
Double-Acting	Pump equipped with 3/4-way solenoid valve.	**PE554S**	3/4-Way	9592	Advance Hold Return**	Remote Motor & Valve	1 1/8 hp*, 110/115 VAC 50/60 Hz, Single Phase	525

* Pumps available with 230 volt, 60/50 Hz motors. Specify voltage when ordering. See "Assemble to Order" pump options on pp 100-103.

** Holds with motor shut off.

*** To order PE55 series pumps with CSA approval, add "–C" to the Order No.

† Valves have *Posi-Check*® feature.

†† All remotes are 10 ft. long except for PE552S which is 25 ft. long.

††† Valving allows alternate and independent operation of two different spring return tools. Valve holds pressure only while valve is in "A" or "B" port position with pump motor shut off.

∞ Not to be used for lifting applications.

Gas Pumps

PG120-PG240 Series

130-420 cu. in./min. Maximum Output

POWER TEAM

PG1204S



PG1200M-4

- For single-acting cylinders. Has 9520 3-way/3-position (tandem center) valve, 9596 load lowering valve and 9644 4-port manifold with individual needle valves at each port.
- Has a 9796 coupler and 9797 dust cap at each port. Valving permits precise individual control of up to four cylinders.
- A 9052 heavy duty, fluid filled pressure gauge (0-10,000 psi) is included.

PG1200M-4D

- For single or double-acting cylinders with precise individual control of up to four cylinders possible.
- Equipped same as PG1200M-4, except has 9506 4-way/3-position (tandem center) valve, and second 4-port manifold without needle valves mounted beneath 9644 manifold for operating double-acting cylinders.

PG420 Series Maximum output Hydraulic Power Package

- Ideal for single or multiple cylinder applications. Has a 4-cycle, 20 hp Honda engine and 20 gallon hydraulic reservoir (17 gallons usable) with low oil level sight gauge.
- Steel "roll cage" protects pump, has a lifting hook; 4" dia. swivel casters provide mobility.
- Delivers 400 cu. in. of oil at maximum operating pressure.
- Has a 9506 4-way valve. On/off switch and speed control are protected by a panel. Sturdy molded case protects battery (not included).
- USA EPA Clean Air Act EVAP Certified Product.

PG1200M-4D



For use with Cyl. Type	Description	Order No.	Valve Type	Valve No.	Valve Function	Usable (cu. in.)	Horsepower	Cycle
Single-Acting	Base model 5 1/2 hp gasoline pump with 5.7 gal. reservoir.	**PG1203**	3-Way	9520	Advance Hold Return	1,300	5.5	4
Single-Acting	PG1203 with cart, rollcage, load lowering valve, 4 port manifold & gauge.	**PG1200M-4**	3-Way Manifold	9520 9644	Advance Hold Return**	1,300	5.5	4
Single-Acting/ Double-Acting	PG1200M-4D, except without "Roll Cage" and cart. Ideal for house moving industry.	**PG120HM**	4-Way Manifold	9506 9642	Advance Hold Return**	1,300	5.5	4
Double-Acting	Base model 5 1/2 hp gasoline pump, with 5.7 gal. reservoir, roll cage and double-acting valve.	**PG1204**	4-Way	9506	Advance Hold Return	1,300	5.5	4
Double-Acting	PG1204, except has roll cage, solenoid valve and 25 ft. cord.	**PG1204S**	4-Way Solenoid***	9516	Advance Hold Return	1,300	5.5	4
Double-Acting	PG1200M-4, except for double-acting systems.	**PG1200M-4D**	4-Way Manifold	9506 9644	Advance Hold Return**	1,300	5.5	4
Double-Acting	Base model 20 hp pump with 20 gal. reservoir.	**PG4204**	4-Way	9506	Advance Hold Return	3,927	20	4
Double-Acting	PG4204, except has solenoid operated remote valve.	**PG4204S**	4-Way Solenoid***	9516	Advance Hold Return	3,927	20	4

* Usable oil is calculated with oil fill at recommended level at 2 1/4" below cover plate.

** Control up to 4 cylinders independently.

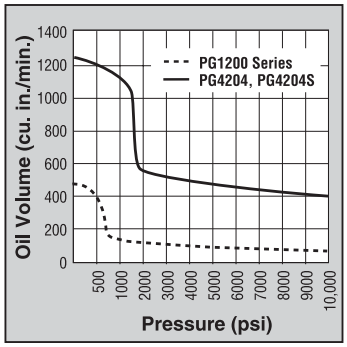
*** Has 25 ft. remote control cord.

Gas Pumps

PG120-PG240 Series

130-420 cu. in./min. Maximum Output

POWER TEAM



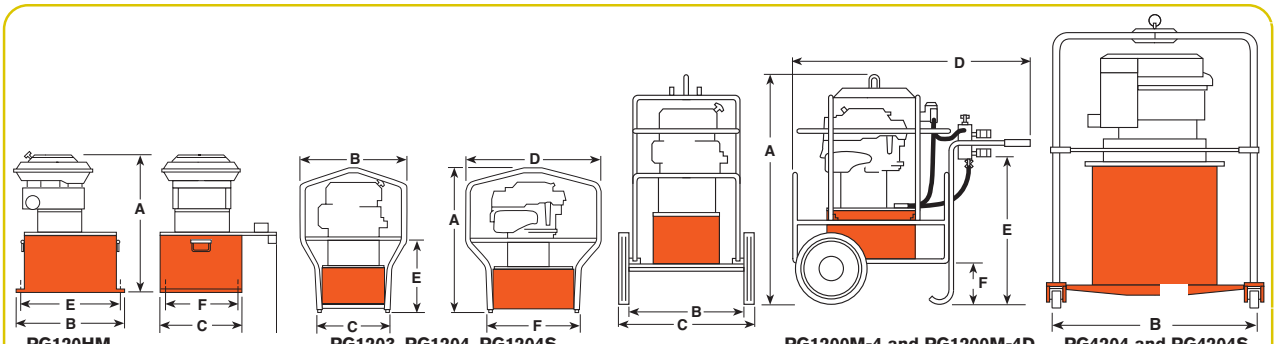
10,000 psi

- Two-speed high performance pumps ideal for construction, structure moving and rigging applications.
- A logical choice at work sites where electricity or compressed air are unavailable. For single or double- acting cylinders at operating pressures to 10,000 psi.
- All gasoline engine/hydraulic pumps feature Posi-Check® valve to guard against pressure loss when valve is shifted from “advance” to “hold.”
- PG1200 Series pumps powered by a Honda 4-cycle, 5.5 hp engine with automatic decompression and electronic ignition. Deliver over ½ gallon (130 cu. in.) of oil per minute at 10,000 psi.
- A 5 gallon reservoir means adequate capacity for multi-cylinder applications. Dual element air cleaner protects engine from dusty environments.



PG4204S

- Heavy duty “roll cage” provides pick-up points for lifting. Horizontal bars on PG1203, PG1204 and PG1204S protect unit, provide hand holds for carrying.
- Rubber anti-skid insulation on bottom of reservoir resists skidding and dampens vibration. PG1200M-4 and PG1200M-4D include a pump cart with 12” wheels.
- Adjustable external pressure regulator.



Pump No.	Max. Pressure Output (psi)	rpm	Oil Del. (cu. in./min. @) 100 (psi)	1,000 (psi)	5,000 (psi)	10,000 (psi)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	Prod. Wt. w/Oil (lbs.)
PG120HM	10,000	3,600	480	175	150	130	23	15 1/2	14 1/4	19	13 5/16	12 1/8	150
PG1203	10,000	3,600	480	175	150	130	27 7/8	20 1/4	14 1/4	26 1/4	13 1/2	18 1/4	154
PG1204	10,000	3,600	480	175	150	130	27 7/8	20 1/4	14 1/4	26 1/4	13 1/2	18 1/4	154
PG1204S	10,000	3,600	480	175	150	130	27 7/8	20 1/4	14 1/4	26 1/4	13 1/2	18 1/4	161
PG1200M-4	10,000	3,600	480	175	150	130	42 1/8	18	25	42 1/2	26 1/4	7 1/4	260
PG1200M-4D	10,000	3,600	480	175	150	130	42 1/8	18	25	42 1/2	26 1/4	7 1/4	280
PG4204	10,000	3,600	1,240	1,120	475	420	50 1/4	52	52	—	—	—	435
PG4204S	10,000	3,600	1,240	1,120	475	420	50 1/4	52	52	—	—	—	440

POWER TEAM

MOTION CONTROL SYSTEM (MCS)

Power Team® Synchronized Lifting and Lowering System

The Power Team® Motion Controller System provides positional control of a load in motion where load position is critical by means of cylinder synchronization.

Typical moving and weighting applications:

- Bridges
- Oil rig platforms
- Steel buildings
- Vessels & heat exchangers
- Stadium roofs
- Ships



FEATURES:

- Load Capacity: limited by cylinders (use with single or double acting cylinders).
- Intuitive graphic, touch screen control.
- Basic systems start at 4 or 8 Jacking Points.
- Safety features include: Full stop due to power failure, sensor failure, pressure overload, tolerance error, uncontrolled load movement, etc.
- Displayed information includes; startup diagnostics, position of lift points relative to starting position, pressure at each lift point, Status of each cylinder, and status of alarms.
- Lifting / lowering accuracy of +/- 1 mm (0.040 in.).
- Operating Pressure (up to) 10,000 psi.
- Standard system has a 40 gallon tank.



Every MCS includes one day of on-site training at one of SPX's Regional Headquarters (Rockford, IL USA or Singapore or the Netherlands). Training includes both classroom and hands-on instruction. Travel & lodging not included.

Hardware Included



Crate

Motion Control System (MCS) is protected with a robust cage and reusable shipping container.



Sensors

Linear Displacement Sensors have a range of 19.7 in (500 mm). (2 cases with 4 sensors each).



Cables

Cables for sensors are 100 ft (30.5 m) in length, eight sets and a hard plastic case.



Plug

Electrical plug female connector allows for quick attachment to your line cord.

Ordering Information

Order No.	Max Lift Points	Pump Flow	Reservoir Size gal (L)	Motor Voltage hp (VAC)	Control Voltage VDC	Max Pressure psi (bar)	Valves Included	Transducers Included	Weight w/oil lb (kg)
MCS-PE554-8	8	55 in³ / min @10,000 psi (0.9 L/min @ 700 bar)	40 (150)	1.125 (230)	24	10,000 (700)	3P-4W and 2P-2W	Pressure and Linear Position	1700 (771)

Fabrication Section

(Pages 761-816)

Barrier Grab 795
Bucket Forks 800
Bucket Hooks 801
Coil Handling 782-785
Concrete Pipe Lifter(Tea Cup) 794
Forklift Attachments 786-789
Hooks 802-806
Safety Standards 763
Lifting Beams 764-777
Links 807-805
Manhole Pin 796
Material Baskets 814-812
Material Stands 793
Pallet Lifters 790-791
Personnel Basket 810-813
Pipe Lifting Hooks 797
Pole Tong 798
Reel Lifter 799
Sling Storage Rack 792
Spreader Beams 778-781

Notes

Important Information

Accurate Rigging & Fabrication has been supplying material handling equipment since1960.
We offer a wide range of standard products to meet most lifting applications. We can also design and build custom devices to meet your specific lifting requirements.

All lifting devices are designed, engineered and built to meet or exceed the specifications of:

- **ASME B30.20 Below the Hook Lifting Devices**
- **ASME BTH-1 Design Criteria of Below the Hook Lifting Devices**
- **OSHA 1926.251**

All lifting devices provided by Accurate Rigging & Fabrication include:

- **Identification Nameplate**, which includes:
  - manufacturer's name & address
  - serial number
  - lifter weight (if over 100 lbs)
  - rated load
  - ASME BTH-1 Design Category
  - ASME BTH-1 Service Class
- **Rated Capacity Decals**
- **Product Safety Labels**
- **RFID** (Radio Frequency Identification) Chip installed. (See detailed information later in this catalog)

Warnings - Precautions



The use of mechanical equipment such as lifting devices presents the risk of personal injury and property damage.

TO AVOID INJURY:

- **Do** inspect lifting device before each use.
- **Do Not** use a damaged lifting device or one that is tagged "Out of Service".
- **Do Not** use lifting device unless specifically trained to do so.
- **Do Not** exceed rated load of lifting device and crane.
- **Do** make sure lifting cables and chains are not twisted or kinked.
- **Do Not** lift people on lifter or carry loads over people.
- **Do** make certain load is balanced and stable.
- **Do** stay clear of load at all times while lifting and moving load.
- **Do** take instructions only from your designated person.
- **Do** avoid shock loads due to sudden starts and stops.
- **Do** make sure load clears objects when moving load.
- **Do** store lifting device properly after use.
- **Do** make sure lifting device is stable when stored.

Lifting Beams

MADE IN USA

Model BLH - Low Headroom Lift Beam with Multiple Spreads



Standard Features:

- Swivel Hooks with Latches
- Beams over 4' have 3 spreads
- 3' & 4' Beams have 2 spreads
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped
- Three Spreads:
  - Outside Spread
  - Outside Spread Less 1ft
  - Outside Spread Less 2ft

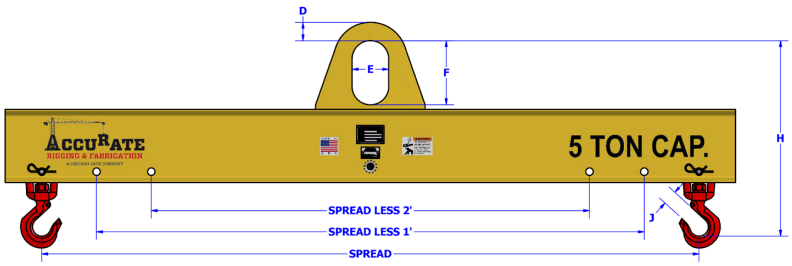
Rated Capacity (tons)	Model Number / Headroom (H) / Weight (lbs)	Maximum Spread (ft)						
		3	4	6	8	10	12	
1/2	Model Number	BLH0005036	BLH0005048	BLH0005072	BLH0005096	BLH0005120	BLH0005144	
	H Headroom	12"	12"	12"	12"	13"	13"	
	Weight	45	54	70	86	130	153	
1	Model Number	BLH0010036	BLH0010048	BLH0010072	BLH0010096	BLH0010120	BLH0010144	
	H Headroom	13"	13"	13"	14"	14"	14"	
	Weight	55	66	87	132	158	186	
2	Model Number	BLH0020036	BLH0020048	BLH0020072	BLH0020096	BLH0020120	BLH0020144	
	H Headroom	14-5/8"	14-5/8"	14-5/8"	15-5/8"	16-5/8"	16-5/8"	
	Weight	66	80	107	159	226	267	
3	Model Number	BLH0030036	BLH0030048	BLH0030072	BLH0030096	BLH0030120	BLH0030144	
	H Headroom	15-1/16"	15-1/16"	17-1/16"	17-1/16"	19-1/16"	20-1/16"	
	Weight	81	94	164	203	279	426	
5	Model Number	BLH0050036	BLH0050048	BLH0050072	BLH0050096	BLH0050120	BLH0050144	
	H Headroom	19-3/8"	20-3/8"	21-3/8"	23-3/8"	23-3/8"	25-3/8"	
	Weight	120	152	216	330	395	600	
7-1/2	Model Number	BLH0075036	BLH0075048	BLH0075072	BLH0075096	BLH0075120	BLH0075144	
	H Headroom	22"	23"	25"	27"	27"	30"	
	Weight	144	182	281	439	521	953	
10	Model Number	BLH0100036	BLH0100048	BLH0100072	BLH0100096	BLH0100120	BLH0100144	
	H Headroom	23"	25"	27"	27"	30"	30"	
	Weight	159	220	356	439	806	953	
15	Model Number	BLH0150036	BLH0150048	BLH0150072	BLH0150096	BLH0150120	BLH0150144	
	H Headroom	28-7/16"	30-7/16"	33-7/16"	33-7/16"	33-7/16"	33-7/16"	
	Weight	246	330	601	737	872	1435	
20	Model Number	BLH0200036	BLH0200048	BLH0200072	BLH0200096	BLH0200120	BLH0200144	
	H Headroom	31-1/4"	31-1/4"	34-1/4"	34-1/4"	34-1/4"	37-1/4"	
	Weight	301	342	613	748	1231	1660	
25	Model Number		BLH0250048	BLH0250072	BLH0250096	BLH0250120	BLH0250144	
	H Headroom		37-9/16"	37-9/16"	37-9/16"	40-9/16"	40-9/16"	
	Weight		632	767	1191	1580	1837	
30	Model Number		BLH0300048	BLH0300072	BLH0300096	BLH0300120		
	H Headroom		44-13/16"	44-13/16"	47-13/16"	47-13/16"		
	Weight		788	1146	1495	1728		
40	Model Number		BLH0400048	BLH0400072				
	H Headroom		44-13/16"	47-13/16"				
	Weight		870	1346				

Options

- Additional Pairs of Holes are Available
- Additional Pairs of Pins are Available
- Additional Pairs of Hooks & Pins are Available
- Shackles in Place of Hooks for Lower Fitting are Available

Lifting Beams

MADE IN USA







RFID Equipped

Maximum Spread (ft)							Dimensions (in.)	
	14	16	18	20	24	30		
	BLH0005168 13” 174	BLH0005192 14” 240	BLH0005216 14” 267	BLH0005240 14” 294	BLH0005288 14” 349	BLH0005360 15” 521	D = 7/8” E = 3” F = 5”	G = 3/4” J = .89”
	BLH0010168 15” 257	BLH0010192 15” 290	BLH0010216 16” 383	BLH0010240 16” 422	BLH0010288 16” 502	BLH0010360 17” 725	D =7/8” E = 3” F = 5”	G = 3/4” J = .89
	BLH0020168 17-5/8” 356	BLH0020192 17-5/8” 402	BLH0020216 19-5/8” 590	BLH0020240 19-5/8” 651	BLH0020288 19-5/8” 778	BLH0020360 21-5/8” 1291	D = 7/8” E = 3” F = 5”	G = 3/4” J = .91”
	BLH0030168 20-1/16” 487	BLH0030192 20-1/16” 548	BLH0030216 20-1/16” 609	BLH0030240 22-1/16” 895	BLH0030288 22-1/16” 1065	BLH0030360 25-1/16” 2124	D = 1-1/4” E = 3” F = 5”	G = 1” J = 1”
	BLH0050168 25-3/8” 685	BLH0050192 25-3/8” 770	BLH0050216 28-3/8” 1350	BLH0050240 28-3/8” 1485	BLH0050288 28-3/8” 1765	BLH0050360 28-3/8” 2170	D = 2” E = 4” F = 7”	G = 1-1/4” J = 1.36”
	BLH0075168 30” 1088	BLH0075192 30” 1224	BLH0075216 30” 1360	BLH0075240 30” 1495	BLH0075288 30” 2570	BLH0075360 33” 3669	D = 2” E = 4” F = 7”	G = 1-1/4” J = 1.61”
	BLH0100168 30” 1088	BLH0100192 30” 1224	BLH0100216 30” 1960	BLH0100240 30” 2160	BLH0100288 33” 2793	BLH0100360 33” 3669	D = 2” E = 4” F = 7”	G = 1-1/4” J = 1.61”
	BLH0150168 33-7/16” 1635	BLH0150192 33-7/16” 1835	BLH0150216 36-7/16” 2345	BLH0150240 36-7/16” 2577			D = 2-1/2” E = 5” F = 9”	G = 1-1/2” J = 2.08”
	BLH0200168 37-1/4” 1892						D = 2-1/2” E = 5” F = 9”	G = 1-1/2” J = 2.27”
							D = 3” E = 6” F = 12”	G = 1-3/4” J = 2.27”
							D = 3-1/2” E = 7” F = 16”	G = 2” J = 3.02”
							D = 3-1/2” E = 7” F = 16”	G = 2-1/2” J = 3.02”

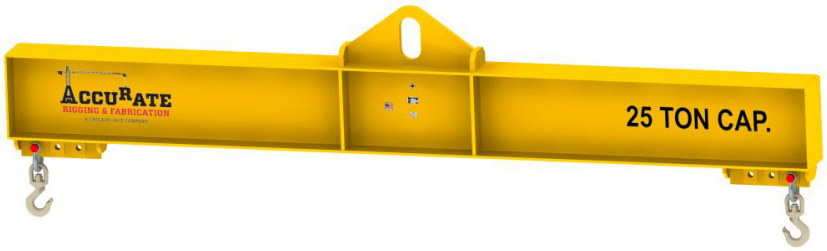
See Pages 6 & 7 for these Capacities & Sizes

Additional Tonnages and Lengths are Available - Call

Lifting Beams

MADE IN USA

Model BLH - Low Headroom Lift Beam with Multiple Spreads



Standard Features:

- 'I' Beam Construction
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped
- Swivel Hooks w/Latches
- Three Spreads:
  - Outside Spread
  - Outside Spread Less 1ft
  - Outside Spread Less 2ft

Rated Capacity (tons)	Model Number / Headroom (H) / Weight (lbs)	Maximum Spread (ft)					
		8	10	12	14	16	
15	Model Number H Headroom Weight						
20	Model Number H Headroom Weight					BLH0200192 53-13/16" 2328	
25	Model Number H Headroom Weight				BLH0250168 58-7/16" 2251	BLH0250192 58-7/16" 2458	
30	Model Number H Headroom Weight			BLH0300144 67-7/16" 2178	BLH0300168 67-7/16 2386	BLH0300192 67-7/16 2594	
40	Model Number H Headroom Weight	BLH0400096 68-7/8" 1878	BLH0400120 68-7/8" 2086	BLH0400144 68-7/8" 2294	BLH0400168 72-1/8" 2627	BLH0400192 74-13/16"" 2914	
50	Model Number H Headroom Weight	BLH0500096 72-3/16" 1926	BLH0500120 72-3/16" 2134	BLH0500144 78-1/8" 2498	BLH0500168 81-3/16" 3008	BLH0500192 81-3/16" 3268	

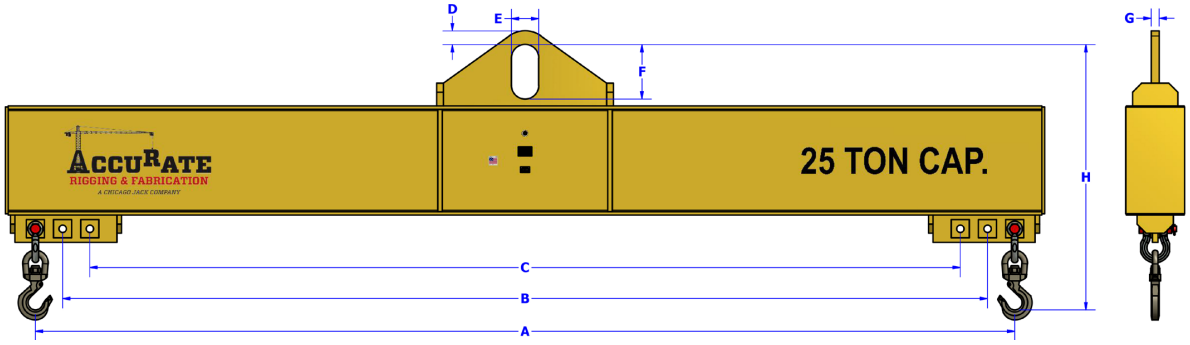
See Pages 4 & 5 for these Capacities & Sizes

Options

- Additional Pairs of Holes are Available
- Additional Pairs of Hooks & Shackles are Available
- Built-In Stand Available (pictured to the right)

Lifting Beams

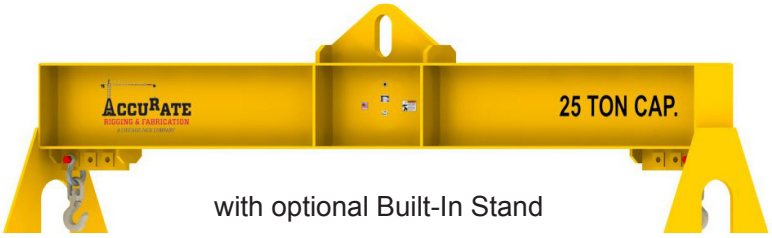
MADE IN USA



Maximum Spread (ft)					Dimensions (in.)	
	18	20	24	30		
			BLH0150288 52” 3134	BLH0150360 52” 3758	D = 2-1/2” E = 5” F = 9”	G = 1-1/2” J = 2.08”
	BLH0200216 53-13/16” 2536	BLH0200240 53-13/16” 2744	BLH0200288 53-13/16” 3160	BLH0200360 59-13/16” 4154	D = 2-1/2” E = 5” F = 9”	G = 1-1/2” J = 2.27”
	BLH0250216 58-7/16” 2666	BLH0250240 58-7/16” 2875	BLH0250288 64-3/8” 3591	BLH0250360 67-7/16” 4789	D = 3” E = 6” F = 12”	G = 1-3/4” J = 2.27”
	BLH0300216 70-5/8” 2966	BLH0300240 73-3/8” 3262	BLH0300288 76-7/16 4144	BLH0300360 79-7/16 5576	D = 3-1/2” E = 7” F = 16”	G = 2” J = 2.27”
	BLH0400216 77-7/8” 3480	BLH0400240 77-7/8” 3740	BLH0400288 80-11/16” 4792	BLH0400360 81-1/8” 6686	D = 3-1/2” E = 7” F = 16”	G = 2-1/2” J = 3.02”
	BLH0500216 83-15/16” 3940	BLH0500240 83-15/16” 4240	BLH0500288 84-7/16” 5642	BLH0500360 84” 8357	D = 3-1/2” E = 8” F = 18”	G = 2-1/2” J = 3.25”



RFID Equipped



with optional Built-In Stand

Lifting Beams

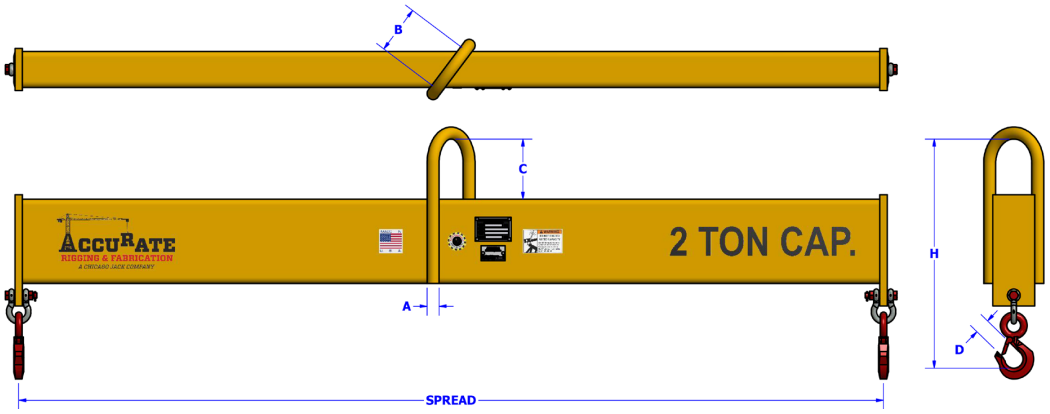
MADE IN USA

Model ELBF - Economy Fixed Length Lift Beam



Standard Features:

- Tubular Design ideally suited for jobsite or warehouse use.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped
- Eye Hooks w/Latches



Rated Capacity (tons)	Model Number / Headroom (H) / Weight (lbs)	Spread (ft) 2	3	4	6	8	10	Dimensions (in.)	
1/2	Model Number	ELBF0005024	ELBF0005036	ELBF0005048	ELBF0005072	ELBF0005096	ELBF0005120	A = 3/4"	D = .89"
	H Headroom	13-1/4"	13-1/4"	13-1/4"	13-1/4"	13-1/4"	13-1/4"	B = 3"	
	Weight	18	24	29	41	63	77	C = 5"	
1	Model Number	ELBF0010024	ELBF0010036	ELBF0010048	ELBF0010072	ELBF0010096	ELBF0010120	A = 1"	D= .89"
	H Headroom	14-1/4"	14-1/4"	14-1/4"	15-1/4"	15-1/4"	16-1/4"	B = 4"	
	Weight	28	36	44	70	88	121	C = 5"	
2	Model Number		ELBF0020036	ELBF0020048	ELBF0020072	ELBF0020096	ELBF0020120	A = 1"	D= 1.00"
	H Headroom		17	17	19	19	19	B = 4"	
	Weight		46	55	115	146	177	C = 5"	
3	Model Number		ELBF0030036	ELBF0030048	ELBF0030072	ELBF0030096	ELBF0030120	A = 1-1/2"	D = 1.00"
	H Headroom		18	20	20	20	20	B = 4"	
	Weight		59	84	120	170	243	C = 5"	

Additional Tonnages and Lengths are Available - Call



RFID Equipped

Fabrication

Lifting Beams

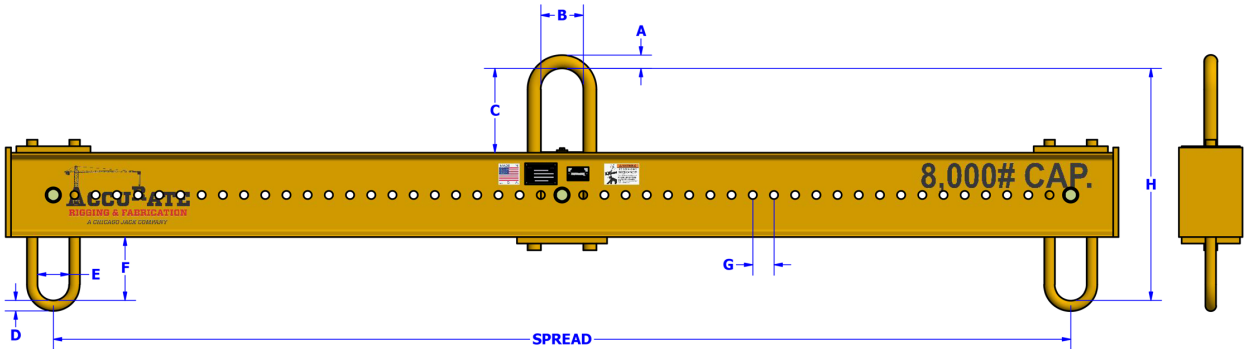
MADE IN USA

Model ELBA - Economy Adjustable Lift Beam



Standard Features:

- Bail quickly adjusts for lifting unbalanced loads.
- Spread & Bail adjusts in 2” increments along Lifting Beam.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped
- Optional shackles or swivel hooks available.



Model Number	Rated Capacity (pounds)	Spread (in)		Upper Bail Dimensions (in.)			Lower Bail Dimensions (in.)			Incremental Adjustment	Headroom (in.)	Weight (lbs.)
		Max.	Min.	A	B	C	D	E	F	G	H	
ELBA02500	2,500	72	12	3/4	2-1/2	5	1/2	1-1/2	3	2”	12	87
ELBA04000	4,000	72	12	1	3	6	3/4	2	4	2”	15	123
ELBA08000	8,000	96	16	1-1/4	4	8	1	3	6	2’	22	285
ELBA10000	10,000	96	16	1-1/2	5	10	1	3	6	2”	26	446

Additional Tonnages and Lengths are Available - Call



RFID Equipped

Lifting Beams

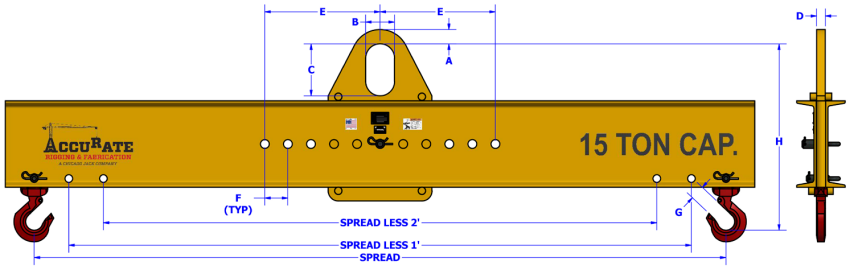
MADE IN USA

Model BAB - Adjustable Bail Lift Beam



Standard Features:

- Make easy adjustments to unbalanced loads before a lift.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped
- Beams over 4' have 3 spreads
- 3' & 4' Beams have 2 spreads
- Swivel Hooks w/Latches
- Three Spreads:
  - Outside Spread
  - Outside Spread Less 1ft
  - Outside Spread Less 2ft





RFID Equipped

Rated Capacity (tons)	Model Number / Headroom (H) / Weight (lbs)	Maximum Spread (feet) 3	4	6	8	10	12	14	16	18	20	Dimensions (in.)	
1/2	Model #	BAB0005036	BAB0005048	BAB0005072	BAB0005096	BAB0005120	BAB0005144	BAB0005168	BAB0005192	BAB0005216	BAB0005240	A = 1-1/4"	D = 5/8"
	H Headroom	12"	12"	12"	12"	13"	13"	13"	14"	14"	14"	B = 3"	G = .89"
	Weight	48	56	72	89	135	156	178	245	272	299	C = 5"	
1	Model #	BAB0010036	BAB0010048	BAB0010072	BAB0010096	BAB0010120	BAB0010144	BAB0010168	BAB0010192	BAB0010216	BAB0010240	A = 1-1/4"	D = 5/8"
	H Headroom	13"	13"	13"	14"	14"	14"	15"	15"	16"	16"	B = 3"	G = .89"
	Weight	60	70	92	138	165	192	265	297	392	431	C = 5"	
2	Model #	BAB0020036	BAB0020048	BAB0020072	BAB0020096	BAB0020120	BAB0020144	BAB0020168	BAB0020192	BAB0020216	BAB0020240	A = 1-1/2"	D = 3/4"
	H Headroom	14-5/8"	14-5/8"	14-5/8"	15-5/8"	16-5/8"	16-5/8"	17-5/8"	17-5/8"	19-5/8"	19-5/8"	B = 3"	G = .91"
	Weight	79	92	118	174	243	282	374	420	613	674	C = 5"	
5	Model #	BAB0050036	BAB0050048	BAB0050072	BAB0050096	BAB0050120	BAB0050144	BAB0050168	BAB0050192	BAB0050216	BAB0050240	A = 2"	D = 1"
	H Headroom	19-3/8"	20-3/8"	21-3/8"	23-3/8"	23-3/8"	25-3/8"	25-3/8"	25-3/8"	28-3/8"	28-3/8"	B = 4"	G = 1.36"
	Weight	121	153	223	344	405	611	694	777	1364	1500	C = 7"	
10	Model #	BAB0100036	BAB0100048	BAB0100072	BAB0100096	BAB0100120	BAB0100144	BAB0100168	BAB0100192	BAB0100216	BAB0100240	A = 2"	D = 1-1/4"
	H Headroom	23-1/4"	25-1/4"	27-1/4"	27-1/4"	30-1/4"	30-1/4"	30-1/4"	30-1/4"	30-1/4"	30-1/4"	B = 4"	G = 1.61"
	Weight	188	249	402	484	865	1000	1136	1271	2002	2201	C = 7"	
15	Model #	BAB0150036	BAB0150048	BAB0150072	BAB0150096	BAB0150120	BAB0150144	BAB0150168	BAB0150192	BAB0150216	BAB0150240	A = 2-1/2"	D = 1-1/2"
	H Headroom	28-3/4"	30-3/4"	33-3/4"	33-3/4"	33-3/4"	33-3/4"	33-3/4"	33-3/4"	36-3/4"	36-3/4"	B = 5"	G = 2.08"
	Weight	279	376	716	851	985	1528	1729	1928	2458	2688	C = 9"	
20	Model #	BAB0200036	BAB0200048	BAB0200072	BAB0200096	BAB0200120	BAB0200144	BAB0200168				A = 2-1/2"	D = 1-1/2"
	H Headroom	31-5/8"	31-5/8"	34-5/8"	34-5/8"	34-5/8"	37-5/8"	37-5/8"				B = 5"	G = 2.27"
	Weight	347	388	728	863	1341	1775	2009				C = 9"	
Additional Dimensions		E = 6" F = 3"	E = 9" F = 3"	E = 12" F = 3"	E = 16" F = 4"	E = 20" F = 4"	E = 24" F = 4"	E = 30" F = 6"	E = 36" F = 6"	E = 42" F = 6"	E = 48" F = 6"		

Lifting Beams

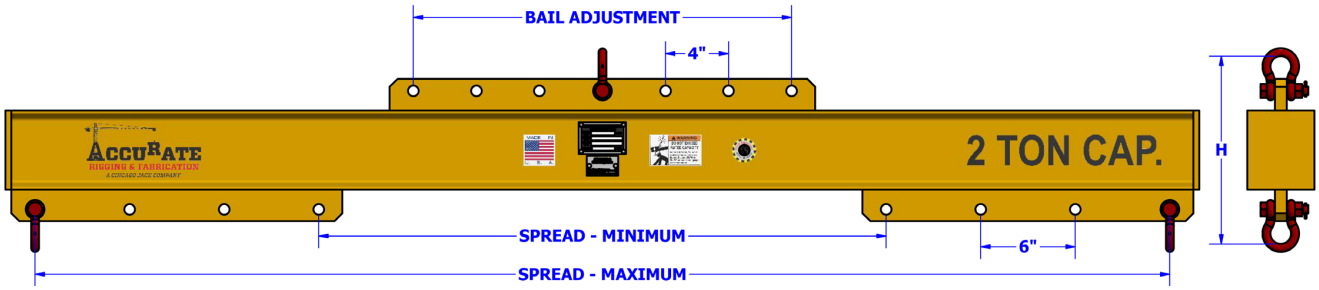
MADE IN USA

Model BSA - Adjustable Spreader/Lift Beam



Standard Features:

- Make easy adjustments to unbalanced loads before a lift.
- Optional chain sling as top
- rigging for additional stability.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped
- Shackles are standard and are includ-ed.
- Swivel hooks and other attachments are available - Call



Model Number	Rated Capacity (tons)	Spread (in)		Bail Adjustment (in.)	H Headroom (in.)	Bolt Type Anchor Shackle (tons)		Weight (lbs.)
		Max	Min	A	E	Top	Bottom	
BSA0003048	1/4	48	12	16	7-9/16	1	1	55
BSA0005048	1/2	48	12	16	7-9/16	1	1	59
BSA0005072	1/2	72	36	24	7-9/16	1	1	79
BSA0005096	1/2	96	48	32	7-9/16	1	1	103
BSA0005120	1/2	120	60	40	8-9/16	1	1	154
BSA0010072	1	72	36	24	8-9/16	1	1	95
BSA0010096	1	96	48	32	9-9/16	1	1	148
BSA0010120	1	120	60	40	9-9/16	1	1	183
BSA0020072	2	72	36	24	11-7/8	2	2	133
BSA0020096	2	96	48	32	12-7/8	2	2	199
BSA0020120	2	120	60	40	13-7/8	2	2	278
BSA0040096	4	96	48	32	15-1/8	4-3/4	3-1/4	236
BSA0040120	4	120	60	40	16-1/8	4-3/4	3-1/4	323
BSA0040144	4	144	72	48	19-1/8	4-3/4	3-1/4	522
BSA0050096	5	96	48	32	19-7/8	6-1/2	4-3/4	380
BSA0050120	5	120	60	40	19-7/8	6-1/2	4-3/4	463
BSA0050144	5	144	72	48	21-7/8	6-1/2	4-3/4	684
BSA0075144	7-1/2	144	72	48	23-3/8	8-1/2	6-1/2	852



RFID Equipped

Lifting Beams

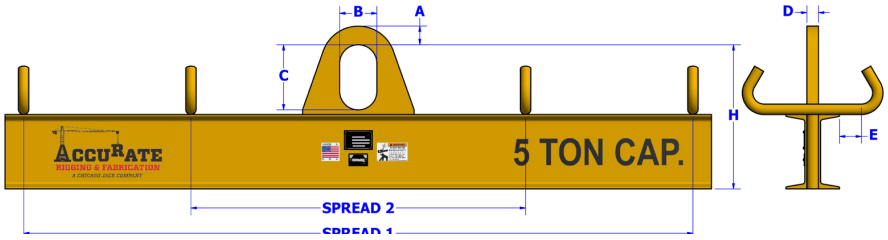
MADE IN USA

Model LBBE - Economy Twin Basket Sling Lift Beam



Standard Features:

- To be used only with slings in a basket hitch.
- Beams over 4' have 2 pairs of bent bar basket hooks
- 3' & 4' Beams have 1 pair of bent bar basket hooks.
- Spread 2 is 1/2 distance of spread 1.
- Hooks are capable of handling up to a 2" sling eye width maximum.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped





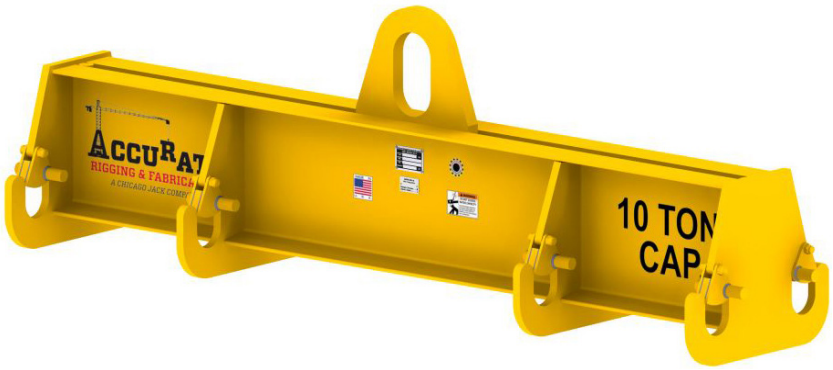
RFID Equipped

Rated Capacity (tons)	Model Number / Headroom (H) / Weight (lbs)	Maximum Spread (feet) *(Spread 1)*						Dimensions (in.)	
		3	4	6	8	10	12		
1/2	Model Number	LBBE0005036	LBBE0005048	LBBE0005072	LBBE0005096	LBBE0005120	LBBE0005144	A = 7/8"	D = 3/4"
	H Headroom	8-1/2"	8-1/2"	8-1/2"	8-1/2"	8-1/2"	8-1/2"	B = 3"	E = 2"
	Weight	44	52	71	88	131	154	C = 5"	
1	Model Number	LBBE0010036	LBBE0010048	LBBE0010072	LBBE0010096	LBBE0010120	LBBE0010144	A = 7/8"	D= 3/4"
	H Headroom	9-1/2"	9-1/2"	9-1/2"	10-1/2"	10-1/2"	10-1/2"	B = 3"	E = 2"
	Weight	54	65	91	138	161	189	C = 5"	
2	Model Number	LBBE0020036	LBBE0020048	LBBE0020072	LBBE0020096	LBBE0020120	LBBE0020144	A = 7/8"	D= 3/4"
	H Headroom	10-1/2"	10-1/2"	10-1/2"	11-1/2"	12-1/2"	12-1/2"	B = 3"	E = 2"
	Weight	68	81	116	168	235	276	C = 5"	
5	Model Number	LBBE0050036	LBBE0050048	LBBE0050072	LBBE0050096	LBBE0050120	LBBE0050120	A = 2"	D = 1-1/4"
	H Headroom	13-1/2"	14-1/2"	15-1/2"	17-1/2"	17-1/2"	19-1/2"	B = 4"	E = 2"
	Weight	114	145	222	334	395	602	C = 7"	
7-1/2	Model Number	LBBE0075036	LBBE0075048	LBBE0075072	LBBE0075096	LBBE0075120	LBBE0075144	A = 2"	D = 1-1/4"
	H Headroom	14-1/2"	15-1/2"	17-1/2"	19-1/2"	19-1/2"	22-1/2"	B = 4"	E = 2"
	Weight	128	166	278	434	516	930	C = 7"	

Lifting Beams

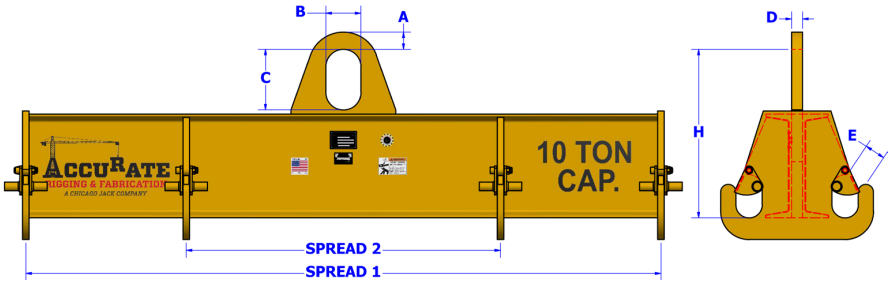
MADE IN USA

Model LBBH - Heavy Duty Twin Basket Sling Lift Beam



Standard Features:

- To be used only with slings in a basket hitch.
- Beams over 4' have 2 pairs of basket hooks
- 3' & 4' Beams have 1 pair of basket hooks.
- Spread 2 is 1/2 distance of spread 1.
- Additional pairs of hooks available on request.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped





RFID Equipped

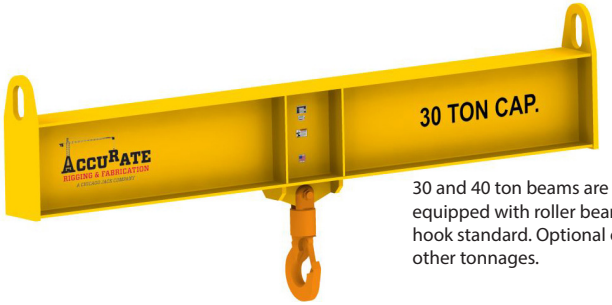
Rated Capacity (tons)	Model # / Headroom (H) / Weight (lbs)	Maximum Spread (feet) 3	4	6	8	10	12	14	16	18	20	24	30	Dimensions (in.)	
1/2	Model #	LBBH0005036	LBBH0005048	LBBH0005072	LBBH0005096	LBBH0005120	LBBH0005144	LBBH0005168	LBBH0005192	LBBH0005216	LBBH0005240	LBBH0005288	LBBH0005360	A = 7/8"	D = 3/4"
	H Headroom	9-1/2"	9-1/2"	9-1/2"	9-1/2"	9-3/4"	9-3/4"	9-3/4"	10-5/16"	10-5/16"	10-5/16"	10-5/16"	11-5/16"	B = 3"	E = 1-3/8"
	Weight	55	63	93	111	156	178	199	269	295	322	376	552	C = 5"	
1	Model #	LBBH0010036	LBBH0010048	LBBH0010072	LBBH0010096	LBBH0010120	LBBH0010144	LBBH0010168	LBBH0010192	LBBH0010216	LBBH0010240	LBBH0010288	LBBH0010360	A = 7/8"	D = 3/4"
	H Headroom	9-3/4"	9-3/4"	9-3/4"	10-3/8"	10-3/8"	10-3/8"	11-3/8"	11-3/8"	12-3/8"	12-3/8"	12-3/8"	13-1/4"	B = 3"	E = 1-3/8"
	Weight	68	79	118	164	191	219	295	328	426	465	544	772	C = 5"	
2	Model #	LBBH0020036	LBBH0020048	LBBH0020072	LBBH0020096	LBBH0020120	LBBH0020144	LBBH0020168	LBBH0020192	LBBH0020216	LBBH0020240	LBBH0020288	LBBH0020360	A = 7/8"	D = 3/4"
	H Headroom	10-3/8"	10-3/8"	10-3/8"	11-3/8"	12-3/8"	11-3/8"	13-1/4"	13-1/4"	15-1/4"	15-1/4"	15-1/4"	17-1/4"	B = 3"	E = 1-3/8"
	Weight	78	92	137	197	269	308	404	450	647	709	831	1358	C = 5"	
5	Model #	LBBH0050036	LBBH0050048	LBBH0050072	LBBH0050096	LBBH0050120	LBBH0050144	LBBH0050168	LBBH0050192	LBBH0050216	LBBH0050240	LBBH0050288	LBBH0050360	A = 2"	D = 1-1/4"
	H Headroom	13-1/2"	14-1/2"	15-1/2"	17-1/2"	17-1/2"								B = 4"	E = 1-3/4"
	Weight	139	172	281	417	478								C = 7"	
7-1/2	Model #	LBBH0075036	LBBH0075048	LBBH0075072	LBBH0075096	LBBH0075120	LBBH0075144	LBBH0075168	LBBH0075192	LBBH0075216	LBBH0075240	LBBH0075288	LBBH0075360	A = 2"	D = 1-1/4"
	H Headroom	14-1/2"	15-1/2"	17-1/2"	19-1/2"	19-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"	25-1/2"	B = 4"	E = 2"
	Weight	160	201	362	541	624	1064	1200	1336	1471	1607	2662	3790	C = 7"	
10	Model #	LBBH0100036	LBBH0100048	LBBH0100072	LBBH0100096	LBBH0100120	LBBH0100144	LBBH0100168	LBBH0100192	LBBH0100216	LBBH0100240	LBBH0100288	LBBH0100360	A = 2"	D = 1-1/4"
	H Headroom	15-1/2"	17-1/2"	19-1/2"	19-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"	24"	25-1/2"	B = 4"	E = 2"
	Weight	178	245	450	541	929	1064	1200	1336	2062	2262	3094	3790	C = 7"	
15	Model #	LBBH0150036	LBBH0150048	LBBH0150072	LBBH0150096	LBBH0150120	LBBH0150144	LBBH0150168	LBBH0150192	LBBH0150216	LBBH0150240	LBBH0150288	LBBH0150360	A = 2-1/2"	D = 1-1/2"
	H Headroom	19-1/2"	21-1/2"	24-1/2"	24-1/2"	24-1/2"	24-1/2"	24-1/2"	24-1/2"	27-1/2"	27-1/2"	34-9/16"	34-9/16"	B = 5"	E = 3-1/8"
	Weight	335	436	899	1049	1185	1701	1901	2101	2676	2908	3355	4179	C = 9"	
20	Model #	LBBH0200036	LBBH0200048	LBBH0200072	LBBH0200096	LBBH0200120	LBBH0200144	LBBH0200168	LBBH0200192	LBBH0200216	LBBH0200240	LBBH0200288	LBBH0200360	A = 2-1/2"	D = 1-1/2"
	H Headroom	21-1/2"	21-1/2"	24-1/2"	24-1/2"	24-1/2"	25-1/2"	27-1/2"	34-9/16"	34-9/16"	34-9/16"	32-9/16"	40-1/2"	B = 5"	E = 3-1/8"
	Weight	395	436	899	1049	1501	1980	2212	2723	2931	3139	3555	4615	C = 9"	

Lifting Beams

MADE IN USA

Model LBTH - Twin Hoist Lift Beam





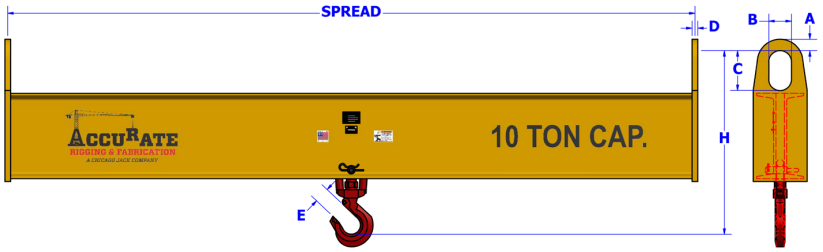
30 and 40 ton beams are equipped with roller bearing hook standard. Optional on all other tonnages.

Standard Features:

- To be used with two hoists to increase stability.
- All swivel hooks are equipped with latches.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped



Rated Capacity (tons)	Model # / Headroom (H) / Weight (lbs)	Spread (feet) 6	8	10	12	14	16	18	20	24	Dimensions (in.)	
2	Model #	LBTH0020072	LBTH0020096	LBTH0020120	LBTH0020144	LBTH0020168	LBTH0020192	LBTH0020216	LBTH0020240	LBTH0020288	A = 1-1/2"	D = 5/8"
	H Headroom	16-3/8"	16-3/8"	18-3/8"	18-3/8"	18-3/8"	18-3/8"	20-3/8"	20-3/8"	20-3/8"	B = 3"	E = 1.09"
	Weight	125	158	230	271	358	404	597	658	796	C = 5"	
4	Model #	LBTH0040072	LBTH0040096	LBTH0040120	LBTH0040144	LBTH0040168	LBTH0040192	LBTH0040216	LBTH0040240	LBTH0040288	A = 1-1/2"	D = 5/8"
	H Headroom	21"	21"	23"	23"	25"	25"	25"	25"	28"	B = 3"	E = 1.61"
	Weight	163	230	363	431	654	737	820	902	1717	C = 5"	
6	Model #	LBTH0060072	LBTH0060096	LBTH0060120	LBTH0060144	LBTH0060168	LBTH0060192	LBTH0060216	LBTH0060240	LBTH0060288	A = 1-1/2"	D = 3/4"
	H Headroom	24-1/2"	24-1/2"	26-1/2"	26-1/2"	26-1/2"	26-1/2"	29-1/2"	29-1/2"	29-1/2"	B = 3"	E = 2.085"
	Weight	258	319	500	594	677	898	1342	1478	1749	C = 5"	
10	Model #	LBTH0100072	LBTH0100096	LBTH0100120	LBTH0100144	LBTH0100168	LBTH0100192	LBTH0100216	LBTH0100240	LBTH0100288	A = 2"	D = 1"
	H Headroom	29-1/4"	29-1/4"	32-1/4"	32-1/4"	32-1/4"	32-1/4"	32-1/4"	32-1/4"	35-1/4"	B = 4"	E = 2.27"
	Weight	371	454	829	979	1115	1250	1965	2165	2256	C = 7"	
15	Model #		LBTH0150096	LBTH0150120	LBTH0150144	LBTH0150168	LBTH0150192	LBTH0150216	LBTH0150240	LBTH015088	A = 2"	D = 1"
	H Headroom		35-1/4"	35-1/4"	35-1/4"	35-1/4"	38-1/4"	38-1/4"	38-1/4"	57-3/8"	B = 4"	E = 3.02"
	Weight		721	857	1399	1599	1645	2367	2599	3003	C = 7"	
20	Model #		LBTH0200096	LBTH0200120	LBTH0200144	LBTH0200168	LBTH0200192	LBTH0200216	LBTH0200240	LBTH0200288	A = 2"	D = 1"
	H Headroom		35-1/4"	35-1/4"	38-1/4"	38-1/4"	58-3/4"	58-3/4"	58-3/4"	58-3/4"	B = 4"	E = 3.02"
	Weight		721	1179	1304	1903	2203	2471	2619	3035	C = 7"	
30	Model #		LBTH0300096	LBTH0300120	LBTH0300144	LBTH0300168	LBTH0300192	LBTH0300216	LBTH0300240	LBTH0300288	A = 2-1/2"	D = 1-1/2"
	H Headroom		48	48	60	60	60	63-1/2"	69	69	B = 5"	E = 3.75"
	Weight		1135	1611	1947	2155	2363	2704	3083	3904	C = 9"	
40	Model #		LBTH0400096	LBTH0400120	LBTH0400144	LBTH0400168	LBTH0400192	LBTH0400216	LBTH0400240	LBTH0400288	A = 2-1/2"	D = 1-1/2"
	H Headroom		64	64	64	67-1/2"	73	73	73	76	B = 5"	E = 4.25"
	Weight		1609	1817	2025	2326	2698	3203	3463	4528	C = 9"	

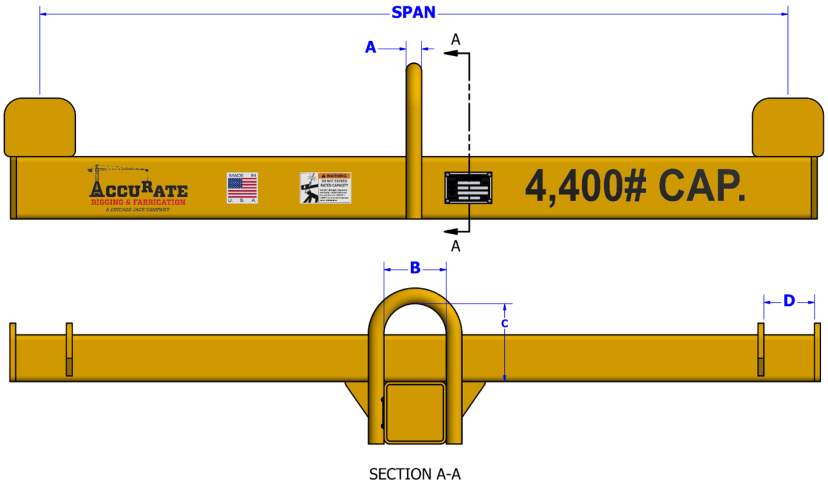
Lifting Beams

MADE IN USA

Model LBBC - Bulk Container Lift Beam







SECTION A-A

Standard Features:

- Ultra low headroom design.
- Made from tubing with no sharp edges.
- Attaches to load quickly & easily.
- Will accomodate up to 3” wide loop.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

Model Number	Rated Capacity (pounds)	Span (in)	Dimensions (in.)				Weight (lbs.)
			A	B	C	D	
LBBC2200-36	2,200	36”	1”	4”	5”	3-1/4”	77
LBBC2200-48	2,200	48”	1”	4”	5”	3-1/4”	95
LBBC4400-36	4,400	36”	1”	4”	5”	3-1/4”	114
LBBC4400-48	4,400	48”	1”	4”	5”	3-1/4”	124



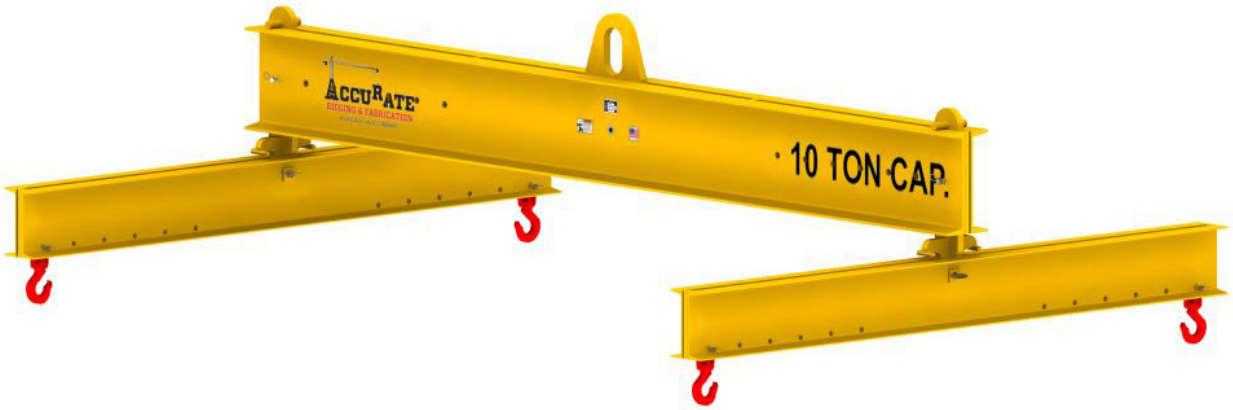
RFID Equipped

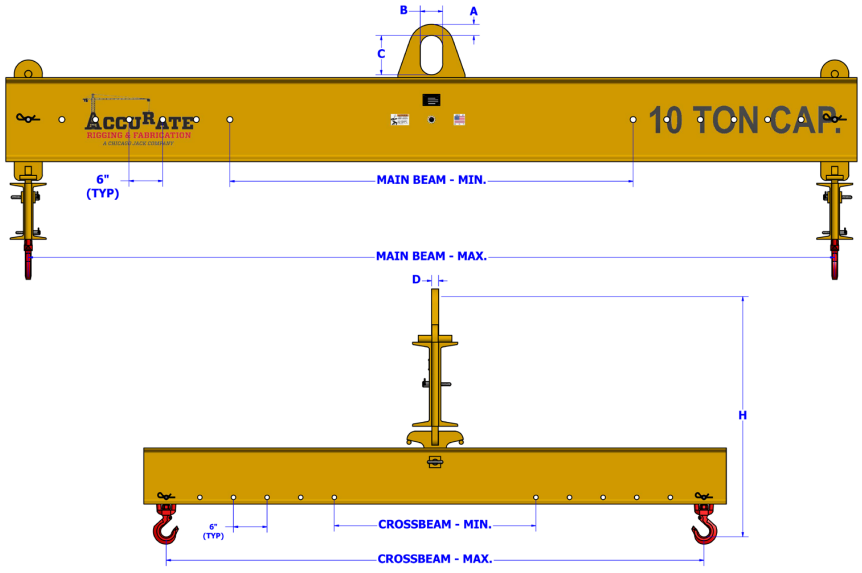
Additional capacities and configurations are available - please call for assistance.

Lifting Beams

MADE IN USA

Model FPLB - Adjustable 4-Point Lift Beam





Standard Features:

- Spreads adjust in 1' increments.
- Low Headroom.
- Swivels hooks with latches.
- Quick adjustment of cross-beams.
- Painted Safety Yellow for Visi-bilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped

Model Number	Rated Capacity (tons)	Spread Main Beam (in.)		Spread Crossbeam (in.)		Bail Dimensions (in.)				Headroom (in.)	Weight (lbs.)
		Max.	Min.	Max.	Min.	A	B	C	D	H	
FPLB0030084	3	84"	36"	60"	24"	1-1/4"	3"	5"	1"	24-1/4"	369
FPLB0050120	5	120"	48"	96"	36"	2"	4"	7"	1-1/4"	32-1/2"	803
FPLB0100144	10	144"	72"	96"	36"	2"	4"	7"	1-1/4"	42-1/4"	1,597

Additional capacities and configurations are available - please call for assistance.

Lifting Beams

MADE IN USA

Custom Lift Beams of Various Capacities & Configurations



Custom Basket Sling Lift Beam



45 ft Long, 15 Ton Multiple Pick Point Lift Beam



70 Ton Custom 4-Point Ultra Low Headroom Lift Beam



70 Ton Custom 3-Point Lift Beam with Adjustable Bail



10 Ton Custom 3-Point Lift Beam



Endless Web Sling Basket Lift Beam

Spreader Beams

MADE IN USA

Model BSH - Fixed Spreader Beam



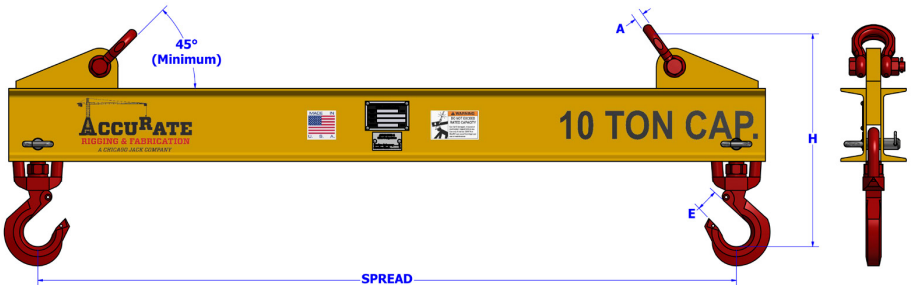
Shown with chain upper rigging

Standard Features:

- Used where headroom is not an issue.
- Increases stability to the lift.
- Equipped with shackles and swivel hooks with latches..
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

Options:

- Chain Sling as Upper Rigging
- Wire Rope Sling as Upper Rigging
- Additional capacities and lengths available.




RFID Equipped

Rated Capacity (tons)	Model # / Headroom (H) / Weight (lbs)	Spread (feet) 4	6	8	10	12	16	20	24	Dimensions (in.)
2	**Model #**	BSH0020048	BSH0020072	BSH0020096	BSH0020120	BSH0020144	BSH0020192	BSH0020240	BSH0020288	A = 7/16"
	H Headroom	9-7/16	9-7/16"	10-15/16"	10-15/16"	10-15/16"	11-7/16"	12-7/16"	12-7/16"	E = .91"
	Weight	46	63	100	123	145	230	344	410	
5	**Model #**	BSH0050048	BSH0050072	BSH0050096	BSH0050120	BSH0050144	BSH0050192	BSH0050240	BSH0050288	A = 5/8"
	H Headroom	14-1/4"	14-1/4"	14-1/4"	14-1/4"	14-1/4"	14-3/4"	15-3/4"	15-3/4"	E = 1.36"
	Weight	89	117	144	173	200	302	433	512	
10	**Model #**	BSH0100048	BSH0100072	BSH0100096	BSH0100120	BSH0100144	BSH0100192	BSH0100240	BSH0100288	A = 7/8"
	H Headroom	17-1/2"	17-1/2"	17-1/2"	17-1/2"	17-1/2"	20-1/2"	20-1/2"	21-1/2"	E = 1.61"
	Weight	136	171	203	240	273	566	686	822	
15	**Model #**	BSH0150048	BSH0150072	BSH0150096	BS0150120	BSH0150144	BSH0150192	BSH0150240	BSH0150288	A = 1"
	H Headroom	20-7/8"	21-7/8"	21-7/8"	21-7/8"	23-7/8"	23-7/8"	23-7/8"	25-7/8"	E = 2.08"
	Weight	188	254	300	354	498	620	743	1132	
20	**Model #**	BSH0200048	BSH0200072	BSH0200096	BSH0200120	BSH0200144	BSH0200192	BSH0200240	BSH020088	A = 1-1/4"
	H Headroom	24-7/8"	25-7/8"	25-7/8"	25-7/8"	27-7/8"	27-7/8"	27-7/8"	27-7/8"	E = 2.27"
	Weight	290	360	421	492	691	856	1022	1643	
30	**Model #**		BSH0300072	BSH0300096	BSH0300120	BSH0300144	BSH0300192	BSH0300240	BSH0300288	A = 1-1/2"
	H Headroom		32-1/4"	32-1/4"	32-1/4"	32-1/4"	35-1/4"	35-1/4"	35-1/4"	E = 3.02"
	Weight		565	656	937	1073	1450	1721	1992	
40	**Model #**		BSH0400072	BSH0400096	BSH0400120	BSH0400144	BSH0400192	BSH0400240	BSH0400288	A = 1-3/4"
	H Headroom		33-7/8"	33-7/8"	36-7/8"	36-7/8"	36-7/8"	36-7/8"	36-7/8"	E = 3.02"
	Weight		756	885	1090	1246	1517	2453	2853	

Spreader Beams

MADE IN USA

Model BSS - Adjustable Spreader Beam



Shown with chain upper rigging

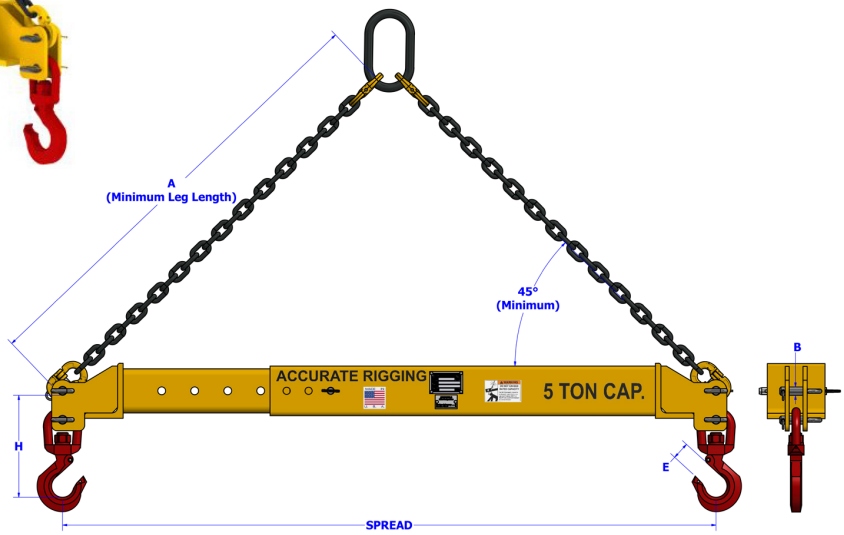
Standard Features:

- Used where headroom is not an issue.
- Increases stability to the lift.
- Adjusts in 1” increments
- Equipped swivel hooks with latches..
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

Options:

- Chain Sling as Upper Rigging
- Wire Rope Sling as Upper Rigging
- Additional capacities and lengths available.


RFID Equipped

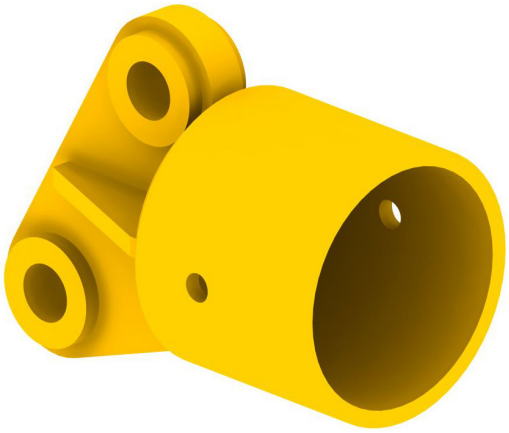


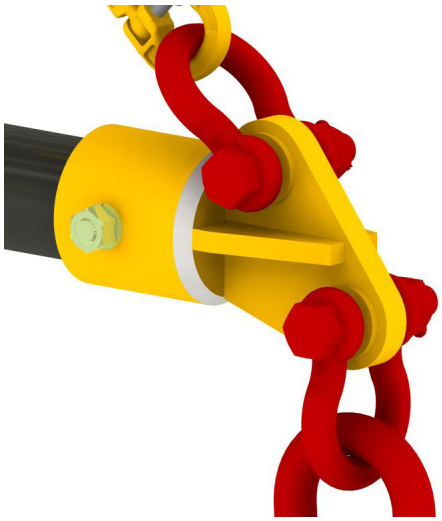
Rated Capacity (tons	Model Number	Spread (ft)		Dimensions (in.)			Headroom (in.)	Weight (lbs.)
		Max.	Min.	A	B	E	H	
2	BSS0020048072	6’	4’	4’6”	5/8”	.91”	7-3/16”	55
	BSS0020072120	10’	6’	7’0”	5/8”	.91”	7-3/16”	86
	BSS0020096168	14’	8’	10’0”	5/8”	.91”	7-3/16”	114
	BSS0020144240	20’	12’	14’2”	5/8”	.91”	7-3/16”	170
5	BSS0050048072	6’	4’	4’6”	3/4”	1.36”	9-1/4”	109
	BSS0050072120	10’	6’	7’0”	3/4”	1.36”	9-1/4”	165
	BSS0050096168	14’	8’	10’0”	3/4”	1.36”	9-1/4”	216
	BSS0050144240	20’	12’	14’2”	3/4”	1.36”	9-1/4”	318
10	BSS0100048072	6’	4’	4’6”	1”	1.61”	11-1/2”	138
	BSS0100072120	10’	6’	7’0”	1”	1.61”	11-1/2”	189
	BSS0100096168	14’	8’	10’0”	1”	1.61”	11-1/2”	240
	BSS0100144240	20’	12’	14’2”	1”	1.61”	11-1/2”	343
15	BSS0150048072	6’	4’	4’6”	1-1/8”	2.08”	13-5/8”	232
	BSS0150072120	10’	6’	7’0”	1-1/8”	2.08”	13-5/8”	331
	BSS0150096168	14’	8’	10’0”	1-1/8”	2.08”	13-5/8”	429
	BSS0150144240	20’	12’	14’2”	1-1/8”	2.08”	13-5/8”	626

Spreader Beams

MADE IN USA

Model SBEC - Spreader Beam End Fittings





Standard Features:

- Build your own Spreader Beam.
- Works with range of shackles, top & bottom.
- Complies with ASME standards when assembled to specifications.
- You supply the ASTM A53 Grade B, schedule 40 pipe.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped
- Complete assembly instructions are shipped with each pair of end fittings.



Shown here fully assembled, utilizing customer supplied pipe and rigging.

Model #	Capacity (tons)																			Weight per Pair (lbs.)
Spread (ft.)	4	5	6	8	10	12	14	15	16	18	20	22	24	26	28	30	32	34	36	
SBEC00250	7.5	7	6.5	5.5	4	2.5	2	1.5	-	-	-	-	-	-	-	-	-	-	-	19
SBEC00500	17	17	17	17	17	16	15	14	13	12	10	8	7	6	5	4	-	-	-	56
SBEC00800	39	39	39	39	39	38	36	36	35	33	31	29	27	25	23	21	196	16	15	228

Note: Capacities are based on a minimum 45 degree top rigging angle to the load.

Assembly Requirements

Pipe Requirements

- Model #SBEC00250 requires a 2-1/2" nominal size schedule 40 pipe, per ASTM A53 Grade B
- Model #SBEC00500 requires a 5" nominal size schedule 40 pipe, per ASTM A53 Grade B
- Model #SBEC00800 requires a 8" nominal size schedule 40 pipe, per ASTM A53 Grade B

Additional Requirements

- Each end of the pipe must have the correct diameter holes drilled straight thru both walls, and both holes must be in line.
- The schedule 40 pipe used for this application does not need to pass any pressure testing requirements.

Bolt Requirements

- Model #SBEC00250 requires a 5/8"-11UNC x 4-1/2" minimum length Grade 5 Hex Head Cap Screw.
- Model #SBEC00500 requires a 5/8"-11UNC x 8" minimum length Grade 5 Hex Head Cap Screw.
- Model #SBEC00800 requires a 5/8"-11UNC x 11-1/2" minimum length Grade 5 Hex Head Cap Screw.

Spreader Beams

MADE IN USA

Model SFC - Four Point Frame Corner Spreader Beam

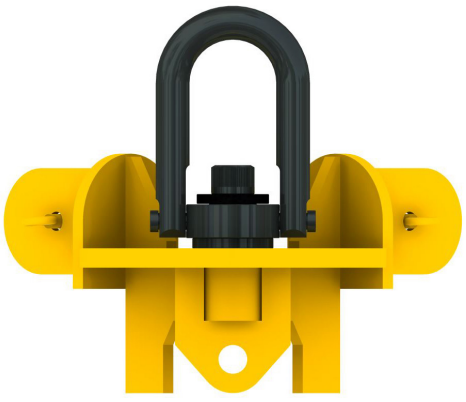


Create your own 4-point spreader frame to the exact frame size you require

- Efficient, economical and portable
- Available in two sizes:
  - Model # SFC24000 17,000# Cap. per corner @ 45° Sling Angle
  - Model # SFC50000 35,000# Cap. per corner @ 45° Sling Angle
- Meets or exceeds ASME B30.20, & BTH-1, Design Cat. B, Serivce Class 0.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped
- Complete assembly instructions are shipped with each set of four corners.



- The 17,000# Cap corners utilize 6” Schedule 80 E/H ASTM A500B pipe.
- The 35,000# Cap corners utilize 8” Schedule 80 E/H ASTM A500B pipe.
- Corners include Swivel Hoist Rings - you supply the rigging, slings, and pipe.



- Frames may be made with equal length parallel sides in square or rectangular shapes.
- Pipe length is not to exceed a span length of 35 feet.
- Each end of the pipe must have a 1.00” diameter hole drilled 2” in from each end, straight thru both walls, and both holes must be in line.
- Pipe locking pins with lanyards (not shown) are provided as standard.
- Upper rigging slings are to only be made in a 4 leg assembly and the angle is not to be less than 45° to the frame.
- Bottom slings are to hang straight down at 90° ± 5° to the frame.

Coil Handling

MADE IN USA

Model CLNC - Narrow Coil C-Hook



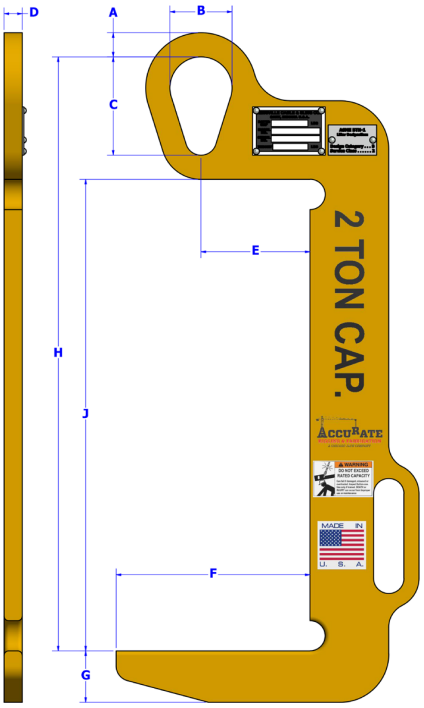
Note: C-Hook will not hang level when empty.

Standard Features:

- Specifically designed to handle narrow coils.
- Lightweight for ease of use.
- Integrated guide handle for ease of coil loading and positioning.
- Coil bearing toe has radius to reduce coil damage
- Option coil bearing plate is available..
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped



Model Number	Capacity (tons)	Dimensions (in.)										Weight (lbs.)
		Maximum Coil Width	A	B	C	D	E	F	G	J	Headroom (H)	
CLNC0005-08	1/2	8”	13/16”	2”	3-1/4”	1/2”	4-1/2”	8”	2-1/4”	14-1/2”	18-1/2”	13
CLNC0005-12		12”	13/16”	2”	3-1/4”	1/2”	6-1/2”	12”	2-5/8”	14-1/2”	18-1/2”	16
CLNC0010-08	1	8”	13/16”	2”	3-1/4”	1/2”	4-1/2”	8”	2”	17-1/2”	21-1/2”	14
CLNC0010-16		16”	13/16”	2”	3-1/4”	1/2”	8-1/2”	16”	2-1/2”	17-1/2”	21-1/2”	19
CLNC0020-08	2	8”	1”	2-9/16”	3-7/16”	3/4”	4-1/2”	8”	2-1/8”	19-1/2”	24-9/16”	25
CLNC0020-16		16”	1”	2-9/16”	3-7/16”	3/4”	8-1/2”	16”	3”	19-1/2”	24-9/16”	36
CLNC0035-12	3-1/2	12”	1-3/16”	3-5/8”	5-5/16”	1”	6-1/2”	12”	2-7/8”	21-1/2”	28-1/8”	52
CLNC0035-16		16”	1-3/16”	3-5/8”	5-5/16”	1”	8-1/2”	16”	3-3/8”	21-1/2”	28-1/8”	59
CLNC0050-16	5	16”	1-1/2”	4”	5-13/16”	1-1/4”	8-1/2”	16”	3-1/2”	25-1/2”	32-13/16”	94
CLNC0050-20		20”	1-1/2”	4”	5-13/16”	1-1/4”	10-1/2”	20”	4”	25-1/2”	32-13/16”	105

Coil Handling

MADE IN USA

Model CLHD - Heavy Duty C-Hook



Standard Features:

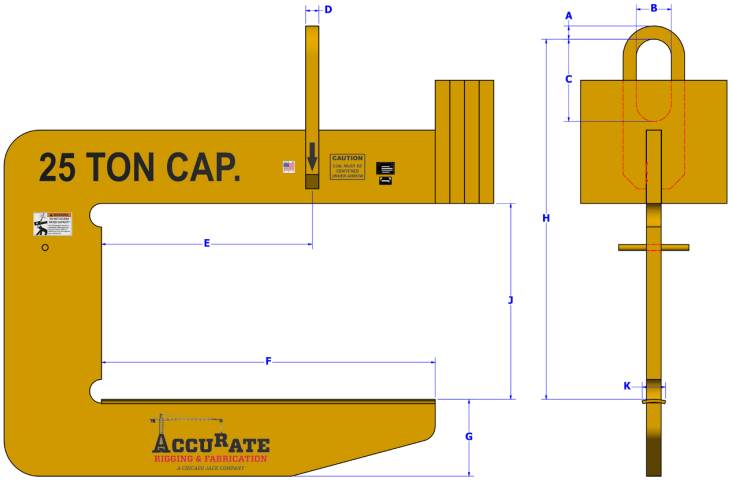
- Specifically designed for heavy duty applications.
- Alloy steel plate reduces weight.
- Handles provided for ease of coil loading and positioning.
- Hangs level when empty.
- Curved coil bearing plate is standard.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

WARNING

Coil must be centered beneath lifting bail to maintain proper center of gravity.



RFID Equipped



Model Number	Capacity (tons)	Dimensions (in.)											Weight
		Coil Width		A	B	C	D	E	F	G	J	K	Headroom (H)	
		Max	Min											
CLHD0050-36-24-24	5	36”	24”	1-1/2”	4”	7”	1-1/4”	18”	30”	5-11/16”	24”	4”	36-9/16”	462
CLHD0050-48-30-24		48”	30”	1-1/2”	4”	7”	1-1/4”	24”	39”	6-7/16”	24”	4”	37-5/16”	617
CLHD0050-60-36-24		60”	36”	1-1/2”	4”	7”	1-1/4”	30”	48”	7-3/16”	24”	4”	38”	747
CLHD0075-36-24-24	7-1/2	36”	24”	1-1/2”	4”	7”	1-1/2”	18”	30”	6-9/16”	24”	4”	37-7/16”	547
CLHD0075-48-30-24		48”	30”	1-1/2”	4”	7”	1-1/2”	24”	39”	7”	24”	4”	37-13/16”	707
CLHD0075-60-36-24		60”	36”	1-1/2”	4”	7”	1-1/2”	30”	48”	7-5/16”	24”	4”	38-7/16”	829
CLHD0100-48-30-24	10	48”	30”	2”	5”	9”	1-3/4”	24”	39”	8-5/16”	24”	4”	41-3/16”	953
CLHD0100-60-36-24		60”	36”	2”	5”	9”	1-3/4”	30”	48”	9-3/16”	24”	4”	42”	1,204
CLHD0100-72-42-24		72”	42”	2”	5”	9”	1-3/4”	36”	57”	9-15/16”	24”	4”	42-13/16”	1,460
CLHD0150-48-30-30	15	48”	30”	2”	5”	9”	1-3/4”	24”	39”	9-7/16”	30”	4”	48-5/16”	1,363
CLHD0150-60-36-30		60”	36”	2”	5”	9”	1-3/4”	30”	48”	10-7/16”	30”	4”	49-5/16”	1,743
CLHD0150-72-42-30		72”	42”	2”	5”	9”	1-3/4”	36”	57”	11-5/16”	30”	4”	50-3/16”	2,144
CLHD0200-60-36-30	20	60”	36”	2-1/4”	6”	12”	2”	30”	48”	11-5/16”	30”	4”	53-11/16”	2,221
CLHD0200-72-42-30		72”	42”	2-1/4”	6”	12”	2”	36”	57”	12-5/16”	30”	4”	54-11/16”	2,673
CLHD0250-60-36-34	25	60”	36”	2-1/4”	6”	14”	2-1/4”	30”	48”	12”	34”	4”	60-1/4”	2,817
CLHD0250-72-42-34		72”	42”	2-1/4”	6”	14”	2-1/4”	36”	57”	13-1/8”	34”	4”	61-3/8”	3,256
CLHD0300-60-36-34	30	60”	36”	2-3/4”	6”	14”	2-1/2”	30”	48”	13-1/8”	34”	4”	61-3/8”	3,075
CLHD0300-72-42-34		72”	42”	2-3/4”	6”	14”	2-1/2”	36”	57”	14-1/4”	34”	4”	62-1/2”	3,680
CLHD0400-72-42-38	40	72”	42”	3-1/4”	7”	18”	3”	36”	57”	15”	38”	5”	71-1/4”	4,860
CLHD0500-84-46-38	50	84”	48”	3-3/4”	7”	18”	3”	42”	65”	15-3/4”	40”	6”	71-3/4”	6,842

Coil Handling

MADE IN USA

Model CLCS - Close Stacking C-Hook



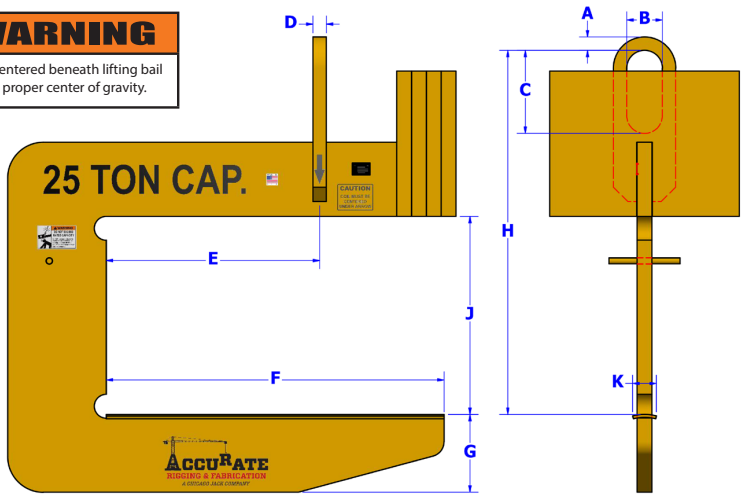
Standard Features:

- Counterweight is recessed, allowing for close stacking of coils, better utilizing floor space.
- Specifically designed for heavy duty applications.
- Alloy steel plate reduces weight.
- Handles provided for ease of coil loading and positioning.
- Hangs level when empty.
- Curved coil bearing plate is standard.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

WARNING
Coil must be centered beneath lifting bail to maintain proper center of gravity.



RFID Equipped

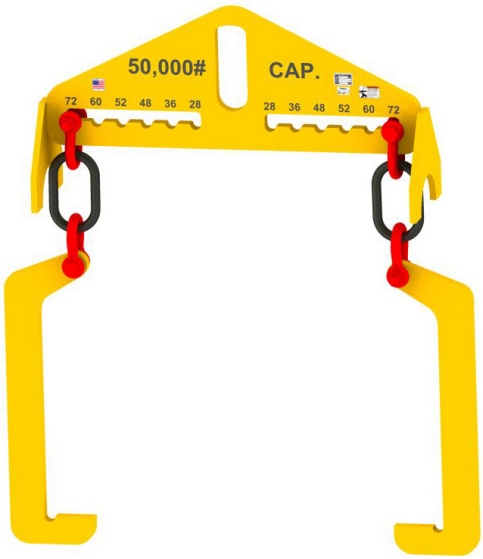


Model Number	Capacity (tons)	Dimensions (in.)												Weight
		Coil Width		A	B	C	D	E	F	G	J	K	Headroom (H)	
		Max	Min											
CLCS0050-36-24-24	5	36”	24”	1-1/2”	4”	7”	1-1/4”	18”	30”	5-11/16”	24”	4”	36-9/16”	563
CLCS0050-48-30-24		48”	30”	1-1/2”	4”	7”	1-1/4”	24”	39”	6-7/16”	24”	4”	37-5/16”	719
CLCS0050-60-36-24		60”	36”	1-1/2”	4”	7”	1-1/4”	30”	48”	7-3/16”	24”	4”	38”	906
CLCS0075-36-24-24	7-1/2	36”	24”	1-1/2”	4”	7”	1-1/2”	18”	30”	6-9/16”	24”	4”	37-7/16”	662
CLCS0075-48-30-24		48”	30”	1-1/2”	4”	7”	1-1/2”	24”	39”	7”	24”	4”	37-13/16”	839
CLCS0075-60-36-24		60”	36”	1-1/2”	4”	4”	1-1/2”	30”	48”	7-5/16”	24”	4”	38-7/16”	1,015
CLCS0100-48-30-24	10	48”	30”	2”	5”	9”	1-3/4”	24”	39”	8-5/16”	24”	4”	41-3/16”	1,228
CLCS0100-60-36-24		60”	36”	2”	5”	9”	1-3/4”	30”	48”	9-3/16”	24”	4”	42”	1,486
CLCS0100-72-42-24		72”	42”	2”	5”	9”	1-3/4”	36”	57”	9-15/16”	24”	4”	42-13/16”	1,741
CLCS0150-48-30-30	15	48”	30”	2”	5”	9”	1-3/4”	24”	39”	9-7/16”	30”	4”	48-5/16”	1,751
CLCS0150-60-36-30		60”	36”	2”	5”	9”	1-3/4”	30”	48”	10-7/16”	30”	4”	49-5/16”	2,181
CLCS0150-72-42-30		72”	42”	2”	5”	9”	1-3/4”	36”	57”	11-5/16”	30”	4”	50-3/16”	2,638
CLCS0200-60-36-30	20	60”	36”	2-1/4”	6”	12”	2”	30”	48”	11-5/16”	30”	4”	53-11/16”	2,817
CLCS0200-72-42-30		72”	42”	2-1/4”	6”	12”	2”	36”	57”	12-5/16”	30”	4”	54-11/16”	3,272
CLCS0250-60-36-34	25	60”	36”	2-1/4”	6”	14”	2-1/4”	30”	48”	12”	34”	4”	60-1/4”	3,343
CLCS0250-72-42-34		72”	42”	2-1/4”	6”	14”	2-1/4”	36”	57”	13-1/8”	34”	4”	61-3/8”	3,919
CLCS0300-60-36-34	30	60”	36”	2-3/4”	6”	14”	2-1/2”	30”	48”	13-1/8”	34”	4”	61-3/8”	3,682
CLCS0300-72-42-34		72”	42”	2-3/4”	6”	14”	2-1/2”	36”	57”	14-1/4”	34”	4”	62-1/2”	4,195
CLCS0400-72-42-38	40	72”	42”	3-1/4”	7”	18”	3”	36”	57”	15”	38”	5”	71-1/4”	5,355
CLCS0400-72-42-38	50	84”	48”	3-3/4”	7”	148”	3”	42”	65”	15-3/4”	40”	6”	71-3/4”	7,715

Coil Handling

MADE IN USA

Model CLNA - Narrow Aisle Coil Lifter



Standard Features:

- Specifically designed for handling and positioning coils close together. Coils can be handled in aisles as narrow as 18".
- Designed to be hooked up and released by remote crane operator.
- Integrated lifting bail saves headroom and minimizes inspection normally associated with welded lifting bails.
- Constructed of all alloy steel, reducing weight and physical size.
- Marked notches and built-in parking stand on lilfting bail allows for easy adjustmanet of hooks for specific coil widths.
- Coil bearing toe has radius to reduce coil damage.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

Custom built to suit your specific application needs. To order or receive a quote, simply provide your capacity requirements along with the dimensions of the range of coils intended to be lifted.

Model CLPS - C-Hook Parking Stand



Standard Features:

- Designed to store Models **CLCH** & **CLCS** C-Hooks.
- Designed to match your lifter's size and capacity.
- Constructed from tubular steel for strength and reduced weight.
- Reduces required storage space.
- Stabilizes coil lifter for safety.
- Allows for easy inspection.
- Reduces amount of time required to engage and disengage coil lifter.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped

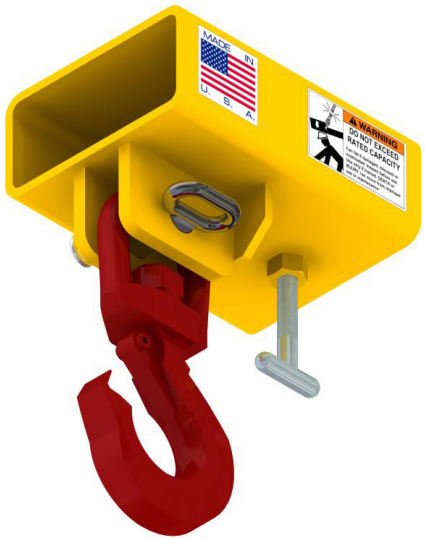
Forklift Attachments

MADE IN USA

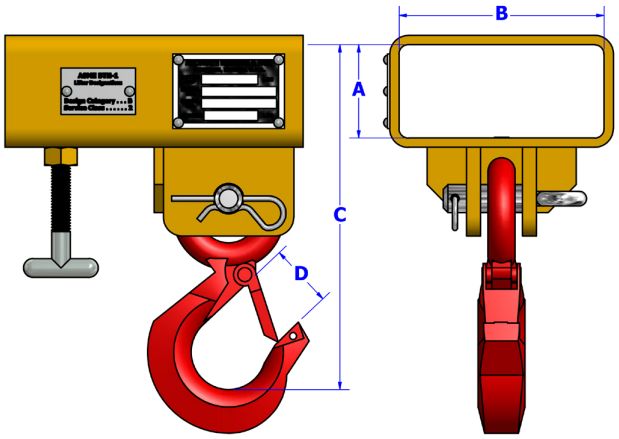
Model SFEH/SFSH - Single Fork Hook - (Eye or Swivel)



SFEH - Eye Hook



SFSH - Swivel Hook



Standard Features:

- Designed to make fork lifts more versatile.
- Constructed from tubular steel for strength and reduced weight.
- Attaches to forks easily, no tools required.
- All hooks are equipped with latches.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

WARNING

The combination of forklift and attachment capacity may be less than the capacity shown on the attachment. Consult forklift manufacturer.

Model Number Eye	Model Number Swivel	Rated Capacity (pounds)	Dimensions (in.)					Weight Eye (lbs.)	Weight Swivel (lbs.)
			A	B	C Eye	C Swivel	D		
SFEH300045	SFSH300045	3,000	4-1/2”	2-1/2”	8”	9-3/4”	1.00”	12	13
SFEH300055	SFSH300055	3,000	5-1/2”	2-1/2”	8”	9-3/4”	1.00”	13	14
SFEH300065	SFSH300065	3,000	6-1/2”	2-1/2”	8”	9-3/4”	1.00”	14	15
SFEH300075	SFSH300075	3,000	7-1/2”	2-1/2”	8”	9-3/4”	1.00”	15	17
SFEH500045	SFSH500045	5,000	4-1/2”	2-1/2”	9-1/4”	11-3/16”	1.36”	14	16
SFEH500055	SFSH500055	5,000	5-1/2”	2-1/2”	9-1/4”	11-3/16”	1.36”	15	17
SFEH500065	SFSH500065	5,000	6-1/2”	2-1/2”	9-1/4”	11-3/16”	1.36”	16	18
SFEH700085	SFSH700085	7,000	8-1/2”	2-1/2”	10-1/4”	12-3/16”	1.36”	31	32

Forklift Attachments

MADE IN USA

Model SHBE/SHBS - Single Hook Beam - (Eye or Swivel)



SHBE - Eye Hook



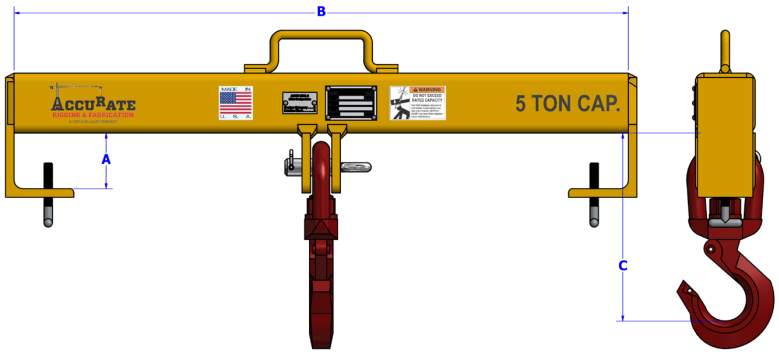
SHBS - Swivel Hook



RFID Equipped

WARNING

The combination of forklift and attachment capacity may be less than the capacity shown on the attachment. Consult forklift manufacturer.



Standard Features:

- Designed to make fork lifts more versatile.
- Constructed from tubular steel for strength and reduced weight.
- Attaches to forks easily, no tools required.
- All hooks are equipped with latches.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

Model Number Eye	Model Number Swivel	Rated Capacity (pounds)	Dimensions (in.)					Weight Eye (lbs.)	Weight Swivel (lbs.)
			A	B	C Eye	C Swivel	D		
SHBE0400020	SHBS0400020	4,000	3-1/4”	20”	5-11/16”	7-5/16”	1.09”	25	26
SHBE1000024	SHBS1000024	10,000	3-1/4”	24”	8-11/16”	11”	1.61”	43	46
SHBE1000036	SHBS1000036	10,000	3-1/4”	36”	8-11/16”	11”	1.61”	54	57
SHBE1500036	SHBS1500036	15,000	4-1/4”	36”	11-7/16”	13-11/16”	2.08”	95	99
SHBE2000036	SHBS2000036	20,000	4-1/4”	36”	12-3/8”	14-1/2”	2.27”	110	114
SHBE3000036	SHBS3000036	30,000	4-1/4”	36”	15-3/8”	18-13/16”	3.02”	151	161

Forklift Attachments

MADE IN USA

Model DHBS - Double Hook Fork Lift Beam

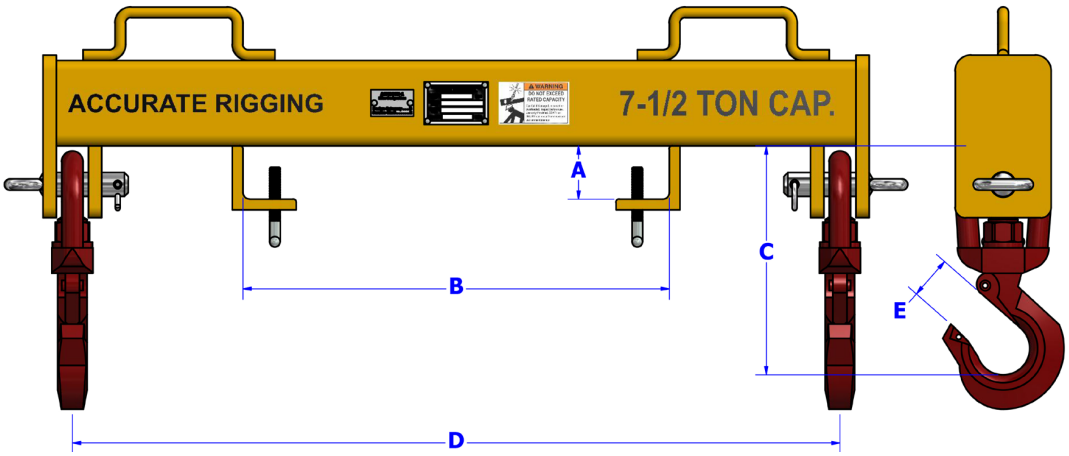


Standard Features:

- Designed to make fork lifts more versatile.
- Constructed from tubular steel for strength and reduced weight.
- Attaches to forks easily, no tools required.
- All hooks are equipped with latches.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

WARNING

The combination of forklift and attachment capacity may be less than the capacity shown on the attachment. Consult forklift manufacturer.



Model Number Swivel	Rated Capacity (pounds)	Dimensions (in.)					Weight (lbs.)
		A	B	C	D	E	
DHBS0500036	5,000	2-1/2”	20”	7-3/16”	36”	1.09”	59
DHBS1000036	10,000	2-1/2”	20”	8-7/16”	36”	1.36”	69
DHBS1500036	15,000	2-1/2”	20”	10-3/4”	36”	1.61”	85
DHBS2200036	22,000	2-1/2”	20”	12-7/16”	36”	2.08”	106



RFID Equipped

Forklift Attachments

MADE IN USA

Model FLBR - Forklift Lift Beam - Reach Over Boom



Standard Features:

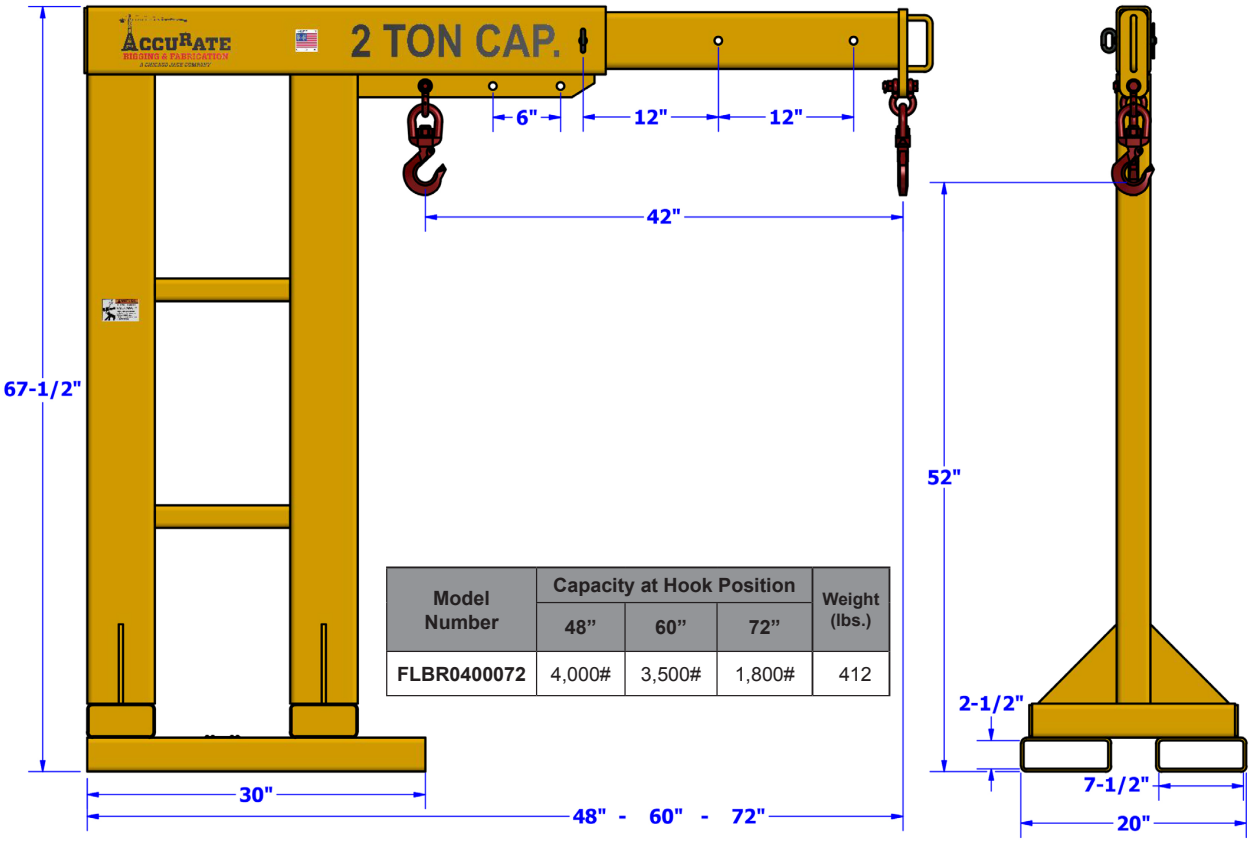
- Designed to make fork lifts more versatile.
- Constructed from tubular steel for strength and reduced weight.
- Attaches to forks easily, no tools required.
- Telescoping Boom, adjusts at 48", 60", and 72".
- Includes anchoring chain with grab hook.
- All hooks are equipped with latches.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped

WARNING

The combination of forklift and attachment capacity may be less than the capacity shown on the attachment. Consult forklift manufacturer.



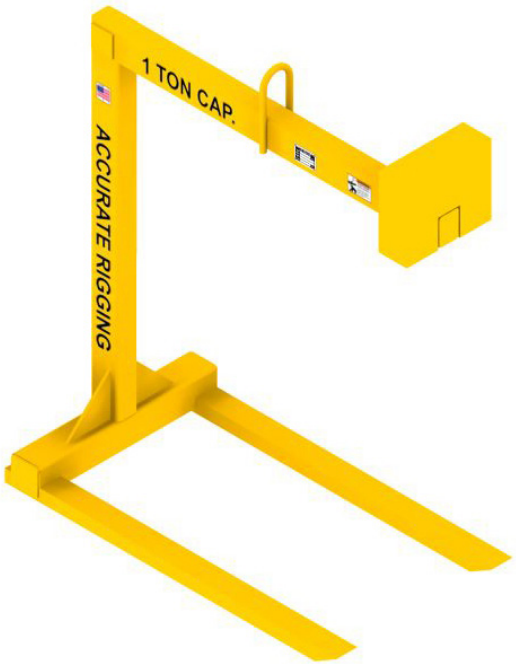
Model Number	Capacity at Hook Position			Weight (lbs.)
	48"	60"	72"	
FLBR0400072	4,000#	3,500#	1,800#	412

Fabrication

Pallet Lifters

MADE IN USA

Model PLFF - Fixed Fork Pallet Lifter

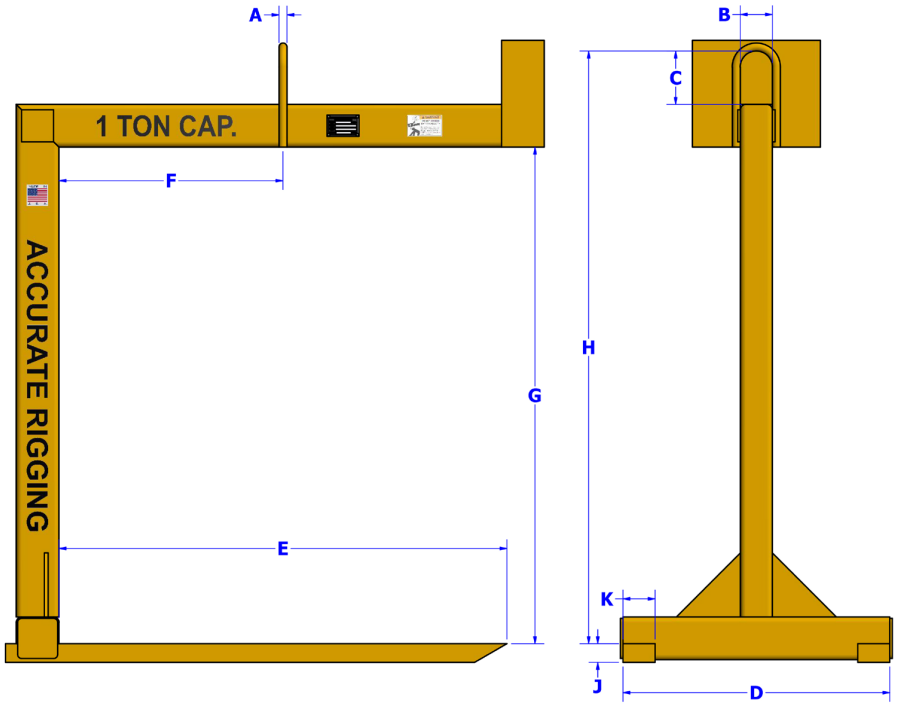


Standard Features:

- Converts Hoist or Overhead Crane into a Fork Truck.
- Constructed from tubular steel for strength and reduced weight.
- Counterbalanced to hang level when empty.
- Compact design allows for loading and unloading in tight areas.
- Maintenance free.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped

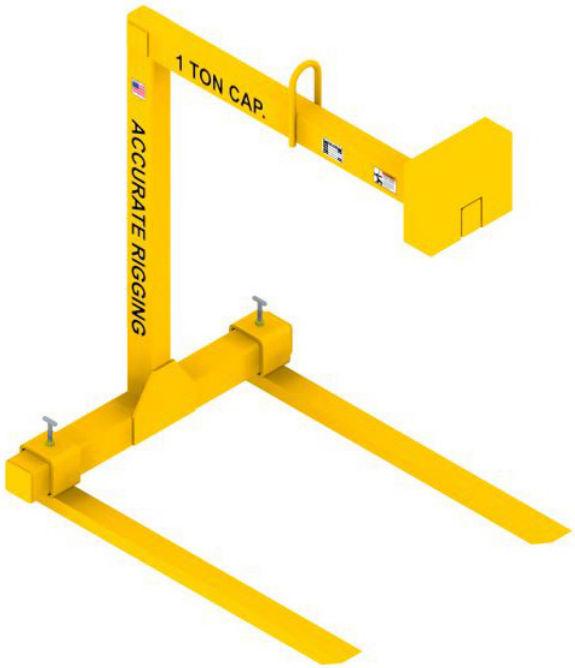


Model Number	Capacity (tons)	Dimensions (in.)										Weight
		A	B	C	D	E	F	G	J	K	Headroom (H)	
PLFF010-48	1	1”	3”	5”	25”	48”	24”	48”	1-3/4”	3”	57”	370
PLFF020-48	2	1”	3”	5”	25”	48”	24”	48”	2”	4”	59”	617
PLFF030-48	3	1-1/2”	4”	7”	27”	48”	24”	48”	2-1/2”	4-1/2”	62”	830

Pallet Lifters

MADE IN USA

Model PLAF - Adjustable Fork Pallet Lifter

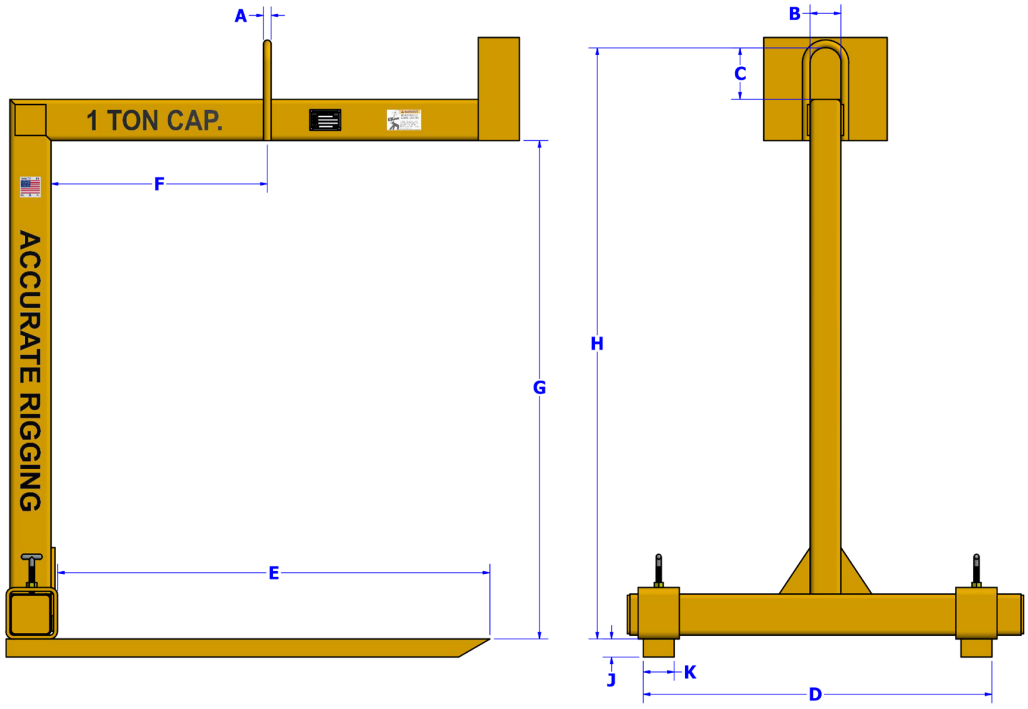


Standard Features:

- Converts Hoist or Overhead Crane into a Fork Truck.
- Adjustable forks to handle multiple pallet sizes.
- Constructed from tubular steel for strength and reduced weight.
- Counterbalanced to hang level when empty.
- Compact design allows for loading and unloading in tight areas.
- Maintenance free.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped



Model Number	Capacity (tons)	Dimensions (in.)											Weight
		A	B	C	D Min	D Max	E	F	G	J	K	Headroom (H)	
PLFF010-48	1	1”	3”	5”	16”	38”	48”	24”	48”	1-3/4”	3”	59”	430
PLFF020-48	2	1”	3”	5”	16”	38”	48”	24”	48”	2”	4”	60”	665
PLFF030-48	3	1-1/2”	4”	7”	16”	38”	48”	24”	48”	2-1/2”	4-1/2”	61”	985

Sling Storage Rack

MADE IN USA

Model SSR - Sling Storage Rack



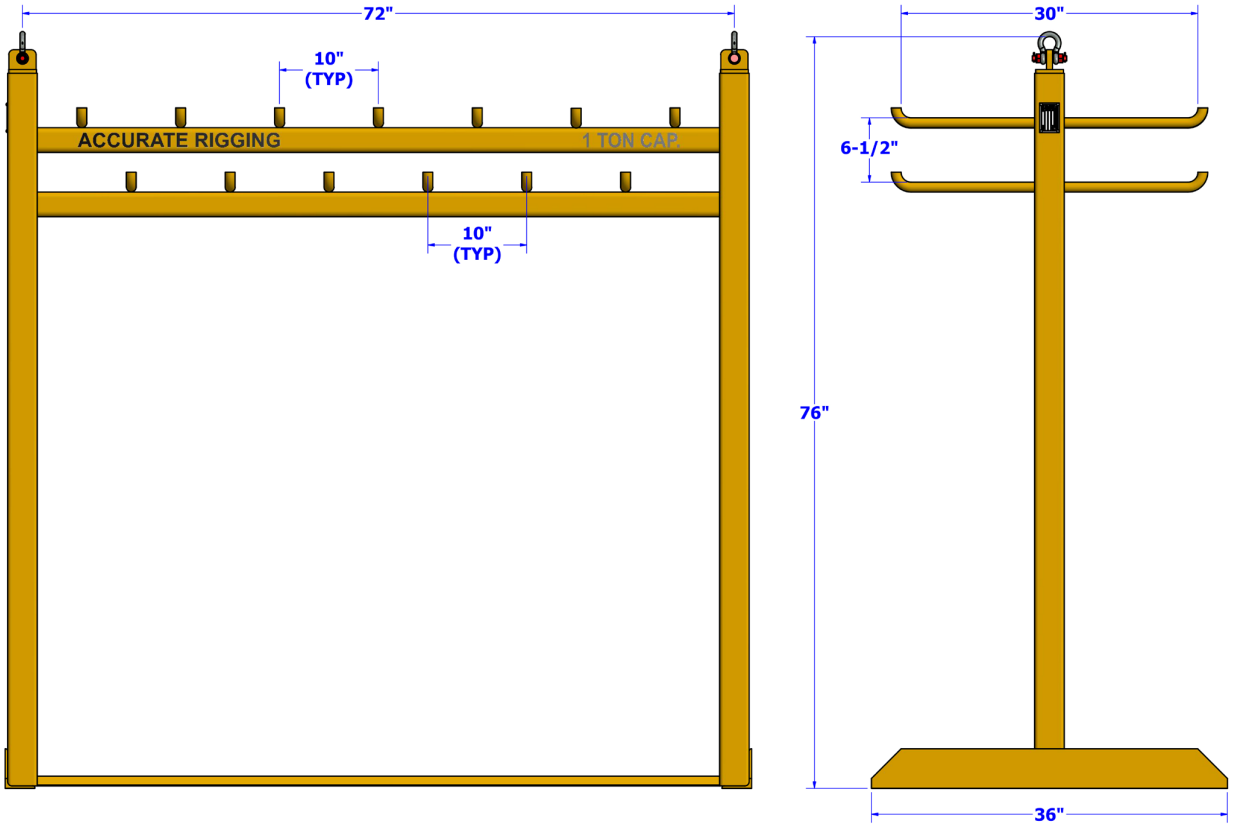
Standard Features:

- Safely keeps slings organized and assists in reducing damage by keeping slings off the floor.
- Aids the inspection of slings.
- Constructed from tubular steel for strength and reduced weight.
- Lifting shackles enable sling rack to be hoisted to multiple locations.
- Maintenance free.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped

Additional sizes and Capacities are available - please call for assistance.



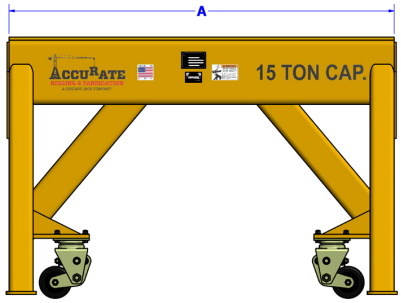
Fabrication

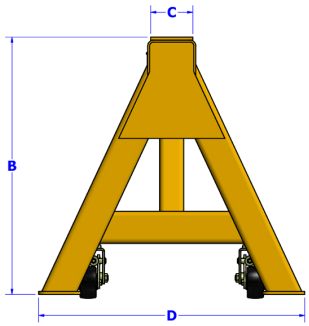
Material Stands

MADE IN USA

Model MSHF - Heavy Duty Fixed Height Material Stands







Model Number	Rated Capacity (tons)	Dimensions (in.)				Weight (lbs.)
		A	B	C	D	
MSHF05000048	2-1/2	48”	32”	5”	33”	175
MSHF10000048	5	48”	32”	6”	33”	226
MSHF15000048	7-1/2	48”	32”	6”	34”	286
MSHF20000048	10	48”	32”	7”	34”	335
MSHF30000048	15	48”	32”	8”	32”	392

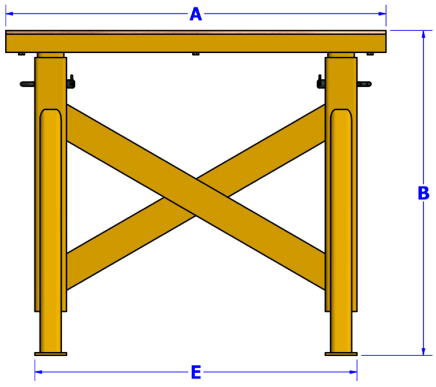
Shown with optional casters, whch retract under load.

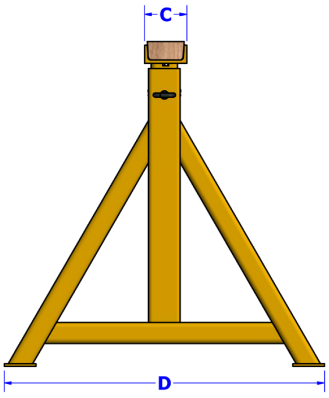
Standard Features:

- Designed for Heavy Duty use.
- Optional casters or fork pockets available for easy transport.
- Additional heights and lengths available, contact us for details.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

Model MSHA - Adjustable Height Material Stands







Model Number	Rated Capacity (pounds)	Dimensions (in.)						Weight (lbs.)
		A	B		C	D	E	
			Min	Max				
MSHA02500036	2,000	36”	31”	45”	4”	30-1/2”	30-1/2”	160
MSHA04000036	4,000	36”	31”	45”	5”	30-1/2”	30-1/2”	185
MSHA06000036	6,000	36”	32”	44”	6”	32”	32”	248
MSHA08000036	8,000	36”	32”	44”	8”	32”	32”	292

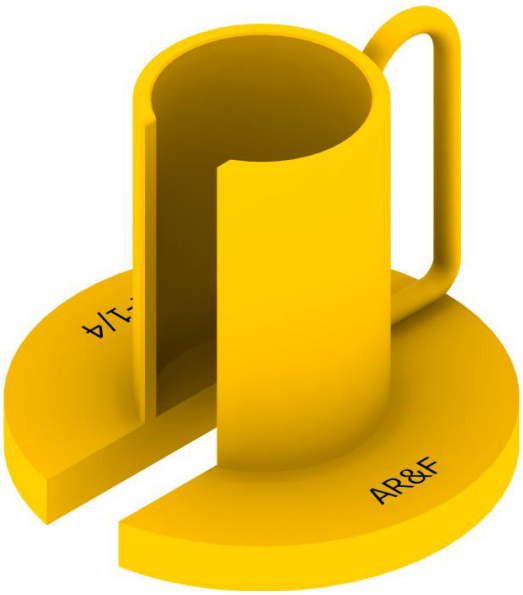
Standard Features:

- Designed to adjust your project to the correct work height.
- Height adjustable in 2” increments.
- User replaceable hardwood insert on top to protect project and reduce slippage.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

Concrete Pipe Lifter

MADE IN USA

Model TCCL - "Tea Cup" Concrete Pipe Lifter

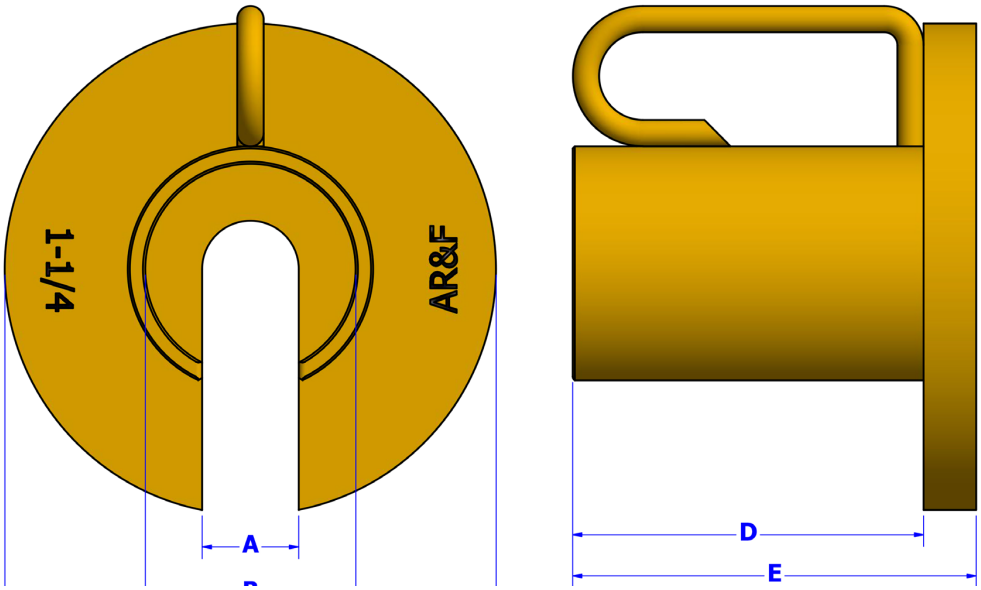


Standard Features:

- Designed to efficiently handle concrete pipe
- Light weight design.
- Three sizes available, to handle 3/4" to 1-1/4" wire rope.
- Saves time & money.
- Maintenance free.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped

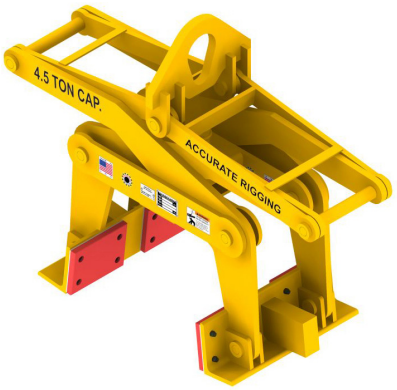


Model Number	Wire Rope Size	Dimensions (in.)					Weight (lbs.)
		A	B	C	D	E	
TCCL46	3/4">7/8"	1"	2-1/2"	7"	5"	5-3/4"	10.5
TCCL55	1">1-1/8"	1-1/4"	2-1/2"	7"	5"	5-3/4"	10.5
TCCL60	1-1/4"	1-3/8"	3"	7"	5"	5-3/4"	11

Barrier Grab

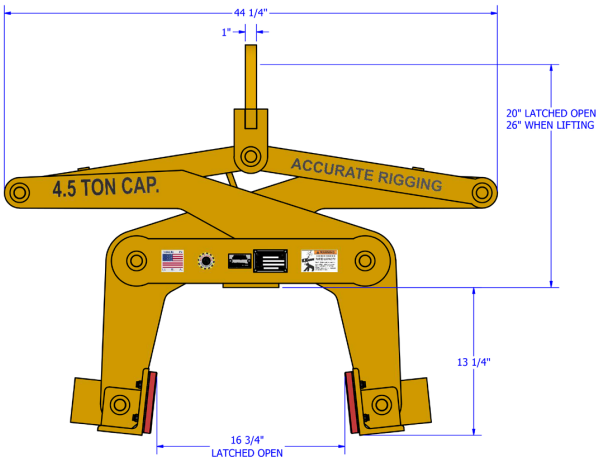
MADE IN USA

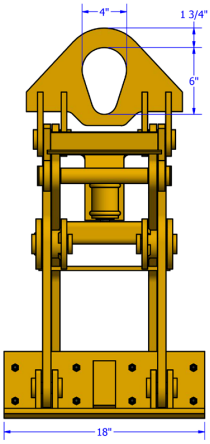
Model CBG - Concrete Barrier Grab

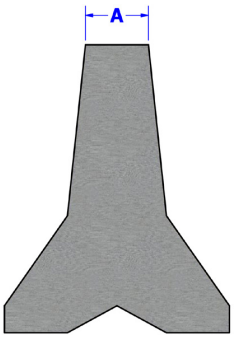


Standard Features:

- 4-1/2 Ton Capacity (9,000#)
- Designed to efficiently handle concrete barriers
- The automatic latching mechanism provides hand free operation.
- No chain or slings are required.
- Saves time and money.
- Holes for slings are no longer needed
- Polyurethane gripping pads are easily replaceable.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped







Grab will handle barriers with a 6">12" ("A" Dim) at the top of the Barrier

How It Works



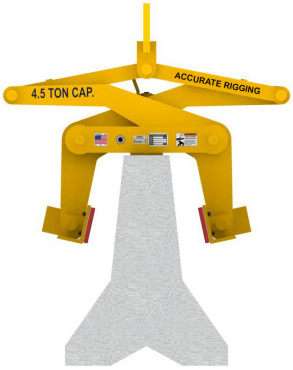
Grab is lowered onto top of barrier in the "latched open" position.



Once resting on barrier, unit must be given slack in order to disengage latching mechanism.



Grab engages barrier and is hoisted, then lowered into position



Slack is given, allowing latch to re-engage to hold the grab in "latched open" position, allowing removal of grab.

Manhole Pin

MADE IN USA

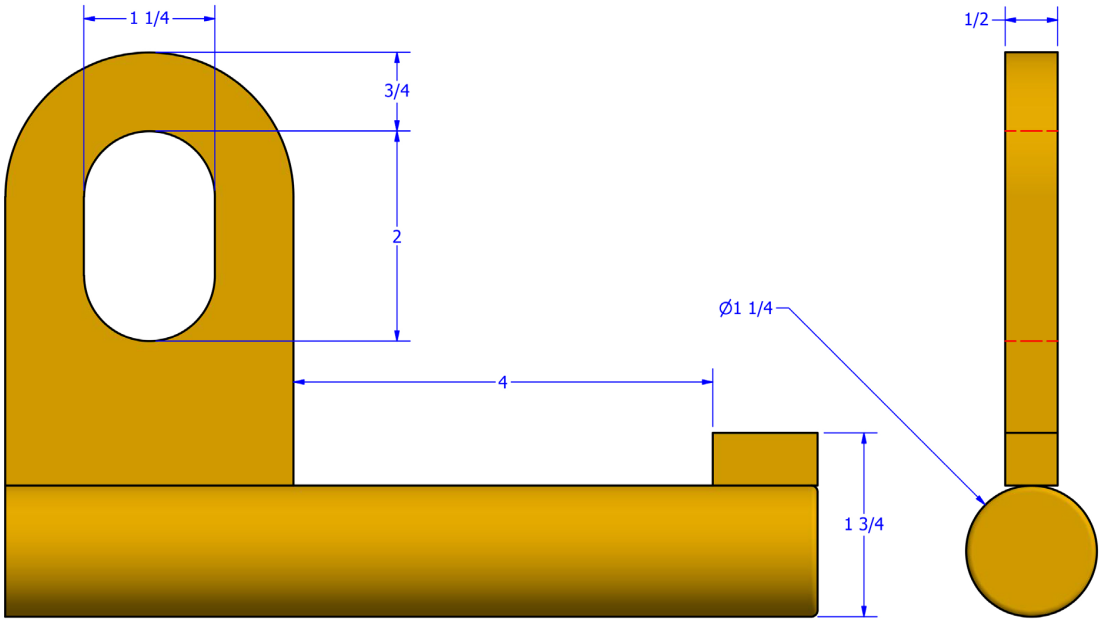
Model MHP - Manhole Lifting Pin



Standard Features:

- Designed to efficiently handle concrete manholes
- Saves time & money.
- Maintenance free.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- Sold individually

- **Model #MHP6090**
- **3,500# Working Load Limit**
- **Weight 3 lbs.**



Pipe Lifting Hooks

MADE IN USA

Model PLH - Pipe Lifting Hook



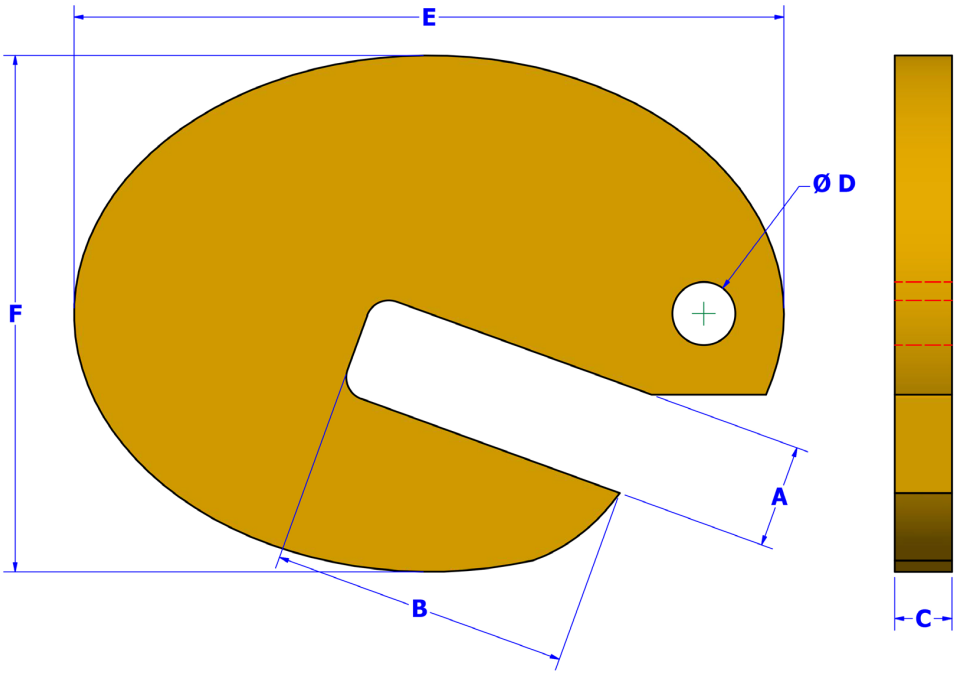
Standard Features:

- Designed to lift and carry steel or cast iron pipe.
- Rated capacity is per pair.
- Supplied with Bolt Type Anchor Shackles, as pictured at left.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- Sold in pairs only!
- RFID Chip Equipped



RFID Equipped

IMPORTANT! - Rated capacity is per PAIR!



Model Number	Rated Capacity (tons) per Pair	Dimensions (in.)						Weight (lbs.)
		A	B	C	D	E	F	
PLH04000	2	1-1/2”	1-3/4”	5/8”	11/16”	7-3/4”	5-1/4”	8.5
PLH08000	4	1-1/2”	2-5/8”	3/4”	13/16”	7-3/4”	6-3/4”	15.7
PLH16000	8	1-1/2”	3-7/8”	1”	1-1/16”	8-1/4”	7-3/4”	30.2
PLH20000	10	1-1/2”	4”	1-1/4”	1-3/16”	9-1/2”	8-15/16”	48
PLH30000	15	1-1/2”	4”	1-3/4”	1-7/16”	9-1/2”	8-15/16”	75

Pole Tong

MADE IN USA

Model SPT - Safety Pole Tongs



Standard Features:

- Poles are held securely by the triple saw tooth arrangement and cannot slip while under load.
- Includes trip line, which enables the crane or hoist operator to load and unload poles without being in a “danger zone”.
- Increases pole handling efficiencies by as much as 50% with less labor.
- All pins are hardened steel, with welded heads.
- Made from high strength alloy steel.
- Teeth are flame hardened.
- Saves time & money.
- Maintenance free.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped

RFID Equipped





Model Number	Rated Capacity (pounds)	Jaw Opening (inches)	Pivoting Pin Diameter	Weight (lbs.)
SPT07500	7,500	11-1/2”	7/8”	20
SPT10000	10,000	16-3/4”	1”	30

Weight must be completly relieved before tongs can be released or removed.

Reel Lifter

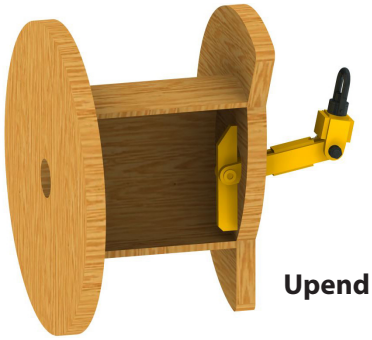
MADE IN USA

Model RUL - Reel Upender / Lifter



Standard Features:

- Designed & Fabricated to upend and llift reels.
- Includes Safety Swivel Hoist Ring which rotates 360 degrees and pivots 180 degrees.
- Upend and Lift in one operation.
- All pins are hardened steel, with welded heads.
- Made from high strength alloy steel.
- Oblong link can be added to safety hoist ring for larger crane hooks.
- Lifting arm is counterweighted for ease of insertion in reel.
- Includes lanyard for pivoting bottom arm to lift.
- Requires very little maintenance.
- Painted Safety Yellow for Visibilty
- Made in USA
- Conforms to ASME B30.20, BTH-1, Design Category B, Service Class 0.
- Proof Loaded & Certified
- RFID Chip Equipped



Upend



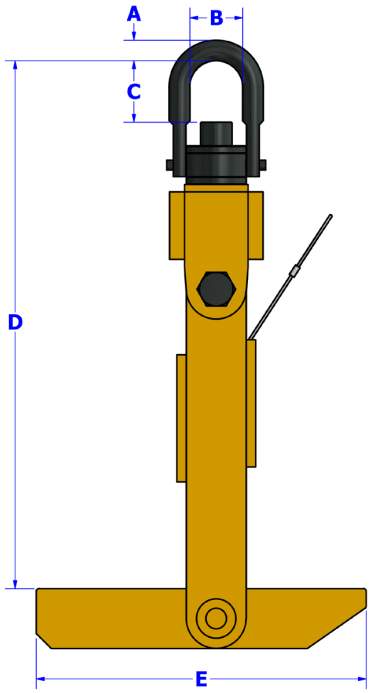
RFID Equipped



Insert



Lift

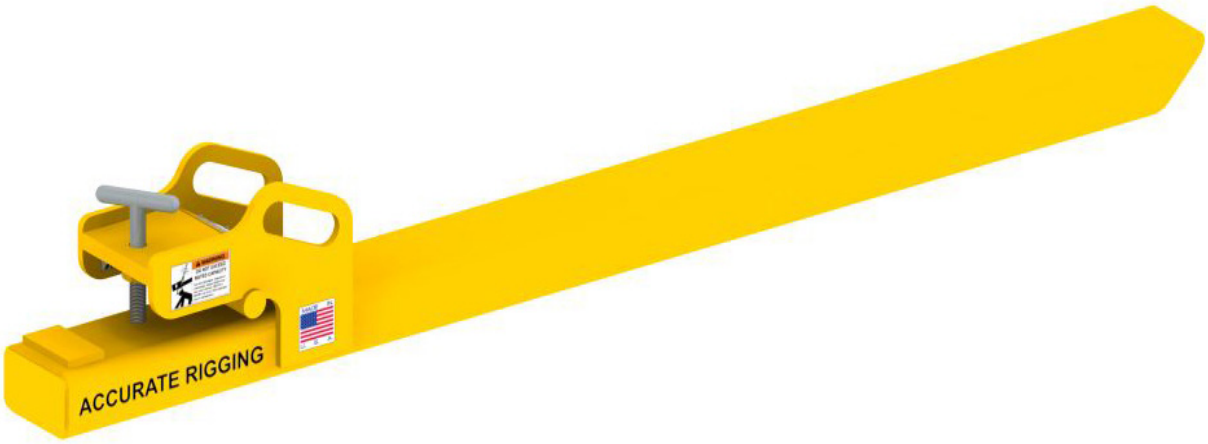


Model Number	Capacity (lbs)	Dimensions (in.)									Weight (lbs.)
		Arbor Hole		Min. Barrel ID	Max. Flange Thick.	A	B	C	D	E	
		Min.	Max.								
RUL00500	500	1-1/4”	2”	5-1/2”	2”	5/16”	15/16”	1-1/16”	5”	9”	4.5
RUL03000	3,000	2”	4”	10”	3”	11/16”	1-3/4”	2-5/16”	8-1/2”	15-1/4”	7.7
RUL06000	6,000	3”	5”	13”	4”	11/16”	1-3/4”	2-1/16”	11”	17-5/8”	21
RUL11000	11,000	5-1/2”	6”	16”	5”	15/16”	2-3/4”	2-3/4”	14”	22-1/2”	32

Bucket Forks

MADE IN USA

Model BFC - Clamp-On Bucket Forks

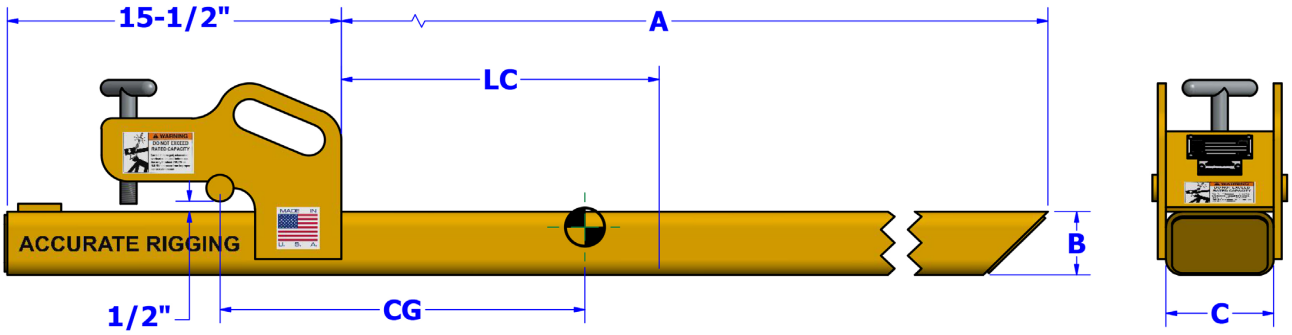


Standard Features:

- Easily turns your loader into a fork lift.
- No welding required!
- Slip onto lip of bucket, tighten bolt, and ready to lift.
- Fits almost any solid blade bucket with a tip of less than 1/2" thick*.
- Lightweight design.
- Handles make installation and removal fast & easy.
- Saves time & money.
- Painted Safety Yellow for Visibilty
- Made in USA
- Proof Loaded & Certified
- RFID Chip Equipped



RFID Equipped



Model Number	Caqpacity Per Pair (lbs)	Dimensions (in.)					Weight Per Pair (lbs.)
		LC	A	B	C	CG	
BFC01900	1,900	18"	36"	2"	3"	10-5/16"	108
BFC02500	2,500	21"	42"	2"	4"	13-13/16"	157
BFC05500	5,500	24"	48"	3"	5"	16-15/16"	225

Sold only in Pairs
*** Will not work on buckets with teeth**

Bucket Hooks

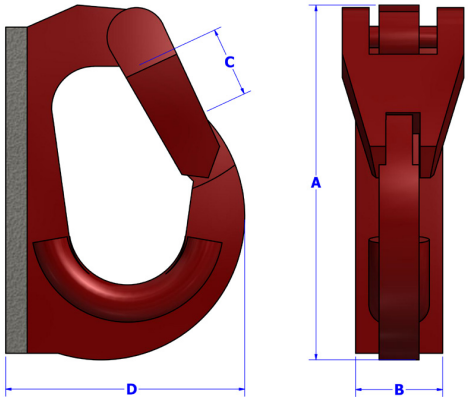
MADE IN USA

Model BHW - Weld-On Bucket Hooks



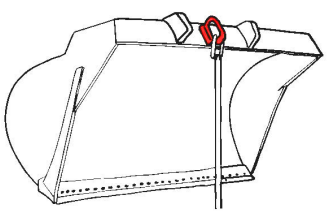
Standard Features:

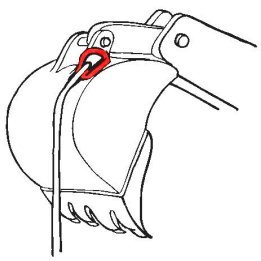
- Forged Alloy Steel.
- Designed for attachment to mobile lifting equipment to provide a pick point for easy sling attachment.
- Large weld pad.
- Heavy duty latch interlocks with the hook tip.
- Replacement latches available.
- Detailed welding installation and application instructions included with each hook.
- Made in USA
- Proof Loaded & Certified



Model Number	Rated Capacity (lbs)	Dimensions (in.)				Weight (lbs.)
		A	B	C	D	
BHW02200	**2,200**	4.21	1.02	.91	2.80	1.15
BHW04400	**4,400**	4.53	1.34	.91	3.58	1.85
BHW06600	**6,600**	5.16	1.42	1.14	4.13	2.60
BHW08800	**8,800**	5.79	1.69	1.34	4.49	4.19
BHW11000	**11,000**	6.81	1.73	1.34	5.24	5.62
BHW17600	**17,600**	7.01	2.05	1.38	5.31	7.28
BHW22000	**22,000**	8.74	2.13	1.93	6.61	11.02

Typical Applications





Hooks

MADE IN USA

Model AHP - Alloy Plate Hooks

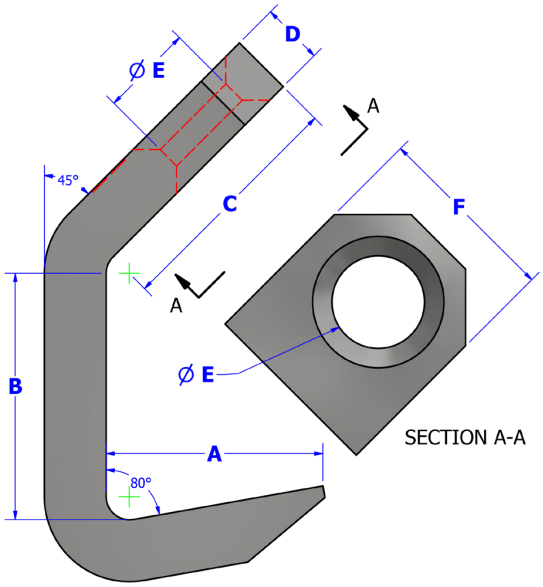


Standard Features:

- Designed to handle plate and sheet.
- Made from high strength Alloy Steel, heat treated.
- Available as individual components, or as part of a complete chain sling.
- Sold individually, but recommended to be used in pairs.
- Should never be used with sling angles less than 45 degrees to the load.
- Optional handles are available.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.



Typical Application





Model Number	Chain Size (In)	Working Load Limit (lbs)	Dimensions (in.)						Weight (lbs.)
			A	B	C	D	E	F	
PHA19	9/32”	3,500	2”	2-3/16”	2-1/16”	5/8”	7/8”	2”	2.21
PHA24	3/8”	7,100	2-5/8”	3”	2-15/16”	3/4”	1-1/8”	2-1/4”	4.07
PHA31	1/2”	12,000	3-1/2”	4”	3-7/8”	1”	1-1/2”	3”	9.56
PHA38	5/8”	18,100	4-3/8”	5”	4-7/8”	1-1/4”	1-7/8”	3-3/4”	18.90
PHA46	3/4”	28,300	5-3/16”	6”	5-7/8”	1-1/2”	2-1/4”	4-1/2”	32.60
PHA52	7/8”	34,200	6”	7”	6-15/16”	1-3/4”	2-5/8”	5-1/4”	51.70

Hooks

MADE IN USA

Model AHJ - Alloy J-Hooks

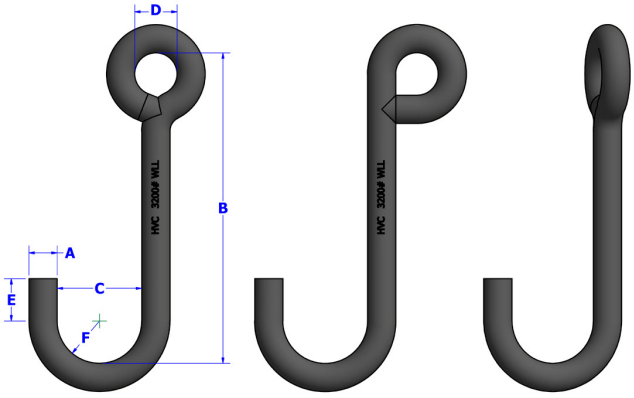


Standard Features:

- All eyes are welded.
- Made from high strength Alloy Steel, heat treated.
- Available as individual components, or as part of a complete chain sling.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on hook.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.

Custom Configurations are available.

When ordering, place the suffix A, B, or C after the model number to indicate the style of hook being ordered.



Style A Style B Style C

* Working Load Limit is based on a bearing-point-to-bearing-point load. Tip loading Working Load Limit averages only 30% of a bearing point loading.

Model Number	Working Load Limit* (lbs.)	Dimensions (in.)						Weight (lbs.)
		A	B	C	D	E	F (radius)	
AHJ1703	250	1/4”	3”	3/4”	3/4”	3/8”	3/8”	.10
AHJ2003	300	5/16”	3”	3/4”	3/4”	3/8”	3/8”	.15
AHJ2405	350	3/8”	5”	1-1/4”	1”	9/16”	5/8”	.33
AHJ2805	500	7/16”	5”	1-1/4”	1”	9/16”	5/8”	.46
AHJ3106	625	1/2”	6”	1-1/2”	1”	3/4”	3/4”	.69
AHJ3506	890	9/16”	6”	1-1/2”	1”	3/4”	3/4”	.89
AHJ3807	980	5/8”	7”	1-7/8”	1”	15/16”	15/16”	1.26
AHJ4608	1,400	3/4”	8-1/4”	2-1/4”	1-1/8”	1-1/8”	1-1/8”	2.14
AHJ5210	1,900	7/8”	10”	2-5/8”	1-1/4”	1-5/16”	1-5/16”	3.43
AHJ5511	2,500	1”	11”	3”	1-1/2”	1-1/2”	1-1/2”	5.06
AHJ5812	3,100	1-1/8”	12”	3-3/8”	1-1/2”	1-11/16”	1-11/16”	6.99
AHJ6014	3,900	1-1/4”	14”	3-3/4”	1-3/4”	1-7/8”	1-7/8”	9.88
AHJ6315	4,800	1-3/8”	15”	4”	1-3/4”	2-1/16”	2”	12.77
AHJ6616	5,600	1-1/2”	16”	4-1/2”	2”	2-1/4”	2-1/4”	16.57
AHJ6818	6,400	1-5/8”	18”	5”	2-1/2”	2-7/16”	2-1/2”	21.96
AHJ7120	7,600	1-3/4”	20”	5-1/4”	2-3/4”	2-5/8”	2-5/8”	27.83
AHJ7321	8,800	1-7/8”	21”	5-5/8”	2-3/4”	2-13/16”	2-13/16”	33.57
AHJ7622	10,000	2”	22”	6”	3”	3”	3”	40.51
AHJ7823	11,300	2-1/8”	23”	6-3/8”	3”	3-3/16”	3-3/16”	47.81
AHJ8124	12,600	2-1/4”	24”	6-3/4”	3-1/2”	3-3/8”	3-3/8”	57.13
AHJ8226	14,100	2-3/8”	26”	7-1/8”	3-1/2”	3-9/16”	3-9/16”	67.51
AHJ8328	15,600	2-1/2”	28”	7-1/2”	3-3/4”	3-3/4”	3-3/4”	79.81
AHJ8429	17,200	2-5/8”	29”	7-7/8”	4”	3-15/16”	3-15/16”	92.00
AHJ8530	18,900	2-3/4”	30”	8-1/4”	4”	4-1/8”	4-1/8”	104.50

Hooks

MADE IN USA

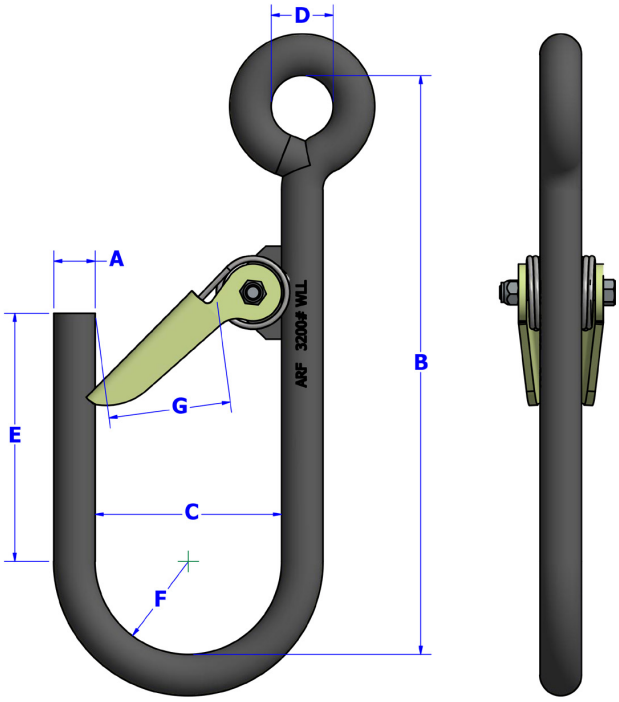
Model AHJL - Alloy Latching J-Hooks



Standard Features:

- All eyes are welded.
- Made from high strength Alloy Steel, heat treated.
- Available as individual components, or as part of a complete chain sling.
- Style “A” hook is standard, call for other configurations.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on hook.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.

Custom Configurations are available.



* Working Load Limit is based on a bearing-point-to-bearing-point load. Tip loading Working Load Limit averages only 30% of a bearing point loading.

Model Number	Working Load Limit (lbs)	Dimensions (in.)							Weight (lbs.)
		A	B	C	D	E	F	G	
AHJL1704	125	1/4”	4-1/2”	1-1/4”	3/4”	3/4”	5/8”	1-1/16”	.17
AHJL2406	365	3/8”	6”	1-1/2”	1”	1-5/8”	3/4”	1-1/16”	.47
AHJL3108	650	1/2”	8”	2”	1”	2”	1”	1-1/2”	1.06
AHJL3809	1,000	5/8”	9”	2-1/2”	1”	2-3/4”	1-1/4”	1-7/8”	1.82
AHJL4610	1,400	3/4”	10”	3”	1-1/4”	3-3/4”	1-1/2”	2-1/16”	3.17
AHJL5212	1,900	7/8”	12”	3-1/2”	1-1/4”	4-1/2”	1-3/4”	2-1/2”	5.01
AHJL5514	2,300	1”	14”	4-1/2”	1-1/2”	6”	2-1/4”	2-3/4”	8.40

Hooks

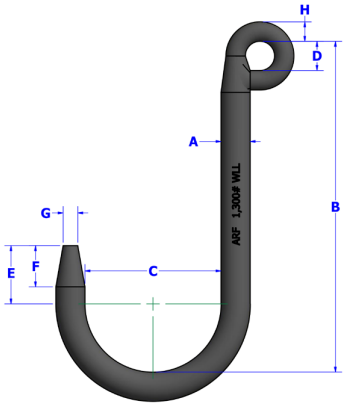
MADE IN USA

Model AHJF - Alloy Foundry Sorter J-Hooks



Standard Features:

- All eyes are welded.
- Made from high strength Alloy Steel, heat treated.
- Available as individual components, or as part of a complete chain sling.
- Style “A” hook is standard, call for other configurations.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on hook.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.



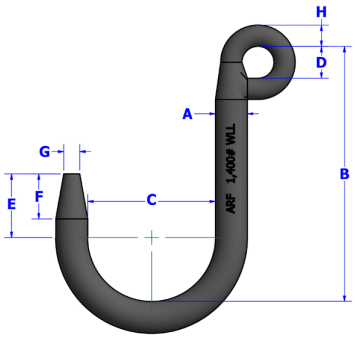
Model Number	Working Load Limit (lbs)	Dimensions (in.)								Weight (lbs.)
		A	B	C	D	E	F	G	H	
AHJF3106	500	1/2”	6”	3/4”	2-1/2”	3/4”	3/4”	1/4”	1/2”	.72
AHJF3808	800	5/8”	8-1/2”	3/4”	3-1/2”	1-1/2”	7/8”	5/16”	1/2”	1.39
AHJF4608	1,300	3/4”	8-1/2”	3/4”	3-1/2”	1-1/2”	1-1/16”	3/8”	1/2”	1.91
AHJF5208	1,600	7/8”	8-1/2”	7/8”	3-1/2”	1-1/2”	1-1/16”	1/2”	3/4”	2.95
AHJF5508	2,500	1”	8-1/2”	1”	4”	1-3/4”	1-7/16”	1/2”	3/4”	3.85
AHJF5808	3,500	1-1/8”	8-1/2”	1”	4”	2”	1-5/8”	9/16”	3/4”	4.80
AHJF6008	4,500	1-1/4”	8-1/2”	1-1/4”	4”	2”	1-3/4”	5/8”	1”	6.55
AHJF6608	6,000	1-1/2”	8-1/2”	1-1/4”	5”	2-1/2”	2-1/8”	3/4”	1”	9.65

Model AHJFS - Alloy Foundry Sorter J-Hooks - Short



Standard Features:

- Shorter reach than standard Foundry Sorter Hook.
- All eyes are welded.
- Made from high strength Alloy Steel, heat treated.
- Style “A” hook is standard, call for other configurations.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on hook.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.



Model Number	Working Load Limit (lbs)	Dimensions (in.)								Weight (lbs.)
		A	B	C	D	E	F	G	H	
AHJFS3106	450	1/2”	6”	3/4”	3”	3/4”	3/4”	1/4”	1/2”	.75
AHJFS3806	900	5/8”	6”	3/4”	3”	1-1/2”	7/8”	5/16”	1/2”	1.12
AHJFS4606	1,400	3/4”	6”	3/4”	3”	1-1/2”	1-1/16”	3/8”	1/2”	1.53
AHJFS5206	2,000	7/8”	6”	7/8”	3”	1-1/2”	1-1/16”	1/2”	3/4”	2.43
AHJFS5506	3,000	1”	6”	1”	3”	1-3/4”	1-7/16”	1/2”	3/4”	3.06
AHJFS5806	4,000	1-1/8”	6”	1”	3”	2”	1-5/8”	9/16”	3/4”	3.80
AHJFS6006	5,500	1-1/4”	6”	1-1/4”	3”	2”	1-3/4”	5/8”	1”	5.31

Hooks

MADE IN USA

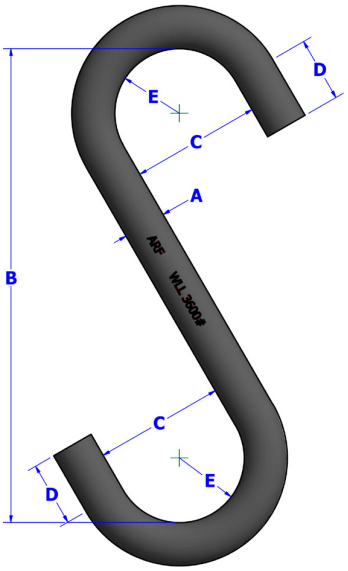
Model AHS - Alloy S-Hooks



Standard Features:

- Made from high strength Alloy Steel, heat treated.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on hook.
- Made in USA
- Proof Loaded & Certified

Custom Configurations are available.



* Working Load Limit is based on a bearing-point-to-bearing-point load. Tip loading Working Load Limit averages only 30% of a bearing point loading.

Model Number	Working Load Limit* (lbs.)	Dimensions (in.)					Weight (lbs.)
		A	B	C	D	E	
AHS1702	250	1/4"	2-3/4"	3/4"	3/8"	3/8"	.08
AHS2002	300	5/16"	2-3/4"	3/4"	3/8"	3/8"	.13
AHS2404	350	3/8"	4-1/8"	1-1/8"	9/16"	9/16"	.27
AHS2804	500	7/16"	4-1/8"	1-1/8"	9/16"	9/16"	.37
AHS3105	625	1/2"	5-1/2"	1-1/2"	3/4"	3/4"	.63
AHS3505	890	9/16"	5-1/2"	1-1/2"	3/4"	3/4"	.80
AHS3807	980	5/8"	7"	1-7/8"	15/16"	15/16"	1.24
AHS4608	1,400	3/4"	8-1/4"	2-1/4"	1-1/8"	1-1/8"	2.11
AHS5209	1,900	7/8"	9-5/8"	2-5/8"	1-5/16"	1-5/16"	3.36
AHS5511	2,500	1"	11"	3"	1-1/2"	1-1/2"	5.01
AHS5812	3,100	1-1/8"	12-1/8"	3-3/8"	1-11/16"	1-11/16"	7.05
AHS6013	3,900	1-1/4"	13-3/4"	3-3/4"	1-7/8"	1-7/8"	9.80
AHS6314	4,800	1-3/8"	14-7/8"	4-1/8"	2-1/16"	2-1/16"	12.90
AHS6616	5,600	1-1/2"	16-1/2"	4-1/2"	2-1/4"	2-1/4"	16.91
AHS6817	6,400	1-5/8"	17-7/8"	4-7/8"	2-7/16"	2-7/16"	21.50
AHS7119	7,600	1-3/4"	19-3/4"	5-1/4"	2-5/8"	2-5/8"	26.85
AHS7320	8,800	1-7/8"	20-3/4"	5-5/8"	2-13/16"	2-13/16"	33.14
AHS7622	10,000	2"	22"	6"	3"	3"	40.08
AHS7822	11,300	2-1/8"	22-3/4"	6-3/8"	3-3/16"	3-3/16"	47.35
AHS8123	12,600	2-1/4"	23-7/8"	6-3/4"	3-3/8"	3-3/8"	55.92
AHS8225	14,100	2-3/8"	25-1/2"	7-1/8"	3-9/16"	3-9/16"	66.00
AHS8327	15,600	2-1/2"	27-1/2"	7-1/2"	3-3/4"	3-3/4"	78.29
AHS8429	17,200	2-5/8"	29"	7-7/8"	3-15/16"	3-15/16"	90.85
AHS8530	18,900	2-3/4"	30"	8-1/4"	4-1/8"	4-1/8"	104.69

Links

MADE IN USA

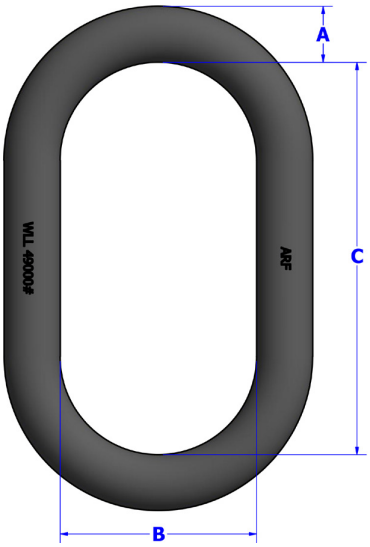
Model AMO - Alloy Oblong Link



Standard Features:

- Made from high strength Alloy Steel, heat treated.
- Welded Construction.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on link.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.

Custom Sizes are available.

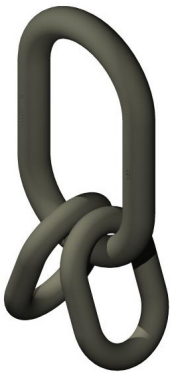


Model Number	Working Load Limit (lbs.)	Dimensions (in.)			Weight (lbs.)
		A	B	C	
AMO240204	2,200	3/8”	2”	4”	.36
AMO310305	5,000	1/2”	2-1/2”	5”	.80
AMO380306	6,100	5/8”	3”	6”	1.51
AMO460205	12,300	3/4”	2-3/4”	5-1/2”	2.07
AMO520307	14,200	7/8”	3”	7”	3.44
AMO550307	20,800	1”	3-1/2”	7”	4.71
AMO580408	26,900	1-1/8”	4”	8”	6.79
AMO600409	31,300	1-1/4”	4-3/8”	8-3/4”	9.20
AMO660510	49,000	1-1/2”	5-1/4”	10-1/2”	15.90
AMO710612	73,500	1-3/4”	6”	12”	24.80
AMO760714	88,900	2”	7”	14”	37.70
AMO810816	125,200	2-1/4”	8”	16”	54.35
AMO830816	147,200	2-1/2”	8”	16”	68.95
AMO850916	187,800	2-3/4”	9”	16”	85.76
AMO870918	194,900	3”	9”	18”	112
AMO880918	210,400	3-1/4”	9”	18”	136
AMO890918	235,400	3-1/2”	9”	18”	162
AMO900920	280,600	3-3/4”	9”	20”	199
AMO910920	337,400	4”	9”	20”	230
AMO921224	319,800	4-1/4”	12”	24”	309
AMO931224	376,900	4-1/2”	12”	24”	350
AMO941428	384,700	4-3/4”	14”	28”	448
AMO951530	419,600	5”	15”	30”	529
AMO96	482,900	5-1/4”	15”	30”	588
AMO97	521,700	5-1/2”	16”	32”	685
AMO98	593,000	5-3/4”	16”	32”	764
AMO99	604,200	6”	18”	36”	922

Links

MADE IN USA

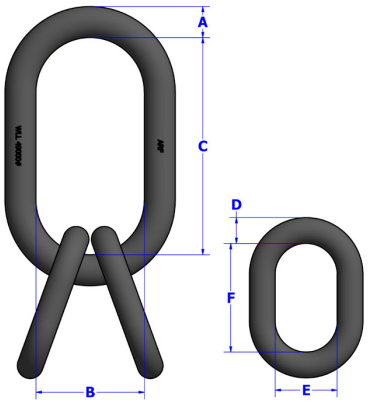
Model AMS - Alloy Sub-Assembly



Standard Features:

- Made from high strength Alloy Steel, heat treated.
- Welded Construction.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on link.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.

Custom Sizes are available.



Model Number	Working Load Limit (lbs.)	Chain Size	Dimensions (in.)						Weight (lbs.)
			A	B	C	D	E	F	
AMS310305	5,500	7/32”	1/2”	2-1/2”	5”	3/8”	7/8”	1-1/2”	1.28
AMS460205	9,100	9/32”	3/4”	2-3/4”	5-1/2”	1/2”	1-1/4”	2”	2.85
AMS550307	18,400	3/8”	1”	3-1/2”	7”	3/4”	1-1/2”	3”	7.79
AMS600409	31,200	1/2”	1-1/4”	4-3/8”	8-3/4”	7/8”	2”	3-1/4”	15.90
AMS660510	47,000	5/8”	1-1/2”	5-1/4”	10-1/2”	1-1/4”	3”	5-1/4”	28.86
AMS710612	73,500	3/4”	1-3/4”	6”	12”	1-1/2”	3-1/2”	6-1/4”	46.06
AMS760714	88,900	7/8”	2”	7”	14”	1-3/4”	4”	7”	67.77
AMS810816	123,900	1”	2-1/4”	8”	16”	1-7/8”	4”	7”	94.37
AMS850916	187,800	1-1/4”	2-3/4”	9”	16”	2-1/4”	4-1/2”	8”	149
AMS870918	208,000	1-1/2”	3”	9”	18”	2-1/4”	5”	9”	181

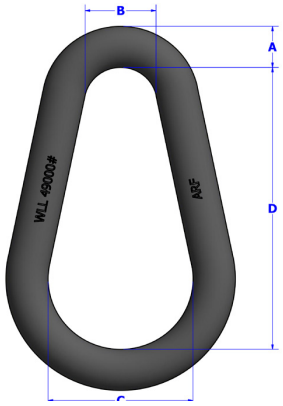
Model AMP - Alloy Pear Link



Standard Features:

- Made from high strength Alloy Steel, heat treated.
- Welded Construction.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on link.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.

Custom Sizes are available.



Model Number	Working Load Limit (lbs.)	Dimensions (in.)				Weight (lbs.)
		A	B	C	D	
AMP31010205	5,500	1/2”	1-1/4”	2-1/2”	5”	.77
AMP46010306	12,300	3/4”	1-1/2”	3”	6”	2.14
AMP55020408	20,800	1”	2”	4”	8”	5.07
AMP60020408	31,300	1-1/4”	2”	4”	8”	8.20
AMP66030510	49,000	1-1/2”	3”	5-1/4”	10-1/2”	15.35
AMP71030612	59,200	1-3/4”	3”	6”	12”	23.83
AMP76030714	82,600	2”	3-1/2”	7”	14”	36.20
AMP81040816	125,200	2-1/4”	4”	8”	16”	52.23
AMP85040916	187,800	2-3/4”	4-1/2”	9”	16”	82.36

Links

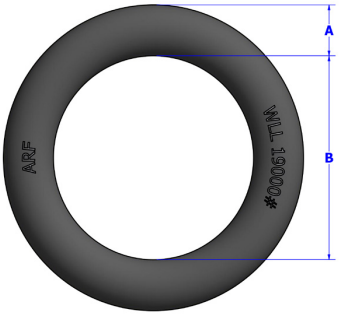
MADE IN USA

Model AMR - Alloy Ring



Standard Features:

- Made from high strength Alloy Steel, heat treated.
- Welded Construction.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on link.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.



Custom Sizes are available.

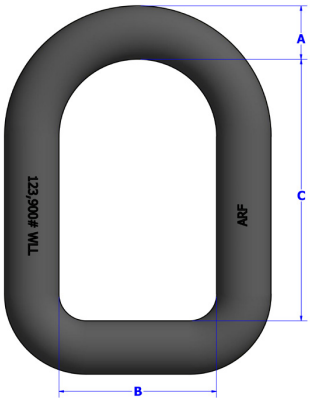
Model Number	Working Load Limit (lbs.)	Dimensions (in.)		Weight (lbs.)
		A	B	
AMR3103	3,900	1/2”	3”	.61
AMR3804	4,900	5/8”	4”	1.26
AMR4604	8,600	3/4”	4”	1.87
AMR5204	13,200	7/8”	4”	2.61
AMR5504	19,000	1”	4”	3.49
AMR6005	24,000	1-1/4”	5”	6.83
AMR6606	37,000	1-1/2”	6”	11.81
AMR7107	49,000	1-3/4”	7”	18.75
AMR7608	60,000	2”	8”	28.00
AMR8109	67,500	2-1/4”	9”	39.85
AMR8310	83,500	2-1/2”	10”	54.67
AMR8512	94,000	2-3/4”	12”	78.06

Model AMD - Alloy D-Link



Standard Features:

- Made from high strength Alloy Steel, heat treated.
- Welded Construction.
- Finish is shot-blasted with a rust inhibitor.
- Working Load Limit stamped on link.
- Made in USA
- Proof Loaded & Certified
- Can be optionally equipped with an RFID Chip.



Custom Sizes are available.

Model Number	Working Load Limit (lbs.)	Dimensions (in.)			Weight (lbs.)
		A	B	C	
AMD710610		1-3/4”	6”	10”	23.31
AMD760610		2”	6”	10”	31.05
AMD780610		2-1/8”	6”	10”	35.39
AMD810611		2-1/4”	6-1/2”	11”	43.20
AMD830612		2-1/2”	6-1/2”	12”	57.06
AMD850916		2-3/4”	9”	16”	90.28

Personnel Basket

MADE IN USA

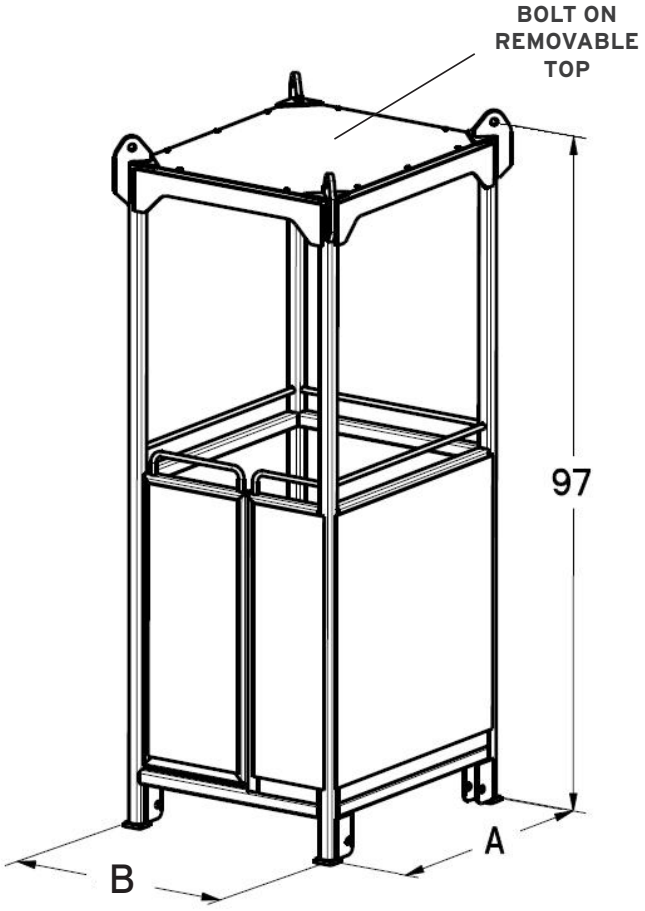
M&W MACHINING & WELDING

SUSPENDED PERSONNEL BASKET

with optional Test Weight and Suspension Rigging

SUSPENDED PERSONNEL BASKET WITH OPTIONAL TEST WEIGHT AND SUSPENSION RIGGING

- Painted safety yellow for increased visibility.
- **ALL** Personnel Baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Lifting point shackles included with suspension rigging.



Personnel Basket

MADE IN USA

M&W MACHINING & WELDING

PERSONNEL BASKET

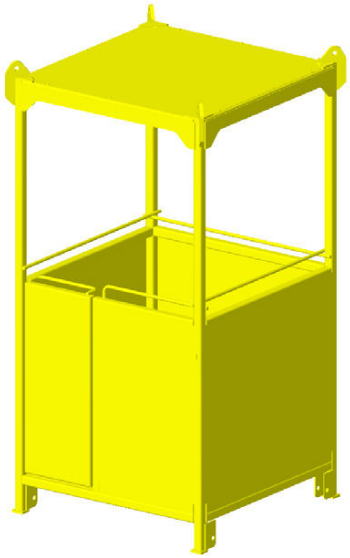
with optional Test Weight and Suspension Rigging

PERSONNEL BASKET WITH OPTIONAL TEST WEIGHT AND SUSPENSION RIGGING

- Meets or exceeds ASME B30.23 specifications.
- **EACH** personnel basket individually load tested with inspection and OSHA certification paperwork included.
- Sides enclosed with solid metal to the intermediate rail.
- Grab rail on entire perimeter.
- Non-slip, diamond plate steel floor.
- Inward swing, self-closing locking access door. Heavy-duty hinge and latch standard on all models.
- Guardrail system complies with OSHA 29 CFR Part 1926.1431(e)6 and 1926.1431(e)7.
- Permanent identification/data plate standard on all models.
- Product liability insurance certificate available upon request.
- Solid, removable roof design is standard on all models - keeps weather off personnel to comply with OSHA 1926.1431(e)10.
- Permanent tie-off points for materials and tools to comply with OSHA 1926.1431(e).
- Lifting point shackles not included.

OPTIONAL EQUIPMENT

- Pin-on, removable test weight.
- 4 Leg Suspension Bridle with Bolt-Type anchor shackles.



				OPTIONAL EQUIPMENT		
Capacity in Pounds*	Basket Part Number	Weight	Size A x B	Test Weight Part Number	Test Weight Quantity	4 Leg Suspension Bridle Part Number
500	**14347**	735	40" x 34"	**14369**	1	**15189**
1,000	**12741**	945	48" x 48"	**12748**	1	**15189**
1,500	**12757**	1200	72" x 48"	**12766**	1	**15190**
2,000	**12755**	1525	94" x 48"	**12748**	2	**15191**

* Call for specifications on larger sizes and capacities

Personnel Basket

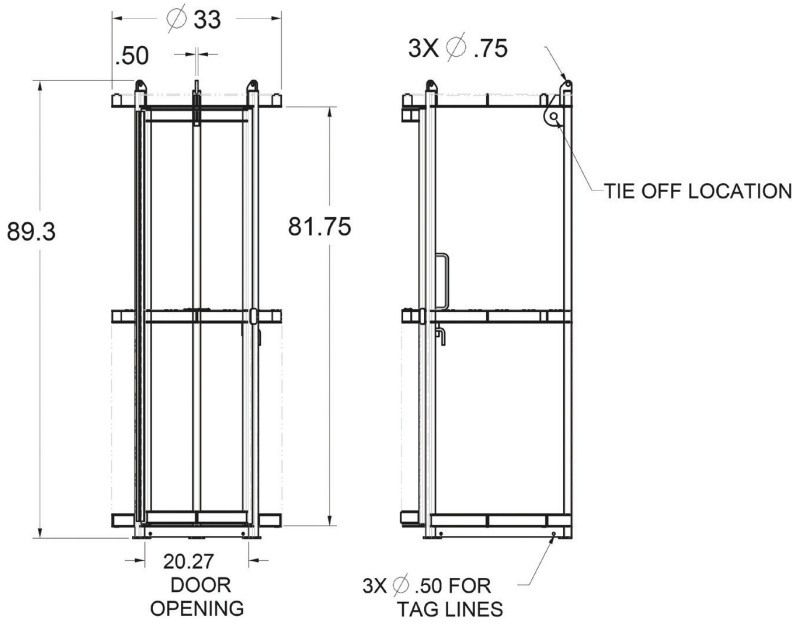
MADE IN USA

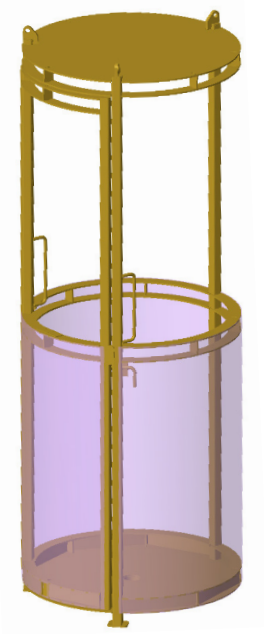
M&W MACHINING & WELDING

SUSPENDED ROUND PERSONNEL BASKET
with optional Test Weight

SUSPENDED ROUND PERSONNEL BASKET WITH OPTIONAL TEST WEIGHT

- Painted safety yellow for increased visibility.
- **ALL** Personnel Baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Lifting point shackles not included.





Capacity in Pounds*	Basket Part Number	Weight	Outside Diameter
500	**16465**	550	33"

* Call for specifications on larger sizes and capacities

OPTIONAL EQUIPMENT	
Test Weight	**15729**
3-leg suspension rigging bridle with Bolt-Type anchor shackles	**19514**

Fabrication

Personnel Basket

MADE IN USA

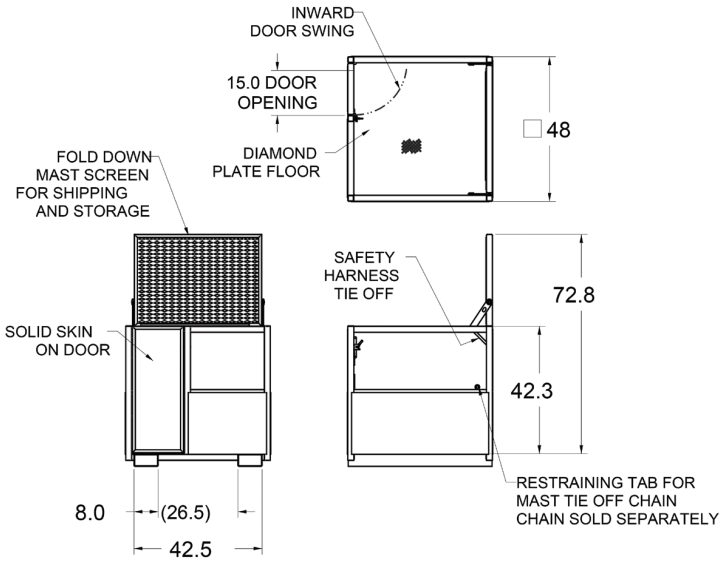
M&W MACHINING & WELDING

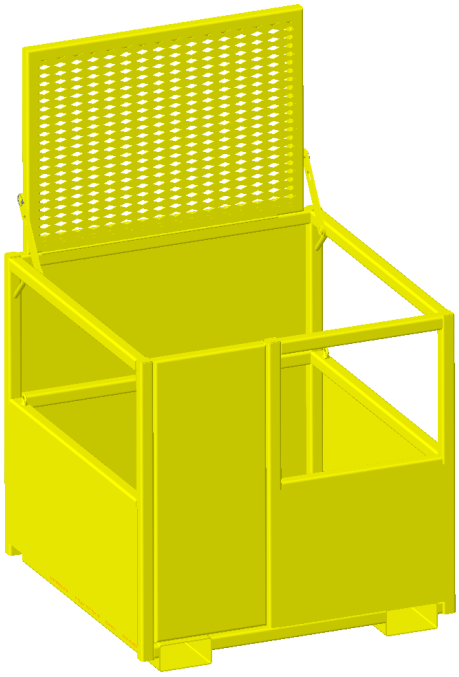
PERSONNEL BASKET

Heavy Duty Fork Personnel Basket

FORK PERSONNEL BASKET

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for increased visibility.
- **ALL** material handling equipment proof loaded and shipped with certification paperwork.
- Inward swing, self-closing locking access door.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- MUST be tied to forklift during use.





Part Number	Capacity in Pounds	Weight in Pounds
20988	1,000	775

OPTIONAL MAST TIE OFF CHAIN:

Part Number	
20410	Mast Tie Off Chain - 8' Long

Material Baskets

MADE IN USA

M&W MACHINING & WELDING

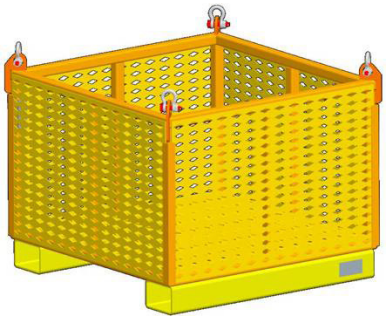
MATERIAL BASKETS WITH FIXED SIDES

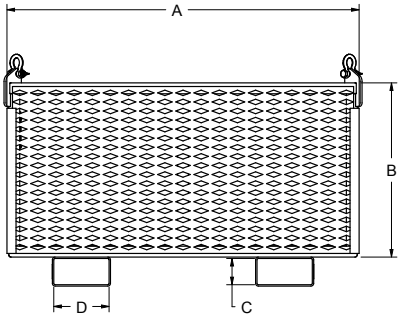
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for resistance to corrosion.
- **ALL** material baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Pick from lifting points with top rigging.
- Made in U.S.A.
- Custom designs available - call for engineering.

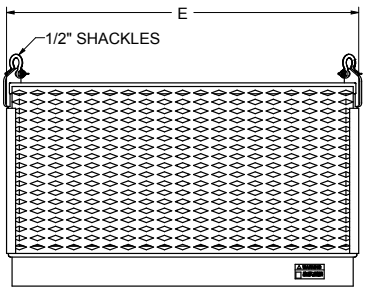
NOT INTENDED FOR PERSONNEL LIFTING.

Capacity in Pounds*	Part Number	A	B	C	D	E	Weight	Includes Shackles
2,500	**11827**	36	24	4.0	6.0	36	320	1/2"
2,500	**11829**	48	24	4.0	8.0	48	360	1/2"
2,500	**16006**	60	24	4.0	8.0	60	450	1/2"

* Call for specifications on larger sizes and capacities







Material Baskets

MADE IN USA

M&W MACHINING & WELDING

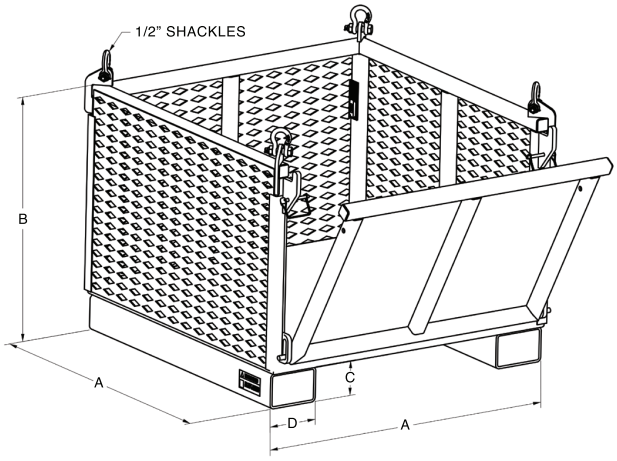
MATERIAL BASKET WITH DROP SIDE

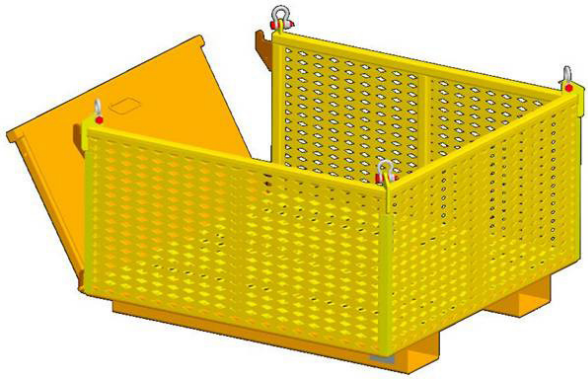
- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for resistance to corrosion.
- **ALL** material baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Pick from lifting points with top rigging.
- Made in U.S.A.
- Custom designs available - call for engineering.

NOT INTENDED FOR PERSONNEL LIFTING.

Capacity in Pounds*	Part Number	A	B	C	D	Weight	Includes Shackles
2,500	**12902**	48"	28"	3.6"	7.6"	410	1/2"
2,500	**17594**	36"	28"	3.6"	7.6"	400	1/2"

*** Call for specifications on larger sizes and capacities**





Material Baskets

MADE IN USA

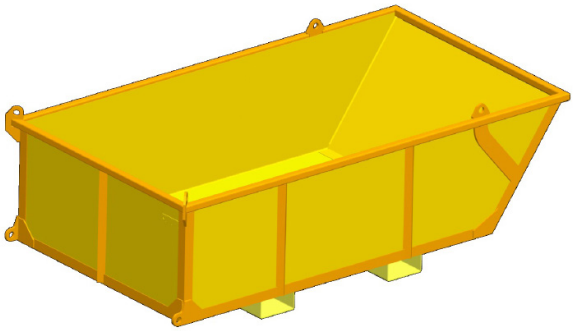
M&W MACHINING & WELDING

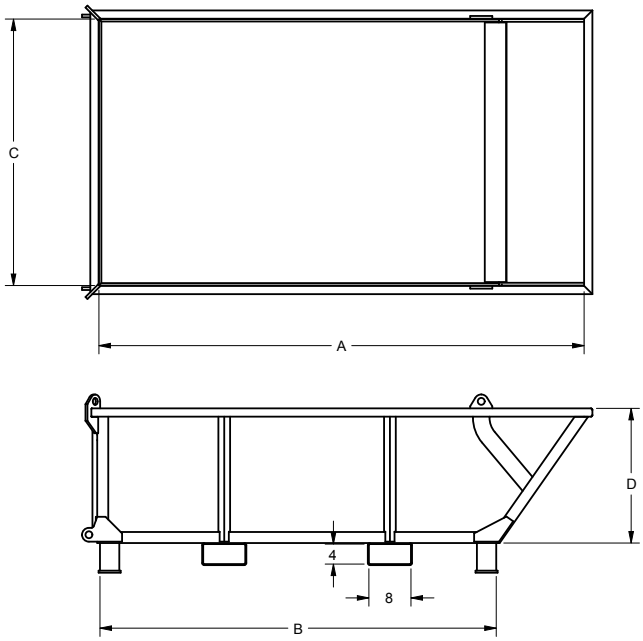
MATERIAL BASKETS

Fixed Side Material Baskets

MATERIAL BASKETS WITH FIXED SIDES

- Manufactured to exceed all ASME B30.20 and OSHA regulations.
- Painted safety yellow for resistance to corrosion.
- **ALL** material baskets shipped with proof load certification paperwork.
- Durable construction ideally suited to jobsite or warehouse use.
- Made in U.S.A.
- Custom designs available - call for engineering. **NOT INTENDED FOR PERSONNEL LIFTING**.
- **Not water tight**





Capacity in Pounds*	Part Number	A	B	C	D	Weight
2,500	**11857**	87	72	48	24	700
4,000	**15211**	96	81	48	24	720

* Call for specifications on larger sizes and capacities

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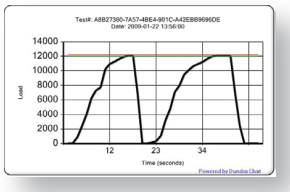
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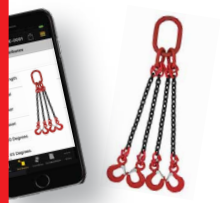
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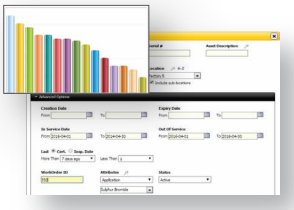
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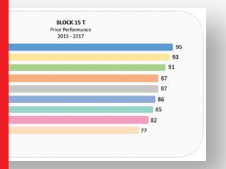
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