Lifting Products

Flexibility is the key to carrying a complete line of lifting products. Our 55-plus years of experience has exposed us to just about every lifting challenge possible. If you need it done to your exact specifications, we are your supplier of choice.

We provide a complete line of lifting products from some of the industry’s best manufacturers, such as the Crosby Group, Gunnebo Johnson, JC Renfroe, Schmalz and Power Team...just to name a few. Product lines include a wide range of Overhead Crane Blocks, Wire Rope Sheaves, Ergonomic Material Handling Equipment, Lifting Clamps and Hydraulics. Besides carrying these complete product lines, we offer crane block and plate clamp repair services.
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380 Series Hook Blocks

The patented McKissick Split-Nut® is the standard retention system for standard crane blocks up to 100 tons.

- Wide range of product available.
- Capacity: 5 to 300 tons – Larger Models Available.
- Sheave Sizes: 10” to 30”.
- Wire Line Sizes: 7/16” to 1-3/8”.
- Manufactured by an ISO 9001 and API Q1 certified facility.
- All single point shank hooks are genuine Crosby®, forged alloy steel, Quenched and Tempered, and have the patented QUIC-CHECK® markings (Duplex hooks are available on all sizes).
- All 380 Blocks are furnished standard with Roller Bearings.
- Reeving Guide Standard – All Models.
- Blocks thru 25 tons use 319N style hooks with S-4320 latches.
- Sheaves lubrication through center pin – separate lube channel to each bearing.
- Sheave fully protected by side plates.
- Dual action hook (swings and rotates).
- Repair parts available through world wide distribution network.
- Design Factor of 4 to 1 (unless otherwise noted).
- All 380 blocks, 16” and larger, are furnished with McKissick® Roll-Forged™ sheaves with flame hardened grooves.
- “Look for the Orange Hook…the mark of genuine McKissick® quality”.

Dead End Chart—Double, Triple & Quad Sheave Blocks

<table>
<thead>
<tr>
<th>Wire Rope Size</th>
<th>Dimensions (in.)</th>
<th>Recommended Wedge Socket McKissick® US-422 / US-422T Utility Socket</th>
</tr>
</thead>
<tbody>
<tr>
<td>in.</td>
<td>T Thickness</td>
<td>U Hole Diameter</td>
</tr>
<tr>
<td>7/16</td>
<td>1.00</td>
<td>1.28</td>
</tr>
<tr>
<td>1/2</td>
<td>1.00</td>
<td>1.28</td>
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<tr>
<td>9/16</td>
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<td>3/4</td>
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<tr>
<td>7/8</td>
<td>1.25</td>
<td>1.66</td>
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<tr>
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<tr>
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<td>2.56</td>
</tr>
<tr>
<td>1-1/4</td>
<td>1.75</td>
<td>2.56</td>
</tr>
</tbody>
</table>

† US-422T Terminator Style.

Options Available:
- Bronze Bushed Sheaves
- Duplex Hooks
- Swivel Tee and Shackle Assemblies
- Sheave Shrouds
- Anti Rotation Hook - Locking Device
- Plate Steel Cheek Weights
- Third party testing with Certification available upon request.
380 Series Hook Blocks

Thickness (E) shown is for blocks containing cheek weights (Light Medium - LM, Medium - M, and Heavy - H). The thickness (E) for non weighted blocks (Light - L) is measured over side plates.

**Note:** See The Crosby Group at www.thecrosbygroup.com for dimensional data. Look for the McKissick block section.

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**WARNING** SEE WARNING INFORMATION ON PAGES 522 - 525.

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381—Single

382—Double

383—Triple

384—Quad
380 Series Hook Blocks

Thickness (E) shown is for blocks containing cheek weights (Light Medium - LM, Medium - M, and Heavy - H). The thickness (E) for non weighted blocks (Light - L) is measured over side plates.

Note: See The Crosby Group at www.thecrosbygroup.com for dimensional data. Look for the McKissick block section.

385—Quintuple

386—Sextuple

387—Suptuple

388—Octuple
380 Series Easy Reeve® Hook Blocks

The patented McKissick Split-Nut® is the standard retention system for standard crane blocks up to 100 tons.

- Wide range of product available.
- Capacity: 5 to 80 tons - Larger Models Available.
- Sheave Sizes: 10” to 20”.
- Wire Line Sizes: 7/16” to 1-1/4”.
- All single point shank hooks are genuine Crosby®, forged alloy steel, Quenched and Tempered, and have the patented QUIC-CHECK® markings (Duplex hooks are available on most sizes).
- Design factor of 4 to 1 (unless otherwise noted).
- All Easy Reeve® Blocks are furnished standard with Roller Bearings.
- Reieving Guides Standard – All Models.
- Blocks thru 25 tons use 319N hooks with S-4320 latches.
- Heavy Duty Positive Locking (PL) Latch – Models: 30 tons and larger.
- Sheave lubrication through center pin - separate lube channel to each bearing.
- Sheaves fully protected by side plates.
- Dual action hook (swings and rotates).
- Repair parts available through world wide distribution network.
- All Easy Reeve® blocks, 16” and larger, are furnished with McKissick® Roll-Forged™ sheaves with flame hardened grooves.
- Manufactured by an ISO 9001 and API Q1 certified facility.
- “Look for the Orange Hook...the mark of genuine McKissick® quality”.

WARNING

SEE WARNING INFORMATION ON PAGES 522 - 525.

Options Available:
- Duplex Hooks
- Swivel Tee and Shackle Assemblies
- Sheave Shrouds
- Anti Rotation Hook - Locking Device
- Plate Steel Cheek Weights
- Third party testing with Certification available upon request.

Center “Dead End” to promote better block travel under various reeving configurations.

Sheave Guards that open to allow block reeving without removing the rope end fitting.

Flat Bottom side plate for self standing during reeving process.

Forged Crosby® alloy steel hooks with patented QUIC-CHECK® markings and Heavy Duty positive locking hook latch.

Dead End Chart—Double, Triple & Quad Sheave Blocks

<table>
<thead>
<tr>
<th>Wire Rope Size</th>
<th>Dimensions (in.)</th>
<th>Recommended Wedge Socket McKissick® US-422 / US-422T Utility Socket</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T Thickness</td>
<td>U Hole Diameter</td>
</tr>
<tr>
<td>in.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/16</td>
<td>1.00</td>
<td>1.28</td>
</tr>
<tr>
<td>1/2</td>
<td>1.00</td>
<td>1.28</td>
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<tr>
<td>9/16</td>
<td>1.00</td>
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<td>5/8</td>
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<td>3/4</td>
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<td>2.56</td>
</tr>
<tr>
<td>1-1/4</td>
<td>1.75</td>
<td>2.56</td>
</tr>
</tbody>
</table>


J Henry Holland
Phone: 757-460-3300
www.jhenryholland.com

Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com

Tennessee Sling Center
Phone: 901-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com

KCI Crane Service
Phone: 205-345-4701
www.kcicraneservice.com
McKissick® Split-Nut Retention System

Crosby®—Real Life Solutions:

Innovative McKissick® Split-Nut Retention System Makes Inspection Easier.

Shank hooks on crane blocks must be inspected in accordance with applicable ASME B30, CSA Z150 and other crane standards. These standards mandate the crane hook to be inspected for surface indications, damage and corrosion, which could compromise the integrity of the crane block. Because of the type of environment in which these hooks are required to perform, the removal of corroded nuts from the threads can become a problem during inspections. The innovative patented* Split-Nut Retention System featured on McKissick® crane blocks makes inspection easier. With 4 easy steps, the hook can be disassembled, inspected and put back into service in a fraction of the time of a conventional threaded nut.

The Split-Nut is available upon request for McKissick® Easy Reeve® crane blocks up to 100 tons.

- Allows for easy inspection as required by ASME B30, CSA Z150 and other crane standards
- Eliminates conventional threaded nut and problems associated with the nut removal for inspection.
- Allows repeated installation and removal without risk of damage to hook / nut interface.
- Zinc-plated finish for corrosion resistance
- Replacement hook and trunnion assemblies available for selected McKissick® 380, or Easy Reeve® and 790 blocks with threaded hooks.

The new patented* Split-Nut can be purchased in a variety of configurations that can be used to retrofit the following McKissick® blocks in the field or in the shop.

- More than 80 tons and larger crane blocks upon request
- Bridge crane blocks
- 80 Series tubing blocks

In addition, the Split-Nut can be used to replace existing hooks on existing crane blocks currently in the field (most manufacturers makes and models) and on special designed lifting equipment.
381-SY Scrap Handling Blocks

- All single point shank hooks are genuine Crosby®, forged alloy steel, Quenched and Tempered, and have the patented QUIC-CHECK® markings.
- Durable — Allows longer continuous duty cycle.
- Can be used with magnet and drop ball.
- Single sheave design.
- Dual action hook (Swings and Rotates).
- Utilize McKissick® Roll-Forged™ sheaves with flame hardened grooves.
- Furnished standard with Bronze Bushed Sheaves.
- Optional Tapered Roller Bearings.
- All sizes are RFID EQUIPPED.

<table>
<thead>
<tr>
<th>Tons</th>
<th>in.</th>
<th>in.</th>
<th>lbs.</th>
<th>A</th>
<th>B</th>
<th>E</th>
<th>F</th>
<th>H</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
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<tr>
<td>S15S16L</td>
<td>2014810</td>
<td>15</td>
<td>16</td>
<td>9/16, 5/8, 3/4, 7/8</td>
<td>285</td>
<td>37.16</td>
<td>34.19</td>
<td>6.34</td>
<td>22.75</td>
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<tr>
<td>S20S18L</td>
<td>2014812</td>
<td>20</td>
<td>18</td>
<td>5/8, 3/4, 7/8, 1</td>
<td>395</td>
<td>39.54</td>
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<td>6.84</td>
<td>24.75</td>
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<td>S25S20L</td>
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<td>25</td>
<td>20</td>
<td>3/4, 7/8, 1, 1-1/8</td>
<td>460</td>
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<td>39.19</td>
<td>6.84</td>
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<td>2.75</td>
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<td>24</td>
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<td>705</td>
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<td>46.81</td>
<td>7.84</td>
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<td>S40S24L</td>
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<td>24</td>
<td>7/8, 1, 1-1/8, 1-1/4</td>
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<td>56.81</td>
<td>50.75</td>
<td>7.84</td>
<td>30.75</td>
<td>3.38</td>
</tr>
</tbody>
</table>

* Ultimate Load is 4 times the Working Load Limit.

**Button Spelter Sockets**

- Available in six sizes from 1/2" to 1-1/2" (13 mm - 38 mm).
- Button Spelter terminations have a 100% efficiency rating, based on the catalog strength of the wire rope.
- Designed for use with mobile cranes. Can be used to terminate high performance, rotation resistant ropes and standard 6 strand ropes.
- Easy to install assembly utilizes Crosby® WIRELOCK® socketing compound.
- Sockets and buttons are re-usable.
- Replacement buttons and sockets are available.
- Locking feature available to prevent rotation of rope.
- Button contains cap with eye that can be attached to, and used to pull, rope during reeving process.
- All sizes are RFID EQUIPPED.
TU-480 / TU-481
High Capacity Snatch Blocks for Tilt-Up Wall Construction

- Wide Range of Sizes Available:
  - 30 and 60 Ton Capacity
  - 1" to 2-1/4" Wire Line Size
  - 16" to 24" Sheave Diameter
  - Larger Capacity Blocks available.
- Multiple Configurations Available:
  - Swivel Hook
  - Swivel Shackle
  - Tailboard
  - Upset Shackle
  - Fixed Shackle
- McKissick Roll-Forged Sheaves:
  - Flame Hardened Grooves
  - 30 Ton furnished with Roller Bearings
  - 60 Ton furnished with Tapered Roller Bearings with seals
- All sizes are RFID EQUIPPED.

### Working Load Limit

<table>
<thead>
<tr>
<th>Tons</th>
<th>Sheave Diameter</th>
<th>Wire Line Size</th>
<th>With Swivel Hook</th>
<th>With Swivel Shackle</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>in.</td>
<td>in.</td>
<td>TU-480 Stock No.</td>
<td>TU-480 Weight Each (lbs.)</td>
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<tr>
<td>30</td>
<td>16</td>
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<td>2108300</td>
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<td>30</td>
<td>16</td>
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<td>20</td>
<td>1</td>
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<td>2-1/4</td>
<td>2108630</td>
<td>450</td>
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</tbody>
</table>

* Ultimate Load is 4 times the Working Load Limit. Contact your Lifting Specialist for blocks up to 350 Tons.
**TU-482 / TU-483 / TU-484**  
High Capacity Snatch Blocks for Tilt-Up Wall Construction

- All sizes are RFID EQUIPPED.

<table>
<thead>
<tr>
<th></th>
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<tr>
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* Ultimate Load is 4 times the Working Load Limit. Contact your Lifting Specialist for blocks up to 350 Tons.
680 Construction Blocks

- Wide Range of product available.
- Capacity: 5 to 100 tons – Larger models available.
- Sheave sizes: 6” to 24” O.D.
- Wire Line Sizes: 3/8” to 1-1/4”
- Equipped with genuine Crosby® forged steel, Quenched and Tempered shackles that contain the patented QUIC-CHECK® markings.
- Design Factor of 4 to 1.
- All 680 Series Blocks are furnished standard with Bronze Bushings.
- All 680 blocks 16” and larger, are furnished with McKissick® Roll-Forged™ sheaves with flame hardened grooves.
- Sheaves are lubricated through center pin, with a separate lube channel to each bearing.
- Single sheave blocks have thimble dead end.
- Manufactured by an ISO 9001 and API Q1 Certified facility.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these blocks meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

Options Available:

- Roller bearing sheaves
- Hanger and Bolt Only models available
- Third party testing with certification
- Galvanized finish – Most models

Note: See The Crosby Group at www.thecrosbygroup.com for dimensional data. Look for the McKissick block section.
Featuring the McKissick® 750 Bridge Crane Block

The patented McKissick® QUIC-KIT® system is a revolutionary concept that provides you the ability to build a factory quality replacement bridge crane block where you need it, when you need it.

The QUIC-KIT® system provides the components needed to build up to 32 possible combinations of a 750 bridge crane block; all in one kit that can be easily assembled on site.

Features of the McKissick® QUIC-KIT® include:

- Reduced downtime — A replacement block can be assembled in minutes from kit components utilizing tools and assembly instructions provided in each kit.
- Multiple versions of two sheave blocks—Up to 32 possible block combinations are included in the 752 series block kit. Each kit contains three wire line sizes and two center pins with multiple sheave spacers.
- Adjustable sheave spacing in 1/2" increments—Center pin design gives you the ability to assemble the replacement block to meet your spacing requirement.
- The McKissick® QUIC-KIT® — Comes complete in a durable carrying case for easy transport and for storing components on the work site or warehouse.

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SEE WARNING INFORMATION ON PAGES 522 - 525.
BC-751 Single Sheave McKissick® Easy-Lift® Overhead Bridge Crane Blocks

- Wide range of product available (see tables below).
- Removable housing allows block to be reeved without complete disassembly.
- Bearing life and Design Factors meet:
  - ASME HST-4, Class H
  - CMAA 70 Class D
  - FEM9.511 Class 2m
  - ISO 4301.1 Class M5
- Adjustable sheave spacing in 1/2" increments (1/4" on 6-1/2 size).
- Sheave pitch diameter minimum of 16 times rope diameter on standard sizes.
- All single point shank hooks are genuine Crosby®, forged alloy steel, Quenched and Tempered, contain the patented QUIC-CHECK® markings and come with a world class latch that integrates with hook tip.
- U.S. Patent 7,255,330
- All sizes are RFID EQUIPPED.
- Sheave bearings are maintenance free and sealed for life (10,000 hrs.).
- Ability to attach optional anti two-block device.
- Available with shackle as lower connection point.
- Ultimate load is 5 times the Working Load Limit.

Key to McKissick® Easy-Line® Overhead Bridge Crane Blocks

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### Wire Line *

- **1/4"**
- 6.5 mm
- 5/16" 8 mm
- 3/8" 9 - 10 mm
- 7/16" 11 mm
- 1/2" 12 - 13 mm
- 9/16" 14 mm
- 5/8" 16 mm
- 3/4" 19 mm
- 7/8" 22 mm
- 1" 25 - 26 mm

* Additional wire sizes available

= Primary Wire Size

= Other Wire Line Sizes
BC-752 Double Sheave McKissick® Easy-Lift® Overhead Bridge Crane Blocks

- Wide range of product available (see tables below).
- Removable housing allows block to be reeved without complete disassembly.
- Bearing life and Design Factors meet:
  - ASME HST-4, Class H
  - CMAA 70 Class D
  - FEM 9.511 Class 2m
  - ISO 4301.1 Class M5
- Adjustable sheave spacing in 1/2" increments (1/4" on 6-1/2 size).
- Sheave pitch diameter minimum of 16 times rope diameter on standard sizes.
- All single-point shank hooks are genuine Crosby®, forged alloy steel, Quenched and Tempered, contain the patented QUIC-CHECK® markings and come with a world class latch that integrates with hook tip.
- U.S. Patent 7,255,330
- All sizes are RFID EQUIPPED.
- Sheave bearings are maintenance free and sealed for life (10,000 hrs.).
- Ability to attach optional anti two-block device.
- Available with shackle as lower connection point.
- Ultimate load is 5 times the Working Load Limit.

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* Additional wireline sizes available

- Primary Wire Size
- Other Wire Line Sizes
UB500 Top Swivel Overhaul Balls

- Sizes 4 tons through 10 tons available with Crosby’s S1316A “Positive Locking” SHUR-LOC® hook which may be used for lifting personnel. Meets OSHA Rule 1926.1431(g).
- Design Factor 4:1.
- The top swivel design on the UB500 assures the ball remains stationary if the wire line spins.
- The swivel incorporates a sealed roller thrust bearing together with a grease fitting for easy lubrication.
- Each ball can be equipped with the new McKissick® US-422T Wedge Socket which can be easily adjusted to fit various sizes of wire rope by changing the wedge (Ensure that correct wedge is used for selected wire rope size).
- All hooks used on UB500 Overhaul Balls (S320, S320N & S1316A) are forged from alloy steel. The S320 and S320N hooks come complete with latches.
- The S320 hook (PL latch) and the S320N hook (S4320 latch), with the proper latch attached, may be used for personnel lifting when secured with proper device (Bolt, nut and pin for the PL latch; Cotter pin for the S4320 latch). Meets OSHA Rule 1926.1431(g).

Overhaul Ball Assembly

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WARNING

- Sizes 4 tons through 10 tons available with Crosby’s S1316A “Positive Locking” SHUR-LOC® hook which may be used for lifting personnel. Meets OSHA Rule 1926.1431(g).
- Design Factor 4:1.
- The top swivel design on the UB500 assures the ball remains stationary if the wire line spins.
- The swivel incorporates a sealed roller thrust bearing together with a grease fitting for easy lubrication.
- Each ball can be equipped with the new McKissick® US-422T Wedge Socket which can be easily adjusted to fit various sizes of wire rope by changing the wedge (Ensure that correct wedge is used for selected wire rope size).
- All hooks used on UB500 Overhaul Balls (S320, S320N & S1316A) are forged from alloy steel. The S320 and S320N hooks come complete with latches.
- The S320 hook (PL latch) and the S320N hook (S4320 latch), with the proper latch attached, may be used for personnel lifting when secured with proper device (Bolt, nut and pin for the PL latch; Cotter pin for the S4320 latch). Meets OSHA Rule 1926.1431(g).

Both styles available with optional McKissick® Wedge Socket Assembly or S-421 TERMINATOR™ Wedge Socket

* Utilizes Crosby “N” style hooks with integrated latch. Replacement latch kit is S-4320. PL latch and S-4055 latch will not fit. Standard Crosby S-5 Thrust style swivels can not be used with UB500 Overhaul Balls.

Mazzella Lifting Technologies
Phone: 800-362-4601
www.mazzellalifting.com

Progressive Crane
Phone: 800-83-CRANE
www.progressivecrane.com

Mazzella Crane Service
Phone: 877-96-CRANE
www.mazzellacraneservice.com

Indusco Wire Rope & Supplies
Phone: 410-727-0665
www.induscowire.com
UB-550E Top Swivel Overhaul Balls with Crosby Eye Hook

Top swivel design assures that the ball remains stationary if the wire line spins.

- Available in a variety of configurations:
  - 4 & 7 Ton capacities
  - 85, 150 & 200 lb. weights (ball only)
  - Crosby S-320AN Eye Hook or S-1316 SHUR-LOC® Hooks.
- Utilize genuine forged Crosby hooks, bail and connector.
- Quenched and Tempered
- Both styles of hooks incorporate patented QUIC-CHECK® markings forged into the product which address two QUIC-CHECK® features:
  - Deformation Indicators and Angle Indicators.
- Easy disassembly for periodic inspection and maintenance.

UB-550S Top Swivel Overhaul Balls with SHUR-LOC® Eye Hook

* Ultimate Load is 4 times the Working Load Limit.

**WARNING** SEE WARNING INFORMATION ON PAGES 522 - 525.

UB-550E Top Swivel Overhaul Balls with Crosby Eye Hook

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UB-550S Top Swivel Overhaul Balls with SHUR-LOC® Eye Hook

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Angular Contact Bearing Swivel Overhaul Balls

- Utilize genuine Crosby hooks which are forged alloy steel, Quenched and Tempered and contain the patented QUIC-CHECK® marking.
- Entire overhaul ball is zinc plated to resist corrosion.
- Designed with angular contact bearings which maximize efficiency, reliability and service life of swivel, and extend the life of the wire rope.
- Available with wide jaw opening that utilizes nylon spools and shields.
- Designed for applications where headroom is critical.
- Other upper fittings available upon request.

**WARNING**
SEE WARNING INFORMATION ON PAGES 522 - 525.

![Angular Contact Bearing Swivel Overhaul Balls](image)

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<th>Dimensions (in.)</th>
<th>Weight Each (lbs.)</th>
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* Ultimate Load is 5 times the Working Load Limit.

Split Overhaul Ball

- Attaches easily to Wire Rope.
UB500 Series
Non-Swiveling
Overhaul Balls

- Sizes 4 tons through 10 tons available with Crosby's S1316A "Positive Locking" SHUR-LOC® hook which may be used for lifting personnel. Meets OSHA Rule 1926.1431(g).
- Design Factor 4:1.
- Each ball can be equipped with the new McKissick® US-422T Wedge Socket which can be easily adjusted to fit various sizes of wire rope by changing the wedge (Ensure that correct wedge is used for selected wire rope size).
- All hooks used on UB500 Overhaul Balls (S320, S320N & S1316A) are forged from alloy steel. The S320 and S320N hooks come complete with latches.
- The S320 hook (PL latch) and the S320N hook (S4320 latch), with the proper latch attached, may be used for personnel lifting when secured with proper device (Bolt, nut and pin for the PL latch; Cotter pin for the S4320 latch). Meets OSHA Rule 1926.1431(g).

Key to McKissick® UB500 Utility Overhaul Ball Model Number

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Wedge Socket Assembly

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Both styles available with optional McKissick® Wedge Socket Assembly

WARNING
SEE WARNING INFORMATION ON PAGES 522 - 525.
### 418 / 419 / 404 Snatch Blocks

**New Improved Light Champion**

- Forged alloy heat treated hooks.
- Forged steel swivel tees, yokes and shackles.
- Hook and shackle assemblies on 4-1/2" through 14" sizes can be interchanged.
- Can be furnished with bronze bushings or roller bearings.
- Opening feature permits insertion of rope while block is suspended from gin-pole.
- 3" thru 18" 418 and 419 blocks have exclusive bolt retaining spring to assure no lost bolts.
- Can be furnished with 5-4320 hook latch.
- Pressure lube fittings.
- 3" - 10" feature dual rated wireline sheaves.
- Fatigue rated.
- 4-1/2" and larger are RFID EQUIPPED.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load and temperature requirements. Importantly, these blocks meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

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*Ultimate Load is 4 times the Working Load Limit.
**Available in Bronze Bushed only. 3" and 4-1/2" have self lubricating Bronze Bushing.
†Fitted with 1-1/4" ID Swivel Eye.
‡May be furnished in other rope sizes.

**Note:** When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing, and wire rope size.

**Note:** Tail Board does not contain the spool that is required with the hook (418) and shackle (419) snatch blocks.

### WARNING

SEE WARNING INFORMATION ON PAGES 522 - 525.
### 420 / 421 / 406 Snatch Blocks

#### Champion

- Hooks and side plates are forged alloy steel and heat treated.
- Shackles and yokes are forged and heat treated steel.
- All parts are forged.
- Side plates are designed to eliminate possibility of rope jamming.
- Can be furnished with bronze bushings or sealed roller bearings.
- Opening feature permits insertion of rope while block is suspended from gin-pole.
- Can be furnished with S-4320 hook latch.
- Pressure lube fittings.
- Hook and shackle assemblies can be interchanged.
- Blocks furnished with dual rated wireline sheaves.
- Fatigue Rated.
- All sizes are RFID EQUIPPED.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load and temperature requirements. Importantly, these blocks meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

#### Specifications

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<th>Stock No.</th>
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* Ultimate Load is 4 times the Working Load Limit.
† May be furnished in other Wire Rope sizes.

**Note:** When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing, and wire rope size.

**Note:** Tail Board does not contain the spool that is required with the hook (420) and shackle (421) snatch blocks.

---

**J Henry Holland**
Phone: 757-460-3300
www.jhenryholland.com

**Alabama Sling Center**
Phone: 205-744-0230
www.alabamaslingcenter.com

**Tennessee Sling Center**
Phone: 901-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com

**KCI Crane Service**
Phone: 205-345-4701
www.kcicraneservice.com

---

**WARNING**

SEE WARNING INFORMATION ON PAGES 522 - 525.
### 430 / 431 / 407 Snatch Blocks

**Super Champion**

- Drop forged, heat treated swivel hook or swivel shackle.
- Hook and shackle assemblies on 8” through 14” sizes can be interchanged.
- Can be furnished with bronze bushings or roller bearings.
- Pressure lube fittings.
- 430 and 431 blocks have exclusive bolt retaining spring to assure no lost bolts.
- Can be furnished with hook latch.
- 8” and 10” models furnished with dual rated wireline sheaves.
- Fatigue Rated.
- All sizes are RFID EQUIPPED.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load and temperature requirements. Importantly, these blocks meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

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* Ultimate Load is 4 times the Working Load Limit.
† May be furnished in other Wire Rope sizes.

**Note:** When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing, and wire rope size.

**Note:** Tail Board does not contain the spool that is required with the hook (420) and shackle (421) snatch blocks.
408 / 409
Snatch Blocks

Light Champion Double Sheave

- Light champion snatch block as a double sheave block.
- Drop forged swivel hook or swivel shackle.
- Can be furnished with bronze bushings or roller bearings.
- Opening feature permits easy insertion of wire rope in both sheaves with removal of one bolt.
- Can be furnished with S-4320 hook latch.
- Pressure lube fittings.
- 4-1/2" - 10" models furnished with dual rated wireline sheaves.
- Fatigue Rated.
- All sizes are RFID EQUIPPED.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load and temperature requirements. Importantly, these blocks meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

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* Ultimate Load is 4 times the Working Load Limit.
† Available in Bronze Bushed only.
‡ May be furnished in other Wire Rope sizes.

Note: When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing, and wire rope size.
416 / 417 / 402
Alloy Snatch Blocks

All Alloy Snatch Blocks

- Entire block made from heat treated alloy steel. Use of heat treated alloy gives block only 60% of the weight of blocks of comparable capacities.
- Available with a bronze bushed or roller bearing sheaves.
- Easy opening feature of “Champion” blocks retained.
- Hook and shackle assemblies can be interchanged.
- Pressure lube fittings.
- Can be furnished with S-4320 hook latch.
- Blocks furnished with dual rated wireline sheaves.
- Fatigue Rated.
- All sizes are RFID EQUIPPED.
- Meets or exceeds all requirements of ASME B30.26, including identification, ductility, design factor, proof load and temperature requirements. Importantly, these blocks meet other critical performance requirements, including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

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* Ultimate Load is 4 times the Working Load Limit.
† May be furnished in other wire rope sizes.

Note: When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing, and wire rope size.

Note: Tail board does not contain the spool that is required with the hook (416) and shackle (417) snatch blocks.
HF-1 / HF-2
Hay Fork Pulleys with Swivel Hook or Swivel Eye

- Forged steel eyes and hooks.
- Available Painted or Zinc-Plated.
- One piece pressed steel shells.
- Edges well rounded to prevent chaffing of rope.
- Can be furnished with SS-4055 hook latch.
- Furnished with roller bearings.
- Pressure lube fittings.

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* Ultimate Load is 4 times the Working Load Limit.
171 Tong Blocks

- Steel sheaves with roller bearings and pressure lubrication.
- Forged steel eyes and hooks.
- Easy opening feature shown available in 8" size only.

443 Lay Down Blocks

- All steel construction, steel sheaves mounted on antifriction bearings, grooved for maximum of 3/4" wire line.
- Used to lay down drill pipe.
- Hook made to fit into end of drill pipe, handy dead end becket for returning block – hooks have handle for disengagement.

---

**WARNING**

SEE WARNING INFORMATION ON PAGES 522 - 525.

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**Sheave Diameter (in.)** | **Block No.** | **171 Stock No.** | **Working Load Limit (Tons) *** | **Wire Rope Size (in.)** | **Weight Each (lbs.)** | **Connection**
--- | --- | --- | --- | --- | --- | ---
6 | TB-1 | 171012 | 1 | 3/4 | 11 | Swivel Eye
8 | TB-1 | 1710578 | 1 | 3/4 | 12 | Swivel Eye
10 | TB-1 | 171101 | 2-1/2 | 3/4 | 30 | Swivel Eye
12 | TB-1 | 171156 | 2-1/2 | 3/4 | 35 | Swivel Eye

* Ultimate Load is 4 times the Working Load Limit.

---

**Sheave Diameter (in.)** | **Block No.** | **443 Stock No.** | **Working Load Limit (Tons) *** | **Wire Rope Size (in.)** | **Weight Each (lbs.)** | **Type Block**
--- | --- | --- | --- | --- | --- | ---
4-1/2 | 443 | 171414 | 1/4 | 1/2 | 12 | Regular
6 | 443 | 171432 | 1/2 | 3/4 | 17 | Regular

* Ultimate Load is 4 times the Working Load Limit.
M-491 / G-491
Tower / Derrick Hoist Blocks

New design provides the dependability of standard McKissick® Snatch Blocks, along with features that make it perfect for the challenging needs of Tugger Hoist and Tower Erection applications.

- A wide variety of configurations:
  - 4, 8, 12, 15, 25 or 30 metric ton capacity
  - 3/8", 7/16", 1/2", 9/16", 5/8", 7/8", 1" and 1-1/4" wire line sizes
  - Painted or Galvanized finish
- 8" and 10" blocks furnished with dual rated wireline sheaves.
- Forged steel swivels, tees, yokes and shackles are Quenched & Tempered.
- Sheave lubrication through center pin for easy maintenance.
- Design factor of 4 to 1.
- All blocks 14" and larger are furnished with McKissick® Roll Forged™ sheaves with flame hardened grooves.
- Recessed sideplate design reduces the gap between the sheave rim and the sideplate, allowing the sheave assembly to be captured in the block if loss of center pin occurs.
- Sealed tapered roller bearings extend the life of the center pin and bearings, and allows for faster line speeds than recommended with standard snatch blocks.
- Shackle fitting swivels for easy positioning.

Suitable for hoisting personnel, contingent upon all employees, including the winch operator, being trained to follow any applicable Federal, local and industry standards.

- Tugger / Derrick applications: API RP54
- Tower applications: OSHA directive CPL 2-1.36
- Holes through side plates are available for secondary block securement device.
- Manufactured by an API Q1 Certified facility.
- Type Approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes.
- All sizes are RFID EQUIPPED.

<table>
<thead>
<tr>
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<td>2021127</td>
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<td>2021154</td>
<td>2021163</td>
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<td>7/8</td>
<td>2021172</td>
<td>2021181</td>
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<td>16</td>
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<td>2021199</td>
<td>150</td>
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<td>1-1/8</td>
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<td>20</td>
<td>1-1/4</td>
<td>2023231</td>
<td>2023234</td>
<td>675</td>
</tr>
</tbody>
</table>

* Ultimate Load is 4 times the Working Load Limit.
70 Series Tubing Blocks

McKissick® Oilfield Tubing Blocks utilizing new Split Nut Retention System. Revolutionary new retention system eliminates conventional threaded nut and potential problems associated with thread corrosion.

- Exclusive E-Z opening guards, no bolts to pull out and lose. Feature gives fastest possible exposure of sheave cluster for quick reeving.
- Extremely short overall length, extra weight, excellent balance for fast non-wobbling falls.
- Extra large sealed sheave bearing diameters for fully rated capacities.
- Roller thrust bearing in hook.
- Duplex hook for easy elevator operation, locks in eight positions.
- Convenient rod hook clevis available.
- Completely streamlined, no projections.
- McKissick Roll-Forged, flame hardened sheaves, grooved for proper wire line size. Contact Crosby for additional wire line sizes.
- All sizes are RFID EQUIPPED.
- McKissick Split-Nut® hook parts precision machined and individually fitted for maximum performance.
- All blocks available with additional cheek weights.
- Manufactured to API-8A. Can be manufactured to API-8C specifications when requested at time of order.

70 Series

Also available with Rod Hook Clevis

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Block Config. *</th>
<th>Rod Hook Clevis WLL (lbs.)</th>
<th>Working Load Limit (Tons)</th>
<th>Wire Line Size (in.)</th>
<th>Weight Each (lbs.)</th>
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<td>30° 74-A **</td>
<td>45,000</td>
<td>150</td>
<td>1-1/8</td>
<td>4,462</td>
</tr>
</tbody>
</table>

* Spring loaded duplex hook assuring ample travel for efficient tubing operations.
  No load carrying threads.
** A = Rod Hook Clevis attachment standard.

WARNING | SEE WARNING INFORMATION ON PAGES 522 - 525.
**80 Series Tubing Blocks**

McKissick® Oilfield Tubing Blocks utilizing new Split Nut Retention System. Revolutionary new retention system eliminates conventional threaded nut and potential problems associated with thread corrosion.

- Exclusive E-Z opening guards, no bolts to pull out and lose. Feature gives fastest possible exposure of sheave cluster for quick reeving.
- Extremely short overall length, extra weight, excellent balance for fast non-wobbling falls.
- Extra large sealed sheave bearing diameters for fully rated capacities.
- Roller thrust bearing in hook.
- Duplex hook for easy elevator operation, locks in eight positions.
- Convenient rod hook clevis available.
- Completely streamlined, no projections.
- McKissick Roll-Forged, flame hardened sheaves, grooved for proper wire line size. Contact Crosby for additional wire line sizes.
- All sizes are RFID EQUIPPED.
- McKissick Split-Nut® hook parts precision machined and individually fitted for maximum performance.
- All blocks available with additional cheek weights.
- Manufactured to API-8A. Can be manufactured to API-8C specifications when requested at time of order.

---

### Stock No. Table

<table>
<thead>
<tr>
<th>Stock No.</th>
<th>Block Config.</th>
<th>Rod Hook Clevis WLL (lbs.)</th>
<th>Working Load Limit (Tons)</th>
<th>Wire Line Size (in.)</th>
<th>Weight Each (lbs.)</th>
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<tbody>
<tr>
<td>112130</td>
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<td>1</td>
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<td>112283</td>
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<td>117493</td>
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<td>45,000</td>
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<td>150</td>
<td>1-1/8</td>
<td>4,130</td>
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</tbody>
</table>

** A = Rod Hook Clevis attachment standard.

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**WARNING**

See warning information on pages 522 - 525.

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**Also available with Rod Hook Clevis**

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**J Henry Holland**

Phone: 757-460-3300

www.jhenryholland.com

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**Alabama Sling Center**

Phone: 205-744-0430

www.alabamaslingcenter.com

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**Tennessee Sling Center**

Phone: 901-345-8918 (Memphis)

Phone: 423-634-9005 (Chattanooga)

www.tennesseeslingcenter.com

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**KCI Crane Service**

Phone: 205-345-4701

www.kcicraneservice.com

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491
### 475 / 477 Floor Well Logger's Blocks

- Alloy aluminum housing for maximum strength and minimum weight.
- Conductor cable ONLY is recommended for use with Well Logger's Blocks.
- For use in high speed well logging, perforating, etc.
- Extra large double row, pre-adjusted sealed tapered bearing.
- Quick opening pin for fast string-up, light weight for easy handling.

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### 476 Top Well Logger's Blocks

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#### Table: Sheave Diameter (in.), Block No., Floor Block Stock No., Working Load Limit (Tons) *, Conductor Cable Size (in.), Weight Each (lbs.), Connection

<table>
<thead>
<tr>
<th>Sheave Diameter (in.)</th>
<th>Block No.</th>
<th>Floor Block Stock No.</th>
<th>Working Load Limit (Tons) *</th>
<th>Conductor Cable Size (in.) †</th>
<th>Weight Each (lbs.)</th>
<th>Connection</th>
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</thead>
<tbody>
<tr>
<td>7</td>
<td>476</td>
<td>180075</td>
<td>2-1/2</td>
<td>5/16</td>
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<tr>
<td>10</td>
<td>476</td>
<td>180333</td>
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<td>5/16</td>
<td>21</td>
<td>Stinger Pin</td>
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<tr>
<td>12</td>
<td>476</td>
<td>180529</td>
<td>4</td>
<td>5/16</td>
<td>24</td>
<td>Stinger Pin</td>
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<tr>
<td>14</td>
<td>476</td>
<td>180707</td>
<td>4</td>
<td>5/16</td>
<td>43</td>
<td>Stinger Pin</td>
</tr>
</tbody>
</table>

* Ultimate Load is 4 times the Working Load Limit.
† Other cable sizes available upon request.
731 Crown Blocks

- McKissick Roll-Forged™ sheaves with flame hardened grooves.
- Double row pre-adjusted sealed tapered bearings mounted on a steel shaft.
- Heavy center and side plates for proper support of center pin.
- Pre-assembled units for rapid attachment to crown assembly for installation on derrick.
- On multiple sheave assemblies, one sheave can be grooved for sand line on request.
- Other sizes available upon request.
- Sheaves manufactured to API-8A specifications.

<table>
<thead>
<tr>
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<th></th>
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<td>15</td>
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<td>30</td>
<td>7/8</td>
<td>278</td>
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<td>45</td>
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<td>75</td>
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<td>350</td>
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<td>100</td>
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<td>175</td>
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</tbody>
</table>

* May be furnished in other wire rope sizes.

458 / 459 Guy Line Blocks

- Used on guy-lines to gain mechanical advantage through rapid take-up, taking less pull to guy down.
- Laser burned steel side plates, cold-finished steel pins, 6" steel sheaves.

<table>
<thead>
<tr>
<th>Sheave Diameter (in.)</th>
<th>Block No.</th>
<th>No. of Sheaves</th>
<th>Stock No.</th>
<th>Working Load Limit (Tons)</th>
<th>Standard Wire Rope Size (in.)</th>
<th>Weight Each (lbs.)</th>
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<tbody>
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<td>171619</td>
<td>5</td>
<td>1/2</td>
<td>21</td>
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<tr>
<td>6</td>
<td>458H</td>
<td>1</td>
<td>293067</td>
<td>8</td>
<td>9/16 - 5/8</td>
<td>25</td>
</tr>
<tr>
<td>6</td>
<td>459</td>
<td>2</td>
<td>171637</td>
<td>10</td>
<td>1/2</td>
<td>28</td>
</tr>
<tr>
<td>6</td>
<td>459H</td>
<td>2</td>
<td>239076</td>
<td>12</td>
<td>9/16 - 5/8</td>
<td>31</td>
</tr>
</tbody>
</table>

* May be furnished in other wire rope sizes.
**RJ Style Drilling Blocks**

- Capacities Available: 150, 250 and 350 Tons.
- Double row, pre-adjusted tapered bearings with seals.
- Blocks contain McKissick® Roll-Forged® sheaves with flame hardened grooves.
  - Grooves are API profile
  - Separate lubrication channel to each sheave.
  - Easy opening guards for quick string-up (no bolts to pull out and lose).
- Each hook block is fitted with position lock and swivel lock assemblies.
- Additional weights available upon request.
- Manufactured to the requirements of API 8C, including all documentation.
  - Each block is individually serialized for full traceability.
  - Furnished with Certificate of Conformance.
- All sizes are RFID EQUIPPED.
- Hook is spring loaded with hydraulic snubber.
- Minimum design temperature of -20°C (-4°F).
- Standard top coat finish is safety orange enamel.
  - Other paint colors and systems are available on request.
  - Individual parts are primer coated on exposed surfaces.
- Combination hook blocks have interchangeable parts with RJ Type McKissick® blocks built up to 1982.
  - Contact Crosby Customer Service for details.

### Model No. | RJ Block Stock No. | WLL (Tons) | Sheave Dia. (in.) | No. of Sheaves | Std. Wire Rope Size (in.) | Dimensions (in.) | Weight Each (lbs.)
---|---|---|---|---|---|---|---
864 | 2028185 | 150 | 30 | 4 | 1-1/8 | 117.03 | 103.52 | 89.03 | 32.50 | 20.25 | 30.00 | 2.38 | 3.00 | 20.00 | 2.00 | 4.25 | 6,490
865 | 2028194 | 150 | 36 | 4 | 1-1/8 | 121.62 | 108.12 | 93.62 | 38.50 | 22.00 | 36.00 | 2.38 | 3.00 | 20.00 | 2.00 | 4.25 | 8,460
866 | 2028203 | 150 | 36 | 5 | 1-1/8 | 121.62 | 108.12 | 93.62 | 38.50 | 26.75 | 36.00 | 2.38 | 3.00 | 20.00 | 2.00 | 4.25 | 9,650
868 | 2024318 | 250 | 36 | 5 | 1-1/8 | 129.44 | 115.19 | 100.56 | 38.00 | 24.25 | 36.00 | 3.75 | 3.25 | 19.75 | 1.88 | 4.00 | 10,500
869 | 2024317 | 250 | 42 | 5 | 1-1/8 | 135.44 | 121.19 | 106.56 | 44.00 | 24.25 | 42.00 | 3.75 | 3.25 | 22.00 | 2.50 | 4.00 | 12,700
870 | 2024301 | 350 | 42 | 5 | 1-1/4 | 147.50 | 132.50 | 113.50 | 44.00 | 24.25 | 42.00 | 3.75 | 3.25 | 22.00 | 2.50 | 4.00 | 12,700

*Additional wire rope sizes are available.*
RP Style Traveling Blocks

- Capacities Available: 250, 350, 500, 750 and 1000 Tons
- Double row, pre-adjusted tapered bearings with seals.
- Blocks contain McKissick® Roll-Forged™ sheaves with flame hardened grooves.
- Grooves are API profile.
- Separate lubrication channel to each sheave.
- Easy opening guards for quick string-up (no bolts to pull out and lose).
- Bail design to adapt to comparable capacity drilling equipment.
- Additional weights available upon request.
- Manufactured to the requirements of API 8C, including all documentation.
- Each block is individually serialized for full traceability.
- Furnished with Certificate of Conformance.
- Minimum design temperature of -20°C (-4°F).
- Standard top coat finish is safety orange enamel.
- All sizes are RFID EQUIPPED.
- Other paint colors and systems are available on request.
- Individual parts are primer coated on exposed surfaces.
- Block side plates can be drilled to adapt customer supplied equipment.
- Easy bail pin removal.

<table>
<thead>
<tr>
<th>RP Block Stock No.</th>
<th>WLL (Tons)</th>
<th>Sheave Dia. (in.)</th>
<th>No. of Sheaves</th>
<th>Std. Wire Rope Size (in.)</th>
<th>Dimensions (in.)</th>
<th>Weight Each (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>A  B  C  D  E  F  H  J  K  L  M</td>
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<td>1-1/8</td>
<td>74.00</td>
<td>63.00</td>
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<td>2032319</td>
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<td>42</td>
<td>5</td>
<td>1-1/8</td>
<td>80.00</td>
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<td>2029783</td>
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</table>

* Additional wire rope sizes are available.
R-Series
Utili-Sheave Blocks

Wide sheave, wide throat blocks. When your need is versatility: R-Series

RapidShip®

Skookum R-Series Utili-Sheave Blocks in-stock and ready to ship TODAY.

Only the Skookum R-Series offers both wide throat and Utili-Sheave. A wide throat makes it much easier to pull a variety of line, connecting links, or oversized line conditions. Wide manganese steel Utili-Sheaves work harder and last longer.

These blocks are the choice of operators for heavy-duty work. Built with no superfluous weight but a big reserve of strength and ruggedness.

Our RapidShip Program: In-stock and ready to ship.

- R-4 block has straight roller bearings.
- R-6, R-8, R-10 blocks have long life Timken Bearings.
- Yokes and yoke pins are forged and heat-treated alloy steel.
- Block Sides are the frame of the block. The unique shape fenders the rim of the sheave providing maximum protection from line jamming while minimizing weight, which are both critical to performance.
- Working loads from 5 tons to 9 tons.

Skookum blocks started in 1890 in the timber industry. “Skookum” — meaning “strong…best…powerful.”

Skookum R-Series Blocks with exclusive Utili-Sheave.

Utili-Sheave—Sheave tread optimized with a contour designed to readily pass a variety of line, connecting links, terminations to meet and exceed any of your special needs.

<table>
<thead>
<tr>
<th>Block Number</th>
<th>Sheave Size</th>
<th>Sheave Pin Size</th>
<th>Line Size</th>
<th>Weight</th>
<th>Working Load *</th>
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<tbody>
<tr>
<td>R-4</td>
<td>4 x 1 3/8</td>
<td>1.25</td>
<td>3/8&quot;</td>
<td>12 lbs.</td>
<td>10,000 lbs.</td>
</tr>
<tr>
<td>R-6</td>
<td>6 x 3</td>
<td>1.38</td>
<td>3/8&quot; to 1/2&quot;</td>
<td>30 lbs.</td>
<td>16,000 lbs.</td>
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<tr>
<td>R-8</td>
<td>8 x 3</td>
<td>1.38</td>
<td>1/2&quot; to 5/8&quot;</td>
<td>43 lbs.</td>
<td>16,000 lbs.</td>
</tr>
<tr>
<td>R-10</td>
<td>10 x 4</td>
<td>1.38</td>
<td>1/2&quot; to 5/8&quot;</td>
<td>50 lbs.</td>
<td>18,000 lbs.</td>
</tr>
</tbody>
</table>

* Ultimate strength is 5 times working load.

See WARNING INFORMATION ON PAGES 522 - 525.
Western Blocks

If today's technology was available over a century ago...This is the way Western Blocks would have been produced.

- Bolt style center pin with lock washer and staked nut
- No straps
- Laser burned side plates
- Every block permanently stamped with the following:
  - Working Load Limit
  - Block Size
  - Rope Size

<table>
<thead>
<tr>
<th>385 Wood Shell Manila Rope Snatch Blocks</th>
<th>301 - 302 - 303 Steel Shell Blocks for Manila Rope</th>
<th>261 - 262 - 263 Standard Steel Shell Blocks for Manila Rope</th>
</tr>
</thead>
<tbody>
<tr>
<td>New stock numbers</td>
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<td>Same stock numbers</td>
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<td>New higher working load limits</td>
<td>Same working load limits</td>
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</tr>
<tr>
<td>Painted or galvanized steel with</td>
<td>Same fittings available</td>
<td>Same fittings available</td>
</tr>
<tr>
<td>replaceable wood bumpers</td>
<td>Laser cut side plates</td>
<td>Laser cut side plates</td>
</tr>
<tr>
<td>Laser cut side plate opens for</td>
<td>Galvanized steel</td>
<td>Galvanized steel</td>
</tr>
<tr>
<td>insertion of rope.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Incorporates exclusive bolt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>retaining spring to assure no lost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>bolts, plus utilizes secondary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>retaining pin.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bronze bushed sheaves with</td>
<td></td>
<td></td>
</tr>
<tr>
<td>larger bearing diameter for</td>
<td></td>
<td></td>
</tr>
<tr>
<td>extended block life.</td>
<td></td>
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<tr>
<td>Lubricated center pin</td>
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<tr>
<td>10” and 12” sizes utilize steel</td>
<td></td>
<td></td>
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<th>411 - 412 - 413 Steel Shell Blocks for Synthetic Rope</th>
<th>261 - 262 5” Steel Shell Blocks for Wire Rope</th>
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<tr>
<td>Laser cut side plate opens for</td>
<td>Laser cut side plates</td>
<td>Laser cut side plates</td>
</tr>
<tr>
<td>insertion of rope.</td>
<td></td>
<td>Painted steel</td>
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<tr>
<td>- Incorporates exclusive bolt</td>
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<td>Galvanized steel</td>
</tr>
<tr>
<td>retaining spring to assure no lost</td>
<td></td>
<td>Grade 5 bolts secured with</td>
</tr>
<tr>
<td>bolts, plus utilizes secondary</td>
<td></td>
<td>lock washers and staked nuts</td>
</tr>
<tr>
<td>retaining pin.</td>
<td></td>
<td>Bronze bushed sheaves with</td>
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<td>Bronze bushed sheaves with</td>
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<td>Lubricated center pin</td>
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<td>10” and 12” sizes utilize steel</td>
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<th>21 - 22 - 23 Wood Shell Blocks for Manila Rope</th>
<th>641 - 642 Diamond Pattern &amp; 661 - 662 Oval Pattern Blocks</th>
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<th>Tennessee Sling Center</th>
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<td>Phone: 911-345-8050</td>
<td>Phone: 205-345-4701</td>
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</table>
**S-600-S**

**Horizontal Lead Blocks**

- Available painted or galvanized.
- Fitted with steel sheaves.
- Self Lubricated Bronze Bushed.

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</table>

* Ultimate Load is 4 times the Resultant Working Load Limit.

**G-601-S**

**Vertical Lead Blocks**

- Available painted or galvanized.
- Fitted with steel sheaves.
- Self Lubricated Bronze Bushed.

<table>
<thead>
<tr>
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* Ultimate Load is 4 times the Resultant Working Load Limit.

---

**WARNING**

SEE WARNING INFORMATION ON PAGES 522 - 525.

---
G-602-S
Flag Blocks

- Base plates are drilled.
- Available painted or galvanized.
- Fitted with steel sheaves.
- Self Lubricated Bronze Bushed.

<table>
<thead>
<tr>
<th>Sheave Dia. (in.)</th>
<th>600 Series Stock No.</th>
<th>Resultant Working Load Limit (Tons) *</th>
<th>Wire Rope Size (in.)</th>
<th>Weight Each (lbs.)</th>
<th>Dimensions (in.)</th>
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* Ultimate Load is 4 times the Resultant Working Load Limit.

S-603-S
Hinged Lead Blocks

- Base plates are not drilled.
- Available painted or galvanized.
- Self Lubricated Bronze Bearings.

<table>
<thead>
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<th>600 Series Stock No.</th>
<th>Resultant Working Load Limit (Tons) *</th>
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</table>

* Ultimate Load is 4 times the Resultant Working Load Limit.
Shorty “J” 
Crane Blocks

The Shorty “J” is one of today’s most popular crane blocks. And for good reason. The J-Block can be used with nearly all types of mobile cranes, truck cranes, overhead cranes, hydraulic and cable cranes. Another reason has to do with our customers, which fall into two basic categories: a global distributor network and leading crane manufacturers worldwide.

Finally, there is the outstanding combination of product advantages, which are inherent in the Shorty “J”.

Standard:
- 5 through 400-ton capacities
- 4 to 1 design factor
- 1 through 9 sheave models
- 10 through 30-inch sheave diameters
- Reeling guides, all models
- Heavy duty “J” latches – 3 through 300 tons
- Bronze bushed, roller bearing and tapered roller bearing sheaves
- Direct-channel sheave bearing lubrication through center pin
- Flame-hardened grooves on sheave sizes 16 inch diameter and up
- Dual-action (swing / swivel) roller thrust bearing hooks
- Forged steel hooks – 5 through 30 tons
- Cast alloy steel hooks – 40 through 800 tons
- Cast alloy steel duplex hooks - 80 through 450 tons
- Fully protective side plates
- Center plate and tie bolt containment of wire rope
- Total disassembly capability
- Stainless safety precautions plate
- Stainless WLL rating name plate with serial number
- Each crane block is serialized and stamped into the side plate
- A comprehensive packet of safety, warranty, care and maintenance information is attached to each Johnson product.

Optional:
- Forged steel hooks – 40 through 800 tons
- Cast alloy steel duplex hooks with J-latch standard on some models – 80 through 800 tons
- Forged steel duplex hooks
- Anti-rotation locking devices, all models
- Swivel safety anchor shackles, all models
- Sheave shrouds, all models
- Detachable cast iron cheek weights, all models
- Detachable steel plate cheek weights
- Pull test and Certification
- Radiograph, magnetic particle, and other non-destructive testing to specification designated by customer
- Shorty “J” represents the broadest line of standard crane blocks in the industry.
- In all, Gunnebo Johnson Corporation manufactures more than 1,500 models of crane blocks, not including options. To our customers, this means a better chance we’ll have exactly what the end-user requires.

Gunnebo Johnson’s Shorty “J” series includes a housing that enables the hook to swing, as well as swivel. This is just one of the reasons why the Shorty “J” is one of the easiest blocks in the field to use.

The construction of the Shorty “J” adds to its field convenience.

Gunnebo Johnson Corporation design makes allowance for inevitable maintenance. The construction of the J-Block is basically “pin and nut,” which means that it is capable of being either partially or wholly dismantled. All that is required to change out a hook, for example, is the removal of a single set screw or dual capscrews and hook nut. Even sheave replacement can be accomplished with only minor partial disassembly.

The design keeps the sheaves from coming into contact with anything but the center pin and wire rope. We accomplish this, in part, through the addition of center plates. It is these center separator plates which protect our sheaves, not only from frontal abuse, but from abrasive contact with one another.

Convenient and positive lubrication is assured for each sheave by way of the center pin.

With the Shorty “J”, we eliminate all disadvantages of sheave lubrication. First, because we lubricate through recessed grease fittings in the ends of the center pin. Secondly, because we lubricate each bearing individually by means of independent lube channels in the center pin.

Each crane block is serialized with its serial number stamped into the side plate.

A comprehensive packet of information pertaining to application and maintenance is attached to each block item shipped by Gunnebo Johnson Corporation.
Mobile Crane Blocks

Product Range:
- Capacity: 15 to 80 tons standard with higher capacities available
- Sheave sizes to 24" for up to 1-1/4" wire rope, 1 to 7 sheaves

Technical Features:
- Quick-reeving configuration with 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 is not required except under special circumstances. Lubrication via channels in the sheave pin is available. 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.

WARNING SEE WARNING INFORMATION ON PAGES 522 - 525.
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 1-3/4”

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

---

[Images of Hi-Lift Blocks]
ISO / Blocks

With the Miller ISO/Block™, exceptional performance also protects workers from high-voltage hazards. The ISO/Block integrates our Miller HI-LIFT block and Miller ISO/Link-AC into one assembly designed to protect workers in case of accidental boom or wire line contact with overhead power lines, which is the single leading cause of electrical injury in the workplace and an increasing area of focus of US workplace safety regulators. Also, very useful for isolation in in-plant operations or other hazardous locations.

**Electrical Protection:**
- Molded polymer insulation
- Weatherproof / durable
- Rated to 25,000 volts AC
- Tested at 50,000 volts AC
- Individually certified

**Mechanical Integrity:**
- Load ratings to 120 tons
- Design safety factors
  - ISO/Link, 5:1
  - Block, 4:1
  - ISO/Block, 4:1
- Unique interlocking plate construction

**Flexibility:**
- Available in a number of configurations and capacities
- Simple annual electrical certification test by Miller or by customer

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**WARNING**

SEE WARNING INFORMATION ON PAGES 522 - 525.
Top Swiveling Overhaul Ball Assemblies With Angular Contact Ball Bearings

Miller’s highest performance overhaul ball assemblies are uniquely equipped with Miller Y-Link angular contact ball bearing swivels for maximum response to wire rope movement and long term durability.

- Top swiveling—ball remains stationary if wire rope twists.
- Available with four upper fittings styles: clevis, eye, wedge and thimble.
- Overhaul weights to 1450 lbs. Special heavier weights and bottom swiveling are available.
- Working Loads from 3 to 35 tons for 5/8” to 1-1/2” wire rope.
- Easy, quick replacement of component parts—swivel replaced with appropriate standard Miller Y-Link model.
- Drop Forged alloy steel hook with safety latch.
- Design factor 5:1.
- **Note:** Type 5 (only) is a non-swiveling model.
Load Weighing Crane Block

Fast, accurate weight readings are essential requirements for a system to be efficient in the handling and transport of cargo.

The J.C. Renfroe Weighing Blocks are designed to fulfill these requirements.

The Weighing Block has the same configuration as a conventional block, but it incorporates a highly reliable load cell with a precision of +/- 0.1%. It has a digital display 1" (26 mm) tall for easy reading at a distance. It can be supplied with a larger display 1-3/4" or 2-3/8" (45 mm / 60 mm), or 5" (130 mm) digital display mounted on the crane.

Our Weighing Crane Block is the Best Safety Device On The Block!

<table>
<thead>
<tr>
<th>AGES</th>
<th>STANDARD</th>
<th>OPTIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct reading of the load weight, avoiding repeated trips to centrally located scales.</td>
<td>Interior use, normal environment</td>
<td>Interior use, severe environment.</td>
</tr>
<tr>
<td>No head room loss. Compact unit.</td>
<td>Digital screen 1, 1-3/4, or 2-3/8 inch (26, 45, 60 mm) (depending on size of block)</td>
<td>Heavy / Continuous duty rating.</td>
</tr>
<tr>
<td>Totally independent of crane system.</td>
<td>Remote control for functions, (ON/OFF, TARE)</td>
<td>Remote readout, wired or radio.</td>
</tr>
<tr>
<td>Precise load weighing, +/- 0.1% accurate.</td>
<td>TARE 100% of normal load.</td>
<td>Radio connection to computer or printer.</td>
</tr>
<tr>
<td>Electronic components are protected.</td>
<td>Totally independent, powered by batteries.</td>
<td>Task memory.</td>
</tr>
<tr>
<td>A failure of the load cell does not release the load, and does not affect the normal operation of the block.</td>
<td>Separate battery charger, (supplied only with units that have interchangeable batteries).</td>
<td>Continuous 110, 220 or 380V AC power supply.</td>
</tr>
<tr>
<td>Automatic weighing system.</td>
<td>24 hour battery life for display.</td>
<td>Max tension indicator.</td>
</tr>
<tr>
<td>Robust design, built for safety.</td>
<td>Indicator for low battery charge.</td>
<td></td>
</tr>
</tbody>
</table>

J Henry Holland
Phone: 757-460-3300
www.jhenryholland.com

Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com

Tennessee Sling Center
Phone: 901-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com

KCI Crane Service
Phone: 205-345-4701
www.kcicraneservice.com
Load Insulator®

The first of the NEW GENERATION
SMART insulating links!

The Load Insulator® is a highly engineered, high-performance, load bearing insulator designed to be fitted to the end of the crane’s load line.

It will insulate and protect personnel in contact with the load from electrocution in the event of the crane or load line contacting an overhead power line.

It’s internal ‘brain’ will perform a self-check every day to ensure that it remains a safe and reliable insulating device.

It offers a FIT & FORGET solution for power line safety.

The Load Insulator® meets or exceeds the requirements of the American National - ANSI 2737 - Standard in all tests.

WARNING
SEE WARNING INFORMATION ON PAGES 522 - 525.
Tagline Insulator®

The Personal Defense System

TAGLINE INSULATOR®

Any tag line rope will conduct high voltage electricity if it becomes contaminated or wet.

The TagLine Insulator from Insulatus is the world’s only insulating link specifically designed for use in a tag line rope.

It is designed to protect ground crew and riggers working with elevated loads and using tag line ropes in close proximity to live power lines.

Use it in the wet, the dirt, the cold, anywhere...

The TagLine Insulator® will protect whatever the conditions.
Standard Reeve Crane Blocks

- Available in 1, 2, 3, 4, 5 and 6 sheave configurations
- Capacities from 8 (metric tons) through 200 (metric tons)
- Wire rope sizes from 11 mm to 32 mm
- Contact your Lifting Specialist for additional specifications.

WARNING
SEE WARNING INFORMATION ON PAGES 522 - 525.

Fast Reeve Crane Blocks

- Available in 1, 2, 3, 4, 5 and 6 sheave configurations
- Capacities from 8 (metric tons) through 200 (metric tons)
- Wire rope sizes from 11 mm to 32 mm
- Contact your Lifting Specialist for additional specifications.

Snatch Blocks

- Available with shackle, ring and hook
- Capacities from 2 (metric tons) through 50 (metric tons)
- Wire rope sizes from 9/32" (7 mm) to 2" (32 mm)
- Available with roller bearing or bronze busing
- Contact your Lifting Specialist for additional specifications.
Snatch Blocks

All steel sheaves are fit with high efficiency, deep groove ball bearings for maximum efficiency, reduced friction, smooth motion, long life and high speed. Our precision sealed bearings stay lubricated, ensuring low maintenance.

Rope grooves are hardened during forming, increasing the life of sheave and rope.

The drop side is secured by a simple non-removable attachment with an additional “secure pin.” This design allows the rope to be installed and removed quickly and easily.

<table>
<thead>
<tr>
<th>Shackle Number</th>
<th>Hook Number</th>
<th>Sheave Diameter (in.)</th>
<th>Safe Working Limit (lbs.)</th>
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<td>SB-15004</td>
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<td>SB-20008</td>
<td>HB-20008</td>
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<td>SB-25010</td>
<td>HB-25010</td>
<td>9.84</td>
<td>20,000</td>
</tr>
<tr>
<td>SB-30012</td>
<td>HB-30012</td>
<td>11.8</td>
<td>24,000</td>
</tr>
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<td>SB-35522</td>
<td>HB-35522</td>
<td>14</td>
<td>44,000</td>
</tr>
</tbody>
</table>

WARNING

SEE WARNING INFORMATION ON PAGES 522 - 525.

Jeamar Winches

Single Swivel Directional Blocks

Jeamar steel sheaves are precision-made from the highest quality fine-grain steel. They're tough, hassle free and they last longer.

The strength of the steel used by Jeamar considerably exceeds that of cast iron. Steel also has a weight-saving advantage of up to 50 percent over cast iron, resulting in easier handling and installation.

Jeamar fits its steel sheaves with high-efficiency, deep-groove, double ball bearings, for maximum efficiency, reduced friction, smooth motion, long life and high speed.

Jeamar steel sheaves ensure that the shape of your rope is maintained under normal load conditions.

With a minimum sheave-to-rope ratio of 15:1, the rope’s bending stress is reduced for longer life.

Rope grooves are hardened during forming, increasing the life of sheave and rope.

Precision sealed, bearings stay lubricated ensuring low maintenance.

Jeamar blocks are rated for the full working load limit at 0° rope angle.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
<th>Sheave Diameter (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS3500</td>
<td>3,500</td>
<td>1/8</td>
<td>4.25</td>
<td>10</td>
</tr>
<tr>
<td>SS7000</td>
<td>7,000</td>
<td>3/8</td>
<td>6</td>
<td>25</td>
</tr>
<tr>
<td>SS10500</td>
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<td>1/2</td>
<td>8</td>
<td>40</td>
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<tr>
<td>SS16000</td>
<td>16,000</td>
<td>5/8</td>
<td>10</td>
<td>121</td>
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<tr>
<td>SS23000</td>
<td>23,000</td>
<td>3/4</td>
<td>12</td>
<td>180</td>
</tr>
<tr>
<td>SS31000</td>
<td>31,000</td>
<td>7/8</td>
<td>14</td>
<td>290</td>
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<td>16</td>
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<tr>
<td>SS83000</td>
<td>83,000</td>
<td>1-3/8</td>
<td>26.34</td>
<td>1,768</td>
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</tbody>
</table>
**Vertical Directional Blocks**

Jeamar steel sheaves are precision-made from the highest quality fine-grain steel. They’re tough, hassle free and they last longer.

The strength of the steel used by Jeamar considerably exceeds that of cast iron. Steel also has a weight-saving advantage of up to 50 percent over cast iron, resulting in easier handling and installation.

Jeamar fits its steel sheaves with high-efficiency, deep-groove, double ball bearings, for maximum efficiency, reduced friction, smooth motion long life and high speed.

Jeamar steel sheaves ensure that the shape of your rope is maintained under normal load conditions.

Rope grooves are hardened during forming, increasing the life of sheave and rope.

Jeamar steel sheaves incorporate either ball or taper roller bearings for maximum efficiency, reduced friction, smooth motion, long life and high speed.

Precision sealed, bearings stay lubricated, ensuring low maintenance.

Jeamar blocks are rated for the full working load limit at 0° rope angle.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
<th>Sheave Diameter (in.)</th>
<th>Weight (lbs.)</th>
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</thead>
<tbody>
<tr>
<td>VB1000</td>
<td>1,000</td>
<td>1/8</td>
<td>2.25</td>
<td>2</td>
</tr>
<tr>
<td>VB3500</td>
<td>3,500</td>
<td>1/4</td>
<td>4.25</td>
<td>6</td>
</tr>
<tr>
<td>VB7000</td>
<td>7,000</td>
<td>3/8</td>
<td>6</td>
<td>16</td>
</tr>
<tr>
<td>VB10500</td>
<td>10,500</td>
<td>1/2</td>
<td>8</td>
<td>27</td>
</tr>
<tr>
<td>VB16000</td>
<td>16,000</td>
<td>5/8</td>
<td>12</td>
<td>65</td>
</tr>
<tr>
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<td>VB83000</td>
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<td>1-3/8</td>
<td>26.34</td>
<td>950</td>
</tr>
</tbody>
</table>

**WARNING**

SEE WARNING INFORMATION ON PAGES 522 - 525.

**Jeamar Winches**

**Horizontal Directional Blocks**

Steel sheaves are manufactured from the highest-quality, fine-grain steel, ensuring uniformity of material, consistent high quality and greater strength. The innovative, cold-rolled forming process ensures an ideal groove profile. The inherent elasticity and resilience of steel makes for a tougher sheave to meet the most demanding applications.

The strength of the steel used by Jeamar considerably exceeds that of cast iron. Steel also has a weight-saving advantage of up to 50 percent over cast iron, resulting in easier handling and installation.

Jeamar fits its steel sheaves with high-efficiency, deep-groove, double ball bearings for maximum efficiency, reduced friction, smooth motion, long life and high speed.

Jeamar steel sheaves ensure that the shape of your rope is maintained under normal load conditions.

With a minimum sheave-to-rope ratio of 15:1, the rope’s bending stress is reduced for longer life.

Rope grooves are hardened during forming, increasing the life of sheave and rope.

Precision sealed, bearings stay lubricated, ensuring low maintenance.

Jeamar blocks are rated for the full working load limit at 0° rope angle.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
<th>Sheave Diameter (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HB1000</td>
<td>1,000</td>
<td>1/8</td>
<td>2.25</td>
<td>5.4</td>
</tr>
<tr>
<td>HB3500</td>
<td>3,500</td>
<td>1/4</td>
<td>4.25</td>
<td>8.3</td>
</tr>
<tr>
<td>HB7000</td>
<td>7,000</td>
<td>3/8</td>
<td>6</td>
<td>19</td>
</tr>
<tr>
<td>HB10500</td>
<td>10,500</td>
<td>1/2</td>
<td>8</td>
<td>25</td>
</tr>
<tr>
<td>HB16000</td>
<td>16,000</td>
<td>5/8</td>
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<td>23.54</td>
<td>774</td>
</tr>
<tr>
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<td>83,000</td>
<td>1-3/8</td>
<td>26.34</td>
<td>1,235</td>
</tr>
</tbody>
</table>
Premium Steel Sheaves BB

Steel sheaves are manufactured from the highest-quality, fine-grain steel, ensuring uniformity of material, consistent high quality and greater strength. The innovative, cold-rolled forming process ensures an ideal groove profile. The inherent elasticity and resilience of steel makes for a tougher sheave to meet the most demanding applications.

Work hardening of the rope groove takes place during the forming process, which substantially increases the life of the sheave. The high-quality finish of the rope groove ensures minimum wear and abrasion between the rope and sheave, adding considerably to the rope life.

The strength of the steel used considerably exceeds that of cast iron.

Steel sheaves are designed with a minimum arc of support for the rope of 125 degrees, ensuring that the rope cross sectional shape is maintained under normal load conditions. Sheaves have a minimum sheave-to-rope ratio of 15:1. This ensures a large radius for the rope to bend around, which in turn decreases flexing of the rope and substantially increases rope life.

Steel sheaves incorporate either ball or taper roller bearings for maximum efficiency, reduced friction, smooth motion, long life and high speed.

The ball and roller bearings are sealed and lifetime lubricated for long life and minimum maintenance costs.

<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
<th>Sheave Diameter (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1000</td>
<td>1,000</td>
<td>1/8</td>
<td>2.25</td>
<td>3</td>
</tr>
<tr>
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<td>1-3/8</td>
<td>26.34</td>
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<table>
<thead>
<tr>
<th>Model</th>
<th>Load Limit (lbs.)</th>
<th>Rope Diameter (in.)</th>
<th>Sheave Diameter (in.)</th>
<th>Weight (lbs.)</th>
</tr>
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<tbody>
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<td>7/8</td>
<td>14</td>
<td>300</td>
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### Swivel Eye Block

<table>
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<tr>
<th>Model No.</th>
<th>Max. Cable Size (in.)</th>
<th>Dimensions (in.)</th>
<th>WLL (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>A  B  C  D  E  F  G  H  Y</td>
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<tr>
<td>01548</td>
<td>3/16  1  1-1/2  7/16  1-1/4  5/8  3-13/16  2-7/16  1-5/8  n/a  525</td>
<td></td>
<td></td>
</tr>
<tr>
<td>02048</td>
<td>3/16  1-1/2  2  7/16  1-1/4  5/8  4-1/4  2-15/16  2-1/8  n/a  600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>02548</td>
<td>1/4  2  2-1/2  7/16  1-1/2  7/8  5  3-7/16  2-5/8  n/a  685</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03048</td>
<td>1/4  2  2-1/2  7/16  1-1/2  7/8  5-5/8  4-1/16  3-1/8  n/a  800</td>
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</tr>
<tr>
<td>3048-5/16</td>
<td>5/16  3  2  7/16  1-1/4  7/8  7-13/16  5-3/4  3-1/4  n/a  1,550</td>
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<tr>
<td>03548-3/8</td>
<td>3/8  3  3-1/2  5/8  2-1/16  1-3/16  7-5/8  3-3/4  5-1/4  n/a  1,850</td>
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<td></td>
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<tr>
<td>04048</td>
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<tr>
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**Single Sheave Specifications**

- Dimensions in inches are approximate.

### Flat Mount Block

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Max. Cable Size (in.)</th>
<th>Dimensions (in.)</th>
<th>WLL (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A  B  C  D  E  F  G  H  K  L  Y</td>
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<td></td>
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<tr>
<td>01558</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>02058</td>
<td>3/16  1-1/2  2  7/16  1-1/4  7/16  1-7/8  1-1/2  1-7/8  1-1/2  1-13/16  600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>02558</td>
<td>1/4  2  2  7/16  1-1/4  7/8  2-3/8  2-1/16  2-1/8  1-7/16  1-13/16  685</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03058</td>
<td>1/4  2  3  7/16  1-3/8  2-7/16  2-3/8  2-1/16  2-1/8  1-7/16  1-13/16  800</td>
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<td></td>
</tr>
<tr>
<td>03558-5/16</td>
<td>5/16  3  2-1/2  2-1/8  1-7/16  3-7/16  3-3/4  4-3/8  4-1/4  1-7/16  1-13/16  800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>03558</td>
<td>5/16  3  3-1/2  5/8  3-9/16  2-5/8  1  3-3/4  4-3/8  1-1/8  1-13/16  800</td>
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<td></td>
</tr>
<tr>
<td>04058</td>
<td>3/8  4-1/4  5  5/8  3-9/16  2-5/8  1  5-1/4  5-15/16  1-1/2  2-1/4  1-13/16  1,700</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Single Sheave Specifications**

- Dimensions in inches are approximate.

---

**Mazzella Catalog 13 Blocks Sheaves.indd 512 7/3/13 9:45 AM**
Fixed Eye Block

**Single Sheave Specifications**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Max. Cable Size (in.)</th>
<th>Dimensions (in.)</th>
<th>WLL (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01568-2</td>
<td>3/16</td>
<td>1 1-1/2 7/16 1/4 1-1/8 3/8 2-7/16 3-1/4 1-5/8 n/a 525</td>
<td></td>
</tr>
<tr>
<td>02068-2</td>
<td>3/16</td>
<td>2 1-1/2 7/16 1/4 1-1/8 3/8 2-15/16 3-3/4 2-1/8 n/a 600</td>
<td></td>
</tr>
<tr>
<td>02568-2</td>
<td>3/16</td>
<td>3 1-1/2 7/16 1/4 1-1/8 3/8 3-7/16 4-1/4 2-5/8 n/a 685</td>
<td></td>
</tr>
<tr>
<td>03068-2</td>
<td>3/16</td>
<td>3-1/2 5/8 5/16 1-1/2 9/16 5-3/16 6-1/2 3-3/4 n/a 800</td>
<td></td>
</tr>
<tr>
<td>03568-2-5/16</td>
<td>3/16</td>
<td>3-1/2 5/8 5/16 1-1/2 9/16 5-3/16 6-1/2 3-3/4 n/a 800</td>
<td></td>
</tr>
<tr>
<td>04068-2</td>
<td>3/16</td>
<td>4 3-1/2 5/8 5/16 1-1/2 9/16 6 7-1/4 4-1/4 n/a 1,550</td>
<td></td>
</tr>
<tr>
<td>05068-2</td>
<td>3/16</td>
<td>5 5/8 5/16 1-1/2 9/16 7 8-1/4 5-1/4 n/a 1,850</td>
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</tbody>
</table>

**Double Sheave Specifications**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Max. Cable Size (in.)</th>
<th>Dimensions (in.)</th>
<th>WLL (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01568-2</td>
<td>3/16</td>
<td>1 1-1/2 7/16 1/4 1-1/8 3/8 2-7/16 3-1/4 1-5/8 1-7/32 525</td>
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<tr>
<td>02068-2</td>
<td>3/16</td>
<td>2 1-1/2 7/16 1/4 1-1/8 3/8 2-15/16 3-3/4 2-1/8 1-7/32 600</td>
<td></td>
</tr>
<tr>
<td>02568-2</td>
<td>3/16</td>
<td>3 1-1/2 7/16 1/4 1-1/8 3/8 3-7/16 4-1/4 2-5/8 1-7/32 685</td>
<td></td>
</tr>
<tr>
<td>03068-2</td>
<td>3/16</td>
<td>3-1/2 5/8 5/16 1-1/2 9/16 5-3/16 6-1/2 3-3/4 1-13/16 800</td>
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</tr>
<tr>
<td>03568-2-5/16</td>
<td>3/16</td>
<td>3-1/2 5/8 5/16 1-1/2 9/16 5-3/16 6-1/2 3-3/4 1-13/16 800</td>
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</tr>
<tr>
<td>04068-2</td>
<td>3/16</td>
<td>4 3-1/2 5/8 5/16 1-1/2 9/16 6 7-1/4 4-1/4 1-13/16 1,550</td>
<td></td>
</tr>
<tr>
<td>05068-2</td>
<td>3/16</td>
<td>5 5/8 5/16 1-1/2 9/16 7 8-1/4 5-1/4 1-13/16 1,850</td>
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</table>

Dimensions in inches are approximate.

**Swivel Hook Block**

**Single Sheave Specifications**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Max. Cable Size (in.)</th>
<th>Dimensions (in.)</th>
<th>WLL (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>01578-2-SL</td>
<td>3/16</td>
<td>1 1-1/2 7/16 2-7/16 4-1/8 1-5/8 1/2 n/a 525</td>
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</tr>
<tr>
<td>02078-2-SL</td>
<td>3/16</td>
<td>2 1-1/2 7/16 2-15/16 4-5/8 2-1/8 1/2 n/a 600</td>
<td></td>
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<tr>
<td>02578-2-SL</td>
<td>3/16</td>
<td>3 1-1/2 7/16 3-7/16 5-3/4 2-5/8 11/16 n/a 685</td>
<td></td>
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<tr>
<td>03078-2-SL</td>
<td>3/16</td>
<td>3-1/2 5/8 5/16 4-1/4 6-1/4 3-1/8 11/16 n/a 800</td>
<td></td>
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<tr>
<td>03578-2-5/16</td>
<td>3/16</td>
<td>3-1/2 5/8 5/16 4-1/4 6-1/4 3-1/8 11/16 n/a 800</td>
<td></td>
</tr>
<tr>
<td>04078-2-SL</td>
<td>3/16</td>
<td>4 5/8 6 9 4-1/2 15/16 n/a 1,500</td>
<td></td>
</tr>
<tr>
<td>05078-2-SL</td>
<td>3/16</td>
<td>5 5/8 6 9 4-1/2 15/16 n/a 1,850</td>
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</tbody>
</table>

**Double Sheave Specifications**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Max. Cable Size (in.)</th>
<th>Dimensions (in.)</th>
<th>WLL (lbs.)</th>
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<tbody>
<tr>
<td>01578-2-SL</td>
<td>3/16</td>
<td>1 1-1/2 7/16 2-7/16 4-1/8 1-5/8 1/2 1-7/32 525</td>
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</tr>
<tr>
<td>02078-2-SL</td>
<td>3/16</td>
<td>2 1-1/2 7/16 2-15/16 4-5/8 2-1/8 1/2 1-7/32 600</td>
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</tr>
<tr>
<td>02578-2-SL</td>
<td>3/16</td>
<td>3 1-1/2 7/16 3-7/16 5-3/4 2-5/8 11/16 1-7/32 685</td>
<td></td>
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<tr>
<td>03078-2-SL</td>
<td>3/16</td>
<td>3-1/2 5/8 5/16 4-1/4 6-1/4 3-1/8 11/16 1-7/32 800</td>
<td></td>
</tr>
<tr>
<td>03578-2-5/16</td>
<td>3/16</td>
<td>3-1/2 5/8 5/16 4-1/4 6-1/4 3-1/8 11/16 1-7/32 800</td>
<td></td>
</tr>
<tr>
<td>04078-2-SL</td>
<td>3/16</td>
<td>4 5/8 6 9 4-1/2 15/16 1-7/32 1,500</td>
<td></td>
</tr>
<tr>
<td>05078-2-SL</td>
<td>3/16</td>
<td>5 5/8 6 9 4-1/2 15/16 1-7/32 1,850</td>
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</tbody>
</table>

Dimensions in inches are approximate.
Sheaves—Bronze Bushings
1-1/2" to 5" Sheaves

Sheaves with Bronze Bushings

<table>
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<tr>
<th>Model No.</th>
<th>Max Cable Size (in.)</th>
<th>Dimensions (in.)</th>
<th>WLL (lbs.)</th>
</tr>
</thead>
<tbody>
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<td>A</td>
<td>B</td>
<td>C</td>
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<tr>
<td>00158</td>
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</tr>
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<td>00208</td>
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<td>1-1/2</td>
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<td>00258</td>
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<td>2-1/2</td>
<td>2</td>
</tr>
<tr>
<td>00308</td>
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<td>3</td>
<td>2-1/2</td>
</tr>
<tr>
<td>00308-5/16</td>
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<td>2-1/2</td>
</tr>
<tr>
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<td>3-1/2</td>
<td>3</td>
</tr>
<tr>
<td>00388</td>
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<td>3-1/4</td>
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<td>3-1/4</td>
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Spacers

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<td>05938</td>
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<td>07538</td>
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Spacers

Dimensions in inches are approximate.

4", 5" & 6" Sheaves

Sheaves

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<tr>
<th>Model No.</th>
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<th>D</th>
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<td>04375</td>
<td>21/32</td>
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<tr>
<td>04500</td>
<td>25/32</td>
<td>4</td>
<td>7/16</td>
<td>7/8</td>
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<td>05375</td>
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<td>5</td>
<td>5/16</td>
<td>1-1/4</td>
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<td>05500</td>
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<td>5</td>
<td>7/16</td>
<td>1-1/4</td>
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<tr>
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<td>1-1/4</td>
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<tr>
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<td>7/16</td>
<td>1-1/4</td>
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Bushings

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<th>C Width</th>
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</tr>
<tr>
<td>17863</td>
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<td>5/8</td>
<td>17/32</td>
</tr>
<tr>
<td>17875</td>
<td>7/8</td>
<td>3/4</td>
<td>17/32</td>
</tr>
<tr>
<td>27850</td>
<td>7/8</td>
<td>1/2</td>
<td>21/32</td>
</tr>
<tr>
<td>27863</td>
<td>7/8</td>
<td>5/8</td>
<td>21/32</td>
</tr>
<tr>
<td>27875</td>
<td>7/8</td>
<td>3/4</td>
<td>21/32</td>
</tr>
<tr>
<td>57850</td>
<td>7/8</td>
<td>1/2</td>
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</tr>
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<td>57863</td>
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<td>5/8</td>
<td>25/32</td>
</tr>
<tr>
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<td>25/32</td>
</tr>
<tr>
<td>12575</td>
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<td>7/8</td>
</tr>
<tr>
<td>12518</td>
<td>1-1/4</td>
<td>1-1/8</td>
<td>7/8</td>
</tr>
</tbody>
</table>

Dimensions in inches are approximate.
Sheaves

Every McKissick® Roll-ForGED™ sheave starts as a single piece of AISI C-1035 carbon steel plate. Utilizing a “time proven” proprietary roll forging process that adds extra strength to the critical groove section, the sheave is formed from a precision flame cut blank. The hub is then pressed into place with complete metal-to-metal contact and secured with a deep penetrating weld to ensure proper fit and longer life. Before the McKissick® name is added, each sheave is thoroughly inspected to meet applicable industry and Crosby® quality standards.
Wire Rope Sheaves

McKissick sheaves come in a variety of sizes to suit your specific applications. Contact your local sales representative to order McKissick sheaves and include the sheave diameter, wire rope size and bearing type—our sales representative will find the right sheave for your application. For unique applications, Crosby can custom design and manufacture sheaves to your exact requirements. For special requirements or custom designed sheaves, furnish the following important information:

- Wireline Size
- Shaft Diameter
- Hub Diameter
- Bore Finished
- Nominal Outside Diameter
- Hub Width
- Rim Width
- Nominal Tread Diameter
- Other Special Requirements

Roll Forged Sheave Features

Unique upset roll forging process provides a thicker groove section for extra strength.

- Stepped Hubs are precisely centered and mechanically locked in place.
- Wireline grooves on sheave diameters of 14” and larger are flame hardened for extra wear resistance.
- All sheaves have solid steel webs with holes for easy handling.
- Sheave weights can be made heavier or lighter than shown to fit your specific application.
- Sheaves available in sizes from 12” - 72”, and wireline sizes from 3/8" - 3”.
- For more information, ask for our special brochure describing the complete roll forging process.

See custom sheaves form.

Sheave Bearing Application Information

Bronze Bushing:
Slow line speed, moderate load and moderate use,
Maximum Bearing Pressure (BP): 4500 PSI
Maximum Velocity at Bearing (BV): 1200 FPM
Maximum Pressure Velocity Factor (PV): 55000

Formula for BP = Line Pull x Angle Factor
                        Shaft Size x Hub Width

Plain Bore:
Very slow line speed, very infrequent use, low load.

Roller Bearing:
Faster line speeds, more frequent use, greater load.

Example:
Using a 14 in. sheave (917191) with a 4600 lb. line pull and a 80 degree angle between lines, determine maximum allowable line speed.

BP = 4600 lbs. x 1.53 ÷ 1.50 x 1.62 = 2896 PSI
(Line Pull) (Angle Factor) (Hub Width) (Shaft Size)

BV = 55000 ÷ 2896 = 19FPM
(PV Factor) (BP)

Note: For underwater sheave applications, special bronze bushings are available.

Note: Consult the bearing manufacturer for applicable load.
**Standard Sheave Bearings**

**Standard Straight Roller Bearings**
Heavier loads, higher speeds, more frequent use, radial loads only

**Tapered Roller Bearings**
Heavy loads, high speeds, continuous operation, axial and radial loads

**Full Complement, Double Row, Roller Bearing**
Heavy load, high speeds, continuous operation, axial and radial loads

---

(B) **Bronze Bushing**
Bronze Bushings with oil grooves are made from S.A.E. 660 bronze or cold finished shafts.

(R) **Roller Bearings**
Roller bearings are designed to operate on shafts carburized to 60 Rockwell “C” and groove to +/- .0005 of shaft size.

(W) **Roller Bearing with Thrust Washers**
Roller bearings without inner races are designed to operate on shafts carburized to 60 Rockwell “C” and grooved to +/- .0005 of shaft size.

(C) **Full Complement Cylindrical Roller Bearing**
Cylindrical roller bearings with snap ring grooves are complete units with outer and inner rings, rib guided cylindrical rollers and sealing rings. They can support axial forces in both directions, as well as radial forces. They have high dynamic and static load ratings.

(T) **Tapered Roller Bearing**
Tapered bearings are designed to operate on shafts machined to +/- .0005 of shaft size. Applications should provide for tightening separator plates against bearing cones to adjust and insure proper function of bearings.

---

J Henry Holland  
Phone: 757-460-3300  
www.jhenryholland.com

Alabama Sling Center  
Phone: 205-744-0230  
www.alabamaslingcenter.com

Tennessee Sling Center  
Phone: 901-345-8918 (Memphis)  
Phone: 423-634-9005 (Chattanooga)  
www.tennesseeslingcenter.com

KCI Crane Service  
Phone: 205-345-4701  
www.kcicraneservice.com
# Custom Sheaves

## Dimensional Information

<table>
<thead>
<tr>
<th>Information</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Outside Diameter</td>
<td>___________________________</td>
</tr>
<tr>
<td>Wire Rope Size</td>
<td>___________________________</td>
</tr>
<tr>
<td>Rim Width</td>
<td></td>
</tr>
<tr>
<td>Shaft Size †</td>
<td>___________________________</td>
</tr>
<tr>
<td>Hub Width *</td>
<td>___________________________</td>
</tr>
<tr>
<td>Nominal Tread Diameter</td>
<td>___________________________</td>
</tr>
<tr>
<td>Nominal Hub Diameter</td>
<td>___________________________</td>
</tr>
</tbody>
</table>

* Hub width is measured over the cone of the Tapered Bearing Sheaves
† Shaft Size is Bore Size on Plain Bore Sheaves

## Bearing Type

- □ Bronze Bushing
- □ Roller Bearing †
- □ Tapered Roller Bearing
- □ Finish / Plain Bore
- □ Full Complement Cylindrical Roller Bearing
- □ Underwater
- □ Other

† Requires hardened and ground shaft

## Material Type

- □ Roll Forged™ (Flame hardened 14" and larger)
- □ Forged Steel
- □ Domed
- □ Cast Steel
- □ Fabricated
- □ Other

## Application Information

<table>
<thead>
<tr>
<th>Information</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Line Pull</td>
<td>_______________________</td>
</tr>
<tr>
<td>Fleet Angle</td>
<td>_______________________</td>
</tr>
<tr>
<td>Degree of Wrap</td>
<td>_______________________</td>
</tr>
<tr>
<td>Line Speed</td>
<td>_______________________</td>
</tr>
<tr>
<td>Environment</td>
<td>_______________________</td>
</tr>
<tr>
<td>Groove Angle</td>
<td>_______________________</td>
</tr>
</tbody>
</table>

## Special Requirements

- Special Testing: ______________________

## Finish

- ______________________
- ______________________
- ______________________

## Third Party Inspection / Approval

- ______________________
- ______________________
- ______________________

---

Mazzella Lifting Technologies  
Phone: 800-362-4601  
www.mazzellalifting.com

Progressive Crane  
Phone: 800-83-CRANE  
www.progressivecrane.com

Mazzella Crane Service  
Phone: 877-96-CRANE  
www.mazzellacraneservice.com

Indusco Wire Rope & Supplies  
Phone: 410-727-0665  
www.induscowire.com
The Elements of a Superior Sheave

Every McKissick® Roll-Forged™ sheave starts as a single piece of AISI C-1035 carbon steel plate. Utilizing a “time proven” proprietary roll forging process that adds extra strength to the critical groove section, the sheave is formed from a precision flame cut blank. The hub is then pressed into place with complete metal-to-metal contact and secured with a deep penetrating weld to ensure proper fit and longer life. Before the McKissick® name is added, each sheave is thoroughly inspected to meet applicable industry and Crosby® quality standards.

McKissick® Roll-Forged™ sheaves contain the following critical standard features required to meet your demanding applications.

1. Smooth radius at the rim provides superior transition from outside diameter to groove—eliminating sharp corners that can damage rope
2. Size for size, McKissick® Roll-Forged™ sheaves have a thicker section under the tread of the wire rope groove—providing more substantial support of the wire rope
3. Thicker web on sheave provides required stiffness to support a stronger sheave that contains thicker flange sections
4. Heavier flange sections—provide a much stronger wire rope groove and maintain proper consistent groove angles, ensuring long term wire rope performance
5. Minimum 35Rc for higher hardness in the bottom of the groove—results in less wear to the sheave, thus extending life of wire rope
6. Precision alignment of hub with blank, then finished with a deep penetrating weld—ensuring proper fit, longer life and confidence during the most extreme of applications

Additional Features of McKissick® Roll-Forged Sheaves:

- The grain flow associated with the McKissick® Roll-Forged™ sheave process results in excellent performance properties
- Each sheave is permanently marked with “McKissick®”, sheave outside diameter, wire rope size and Product Identification Code (PIC) that provides complete material traceability.
Types of Sheaves

**Finished Bore Sheaves**
- Roll-Forged™ sheaves are available in sizes up to 78" in diameter.
- McKissick® Finished Bore Sheaves can be equipped with bushings or bearings at an optional charge.
- 14" diameter sheaves and larger are Roll-Forged™ with Flame hardened grooves to minimum Rockwell 35C.

**Bronze Bushed Sheaves**
- Roll-Forged™ sheaves are available in sizes up to 78" in diameter.
- McKissick® Bronze Bushed Sheaves are equipped with S.A.E. 660 Bronze Bushings for cold finished shafts with oil groove.
- For sizes not listed, McKissick Finished Bore Sheaves can be equipped with bronze bushings at an optional charge.

**Roller Bearing Sheaves**
- Roll-Forged™ sheaves are available in sizes up to 78" in diameter.
- McKissick® Roller Bearing Sheaves are designed to operate on shafts carborized to 60 Rockwell “C” and groove to +/- .0005 of the indicated shaft size. Some sizes are available with an optional inner race. Check with your Lifting Specialist for more details.
- Application should provide for 1/32" running clearance over the hub width.
- For sizes not listed, McKissick Finished Bore Sheaves can be equipped with Roller Bearings at an optional charge.

**Tapered Bearing Sheaves**
- Roll-Forged™ sheaves are available in sizes up to 78" in diameter.
- Tapered Bearing Sheaves are designed to operate on shafts machined to +/- .0005 of the indicated shaft size.
- Applications should provide for tightening separator plates against bearing cones to adjust and insure proper function of bearing.
- For larger sizes, McKissick® Finished Bore Sheaves can be equipped with tapered bearing at an optional charge.
Block Repair

We repair and rebuild all manufacturers’ blocks. A complete tear down, inspection and evaluation of all components is performed.

Our Repairs Department will provide a quote for any needed repairs. We appreciate the opportunity to provide a cost savings through this process.
Blocks & Sheaves

Product Warnings
Crosby Tackle Block & Sheave Assembly Warnings

A potential hazard exists when lifting or dragging heavy loads with tackle block assemblies.

Failure to design and use tackle block systems properly may cause a load to slip or fall - the result could be serious injury or death.

Failure to design lifting system with appropriate sheave assembly material for the intended application may cause premature sheave, bearing or wire rope wear and ultimate failure - the result could be serious injury or death.

A tackle block system should be rigged by a qualified person as defined by ANSI / ASME B.30.

Instruct workers to keep hands and body away from block sheaves and swivels - and away from “pinch points” where rope touches block parts or loads.

Do not side load tackle blocks.

See OSHA Rule 1926.1431(g) and 1926.1501(g) for personnel hoisting by cranes and derricks, and OSHA Directive CPL 2-1.36 - Interim Inspection Procedures During Communication Tower Construction Activities. Only a Crosby or McKissick® Hook with a PL latch attached and secured with a bolt, nut and cotter pin (or toggle pin) or a PL-N latch attached and secured with toggle pin; or a Crosby hook with an S-4320 latch attached and secured with cotter pin or bolt, nut and pin; or a Crosby SHUR-LOC® Hook in the locked position may be used for personnel hoisting. A hook with a Crosby SS-4055 latch attached shall NOT be used for personnel lifting.

Instruct workers to be alert and to wear proper safety gear in areas where loads are moved or supported with tackle block systems.

Use only genuine Crosby parts as replacement.

Read, understand, and follow these instructions to select, use and maintain tackle block systems.

WARNING

For complete warning and application information, see The Crosby Group at www.thecrosbygroup.com

General Cautions or Warnings

Ratings shown in Crosby Group literature are applicable only to new or "in as new" products.

Working Load Limit ratings indicate the greatest force or load a product can carry under usual environmental conditions. Shock loading and extraordinary conditions must be taken into account when selecting products for use in tackle block systems. Working Load Limit ratings are based on all sheaves of tackle block system being utilized. If all sheaves are not utilized, balance must be maintained, and the Working Load Limit must be reduced proportionally to prevent overloading sheave components. Changes from full sheave reeving arrangement should be only at the recommendation of a qualified person, and incorporate good rigging practices.

In general, the products displayed in Crosby Group literature are used as parts of a system being employed to accomplish a task. Therefore, we can only recommend within the Working Load Limits, or other stated limitations, the use of products for this purpose.

The Working Load Limit or Design (Safety) Factor of each Crosby product may be affected by wear, misuse, overloading, corrosion, deformation, intentional alteration, and other use conditions. Regular inspection must be conducted to determine whether use can be continued at the catalog assigned WLL, a reduced WLL, a reduced Design (Safety) Factor, or withdrawn from service.

Crosby Group products generally are intended for tension or pull. Side loading must be avoided, as it exerts additional force or loading which the product is not designed to accommodate.

Always make sure the hook supports the load. The latch must never support the load.

Welding of load supporting parts or products can be hazardous. Knowledge of materials, heat treatment, and welding procedures are necessary for proper welding. Crosby Group should be consulted for information.

Crane component parts, i.e. the boom, block, overhaul ball, swivel, and wire ropes are metallic and will conduct electricity. Read and understand OSHA standard covering crane and derrick operations (29 CFR 1926.550 SUBPART N) before operating proximate to power lines.
**Miller Block Warnings & Precautions**

**WARNING**

All ratings shown in any Miller literature are based on the products being in a new and unused condition. When selecting a product, consideration must be given to the greatest load the product will see, therefore, shock loading must be considered in the overall system design.

All products manufactured by Miller Products are sold with the express understanding that the customer is thoroughly familiar with the safe and proper use and application of the product.

In selecting a Miller product, such factors as extreme heat or cold, excess humidity, moisture, contaminated air, etc. must be considered since these may adversely affect longevity, performance and Working Load Limit.

Do not immerse any standard Miller product in water. Contact the factory for assistance in selecting the special product designed to meet fresh and saltwater applications.

Lift only those loads for which the Miller product is designed. Federal crane regulations prohibit the transport of personnel on any load or wire rope attachment (OSHA 1910, 180-h-3-v).

Miller products are generally designed for applications of tension or straight pull. Side loading must be avoided since it exerts additional force which the product is not designed to accommodate.

**HOOK LATCHES** - All Miller products that utilize hooks are equipped at the factory with hook latches. The only function of a hook latch is to retain loose slings or devices under slack conditions, i.e. no load. They are not intended to be anti-fouling devices, so caution should be used to prevent the latch from supporting any of the load. Routine inspection of the latches must be made to ensure their proper operating conditions. Hook applications might require other hook latches. Should you have any questions regarding hook latches, contact the factory.

**WHENEVER WEDGE SOCKETS ARE UTILIZED THESE TWO PRECAUTIONS MUST BE TAKEN:**

1. When installing wire rope always pre-load the wedge with the wire rope in place. Then attach the end of the rope to the main line with the first clip to be located directly above the socket. It is imperative that the clips and clamps be installed precisely as specified by the manufacturers and in the number and sizes approved by the fitting manufacturers.

2. Make allowance for the crimping effect common with all types of wedge sockets. Experience shows the Maximum Load Limit on a line will be reduced by 20% or more with this type of fitting.

**NEVER WELD ON ANY MILLER PRODUCT.** Should any modification or repairs be required on any Miller product, contact the factory for information.

**INSPECT AND MAINTAIN REGULARLY.** All Miller products are mechanical components and are subject to wear. Worn components do not have the same Working Load Limit as do new components. The total responsibility for the inspection, maintenance and continued use is entirely up to the purchaser/user. Remember, visual inspection may not be sufficient and examination methods such as X-ray, ultrasonic testing, magnetic particle inspection, dielectric resistance and others, might be required to establish the present integrity of the product. Check to see that your equipment is being inspected and tested in accordance with all applicable governmental rules and regulations. Should any Miller products become worn and in need of repair, the responsibility for the actual repair work will be borne solely by the party making such repairs. It is recommended that the factory be contacted should there be any questions whatsoever relating to a repair. See Maintenance and Inspection.

**INSULATING LINKS – ELECTRICAL PERFORMANCE OF INSULATING LINKS DEGRADES WHEN LINKS ARE NOT KEPT FREE OF SURFACE DIRT AND CONTAMINATION. INSULATING LINK VOLTAGE RATINGS ASSUME CLEAN AND DRY LINKS AND A DRY ENVIRONMENT.** In the case of ELECTRICAL POWER LINE SAFETY use of an insulating link alone in the absence of other required measures is NOT ACCEPTABLE. OSHA power line safety requirements involving the use of cranes and derricks can be found in US federal regulation 29 CFR Part 1926, latest edition.

**REMEMBER:** External factors will affect the longevity of the product. There is no defined period for the useful life of any Miller product. It is the user’s responsibility to maintain and check the product. Even after a short period of use circumstances may require the product to be withdrawn from service. Should any questions arise during the inspection of any Miller product that relate to its intended application or need for repair, promptly remove the product from service.

**PROOF LOAD –** The recommended proof load on all items in this catalog is 2 times the Working Load Limit unless otherwise indicated. SPARE PARTS - Use only new genuine Miller parts for replacement or repair.

**PRODUCT LABELS** – Per ANSI S35.4-1991 labels should be inspected and cleaned and safety related labels replaced when no longer legible. Contact Miller for replacements.

**DIMENSIONS** in this catalog are generally nominal dimensions in inches unless otherwise indicated. Where tolerance information is needed but is not indicated please contact Miller for applicable tolerances.

**WEIGHTS** in this catalog are generally in pounds unless otherwise indicated.

For complete warning and application information, see Miller Lifting Products at www.millerproducts.net
Gunnebo Johnson
Crane Block
Warnings

**WARNING**

- Never use a crane block without training.
- Always inform yourself... Ask your employer for the manufacturer's crane block use limitations.
- Always comply with applicable Country regulations.
- Always know load weight.
- Never use a crane block without a legible rated load tag.
- Never overload a crane block.
- Never ride on a crane block or load.
- Never use an improperly rigged crane block.
- Never use a worn-out or damaged crane block.
- Never use a crane block in extreme temperatures.
- Never use a crane block in acidic conditions.

For **complete** warning and application information, see Gunnebo Johnson at www.gunnebojohnson.com

Rope Block
Block Warnings

**WARNING**

Where equipment has swivelling and moving parts there are potential safety hazards. Care should be taken when working with or repairing such equipment. If used incorrectly breakage could occur inflicting injury or death. When equipment is in use do not put hands between sheaves, side plates and guards. In area of becket, hook, hook nut and cross head.

Take great care to avoid clothing becoming trapped. Repair and reeving should be carried out by trained personnel only. Power should be switched off before operations are carried out. Work should only take place when equipment is seated on a firm surface.

Jeamar Blocks
Warnings

**WARNING**

**WARNINGS:**
- Ensure the correct equipment is obtained and installed for the application.
- Ratings shown in Jeamar literature are applicable only to new products.
- Working load limits shown are the maximum load the product is authorized to support under normal environmental conditions. Shock loading and abnormal conditions must be taken into account when selecting products.
- Working load limits shown are the maximum load the product is authorized to support under normal environmental conditions. Regular inspections must be conducted to ensure the equipment continues to meet the most current revision of the published standard.

**AVOID SHOCK LOADS**
- These are transient loads that exceed the steady-state load. Shock loads are caused by sudden accelerations, usually due to unrestrained loads, swing loads, jerking, or impacting of the load. The working load limit may well be exceeded under these conditions.
- Welding to any Jeamar products can be hazardous and should only be implemented after written permission from Jeamar.

Jeamar products are sold on the strict understanding that all product selection is the full responsibility of the purchaser. Jeamar accepts no liability for the use, misuse or incorrect application of its products.

For **complete** warning and application information, see Jeamar, Inc. at www.jeamar.com

Limitation of Use

- Working load limit (WLL) should never be exceeded.
- Hook-blocks should be used in vertical lift only.
- Rigging blocks should be used only as in design specifications. Blocks should not be used for towing unless specifically designed and marked for that purpose.
- Swivels should be used in either vertical or horizontal plain only.
- Horizontal and vertical lead sheaves used only as indicated in description.
- Shock or side loading should not be applied unless equipment is designed for that purpose.
- Load should always be in seat of hook or eye. Never at point!

For **complete** warning and application information, see Ropeblock BV at www.ropeblock.com
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Hardware
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Cordage
Load Securement
Engineered Products
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www.kcicraneservice.com
J Henry Holland
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www.jhenryholland.com
Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com
Tennessee Sling Center
Phone: 888-345-8988 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com
Contractors Supply
Fall Protection
Model S / FR
Lifting Clamps

Model S
Vertical Lifting, Locking

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.

<table>
<thead>
<tr>
<th>Rated Capacity Tons</th>
<th>Plate Thickness</th>
<th>Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0-1</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>3/4 to 1-1/2</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>1-1/4 to 2</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>1-3/4 to 2-1/2</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td>0 to 1-1/4</td>
<td>41</td>
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<tr>
<td></td>
<td>1-2</td>
<td>43</td>
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<tr>
<td></td>
<td>1-3/4 to 2-3/4</td>
<td>43</td>
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<td></td>
<td>2-1/2 to 3-1/2</td>
<td>52</td>
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<td>3-1/4 to 4-1/4</td>
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<td>0 to 1-1/2</td>
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<td>2-3</td>
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<td>2-3/4 to 4</td>
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<td>3-3/4 to 5</td>
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<td>0 to 2-1/2</td>
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<td>7-9</td>
<td>350</td>
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<td></td>
<td>1/2-3</td>
<td>470</td>
</tr>
<tr>
<td></td>
<td>1/2-3</td>
<td>1350</td>
</tr>
</tbody>
</table>

Available in other plate thicknesses for any of the above rated capacity.
* For handling heavy plate or hot material, see Model R.

Model FR
Vertical Lifting, Locking

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.

<table>
<thead>
<tr>
<th>Rated Capacity Tons</th>
<th>Plate Thickness</th>
<th>Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>0-3/4</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>1/2-1</td>
<td>8</td>
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<tr>
<td></td>
<td>3/4 to 1-1/4</td>
<td>9</td>
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<td>1 to 1-1/2</td>
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<td>1-1/4 to 1-3/4</td>
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<td>1/2-1</td>
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<tr>
<td></td>
<td>3/4 to 1-1/4</td>
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<tr>
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<td>1 to 1-1/2</td>
<td>16</td>
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<td></td>
<td>1-1/4 to 1-3/4</td>
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<td></td>
<td>1-1/2 to 2</td>
<td>18</td>
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<td>0-1</td>
<td>23</td>
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<td></td>
<td>3/4 to 1-1/2</td>
<td>23</td>
</tr>
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<td></td>
<td>1-1/4 to 2</td>
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<td></td>
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<td>3-3/4 to 1-1/2</td>
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<tr>
<td></td>
<td>1-1/4 to 2</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>1-3/4 to 2-1/2</td>
<td>33</td>
</tr>
</tbody>
</table>

Specifications in inches
# Model TL / TLA Lifting Clamps

## Model TL

**Vertical Lifting, Locking**

The Model TLA is a vertical lifting clamp incorporating a 'Lock Open' and a 'Lock Closed' feature and an auxiliary lock. The clamp is capable of turning a steel plate from horizontal to vertical through a 180 degree arc. The 'Lock Open', 'Lock Closed' feature facilitates attaching and removing the clamp from the plate.

The Model TL is identical to the Model TLA except that it does not contain the auxiliary lock. The Model TL is capable of turning a plate from horizontal to vertical and back through the same 90 degree arc.

### Specifications in inches

<table>
<thead>
<tr>
<th>Rated Capacity Tons</th>
<th>Plate Thickness</th>
<th>Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>0-5/8</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>1/2-1</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>3/4 to 1-1/4</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>1-1/4 to 1-3/4</td>
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<td>0-3/4</td>
<td>14</td>
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<tr>
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<td>1/2-1</td>
<td>15</td>
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<td>3/4 to 1-1/4</td>
<td>16</td>
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<tr>
<td></td>
<td>1 to 1-1/2</td>
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<td>18</td>
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<td>3/4 to 1-1/2</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>1-1/4 to 2</td>
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<td>2 to 2-3/4</td>
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<tr>
<td></td>
<td>1 to 2-1/8</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>2 to 3-1/8</td>
<td>54</td>
</tr>
<tr>
<td></td>
<td>3 to 4-1/8</td>
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<tr>
<td></td>
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</tr>
<tr>
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<td>1 to 2-1/8</td>
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<td>2</td>
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</tr>
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<td>150</td>
</tr>
<tr>
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<td>3-5</td>
<td>154</td>
</tr>
<tr>
<td></td>
<td>4-6</td>
<td>158</td>
</tr>
<tr>
<td></td>
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<td>415</td>
</tr>
<tr>
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<td>2-1/2 to 4-1/2</td>
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<td>1-1/4 to 1-3/4</td>
<td>13</td>
</tr>
<tr>
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<td>0-3/4</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>1/2-1</td>
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<tr>
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<tr>
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<td>49</td>
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<tr>
<td></td>
<td>1 to 2-1/8</td>
<td>51</td>
</tr>
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<td>2 to 3-1/8</td>
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<tr>
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<td>57</td>
</tr>
<tr>
<td></td>
<td>3/8 to 1-1/2</td>
<td>72</td>
</tr>
<tr>
<td></td>
<td>1 to 2-1/8</td>
<td>74</td>
</tr>
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<td>2 to 3-1/8</td>
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<tr>
<td></td>
<td>1/2 to 3</td>
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<td>5-7</td>
<td>445</td>
</tr>
</tbody>
</table>

WARNING

SEE WARNING INFORMATION ON PAGES 546 - 549.
Model BD / M Lifting Clamps

Model BD
Vertical Lifting, Non-Locking

The Model BD is a vertical lifting clamp used primarily for steel warehousing and bench work where a locking type clamp is not essential. The clamp is a low-cost, low maintenance tool that features lightweight and compact size.

It is recommended for use and application where constant tension is applied to the lifting shackle throughout the entire operation.

<table>
<thead>
<tr>
<th>Rated Capacity</th>
<th>Plate Thickness</th>
<th>Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 Tons</td>
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</tr>
<tr>
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<tr>
<td>4</td>
<td>0 to 1-3/4</td>
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</tr>
<tr>
<td>7</td>
<td>1/4 to 2-1/2</td>
<td>70</td>
</tr>
</tbody>
</table>

Specifications in inches

Call us for your clamp repair or inspection needs!

All brands and capacities...
including, but not limited to: Renfroe, The Crosby Group, Campbell, CM, SuperClamp and Terrier.

Contact your local Lifting Specialist to arrange for pick-up of your lifting clamps for inspection and/or repair!

Model M
Locking

The Model M is a multipurpose clamp used for positioning, sorting, erection and handling of prefabricated sections. The split lower jaw enables the clamp to be particularly useful in handling structural shapes.

The Model M incorporates a "Lock Closed" feature which facilitates attaching the clamp to the member being lifted and makes it an ideal horizontal locking plate clamp. It is recommended for use in pairs and sets of pairs.

Handle is available on 8 ton clamp only.

<table>
<thead>
<tr>
<th>Rated Capacity</th>
<th>Plate Thickness</th>
<th>Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2 Tons</td>
<td>0-1</td>
<td>7</td>
</tr>
<tr>
<td>3/4 to 1-1/2</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>1-1/4 to 2</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>1-1/4 to 2</td>
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<tr>
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<td>13</td>
<td></td>
</tr>
<tr>
<td>1-1/4 to 2</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>1-1/2 to 2-1/2</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>1-3/4 to 2</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>1-1/4 to 2</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>2-1/4 to 3-1/2</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>0 to 1-1/2</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>1-1/4 to 2-1/2</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>2-1/4 to 3-1/2</td>
<td>41</td>
<td></td>
</tr>
<tr>
<td>0 to 1-1/2</td>
<td>107</td>
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</tr>
<tr>
<td>1-3/4 to 3-1/2</td>
<td>110</td>
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<tr>
<td>3-1/4 to 5</td>
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</tr>
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</table>

Specifications in inches
### Model HR / HDR / WHSR Lifting Clamps

#### Model HR / HDR
**Horizontal Lifting, Non-Locking**

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.

The Model HDR is similar to the Model HR except that it contains dual cam assemblies which provide two gripping surfaces.

Equipped with serrated gripping cams as standard equipment, both 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 WHSR
**Horizontal Lifting, Non-Locking**

The Model WHSR is an adjustable, horizontal clamp intended to be used in pairs, sets of pairs, or in a tripod arrangement for transporting steel plates horizontally.

In addition to incorporating two gripping cams, the jaw opening may be adjusted by the positioning of a pin in the body of the clamp. The gripping cams are spring loaded to remain in the "open" position until the load is applied. This feature permits the clamp to be easily applied and removed from the load. Normally furnished with serrated gripping surfaces, it is available with smooth faced bronze or stainless steel surfaces to prevent marring when handling polished plates.

#### Specifications in inches

<table>
<thead>
<tr>
<th>Rated Capacity Tons</th>
<th>Plate Thickness (in)</th>
<th>Weight Lbs.</th>
</tr>
</thead>
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<td>0-1</td>
<td>3.5</td>
</tr>
<tr>
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</tr>
<tr>
<td>3/4</td>
<td>0-2</td>
<td>19</td>
</tr>
<tr>
<td>1-1/2</td>
<td>0-2</td>
<td>23</td>
</tr>
<tr>
<td>3</td>
<td>0-2</td>
<td>24</td>
</tr>
<tr>
<td>4</td>
<td>0-3</td>
<td>31</td>
</tr>
</tbody>
</table>

No backpad on 1/4, 1/2, 3/4 or 1-1/2 ton models.

<table>
<thead>
<tr>
<th>Rated Capacity Tons</th>
<th>Plate Thickness (in)</th>
<th>Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2</td>
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<td>44</td>
</tr>
<tr>
<td>3</td>
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<td>0-2</td>
<td>53</td>
</tr>
<tr>
<td>8</td>
<td>0-3</td>
<td>84</td>
</tr>
</tbody>
</table>

No backpad on 1-1/2 or 3 ton models.

#### Specifications in inches

<table>
<thead>
<tr>
<th>Rated Capacity Tons</th>
<th>Plate Thickness (in)</th>
<th>Weight Lbs.</th>
</tr>
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</tr>
<tr>
<td>0-12</td>
<td>60</td>
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</tr>
<tr>
<td>0-16</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>0-6</td>
<td>86</td>
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<td>0-12</td>
<td>90</td>
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</tr>
<tr>
<td>0-16</td>
<td>104</td>
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</tr>
<tr>
<td>0-6</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>0-12</td>
<td>94</td>
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</tr>
<tr>
<td>0-16</td>
<td>112</td>
<td></td>
</tr>
<tr>
<td>0-6</td>
<td>108</td>
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</tr>
<tr>
<td>0-12</td>
<td>114</td>
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</tr>
<tr>
<td>0-16</td>
<td>154</td>
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</tr>
<tr>
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</tr>
<tr>
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</tr>
<tr>
<td>0-16</td>
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</tbody>
</table>

---

**WARNING**

SEE WARNING INFORMATION ON PAGES 546 - 549.
Model JPA / SEA
Lifting Clamps

Model JPA
Vertical Lifting, Locking

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 Specifications 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.

<table>
<thead>
<tr>
<th>Rated Capacity Tons</th>
<th>Plate Thickness</th>
<th>Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2</td>
<td>0-5/8</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>1/2-1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3/4 to 1-1/4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-1/4 to 1-3/4</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>0-3/4</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>1/2-1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3/4 to 1-1/4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 to 1-1/2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-1/2 to 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0-1</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>3/4 to 1-1/2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-1/4 to 2</td>
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<td>3/16 to 1-1/4</td>
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<td>3-4</td>
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</tr>
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<td>6</td>
<td>1/4 to 1-3/8</td>
<td>72</td>
</tr>
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<td>1 to 2-1/8</td>
<td></td>
</tr>
<tr>
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<td>2 to 3-1/8</td>
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</tr>
<tr>
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<td>3 to 4-1/8</td>
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</tr>
<tr>
<td>8</td>
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<td>93</td>
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</tr>
<tr>
<td></td>
<td>3 to 4-1/8</td>
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</tr>
<tr>
<td>12</td>
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<tr>
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</tr>
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</tr>
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<td>625</td>
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<tr>
<td>50</td>
<td>3-5</td>
<td>1306</td>
</tr>
</tbody>
</table>

Specifications in inches

Model SEA
Vertical Lifting, Locking

The Model SEA is a clamp used primarily for erection of structural beams. Configuration of the lower hook assembly and the over center position of the shackle permits a clamp to grip closer to the beam web, stabilizing the load and holding it with the web near horizontal for easy alignment of bolt holes.

The clamp incorporates a “Lock Open” and “Lock Closed” feature which facilitates in attaching and removing the clamp from the beam.

<table>
<thead>
<tr>
<th>Rated Capacity Tons</th>
<th>Plate Thickness</th>
<th>Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0-3/4</td>
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<td>2</td>
<td>0-1</td>
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<td>0 to 1-1/2</td>
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</tr>
<tr>
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<td>1 to 2-1/2</td>
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</tr>
<tr>
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<td>3/4 to 2-1/4</td>
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</tr>
<tr>
<td>15</td>
<td>2 to 3-1/2</td>
<td>350</td>
</tr>
</tbody>
</table>

Specifications in inches
Model NM / SCP / SCPA Lifting Clamps

Model NM
Locking, Screw

The Model NM clamp (non-marring) is manufactured with smooth gripping surfaces to prevent marring when gripping stainless steel, copper, aluminum and other polished metal plates.

Due to the variety of conditions that may exist in handling these plates, it is recommended that these clamps be used in pairs and attached to a chain or wire rope sling, supported by a spreader beam.

The Model NM is supplied with stainless steel gripping surfaces and is available with steel or bronze upon request.

<table>
<thead>
<tr>
<th>Rated Capacity Tons</th>
<th>Plate Thickness</th>
<th>Weight Lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0-3/4</td>
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</tr>
<tr>
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<td>3/4 to 1-1/4</td>
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</tr>
<tr>
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<td>1-3/4 to 2-1/4</td>
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</tr>
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<td>0-1</td>
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<td>3/4 to 1-1/2</td>
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</tr>
<tr>
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</tr>
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<tr>
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<td>50</td>
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<tr>
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<td>3 to 4-1/4</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>1-1/2 to 4-1/4</td>
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<td>1-3/4 to 3-1/2</td>
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<td>4 to 5-1/2</td>
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<td>2-4</td>
<td>200</td>
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<td>3-3/4 to 6-1/2</td>
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</tr>
<tr>
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<td>4-1/2 to 6</td>
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Specifications in inches

<table>
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<th>Model SCP</th>
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</thead>
</table>

<table>
<thead>
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<th>Rated Capacity Tons</th>
<th>Plate Thickness</th>
<th>Weight Lbs.</th>
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<tbody>
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<td>1-1/2</td>
<td>0 to 1-1/4</td>
<td>15</td>
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<tr>
<td>3</td>
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<tr>
<td>6</td>
<td>0-2-1/2</td>
<td>57</td>
</tr>
<tr>
<td>10</td>
<td>0-3</td>
<td>134</td>
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<tr>
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Specifications in inches

| Model SCPR |

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<tr>
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<td>0 to 1-1/4</td>
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<tr>
<td>3</td>
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<td>24</td>
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<tr>
<td>6</td>
<td>0-2-1/2</td>
<td>57</td>
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<tr>
<td>10</td>
<td>0-3</td>
<td>134</td>
</tr>
<tr>
<td>15</td>
<td>0-4</td>
<td>312</td>
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</tbody>
</table>
Model AC / ACP
AST / ASTL
Lifting Clamps

Model AC / ACP
Locking, Screw

These clamps may be used for Drifting Loads when used in pairs or multiples.

The Models AC and ACP are light weight, portable clamps that provide quick easy attachment to structural members for the use of chain falls, hoists and wire rope pullers. These clamps are of single unit construction with a quick-acting hand screw to secure the clamp.

The Model AC has a fixed Shackle Eye, and the Model ACP has a pivoting Shackle Eye. These clamps are especially useful in the construction and maintenance for shipbuilding and other industries.

Model AST / ASTL
Non-Locking

Both the Model AST and ASTL were developed primarily for lifting, turning and stacking lightweight beams and structural shapes while a constant tension is applied to the lifting shackle. 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 overhanging the flange, the beam can be lifted, turned 90 degrees, and raised in a vertical position.

The Model ASTL includes all of the feature of the Model AST, plus a linkage which permits the tool to be removed remotely by setting the load down with the sling slack, then lifting the crane hook.

Model AC

<table>
<thead>
<tr>
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<th>Weight Lbs.</th>
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<tbody>
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<td>1/4 to 5/8</td>
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Model ACP

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<th>Weight Lbs.</th>
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</thead>
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<td>1/4 to 5/8</td>
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Model AST

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<tr>
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Model ASTL

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WARNING
SEE WARNING INFORMATION ON PAGES 546 - 549.
Model A-1 / B-1
Beam Clamps

Model A-1
Locking Type

The Model A-1 is a portable beam clamp that provides easy suspension of hoists from beams or girders, thereby eliminating the need for nuts, bolts, shackles and so on.

The Model A-1 is designed for use on channel or angle shapes only. This model is furnished with a fluted tool steel locking wedge which holds the clamp in place on channels or angles. When the load is attached to the clamp body, the tool cannot be removed from the beam.

---

Model B-1
Locking Type

The Model B-1 is a portable beam clamp that provides easy suspension of hoists from beams or girders, thereby eliminating the need for nuts, bolts, shackles and so on.

The Model B-1 is intended for use on the American standard or wide flange beams. This model is furnished with a fluted tool steel locking wedge which holds the clamp in place on a beam. When the load is attached to the clamp body, the tool cannot be removed from the beam.

---

### Specifications in inches

<table>
<thead>
<tr>
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<th>Plate Thickness</th>
<th>Weight Lbs.</th>
</tr>
</thead>
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<tr>
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<td>2-4</td>
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<tr>
<td>3</td>
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<td>27</td>
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<td>36</td>
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### Specifications in inches

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<th>Weight Lbs.</th>
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<td>1-1/2 to 4</td>
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<tr>
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<td>6-24</td>
<td>209</td>
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</table>
Clamp-Co Pipe Grabs

Crosby Clamp-Co Pipe Grabs provide an excellent means of handling cylindrical objects as long as they meet "Pipe O.D." and "Working Load Limits" referenced in the table below.

- Capacities: 450 lbs. to 7,000 lbs.
- Moveable outriggers help stabilize the load.
- No blocking of load required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Designed to handle loads of various types of material, including:
  - Cast Iron
  - Steel
  - PVC
  - C900
  - Yellowmine Ductile Iron
  - Cement Pipe
- Finish - Red Paint.
- Custom sizes are available.
- All sizes are RFID EQUIPPED.

For Cast Iron Pipe—C-900, C-905, Bluestripe C-906, Certa-Lok PVC Pressure Pipe

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<tbody>
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</tbody>
</table>

* Maximum Proof Load is 2 times the Working Load Limit and design factor based on EN13155 and ASME B30.20.

For Steel Pipe—SDR Class 200, Yellowmine, PVC Schedule 40, 80 and 120

<table>
<thead>
<tr>
<th>Model No.</th>
<th>CCPG-200 Stock No.</th>
<th>Working Load Limit (lbs.) *</th>
<th>Pipe O.D. (in.)</th>
<th>Weight Each (lbs.)</th>
<th>Dimensions (in.)</th>
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<td>31.00</td>
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</tbody>
</table>

* Maximum Proof Load is 2 times the Working Load Limit and design factor based on EN13155 and ASME B30.20.
Clamp-Co Beam Clamps

Crosby Clamp-Co Beam Clamps provide an efficient method for handling wide flange beam sections and plate girders. When lifting, these beam clamps grip the beam at three points, and when properly balanced and safely guided, the beam can be handled even if the clamp is slightly off center lengthwise.

- Capacities: 5 Tons to 35 Tons
- Eliminates the need for slings, chokers and spreader bars.
- When applied to load, the tongs automatically open and slide under the flange of the beam.
- Center plate and gripping tongs work together - the heavier the beam, the greater the clamping pressure.
- Model "NS" clamps have a recessed base to accept studs welded to the beam surface.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Finish - Red Paint.
- All sizes are RFID EQUIPPED.

Note: Control the beam at all times. Beams should be gripped as near the center as possible. Snubbing lines at each end must be used to control excessive twisting or swinging, and to guide the beam to its proper place. Each lifting situation may have a specific demand which should be addressed before lifting.

<table>
<thead>
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</tbody>
</table>

* Maximum Proof Load is 2 times the Working Load Limit and design factor based on EN13155 and ASME B30.20.
**IPTK / IPTKW / IPTKU Beam Clamps**

For the Transfer of Steel Beams and Attachment of Tackle Eye

- Available in capacities of 2 thru 25 metric tons.
- Wide variety of jaw openings available: 3” to 40”.
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Company name (CrosbyIP), logo, Working Load Limit and jaw opening permanently stamped on body.
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. Serial number is included on the test certificate with maintenance and warranty logbook.
- Maintenance replacement parts are available.
- Manufactured by a ISO 9001 facility.
- All sizes are RFID EQUIPPED.

<table>
<thead>
<tr>
<th>Model</th>
<th>Working Load Limit (t) *</th>
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<th>Weight Each (lbs.)</th>
<th>Dimensions (in.)</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Jaw A</td>
</tr>
<tr>
<td>IPTK</td>
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<td></td>
<td>2</td>
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Without Hoisting Eye

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<tbody>
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<tr>
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With Improved Hoisting Eye

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</thead>
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<td></td>
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<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
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<td></td>
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<td>3</td>
</tr>
<tr>
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<td></td>
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With Optional Double Locking Device

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<th>Dimensions (in.)</th>
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</thead>
<tbody>
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<td></td>
<td></td>
<td>Jaw A</td>
</tr>
<tr>
<td>IPTKU/D</td>
<td></td>
<td></td>
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<td>3</td>
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<td></td>
<td></td>
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</tr>
</tbody>
</table>

* Design Factor based on EN 13155 and ASME B30.20.
SAC Plate Clamp

Product Features:

- Recommended for turning plates from horizontal to vertical, as well as through a 180° arc
- The convex, serrated cam swivels on a ball joint so that the area of cam engagement increases as load increases
- Drop forged body and shackle
- Clamps 100% Proof Tested, a Certificate of Test supplied with each clamp
- **Note:** SCREW NEEDS TO BE HAND TIGHT ONLY! DO NOT OVERTIGHTEN.
- Available in the following sizes:
  - SAC-1: 0" to 1" grip; 1 Ton Working Load Limit
  - SAC-3: 0" to 2" grip; 3 Ton Working Load Limit
  - SAC-6; 0" to 3" grip; 6 Ton Working Load Limit

GXL Clamp

Product Features:

- Drop-forged and heat treated components
- Can be used for both vertical and horizontal to vertical lifting through 180°
- Gripping surfaces of case hardened alloy steel
- Exclusive feature is a patented wear indicator system
- When convex teeth are flattened between unique wear indicator grooves
- It is time to change the cam
- **Note:** The Pad and Cam should be replaced at the same time
- Newly designed "Cam Engaging Lever" keeps the cam in contact with plate
- The tension arm and spring mechanism facilitate attaching and removing clamp
- Clamps 100% Proof Tested, a Certificate of Test supplied with each clamp
- **Warning:** Never tamper with clamp's tension arm and spring mechanism during a lift
- Available in the following sizes:
  - 1/16" to 3/4" grip; 1 Ton Working Load Limit
  - 1/16" to 7/8" grip; 2 Ton Working Load Limit
  - 1/16" to 5/8" grip; 1/2 Ton Working Load Limit
Locking E Clamp

Product Features:
- Clamp lifts from either horizontal or vertical position
- Clamps turn plates through 90°
- Locks open or closed with a lever
- Has large throat that gives a secure bite and wide grip range
- **Note:** Be sure clamp is in lock closed position before making lift
- Clamps 100% Proof Tested, a Certificate of Test supplied with each clamp
- **Warning:** Never tamper with clamp’s tension arm and spring mechanism during a lift
- Available in the following sizes:
  - Model 3E; 0” to 1-1/4” grip; 3 Ton Working Load Limit
  - Model 5E; 0” to 1-1/2” grip; 5 Ton Working Load Limit
  - Model 5E; 1-1/4” to 2-1/4” grip; 5 Ton Working Load Limit
  - Model 8E; 1/2” to 2-1/2” grip; 8 Ton Working Load Limit

GX Clamp

Product Features:
- Drop-forged and heat treated components
- Can be used for both vertical and horizontal-to-vertical through 180°
- Exclusive feature is a patented wear indicator system
- When convex teeth are flattened between unique wear indicator grooves, it is time to change the cam
- **Note:** The Pad and Cam should be replaced at the same time
- Clamps 100% Proof Tested, a Certificate of Test supplied with each clamp
- Fewer stress points and less chance of side loading damage
- Available in the following sizes:
  - 1/16” to 5/8” grip; 1/2 Ton Working Load Limit
  - 1/16” to 3/4” grip; 1 Ton Working Load Limit
  - 1/16” to 1” grip; 3 Ton Working Load Limit
  - 1/2” to 2” grip; 5 Ton Working Load Limit
  - 5/8” to 1-1/8” grip; 1/2 Ton Working Load Limit
  - 3/4” to 1-3/8” grip; 1 Ton Working Load Limit
  - 1” to 1-3/4” grip; 3 Ton Working Load Limit
Adjustable Universal Rail Lifting Clamps

Developed for standard rail sections, these clamps are adjustable and provide a reliable and secure grip on the rail when tightened. Its lightweight, versatile adjustability and low maintenance requirements make these clamps a highly recommendable unit for all engaged in the rail industry.

**Model: Adjustable Universal Rail Lifting Clamp**
- Designed to grip on all standard AREA Rail & Crane Rail
- Positive Grip through left/right threaded adjusting bar
- Lightweight and versatile adjustability
- No tools required
- Integrated lifting shackle
- Ideal for construction, erection and maintenance

<table>
<thead>
<tr>
<th>Model</th>
<th>WLL at 0° Vertical</th>
<th>Jaw Grip Adjustment</th>
<th>Inside Shackle Crown to Spacer</th>
<th>Average Weight</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>lbs.</td>
<td>kg</td>
<td>in.</td>
<td>lbs.</td>
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<tr>
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<tr>
<td>R2</td>
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<td>5,080</td>
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Beam / Girder Clamps

These clamps are a practical solution to widespread lifting operations requirements. Ease of application, time and labor saving elements are of economical importance. Safety in application and practical design is what every user requires. The SUPERCLAMP product integrates all of these factors and makes lifting operations safer and financially rational.

**Model: Swivel Jaw Adjustable Girder Clamp**
- One piece adjustable design
- Used for lifting, pulling as an anchor point
- Added benefit of horizontal jaw adjustment
- Full length / width of swivel jaw anchors on flange
- Integrated lifting shackle
- Positive Grip left / right threaded adjusting bar

- For use at up to 15° from vertical
- Approved for Personnel tie-off use (contact your Lifting Specialist for additional information)

<table>
<thead>
<tr>
<th>Model</th>
<th>WLL at 0-15° Vertical</th>
<th>Jaw Grip Adjustment (in.) Min-Max</th>
<th>Jaw Aperture</th>
<th>Inside Shackle Crown to Spacer</th>
<th>Average Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lbs.</td>
<td>kg</td>
<td>Jaw Aperture</td>
<td>Crown to Spacer in.</td>
<td>lbs.</td>
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<tr>
<td>S5</td>
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<td>1</td>
<td>22</td>
</tr>
<tr>
<td>S5A</td>
<td>6,720</td>
<td>3,048</td>
<td>3.5 - 12</td>
<td>1</td>
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<td>S6</td>
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<td>5,080</td>
<td>3.5 - 12</td>
<td>1</td>
<td>30.4</td>
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<tr>
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<td>11,200</td>
<td>5,080</td>
<td>3.5 - 12</td>
<td>1</td>
<td>33.5</td>
</tr>
<tr>
<td>S11</td>
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<td>10,180</td>
<td>3.5 - 12</td>
<td>1</td>
<td>45.4</td>
</tr>
</tbody>
</table>

J Henry Holland
Phone: 757-460-3300
www.jhenryholland.com

Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com

Tennessee Sling Center
Phone: 901-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com

KCI Crane Service
Phone: 205-345-4701
www.kcicraneservice.com
Beam / Girder Clamps (Continued)

These clamps are a practical solution to widespread lifting operations requirements. Ease of application, time and labor saving elements are of economical importance. Safety in application and practical design is what every user requires. The SUPERCLAMP product integrates all of these factors and makes lifting operations safer and financially rational.

Model: Fixed Jaw Adjustable Girder Clamp
- One piece adjustable design
- Used for lifting, pulling or as an anchor point
- No tools required for mounting / removal
- Integrated lifting shackle
- Positive Grip left / right threaded adjusting bar
- Designed with maximum safe jaw grip adjustment
- For use at up to 15° from vertical
- Approved for Personnel tie-off use (contact your Lifting Specialist for additional information)

<table>
<thead>
<tr>
<th>Model</th>
<th>WLL at 0-15° Vertical</th>
<th>Jaw Grip Adjustment (in.) Min-Max</th>
<th>Jaw Aperture</th>
<th>Inside Shackle Crown to Spacer</th>
<th>Average Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>lbs.</td>
<td>kg</td>
<td>in.</td>
<td>lbs.</td>
<td>in.</td>
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<tr>
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<td>7/8</td>
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<td>3,048</td>
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<td>3-3/4</td>
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<tr>
<td>S2A</td>
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<td>3-7-1/2</td>
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<td>3-3/4</td>
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<tr>
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<td>7/8</td>
<td>3-9/10</td>
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<td>5,080</td>
<td>3-7-1/2</td>
<td>7/8</td>
<td>4-1/8</td>
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<tr>
<td>S3A</td>
<td>11,200</td>
<td>5,080</td>
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<td>1-5/8</td>
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<tr>
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<td>5-1/8</td>
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<tr>
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<tr>
<td>S14</td>
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<td>15,241</td>
<td>16-24</td>
<td>2-1/2</td>
<td>5-7/8</td>
</tr>
</tbody>
</table>

Call us for your clamp repair or inspection needs!

All brands and capacities...
including, but not limited to: Renfroe, The Crosby Group, Campbell, CM, SuperClamp and Terrier.

Contact your local Lifting Specialist to arrange for pick-up of your lifting clamps for inspection and/or repair!
TSU / STSU Vertical Clamps

- For lifting and transporting steel plates and structures from all positions (horizontal, vertical and sidelong).
- Articulated lifting shackle.
- Terrier TSU / STSU lifting clamps are equipped with a safety mechanism, ensuring the clamp does not slip when lifting force is applied and when load is being lowered.
- The clamp is locked in closed, as well as in open position.
- Lifting capacity and jaw openings are clearly engraved in the body.
- STSU type clamps are supplied with a larger jaw opening.
- Minimum WLL is 10 % of the maximum WLL

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Type</th>
<th>Capacity (lbs. / each)</th>
<th>Jaw Opening (in.)</th>
<th>Weight (lbs. / each)</th>
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<td>8</td>
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<td>0 - 2.17</td>
<td>70</td>
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<td>955170</td>
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<td>13200</td>
<td>1.57 - 3.54</td>
<td>70</td>
</tr>
<tr>
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<td>16500</td>
<td>1.97 - 3.94</td>
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<td>88</td>
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<td>1.97 - 3.94</td>
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<td>3.15 - 5.91</td>
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<td>44000</td>
<td>3.15 - 5.91</td>
<td>330</td>
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<td>966250</td>
<td>25 STSU</td>
<td>55000</td>
<td>3.15 - 5.91</td>
<td>330</td>
</tr>
<tr>
<td>966300</td>
<td>30 STSU</td>
<td>66000</td>
<td>3.15 - 5.91</td>
<td>341</td>
</tr>
</tbody>
</table>
FHX / FHSX
Horizontal Clamps

- For horizontal lifting and transporting of steel plates.
- Has a compact shape and relative light unit weight with a high lifting capacity.
- Terrier FHX / FHSX lifting clamps must always be used in pairs (or multiples thereof).
- Lifting capacity and jaw opening are clearly engraved in the body.
- The FHSX has a larger jaw opening.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Type</th>
<th>Capacity (lbs. / each)</th>
<th>Jaw Opening (in.)</th>
<th>Weight (lbs. / each)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model FHX</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>953100</td>
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<td>6</td>
</tr>
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<td>3,300</td>
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<td>25</td>
</tr>
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<tr>
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<td>13,200</td>
<td>0 - 3.94</td>
<td>48</td>
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<td>853820</td>
<td>15 FHSX</td>
<td>16,500</td>
<td>0 - 5.91</td>
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</table>
**TSCC Screw Clamps**

- Universal screw clamp for vertical and horizontal lifting and transporting of large variety of steel structures.
- The TSCC screw clamp is fitted with a moveable cam on the thread spindle which provides a powerful clamping force on the work piece.
- The articulated lifting eye ensures an effective clamping force in every position.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Type</th>
<th>Capacity (lbs. / each)</th>
<th>Jaw Opening (in.)</th>
<th>Weight (lbs. / each)</th>
</tr>
</thead>
<tbody>
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<td>0.5 TSCC</td>
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</table>
Lifting Clamps

Product Warnings
Definitions / Warnings

**WARNING**

VERTICAL LIFT: The lifting of a single plate or member in which the lifting force exerted by the rigging is directly above and in line with the lifting shackle.

VERTICAL TURN/LIFT: A vertical turn/lift clamp is a vertical lifting clamp specifically intended to turn a single plate or member thru a ninety degree (90°) arc and back to vertical thru the same ninety degree (90°) arc or from horizontal to vertical to horizontal thru a one hundred and eighty degree (180°) arc.

During the turning operation the edge of the plate opposite the edge to which the clamp is attached should always be in contact with a supporting surface such as a factory floor and the load on the clamp should not exceed one half rated capacity of clamp.

HORIZONTAL LIFT: Clamps (used in pairs or multiples) are attached to the side edges of a plate or bundle of plates positioned horizontally to the floor level. The rigging attached to clamps is generally multi-legged slings with the connecting point of the slings being approximately centered between the distance separating the clamps.

**WARNING:** The capacity of all horizontal clamps is based on a sling angle of sixty degrees (60°). Sling angles less than sixty degrees (60°) increase the load exerted on the clamps. Sling Angles greater than 60° reduce gripping force. Do not exceed 60°.

STEEL PLATES: Unless otherwise specified, lifting clamps are manufactured to handle hot-rolled steel plates whose Brinell Hardness does not exceed 300.

**WARNING:** Never use a clamp for lifting a plate where the plate thickness is less than or greater than the minimum and maximum stenciled on the clamp.

FINISHED AND POLISHED PLATES: Steel plates in this category having other than hot-rolled surfaces such as stainless steel, etc., are generally handled using non-marring clamps incorporating smooth gripping surfaces.

**WARNING:** For applications using clamps with serrated gripping surfaces on finished or polished plates, secure written recommendations from RENFROE.

STRUCTURAL MEMBERS—FABRICATED SECTIONS: Unless otherwise specified, clamps described as capable of handling structural members and fabricated sections are limited to hot-rolled steel whose Brinell Hardness does not exceed 300.

**WARNING:** For applications not covered by the above information, secure written recommendations from RENFROE.

RATED CAPACITY: ALL RENFROE CLAMPS ARE RATED INDIVIDUALLY. The rated capacity of a RENFROE product is based on the product being in 'new or as new' condition and represents the maximum load the product is to be subjected to when utilized in the manner described in this manual. Wear, misuse, abuse and other factors relating to usage may reduce the rated capacity. A 20% UNDERLOADING CAN BE ALLOWED WHEN THE CONDITIONS AND WARNINGS ARE MET IN THIS MANUAL. UNDER LOADING OCCURS WHEN LESS THAN 50% OF LOAD RATING OF A CLAMP IS LIFTED. Shock loading and the factors listed must be taken into consideration when selecting a RENFROE product for a given application.

PLATE THICKNESS: The minimum and maximum plate thickness a clamp specified for handling plates is capable of lifting.

**WARNING:** Never use a clamp for lifting a plate where the plate thickness is less than or greater than the minimum and maximum stenciled on the clamp.

**For complete warning and application information, see J.C. Renfroe & Sons at www.jcrenfroe.com**

Continued on next page.
Definitions / Warnings
(Continued)

WARNING

JAW OPENING: The minimum and maximum thickness of a member of a clamp specified as having a JAW OPENING is capable of handling.

WARNING: Never use a clamp on a member whose thickness is less than or greater than the range of jaw opening stenciled on the clamp.

OPERATING TEMPERATURES: Unless specified under the Applications Section of the individual model, the approved operating temperature of RENFROE clamps is from zero degrees Fahrenheit (-18 Celsius) to a maximum of 200 degrees Fahrenheit (+93 degrees Celsius). The minimum and maximum temperatures apply to both ambient and the material being handled by the clamp.

WARNING: Secure written authorization from RENFROE before using clamps in temperatures other than shown.

‘HOT LIFTS’: The Model R and S clamps are available in modifications that are capable of making lifts where the temperatures of the member being lifted exceeds 200 degrees Fahrenheit (+93 degrees Celsius). Depending on conditions a lift may exceed 1000 degrees Fahrenheit (538 degrees Celsius). The exact application and temperatures of the plates to be handled are critical in selecting the proper model.

WARNING: Secure written instructions from RENFROE for all hot lift applications.

LOCKING CLAMPS: Locking clamps are divided into the categories listed below. With the exception of the ‘Locking Wedge’ and ‘Locking Screw’ type the purpose of the locks are to facilitate the attaching and removing of the clamp from the member being handled.

‘Lock Closed’ - an overcenter spring loaded mechanism in which the spring exerts a force on the gripping cam when the lock handle is moved to the ‘Lock Closed’ position. When the handle is moved to the ‘Lock Open’ the gripping cam is maintained in the retracted position for ease in installing the clamp on a plate or member. The Model FRD contains individual ‘Lock Open’ and ‘Lock Closed’ mechanisms that must be operated separately. Typical ‘Lock Open-Lock Closed’ clamps are Models FRD, R, S, SD, SEA, SX, TL, TLA and the J-Series.

‘Locking Wedge’ - is a fluted steel wedge that is driven in place with a hammer. The body of the wedge is positioned in a slot in the clamp body with the fluted edges contacting the member to which the clamp is being attached. Typical ‘Locking Wedge’ clamps are Models A1, B1, B2 and PB.

‘Locking Screw’ - ‘Lock Screw’ clamps depend on manually adjusting a screw to hold the gripping surface in place for lifting and removing the clamp from member being lifted. Typical ‘Locking Screw’ clamps are Models AC, ACP, BC, NM, PC, SCP, SCPA and RSC.

NON-LOCKING: ‘Non-Locking’ clamps have no mechanisms to aid in attaching or removing clamp from member being lifted. It is necessary to have position of clamp maintained on the member being lifted until a properly applied force is exerted to the lifting shackle. Typical ‘Non-Locking’ clamps are Models AST, ASTL, BD, HR, HDR, HRS and WHSR.

WARNING: A pointing out and notice of danger. The purpose of a ‘WARNING’ is to apprise the operator and all other affected persons of the existence of danger of which he should be but may not be aware; and to enable the operator to protect himself and others, where applicable, against such danger. An attempt is made herein to warn against reasonable and reasonably foreseeable danger in the proper use and possible reasonable misuse of RENFROE products.

For complete warning and application information, see J.C. Renfroe & Sons at www.jcrenfroe.com
SAC Plate Clamp

**Warnings**

*WARNING*

- Select proper size clamp for the job.
- Determine the weight of the plate to be lifted.
- Do not exceed WLL (Working Load Limit) shown on clamp.
- Plate thickness must be within grip range shown on clamp.

For **complete** warning and application information, see Apex Tool Group at www.apexhandtools.com

---

Locking E Clamp

**Warnings**

*WARNING*

- Select proper size clamp for the job.
- Determine the weight of the plate to be lifted.
- Do not exceed WLL (Working Load Limit) shown on clamp.
- Plate thickness must be within grip range shown on clamp.

For **complete** warning and application information, see Apex Tool Group at www.apexhandtools.com

---

GXL Clamp

**Warnings**

*WARNING*

- Select proper size clamp for the job.
- Determine the weight of the plate to be lifted.
- Do not exceed WLL (Working Load Limit) shown on clamp.
- Plate thickness must be within grip range shown on clamp.

For **complete** warning and application information, see Apex Tool Group at www.apexhandtools.com

---

GX Clamp

**Warnings**

*WARNING*

- Select proper size clamp for the job.
- Determine the weight of the plate to be lifted.
- Do not exceed WLL (Working Load Limit) shown on clamp.
- Plate thickness must be within grip range shown on clamp.

For **complete** warning and application information, see Apex Tool Group at www.apexhandtools.com
Material Handling Index

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Loadlink Plus™—
Tension Load Cell / Digital Dynamometer

Available in capacities from 1 ton (2,200 lbs.) to 300 tons (660,000 lbs.)

Known worldwide as the original electronic force measurement device to feature an integral display, the Load Link Plus tension load cell / digital dynamometer has been in production since 1979. Over the years, the line has been expanded and the Loadlink Plus load cell is now used on a daily basis for load monitoring and heavy lifts ranging in capacity from 1 ton to 500 ton, by a variety of industrial and commercial industries to include manufacturing, transportation, agriculture, oil and gas, utilities, aerospace and clean energy.

**Features & Benefits:**

- Large LCD Display
- High Accuracy
- Selectable Units
- High Resolution
- Peak Hold
- Compact Size
- Tare
- Lightweight
- Preset Tare
- Overload Counter
- Audible Set Point Alarm
- RS-485 Serial Output

This latest version of the well-known product possesses advanced features and benefits, providing solutions for today’s complicated load test and force measurement needs.

Constructed of high-quality aircraft grade aluminum, Straightpoint’s advanced internal design structure allows the product to set the industry standard with an unmatched strength to weight ratio. Straightpoint link style load cell dynamometers are on average 30% lighter than our closest competitor with the same safety rating.

In all, the rugged lightweight design, corrosion resistant finish, advanced electronics and full feature display make the Loadlink Plus a force to reckon with in the force measurement arena safety rating.
Radiolink Plus™—
Tension Load Cell / Dynamometer

Available in capacities from 1 ton (2,200 lbs.) to 300 tons (660,000 lbs.)

Building upon the ever popular and industry leading Loadlink Plus load cell, Straightpoint has once again sets the bar for the Digital Load Cell Dynamometer market with the Radiolink Plus. The Radiolink Plus builds upon the Loadlinks advanced microprocessor based electronics, and unrivaled resolution and accuracy, by adding a full function handheld remote and industry leading wireless capabilities.

Features & Benefits:
- Proprietary 2.4 GHz Wireless
- Industry Leading Wireless Range
- Error Free Data Transmission
- Unrivalled Resolution
- Environmentally Sealed
- Audible Overload Alarm
- Unmatched Battery Life
- Internal Antennae
- Compact Size
- Remote On-Off
- Lightweight
- Peak Hold
- Advanced Options
- Tare

The Straightpoint Wireless System makes use of the latest in IEEE 802.15.4 (2.4 GHz) technology. The systems proprietary transport protocol utilizes Direct Sequence Spread Spectrum (DSSS) and Quadrature Phase Shift Keying (QPSK) modulation, providing high integrity, error free transmission of data, and is unmatched in performance, capable of providing a license free transmission range of up to 250 meters or 800 feet.

Constructed of high-quality aircraft grade aluminum, Straightpoints advanced internal design structure provides the product with an unrivaled strength to weight ratio. Straightpoint Link style load cell dynamometers are on average 30% lighter than our closest competitor with the same safety rating.

A full array of wireless accessories are also available, including several user friendly windows based software packages. These creative software solutions allow for the calculation of center of gravity, the ability to data log, the printing of reports, and allow the simultaneous display and monitoring of up to 24 Radiolink loadcells on a single PC screen.

Combine the full function wireless remote, unmatched resolution and accuracy, creative software solutions, and the industries most advanced wireless system, in a compact package, clearly there is no other choice.
In Concert™ System

Developed in response to the growing entertainment market and the ever increasing need for safety, the Straightpoint In-Concert™ dynamometer load cell system is just one more addition to the long list of our cost effective solutions to a dynamic lifting and rigging industry.

Venues:
- Concert arenas
- Sports stadia
- School theaters and auditoriums
- Convention center facilities
- Theater Stagehouses
- Commercial theater
- Performing arts centers
- Auditoriums

Stage rigging needs for entertainment venues present a variety of loading criteria unique to the entertainment industry. Rigging systems and equipment are generally used to lift and position lighting, audio, video, scenery, special effects and related items. These rigging loads, resulting from both permanent and temporary systems, and sometimes acting simultaneously, can place unusual demands on the building system frame.

This latest solution from Straightpoint allows the monitoring and totaling of these rigging loads. Based on the Straightpoint Compound plus and Wireless loadshackle ranges, In-Concert allows the use of multiple load cells to monitor and sum static—dynamic or live, and side load forces at anchor points or fly points in the rigging system.

The In-Concert system allows the connection of multiple Straightpoint Wireless products to an Advanced Wireless Handheld Controller, or to a creative and user-friendly, windows-based software package. The system can use any combination of Straightpoint Wireless products, allowing for the use of our Wireless Loadshackles alongside the Radiolink Plus digital load cell dynamometer or a custom wireless loadpin.

The Advanced Wireless Handheld provides for the individual load monitoring and total load of up to 12 Straightpoint Wireless products from one easy to use advanced handheld device, while the Multiple Wireless Loadcell Controller Software will allow the simultaneous monitoring and total load of up to 24 Straightpoint Wireless loadcell products from a single PC screen. With 16 frequencies to choose from, 384 Straightpoint Wireless Loadcells can operate in close proximity to one another simultaneously.

With In-Concert there are never any issues with interference from high voltage lighting, or other wireless transmissions. The Straightpoint wireless system provides high integrity, error free transmission of data via the latest in IEEE 802.15.4 (2.4 Ghz) technology and a proprietary transport protocol. It is unmatched in performance, and capable of providing a license free transmission range of up to 800 feet.

When combined with Straightpoint Wireless accessories like our signal boosting module, analog output module and the 5” tall LED scoreboard display, it is clear that In-Concert™ is truly a solution based product offering a level of flexibility not seen before in the entertainment rigging industry.
Miniweigher Plus™—Crane Scale
Available in capacities from 100kg (220 lbs.) to 5 tons (11,000 lbs.)

Worldwide our most popular product and manufactured since 1987, the Miniweigher Plus is a small and compact mini crane scale offering robust construction, high accuracy, compact size and extreme portability. It is available in capacities from 100kg to 5 tons and will suit most small capacity weighing and lifting applications.

Utilized 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.

Features & Benefits:
- Large LCD Display
- High Accuracy
- Selectable Units
- High Resolution
- Compact Size
- Tare
- Preset Tare
- Lightweight
- Overload Counter
- Audible Set Point Alarm
- RS-485 Serial Output
- Corrosion resistant finish

The Mini weigher 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.

Straightpoints advanced microprocessor based electronics provide the Mini weigher Plus with high speed read rates (500/sec), extreme resistance to industrial level noise and unprecedented stability. This high stability allows 5000 + 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.

Jumbo Weigher—Crane Scale
Available in capacities from 5 ton (11,000 lbs.) to 20 tons (44,000 lbs.)

A popular choice among steel service centers and other industrial manufactures, the Jumboweigher crane scale from Straightpoint offers a cost-effective alternative to its more expensive rivals from MSI and Intercomp. The Jumboweigher series of crane scales offer high-capacity, quality, accuracy, and safety at low-capacity prices and are utilized worldwide in a variety of manufacturing and industrial applications.

Features & Benefits:
- Large bright LED Display
- High Accuracy
- Aluminum Housing
- Power saving mode
- Tare
- Hold Function

As with all Straightpoint products, each Jumboweigher crane scale receives superior electronics, excellent build quality and certified calibration and proof testing. The heavy-duty crane scale is extremely accurate, and is manufactured from quality materials, featuring a high-strength aluminum alloy outer housing.

Each unit is equipped with a large and bright LED display that can be easily read even in direct sunlight. The simple to use remote features oversized buttons for use with gloved hands and provides for control of tare and hold functions. Battery charging intervals are extended by the standby power saving mode, as well as the automatic shut off feature.
Wireless Compression—Compression Load Cell

Available in capacities from 25 ton (55,000 lbs.) to 500 tons (999,000 lbs.)

Manufactured from stainless steel with domed top and can be supplied with optional load-cap.

No longer hindered by troublesome and hard to maintain cables, large scale projects can be completed in a fraction of the time previously required.

Maintenance costs are all but eliminated due to the absence of cables and connectors, and the products added flexibility opens the door to world of new possibilities.

All our wireless compression load cells benefit from our advanced microprocessor based electronics and unrivalled resolution and accuracy.

Data transmission is handled by the Straightpoint Wireless system, providing high integrity, error free transmission of data via the latest in IEEE 802.15.4 (2.4 GHz) technology and is capable of a license free transmission range of up to 250 meters or 800 feet.

Features & Benefits:

- Stainless Steel
- Proprietary 2.4 GHz Wireless
- Industry Leading Wireless Range
- Error Free Data Transmission
- No external antennae
- Audible Overload Alarm
- Unmatched Battery Life
- Remote On-Off
- No cable assemblies
- Advanced Options
- Tare

Requires connection to our range of handheld controllers, our Center of Gravity System or any of our range of datalogging software packages.

Straightpoint compression loadcells are used in a broad range of industries including mining, energy, defence, heavy rigging, structural weighing, shipping and general transportation sectors, allowing for the calculation of total mass and the center of gravity on loads up to and exceeding 15,000 tonnes.

Wireless Center of Gravity Software—WCOGS

Our wireless center of gravity system uses telemetry compression loadcells and a simple to use but powerful software package to analyze individual loadcell loads in real-time and print / save a full center of gravity analysis report.

Between 3-8 loadcells of the same capacity can be used any one time.

The system combines an extremely intuitive windows based software package and the industry transforming Straightpoint Wireless compression load cells to create a time saving, cost effective and user friendly system for confirmation of mass and the calculation of center of gravity. The system can weigh and calculate center of gravity on objects and structures weighing anywhere from 20 tons to 4000 tons.
Wireless Loadshackle™/Shackle Load Cell

Available in capacities from 1 ton (2,200 lbs.) to 1,000 tons (1,999,000 lbs.)

The latest addition to the Straightpoint arsenal of tension & load monitoring products is the Wireless Load Shackle. Offering reduced headroom & lighter overall weight this wireless Instrumented Load Shackle is perfect for tight applications. Our Wireless Load Shackles are targeted at the load cell / digital dynamometer market and are used worldwide in heavy lift and rigging applications where headroom is a concern or where a more permanent load monitoring solution is called for.

Straightpoint Wireless Loadshackles are manufactured from industry leading Crosby high carbon steel shackles, then equipped with Straightpoint’s advanced microprocessor controlled electronics giving them unrivalled resolution & accuracy. The electronics are housed in a stainless steel enclosure, environmentally sealed to IP65 standards.

Features & Benefits:

- Proprietary 2.4 GHz Wireless
- Industry Leading Wireless Range
- Error Free Data Transmission
- Unrivalled Resolution
- Crosby Shackle
- Audible Overload Alarm
- Internal Antennae
- Remote On-Off
- Peak Hold
- Advanced Options
- Tare

Requires SW-C Straightpoint Wireless Hand held receiver, allowing full remote on / off of the loadcell, tare and peak hold functions, and also includes a programmable audible alarm.

Straightpoint's wireless system provides high integrity, error free transmission of data via the latest in IEEE 802.15.4 (2.4 Ghz) technology and a proprietary transport protocol, and is unmatched in performance, capable of providing a license free transmission range of up to 800 feet.

Wired Shackle—Shackle Load Cell

Available in capacities from 1 ton (2,200 lbs.) to 1,000 tons (1,999,000 lbs.)

At the core of the Straightpoint product line for over a decade, the Straightpoint cabled Load Shackle has surely helped shape the modern load monitoring industry. Manufactured from industry leading Crosby high carbon steel shackles, the product offers reduced overall weight and headroom providing a great fit for low headroom applications.

Features & Benefits:

- Robust Construction
- Every unit proof tested
- Audible Overload Alarm
- Environmentally Sealed
- Unrivalled Resolution
- Compact size and Low Headroom
- Complies with ASME B30.26-2010 Ch 26-6
- Peak Hold
- High Accuracy
- Tare
- Sealed to IP67 standards

Requires connection to Straightpoint's Handheld Plus.

Utilizing the same advanced microprocessor based electronics as all Straightpoint products, our cable Load Shackle benefits from high sampling rates, extreme resistance to industrial level noise and unprecedented stability. This high stability provides the product with over 5000 divisions and the highest standard resolution of any high capacity Loadshackle on the market today. Straightpoint cabled Load Shackles are also environmentally sealed to IP/67 and as an option, sealed for permanent submersion to 100 meters for sub-sea use.
Sheet Handling Magnets—TM 4 Series

Telescopic Beams

Plates, especially large ones, are particularly difficult loads to handle. When attempting to move with traditional methods (hooks, chains, cables), the plates have a tendency to flex and deform, making the grip on the load unstable and dangerous.

The TM series beams pick up the load uniformly from above without deformations or damage to the load.

Specific selection of the thickness is possible, even via radio control to pick up single plate.

The Telescopic Movement

The ability to lengthen or shorten the center distance between cross beams and select the modules to magnetize make the TM beams extremely flexible to use. The telescopic movement is actuated by a dedicated hydraulic pump; the movement of the telescopic arms allows the handling of a complete range of big plates.

Modules Selection

It is possible to lift loads of various lengths by simply selecting the magnetic modules necessary:

- Shorter plates: activate only the center cross beams, excluding the others
- Medium plates: activate all the cross beams with the side modules in the closed position
- Long plates: activate all the cross beams and extend the arms to the maximum opening
- Narrow plates: activate only the left or right side modules

<table>
<thead>
<tr>
<th>Model</th>
<th>Beam Weight</th>
<th>Thickness Minimum</th>
<th>Length Minimum</th>
<th>Length Maximum</th>
<th>Width Minimum</th>
<th>Width Maximum</th>
<th>Rated Lift Capacity Maximum</th>
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<tbody>
<tr>
<td>TM 4/75 N</td>
<td>3.3</td>
<td>.20</td>
<td>118</td>
<td>472</td>
<td>20</td>
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<td>118</td>
<td>472</td>
<td>20</td>
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<td>19.8</td>
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</tbody>
</table>
Sheet Handling Magnets—TM 6 Series

For single plate handling up to 52.5 feet. Version with 6 cross beams with 2 modules each.

Whip Chart

The TECNO-LIFT lifting systems are designed with rigid structural characteristics and with a specific magnetomotive force coefficient (MMF) to guarantee handling, even with significant values on the whip chart.

With the TECNO-LIFT systems, it will be always possible to obtain the utmost performance in terms of load capacity and size, as specified in the technical specifics of these tables and performance tags on the lifters.

TM beams are available in TG version (6 or 8 cross beams) to handle sheets with thickness from 0.16” and capacity up to 11 ton.

<table>
<thead>
<tr>
<th>Model</th>
<th>Beam Weight</th>
<th>Thickness Minimum</th>
<th>Length Minimum</th>
<th>Width Minimum</th>
<th>Rated Lift Capacity Maximum</th>
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<tbody>
<tr>
<td>TM 6/100 N</td>
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<td>.20</td>
<td>110</td>
<td>20</td>
<td>98</td>
</tr>
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<td>20</td>
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<td>TM 6/180 N</td>
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<td>.20</td>
<td>110</td>
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<td>138</td>
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<td>TM 6/200 N</td>
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<td>110</td>
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<td>TM 6/250 N</td>
<td>4.4</td>
<td>.30</td>
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</tbody>
</table>

J Henry Holland
Phone: 757-460-3300
www.jhenryholland.com

Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com

Tennessee Sling Center
Phone: 901-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com

KCI Crane Service
Phone: 205-345-4701
www.kcicraneservice.com

Load Securement

Sheet Handling Magnets—
TM 6 Series
Portable Lifting Magnets—MaxX® Energy

The best expression of power.

Through a qualitative selection of top grade energy magnets and further optimization of the tolerances between the stator and the rotor, it is possible to achieve a “Plus” for the model MaxX 250 a MaxX 500.

With the same size and weight, these models will give 20% more performance, thus being labeled MaxX 300 and MaxX 600 “Energy version”.

Portable Lifting Magnets—MaxX® TG

Greater flexibility with thin gage loads.

MaxX TG was conceived to meet the demand for handling thinner steel loads in a safe and efficient way.

The special design of the polar surface, together with the proper balancing of the magnetic masses located in the stator and in the rotor, allows it to get the magnetic flux concentrated in a shorter distance.

The rotation of the handle remains easy while keeping the high characteristics of uniform magnetic strength all over the contact area.

MaxX TG makes it possible to de-stack plates starting from a .2” thickness using 2 lifters with MFB beam.

<table>
<thead>
<tr>
<th>Model</th>
<th>SLW-Load Max. lbs.</th>
<th>Thick Min. in.</th>
<th>Length Max. in.</th>
<th>Ø Max. in.</th>
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<td>11.8</td>
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<td>220</td>
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<td>59</td>
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<td>MaxX 500</td>
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<td>MaxX 1000</td>
<td>880</td>
<td>.98</td>
<td>118</td>
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<td>MaxX 2000</td>
<td>1,760</td>
<td>1.37</td>
<td>118</td>
<td>23.6</td>
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<td>MaxX 300E</td>
<td>330</td>
<td>.39</td>
<td>59</td>
<td>11.8</td>
</tr>
<tr>
<td>MaxX 600E</td>
<td>550</td>
<td>.59</td>
<td>78.7</td>
<td>15.7</td>
</tr>
<tr>
<td>MaxX TG150</td>
<td>132</td>
<td>.31</td>
<td>59</td>
<td>9.46</td>
</tr>
<tr>
<td>MaxX TG300</td>
<td>254</td>
<td>.39</td>
<td>78.7</td>
<td>11.42</td>
</tr>
</tbody>
</table>
Portable Lifting Magnets—MaxX®

Hand controlled magnetic lifters.

The innovative technology concept and the superior performance make MaxX the absolute reference in the field of magnetic lifting of ferrous loads.

Powerful, compact, safe, reliable and competitive are the key factors of the MaxX line’s success all over the world.

MaxX lifters are the ideal solution for handling a large variety of work pieces, from flats to rounds, from finished to rough, with easy and ergonomic operation in total safety.

The operating costs are near zero, efficiency and productivity are dramatically increased and return on investment is extremely quick.

The handy and practical use of the MaxX lifters come in connection with their compact size and minimal weight that optimize space and crane capacity.

A wide range of models are available with capacities from 275 lbs. up to 4,450 lbs., and with different versions for loads with regular and reduced thicknesses.

<table>
<thead>
<tr>
<th>Model</th>
<th>SLW-Load Max.</th>
<th>Thick Min.</th>
<th>Length Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>lbs.</td>
<td>in.</td>
<td>in.</td>
</tr>
<tr>
<td>MaxX 125</td>
<td>275</td>
<td>.78</td>
<td>39.3</td>
</tr>
<tr>
<td>MaxX 250</td>
<td>550</td>
<td>.78</td>
<td>59</td>
</tr>
<tr>
<td>MaxX 500</td>
<td>1,100</td>
<td>.98</td>
<td>78.7</td>
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<tr>
<td>MaxX 1000</td>
<td>2,200</td>
<td>1.52</td>
<td>118</td>
</tr>
<tr>
<td>MaxX 1500</td>
<td>3,300</td>
<td>1.77</td>
<td>118</td>
</tr>
<tr>
<td>MaxX 2000</td>
<td>4,400</td>
<td>2.16</td>
<td>118</td>
</tr>
<tr>
<td>MaxX 300E</td>
<td>660</td>
<td>.78</td>
<td>59</td>
</tr>
<tr>
<td>MaxX 600E</td>
<td>1,320</td>
<td>.98</td>
<td>78.7</td>
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<tr>
<td>MaxX TG150</td>
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<td>59</td>
</tr>
<tr>
<td>MaxX TG300</td>
<td>660</td>
<td>.39</td>
<td>78.7</td>
</tr>
</tbody>
</table>
NEO-Series
Permanent Lift Magnets

The new NEO-250, NEO-500, NEO-1000, NEO-2000 Series Material Lifting Magnets are used in steel supply, machine and die shops where heavy steel objects must be moved rapidly and safely.

The maximum-rated lift is based upon lifting a clean, smooth, flat, low-carbon steel plate, 1.5" (38 mm) or thicker with the full area of the magnet’s lifting surface in contact with the load. Derating is required for plates with rust or scale, plates thinner than 1.5" and alloy steels. Please contact the Operator’s Manual and Safety Instructions for more detailed ratings.

Uses: For flat and round steel material handling

Standard Features & Benefits:

- Packed with the highest quality rare earth neodymium magnetic material
- High lift capacity
- Ease of operation
- Low weight...easy to move
- No power consumption
- Handle locks in "On or Off" positions to prevent unintentional operation
- Meets all the requirements of ANSI / ASME B30.20 (safety standard)
- NEO Magnets can lift Round Bar, Pipe and Flat Plates easily.
- Supplied with manual, pull test certificate, DVD and safety poster.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>L (in.)</th>
<th>W (in.)</th>
<th>H (in.)</th>
<th>WT (lbs.)</th>
<th>Capacity On Rounds (lbs.)</th>
<th>Capacity On Plate (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEO-250</td>
<td>5.94</td>
<td>3.94</td>
<td>4.06</td>
<td>22</td>
<td>0 - 275</td>
<td>0 - 550</td>
</tr>
<tr>
<td>NEO-500</td>
<td>9.69</td>
<td>4.72</td>
<td>4.06</td>
<td>42</td>
<td>0 - 550</td>
<td>0 - 1,100</td>
</tr>
<tr>
<td>NEO-1000</td>
<td>12.44</td>
<td>5.79</td>
<td>4.88</td>
<td>80</td>
<td>0 - 1,100</td>
<td>0 - 2,200</td>
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<tr>
<td>NEO-1500</td>
<td>14.70</td>
<td>6.50</td>
<td>9.30</td>
<td>148</td>
<td>0 - 1,500</td>
<td>0 - 3,000</td>
</tr>
<tr>
<td>NEO-2000</td>
<td>19.00</td>
<td>6.50</td>
<td>5.80</td>
<td>198</td>
<td>0 - 2,200</td>
<td>0 - 4,400</td>
</tr>
</tbody>
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Ideal Loads

<table>
<thead>
<tr>
<th>Model</th>
<th>Thick (in.)</th>
<th>Diameter (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEO-250</td>
<td>0.25+</td>
<td>2.375 - 7</td>
</tr>
<tr>
<td>NEO-500</td>
<td>0.25+</td>
<td>2.75 - 10</td>
</tr>
<tr>
<td>NEO-1000</td>
<td>0.375+</td>
<td>3 - 11</td>
</tr>
<tr>
<td>NEO-1500</td>
<td>0.75+</td>
<td>–</td>
</tr>
<tr>
<td>NEO-2000</td>
<td>0.75+</td>
<td>6 – 13.75</td>
</tr>
</tbody>
</table>
BUX BM²-Series Battery Powered Lift Magnets

Local and cordless remote-controlled, battery-powered lift magnets are designed for flat material handling. These Battery Powered Lifting Magnets are compact, mobile, self-contained units. Operating on their own power sources, they are free of restricting cords and wires, and have the further advantage of being usable in areas where electric power is not available. The BUX BM²-13, BUX BM²-25 and BUX BM²-36 are all single units. The BUX BM²-50 is two magnets on an adjustable spreader beam operated from a single battery pack.

These versatile Walker magnets have widespread application for handling of plates, die blocks, machined components, smooth castings and forgings. These battery-powered magnets are extremely useful throughout the plant, around the yard, receiving and shipping areas, storeroom, cut-off saws, burning and welding tables, and machine tools, such as grinders, millers, shapers, drill presses, etc. Batteries not included.

The maximum rated lift is based upon lifting clean, smooth, flat, low-carbon steel plate, 2" or thicker with the full area of the magnet’s lifting surface in contact with the load. Derating is required for plates with rust or scale, plates thinner than 2", and alloy steels. More detailed ratings are contained in the Operator’s Manual and Safety Instructions.

Uses: For flat material handling

Standard Features & Benefits:

- Pocket for IR Remote Transmitter
- Removable cover allows inspection of battery.
- Temperature compensated: built-in automatic cut-off charger prevents over-charging of battery.
- For safety, magnet cannot be turned “ON” if battery charge is too low.
- Interlock prevents magnet de-energization when suspended in air.
- Audible Warning Alarm and flashing light indicate low battery
- Lighted display indicates battery charge level.
- 110V AC cord and plug for built-in battery charger
- Uses “Deep Discharge” type low maintenance Gel Cell Battery.
- Meets all the requirements of ANSI / ASME B30.20 (safety standard).
- Supplied with manual, pull test certificate, video and safety poster.

<table>
<thead>
<tr>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>BUX BM²-13</td>
</tr>
<tr>
<td>BUX BM²-25</td>
</tr>
<tr>
<td>BUX BM²-36</td>
</tr>
<tr>
<td>BUX BM²-50</td>
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</table>

<table>
<thead>
<tr>
<th>Rated Lift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>BUX BM²-13</td>
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<tr>
<td>BUX BM²-25</td>
</tr>
<tr>
<td>BUX BM²-36</td>
</tr>
<tr>
<td>BUX BM²-50</td>
</tr>
</tbody>
</table>
Scrapmaster® D-Series Scrap Magnets

The Walker Scrapmaster® D-Series has been designed specifically to fit the needs of scrap processing operations. From a utilitarian 30" to a giant 100", magnet diameters and weights were selected to maximize the lifting capabilities of standard scrap handling cranes. The high lift-to-weight ratio of these magnets allows the movement of more and heavier scrap.

The Scrapmaster® D-Series magnet has a rugged ribbed case, heavy manganese steel bottom plate, welded watertight construction and tough alloy steel chains for maximum durability. All elements are designed for top operation efficiency, with deadweight engineered out.

**Uses:** Scrap processing operations

**Standard Features & Benefits:**

- Rugged cast steel case
- 75% duty cycle
- Deep field aluminum wound coil
- Greater all day lifts
- Maximum lift performance through the working day
- Class H insulation utilized for layer-to-layer, turn-to-turn, coil-to-case insulation
- Low maintenance costs
- Alloy steel chains for greater life and maximum durability
- Dual Voltage models available
- Customs available in fabricated styles
- Optimal copper wound coil

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dia. (in.)</th>
<th>Approx. Wt. (lbs.)</th>
<th>D.C. Volt.</th>
<th>Amps (cold)</th>
<th>KW Req.</th>
<th>Min. Cable Size</th>
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</thead>
<tbody>
<tr>
<td>40D</td>
<td>40</td>
<td>1,800</td>
<td>230</td>
<td>35</td>
<td>8.1</td>
<td>#6</td>
</tr>
<tr>
<td>45DSH</td>
<td>45</td>
<td>2,700</td>
<td>230</td>
<td>43</td>
<td>9.8</td>
<td>#6</td>
</tr>
<tr>
<td>48D</td>
<td>48</td>
<td>2,900</td>
<td>230</td>
<td>58</td>
<td>13.4</td>
<td>#6</td>
</tr>
<tr>
<td>54DSH</td>
<td>54</td>
<td>4,150</td>
<td>230</td>
<td>61</td>
<td>14.1</td>
<td>#6</td>
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<td>57D</td>
<td>57</td>
<td>4,400</td>
<td>230</td>
<td>75</td>
<td>17.3</td>
<td>#6</td>
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<tr>
<td>63DSH</td>
<td>63</td>
<td>6,180</td>
<td>230</td>
<td>82</td>
<td>19.0</td>
<td>#4</td>
</tr>
<tr>
<td>66D</td>
<td>66</td>
<td>6,400</td>
<td>230</td>
<td>91</td>
<td>20.9</td>
<td>#4</td>
</tr>
<tr>
<td>69DSH</td>
<td>69</td>
<td>8,000</td>
<td>230</td>
<td>99</td>
<td>22.8</td>
<td>#4</td>
</tr>
<tr>
<td>72D</td>
<td>72</td>
<td>8,300</td>
<td>230</td>
<td>113</td>
<td>26.1</td>
<td>#4</td>
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<tr>
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<td>76</td>
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<td>230</td>
<td>128</td>
<td>29.1</td>
<td>#2</td>
</tr>
<tr>
<td>87D</td>
<td>87</td>
<td>12,500</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>#2</td>
</tr>
<tr>
<td>92D</td>
<td>92</td>
<td>15,400</td>
<td>*</td>
<td>*</td>
<td>*</td>
<td>#2</td>
</tr>
</tbody>
</table>

* Contact factory

**Lifting Capacity (lbs.)**

<table>
<thead>
<tr>
<th>Model</th>
<th>#1 Heavy Melting</th>
<th>#2 Heavy Melting</th>
<th>Steel Turnings</th>
</tr>
</thead>
<tbody>
<tr>
<td>40D</td>
<td>0 - 900</td>
<td>0 - 600</td>
<td>0 - 375</td>
</tr>
<tr>
<td>45DSH</td>
<td>0 - 1,500</td>
<td>0 - 1,030</td>
<td>0 - 480</td>
</tr>
<tr>
<td>48D</td>
<td>0 - 1,750</td>
<td>0 - 1,160</td>
<td>0 - 600</td>
</tr>
<tr>
<td>54DSH</td>
<td>0 - 2,560</td>
<td>0 - 1,660</td>
<td>0 - 730</td>
</tr>
<tr>
<td>57D</td>
<td>0 - 2,700</td>
<td>0 - 1,800</td>
<td>0 - 850</td>
</tr>
<tr>
<td>63DSH</td>
<td>0 - 3,970</td>
<td>0 - 2,580</td>
<td>0 - 1230</td>
</tr>
<tr>
<td>66D</td>
<td>0 - 4,100</td>
<td>0 - 2,750</td>
<td>0 - 1360</td>
</tr>
<tr>
<td>69DSH</td>
<td>0 - 4,520</td>
<td>0 - 3,000</td>
<td>0 - 1360</td>
</tr>
<tr>
<td>72D</td>
<td>0 - 4,700</td>
<td>0 - 3,150</td>
<td>0 - 1500</td>
</tr>
<tr>
<td>76D</td>
<td>0 - 5,700</td>
<td>0 - 3,800</td>
<td>0 - 2000</td>
</tr>
<tr>
<td>87D</td>
<td>0 - 6,825</td>
<td>0 - 4,550</td>
<td>0 - 2600</td>
</tr>
<tr>
<td>92D</td>
<td>0 - 8,500</td>
<td>0 - 5,660</td>
<td>0 - 3000</td>
</tr>
</tbody>
</table>
LM CAST-Series Scrap Magnets

Walker LM Cast Series scrap magnets have been designed and engineered for scrap processing operations. Latest state-of-the-art materials, combined with the most modern manufacturing methods, make the Walker Liftmaster® series scrap magnet one of the most advanced magnets on the market today.

This scrap magnet has a rugged cast case, heavy rolled manganese bottom plate, deep field construction and tough 3-leg alloy chains for maximum durability. All elements are designed for top operation efficiency, with deadweight engineered out to achieve high lift-to-weight ratio.

Uses: Scrap processing operations

Standard Features & Benefits:

- Available in 3 popular sizes: 48”, 57” and 66”
- Aluminum wound coil for lightweight design and maximum lift-to-weight ratio
- 75% Duty Cycle
- Rugged cast case of low carbon, high permeability steel for maximum lifting efficiency
- Class H insulation
- Coils are encapsulated in high dielectric strength, moisture resistant, resilient compound
- Inner and outer poles surfaces are hard faced with an abrasive resistant layer of weld to retard wear
- Terminal box cast as an integral part of the magnet case with hinged cover for easy access and replacement of external lead
- 230 volt DC

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Dia. (in.)</th>
<th>Approx. Wt. (lbs.)</th>
<th>D.C. Volt.</th>
<th>Amps (cold)</th>
<th>KW Req.</th>
</tr>
</thead>
<tbody>
<tr>
<td>48 LM</td>
<td>48</td>
<td>2,700</td>
<td>230</td>
<td>37</td>
<td>8.5</td>
</tr>
<tr>
<td>57 LM</td>
<td>57</td>
<td>4,100</td>
<td>230</td>
<td>51</td>
<td>11.7</td>
</tr>
<tr>
<td>66 LM</td>
<td>66</td>
<td>6,200</td>
<td>230</td>
<td>65</td>
<td>15.0</td>
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</tbody>
</table>

Lifting Capacity (lbs.)

<table>
<thead>
<tr>
<th>Model</th>
<th>#1 Heavy Melting</th>
<th>#2 Heavy Melting</th>
<th>Steel Turnings</th>
</tr>
</thead>
<tbody>
<tr>
<td>48 LM</td>
<td>0 - 1,750</td>
<td>0 - 1,200</td>
<td>0 - 600</td>
</tr>
<tr>
<td>57 LM</td>
<td>0 - 2,700</td>
<td>0 - 1,775</td>
<td>0 - 850</td>
</tr>
<tr>
<td>66 LM</td>
<td>0 - 4,100</td>
<td>0 - 2,750</td>
<td>0 - 1,350</td>
</tr>
</tbody>
</table>
RLSD-Series
Steel Mill Magnets

Rectangular shaped scrap magnets are the newest development from Walker Magnetics. Designed to lift large volumes of scrap in and out of confined areas, these powerful scrap magnets are becoming the standard in melt shops around the world.

They can help you keep your new high capacity furnaces full. Since new furnaces refine metal fast, they need more scrap to process. A Walker RLSD scrap magnet adds up to 50% more lift capacity to each load. Unlike round magnets that can't lift scrap out of corners effectively, the RLSD is designed to get into corners of railroad cars and clean them out.

Extra heavy-duty construction with unique Multiple Bumper Perimeter Plates and resilient manganese steel bottom plates make this the toughest scrap magnet ever! Available in a wide variety of sizes, these tough welded RLSDs operate cool 24 hours per day, 7 days per week.

**Uses:** Scrap processing operations

**Standard Features & Benefits:**

- 75% Duty Cycle
- All welded heavy duty construction
- Cool operating
- Class H insulation
- Powerful deep field design
- Aluminum Coil standard, Copper optional
- Quick disconnect lead assembly
- Voltages - 230 VDC, 230/180 VDC, 230/140VDC

<table>
<thead>
<tr>
<th>Material</th>
<th>Avg. Lift Lbs. 82” Diameter</th>
<th>Avg. Lift Lbs. 78 x 114 RLSD</th>
<th>Increase (lbs.)</th>
<th>Increase %</th>
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</thead>
<tbody>
<tr>
<td>Shred</td>
<td>3,070</td>
<td>5,935</td>
<td>2,865</td>
<td>93%</td>
</tr>
<tr>
<td>Muni Shred</td>
<td>2,235</td>
<td>3,962</td>
<td>1,727</td>
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</tr>
<tr>
<td>5 Ft. P</td>
<td>2,565</td>
<td>4,670</td>
<td>2,115</td>
<td>83%</td>
</tr>
<tr>
<td>3 Ft. P</td>
<td>2,610</td>
<td>4,010</td>
<td>1,400</td>
<td>54%</td>
</tr>
<tr>
<td>Turnings</td>
<td>2,650</td>
<td>4,220</td>
<td>1,570</td>
<td>55%</td>
</tr>
<tr>
<td>Heavy Melt</td>
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<td>4,135</td>
<td>1,470</td>
<td>59%</td>
</tr>
<tr>
<td>Can Bundles</td>
<td>2,472</td>
<td>4,186</td>
<td>1,713</td>
<td>69%</td>
</tr>
<tr>
<td>#1 Bundles</td>
<td>4,500</td>
<td>6,000</td>
<td>1,500</td>
<td>33%</td>
</tr>
<tr>
<td>P&amp;G Bundles</td>
<td>3,500</td>
<td>5,425</td>
<td>1,925</td>
<td>55%</td>
</tr>
<tr>
<td>Home</td>
<td>5,665</td>
<td>7,760</td>
<td>2,095</td>
<td>37%</td>
</tr>
<tr>
<td>Total Avg.</td>
<td>3,192</td>
<td>5,030</td>
<td>1,838</td>
<td>58%</td>
</tr>
</tbody>
</table>
Grabber Series
Steel Mill Magnets

Billets are seldom perfectly straight or flat. Air gaps often exist between the billets to be lifted and the magnet. Walker Grabber Series billet lifting magnets have extra power built in to penetrate the air gaps for a more efficient, more certain grip every time. That means they can handle more billets per lift, day in and day out, eliminating multiple lifts per layer.

The penetration power of these magnets, combined with rugged construction features, ensure dependable, long life steel mill service. Grabber Series magnets come in a wide range of standard widths and lengths to accommodate your billet sizes and layer widths. Other sizes, as required for your applications, are readily available.

The GRABBER magnet was developed more than 40 years ago to help mills that were having difficulty lifting full layers of billets due to air gaps between the magnet’s face and the billets / rails / slabs. These gaps are not unusual in normal steel mill production, and it was time consuming to make return trips to retrieve bent billets that were not lifted the first time. Walker engineers designed the Grabber-Series magnets with very high penetrating power that were able to “snap-up” the bent billets, making full dynamic lifts.

Many Walker Grabber Magnets have been supplied for use with hot materials. Modifications typically include Double Bottom Plates and higher temperature insulation.

**Uses:** Billet lifting and bundle handling magnets

**Standard Features & Benefits:**
- 75% and 100% Duty cycle
- Class H insulation utilized for layer-to-layer, turn-to-turn, coil-to-case insulation
- Cool operating coil designs
- Extra heavy-duty manganese end plates
- Fabricated construction for long life steel mill service

**Specs:** Many models available, maximum 98,000 lbs. rated lift capacity. Contact your Lifting Specialist for detailed specs and pricing.

Bi-Polar Series
Lifting Magnets

Bi-Polar magnets lift directly from the center of the load, so no aisle room is required to sling or maneuver a hook. Loads can be stacked as high as the crane allows.

The 271 series has a special design that concentrates the magnetic field, preventing the attraction of adjacent material and making it especially suitable for handling bundles of pipe, tubing, rebar and bar stock. These magnets are commonly used by steel mills, coil and pipe distributors, and other users of applicable steel products.

The 272 series has a very wide range of applications in all areas of the steel industry, from mill to foundry through distribution to the end user. The magnets are typically used in the production and handling of plate, structural shapes, castings, forgings, coiled strips, individual and bundled lengths of pipe, tubing, rebar and bar stock. Both models can be supplied with special pole shoes for specific applications.

Bi-Polar lift magnets can be used individually or in multiples with various types of suspension systems. Walker engineers and supplies the complete system, including power supply, controls, battery backup unit and spreader beams.

**Uses:** Handling of bundles of pipe, tubing, rebar, bar stock, plate, structural shapes, castings, forgings and coiled strips.

**Specs:** Other sizes for series 271 available from 3,750 to 35,000 lbs. rated lift. Other sizes for series 272 available from 900 to 35,000 lbs. rated lift. Contact your Lifting Specialist for detailed specs and pricing.
RL-Series Rectangular Lifting Magnets

Rectangular lifting systems are designed to lift plate, slabs and billets. RLs are found moving large plates to and from burning tables, fabricating areas, welding departments and receiving and shipping areas. Typical users are steel warehouses, shipyards, fabricators and metal working plants.

These magnets can be used individually or in multiples with different types of suspension systems. Walker engineers and supplies the complete system, including power supplies, controls and battery safety back-up systems. While the most popular magnet sizes range from 8” x 16” to 26” x 60”, custom designs and options for standard units are available for special applications.

**Uses:** To lift plate of all sizes, slabs and billets.

**Standard Features & Benefits:**
- Copper wound coils with Class H insulation
- 50% duty cycle
- Voltages: 115, 230 VDC
- Fully welded heavy-duty magnet case
- Waterproof outlet box and lead cable

**Specs:** The maximum-rated lift is based upon lifting clean, smooth, flat, low-carbon steel plate of ample thickness with the full area of the magnet’s lifting surface in contact with the load. De-rating is required for plates with rust or scale, thin plates and alloy steels.

Typical sizes available from 3,500 to 52,500 lbs. rated lift. Contact your Lifting Specialist for detailed specs and pricing.

---

**General Magnet Service & Repair**

Mazzella is an authorized Walker Magnetics repair facility.

Don’t wait until your magnetic chuck or lifting magnet has an expensive breakdown requiring emergency repairs. We will inspect your unit and controls and advise what repairs are needed. Before proceeding with your repairs, you’ll receive an accurate estimate of the cost for your approval.

Under this repair and reconditioning program, your equipment can be reconditioned at approximately 50% of its current retail value. The cost of repairing equipment needing more than normal maintenance will be determined upon inspection, and an accurate cost estimate will be submitted to you before any repairs are made.
Scrap Magnet Repair

Take a step-by-step tour of the Walker repair facility and see how a scrap magnet is repaired and remanufactured.

1. When a magnet is received, the first step is to assign it a Job Number and complete a "Magnet Service Report." Each magnet is electrically tested and mechanically inspected to determine the condition of the magnet.

2. Next, the magnet is disassembled by machining or a controlled arc process. The parts are then inspected, noting those needing reconditioning or replacement. At this point, a quotation is prepared and sent to the customer.

3. After the quotation has been approved by the customer, mechanical parts are cleaned and sand blasted in preparation for reassembly.

4. The copper or aluminum conductor is then cleaned and inspected, noting any that are out of specification or needing replacement. Failure to replace conductor with the same gage leads to premature failure.

5. Engineering then creates a Computer Aided Design (CAD) drawing for the Production Department, along with a detailed bill of materials for the store room.

6. Coils are wound turn by turn with Nomex insulation in between each turn. When winding aluminum, the last three turns are wound with copper conductor.

7. After winding, the coil is tied off with vertical straps of copper. Alcuplate is used to join the aluminum conductor to the last two turns of copper conductor. Alcuplate prevents galvanic corrosion, and Walker is the only manufacturer to use this quality material.

8. Components are inspected against O.E.M. drawings and remanufactured to the latest revision. Following a milling process, the magnet is ready for reassembly.

9. After the coil is installed in the case and properly insulated, the bottom plate is inserted and pressed to 4,000 psi and tack welded. The magnet is then heated to 300º F to remove moisture before being semi-automatically welded to permanently create a water tight seal.

10. The magnet is then vacuum impregnated with a specially formulated insulating potting compound and baked to more than 350 degrees to produce a water tight fit and cure the potting compound.

11. In this final stage, all magnets are then electrically tested. The values are recorded to create a historical record in their individual folder as part of a future failure analysis process.

12. Prior to shipment, the magnet is painted and fitted with new pins. The chains are reattached and inspected for wear. The customer is advised if chains appear worn. The completed magnet is ready for shipment or to be put in a customer’s individual Magnet Exchange Program inventory.

13. Whether on a contract carrier or our own trucks, Walker delivers the highest quality new or remanufactured magnet to your facility.
PowerLift® Rare Earth Lifting Magnets

Designed for Thick, Non-Flexing Material. These compact, yet powerful, Rare Earth lift magnets can be used on flat or round surfaces and contain an internal release on/off device that does not contact or damage the surface of the part being lifted. Permanent magnetic lifts also eliminate the fear of dropping the load being lifted due to power failures.

- ON / OFF Rare Earth design
- RFID Enabled
- Lifts flat or round loads
- Easy internal manual release does not contact the load
- Heat resistant up to 180°F (82°C)
- Handle locks in both On and Off position
- 3:1 Design Factor
- CONFORMS TO ASME B30.20 STANDARDS

**Lock On & Off Features:**
The new handle on the PowerLift® Rare Earth lift magnet features a positive lock-on and lock-off mechanism that requires the operator to manually switch between the two states. This prevents the handle from being turned only “partially on” and giving the operator a false sense of security that the magnet is holding safely, or from being accidentally bumped to the “off” position, dropping the load pre-maturely.

**Vertical Lift Adapter:**
Lift Thick, Non-Flexing, Vertically Oriented Material

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift Overall Weight</th>
<th>Lift Overall Height</th>
<th>Lift Overall Width</th>
<th>Lift Overall Length</th>
<th>Lift Overall Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNL0250</td>
<td>250</td>
<td>6-5/8</td>
<td>2-5/8</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>PNL0800</td>
<td>800</td>
<td>8-7/8</td>
<td>3-5/8</td>
<td>7-7/8</td>
<td>22</td>
</tr>
<tr>
<td>PNL1600</td>
<td>1,600</td>
<td>8-7/8</td>
<td>4-7/8</td>
<td>10-3/4</td>
<td>53</td>
</tr>
<tr>
<td>PNL2500</td>
<td>2,500</td>
<td>8-7/8</td>
<td>7-1/8</td>
<td>12-5/8</td>
<td>110</td>
</tr>
<tr>
<td>PNL5000</td>
<td>5,000</td>
<td>18</td>
<td>9-1/4</td>
<td>16-1/2</td>
<td>325</td>
</tr>
</tbody>
</table>

**Lifting Value in Lbs & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Minimum Dia. (in.)</th>
<th>Minimum Thickness (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNL0250</td>
<td>125</td>
<td>2</td>
<td>1/2</td>
</tr>
<tr>
<td>PNL0800</td>
<td>400</td>
<td>3</td>
<td>1/2</td>
</tr>
<tr>
<td>PNL1600</td>
<td>800</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>PNL2500</td>
<td>1,250</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>PNL5000</td>
<td>2,500</td>
<td>14</td>
<td>4</td>
</tr>
</tbody>
</table>

**Applications:**
- Load steel plate into vertical storage racks
- Lift steel plate from vertical storage racks to horizontal machining centers or cutting tables
- Lift steel plate, rounds or billets into place for equipment/machinery manufacturing.

**Benefits:**
- One lifter for both horizontal and vertical sheet or steel part handling
- Reduce employee injury—eliminate improper use of slings or chains to lift sheet metal or steel parts vertically
- Increase production time
- No electricity required

The Vertical Lift Adapter (VLA), combined with an IMI PowerLift® magnet, lifts ferrous metal sheets, plates, rounds or billets from horizontal to vertical orientation or vice versa. The VLA is ideal for loading steel plate into vertical storage racks and for lifting plate steel, rounds or billets to machining centers or cutting tables. The Vertical Lift Adapter also has convenient, built-in forklift brackets to move and handle steel in a horizontal orientation.
**VersaLift™ Magnets**

VersaLift™ Lifting Magnets with Test Mode, Horizontal and Vertical Lifting Capability and RFID Chip Compact and powerful Rare Earth lift magnet for use on flat or round surfaces. Contains an internal ON / OFF release device that does not contact or damage the surface of the part. More features than other lifts and manufactured in the USA (USA M.A.D.E.™).

- Rare Earth Magnet with a Locking
- On / Off handle and Test load feature
- Supports custom pole shoes
- Lifts flat or round loads
- Heat resistant up to 180°F (82°C)
- Stationary Lift Lug(s)
- Vertical Lift Capability using the optional Lift Lug attachment
- RFID tagged
- 3:1 Design Factor
- Conforms to ASME B30.20 Standards
- Test Load Feature—Note: Never complete entire lift

---

### Creative Lift® Magnets

Permanent lift magnets are ideal for handling steel plates, die castings, forgings, etc. They eliminate the need for clamping devices, slings or chains. One person can perform operations previously calling for two or more people.

- Patented Non-Marring Roller Cam Release will easily release parts without gouging your valuable materials (U.S. Patent: 6,471,273 B1)
- Spring return handle
- RFID Enabled
- Less torque required to release load
- “Jack Screw”, Secondary Release
- Lift capacity clearly stated on magnet
- Durable Stainless Steel Casing
- Heat Resistant up to 300°F (148°C)
- 3:1 Design Factor
- CONFORMS TO ASME B30.20 STANDARDS

#### Model No. | Lift Overall Weight | Lift | Overall | Weight |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lbs.</td>
<td>Ht. (in.)</td>
<td>Wd. (in.)</td>
<td>Ln. (in.)</td>
</tr>
<tr>
<td>VL0275</td>
<td>275</td>
<td>6-1/2</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>VL0600</td>
<td>600</td>
<td>6-1/2</td>
<td>5</td>
<td>18</td>
</tr>
<tr>
<td>VL1200</td>
<td>1,200</td>
<td>6-1/2</td>
<td>11</td>
<td>34</td>
</tr>
<tr>
<td>VL2500</td>
<td>2,500</td>
<td>10-1/2</td>
<td>7</td>
<td>119</td>
</tr>
</tbody>
</table>

**Lifting Value in Lbs & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>1/4” (6’ Lg)</th>
<th>3/8” (8’ Lg)</th>
<th>1/2” (8’ Lg)</th>
<th>3/4” (10’ Lg)</th>
<th>1” (10’ Lg)</th>
<th>2” (10’ Lg)</th>
<th>3” (10’ Lg)</th>
<th>Overall</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>VL0275</td>
<td>150</td>
<td>220</td>
<td>240</td>
<td>275</td>
<td>275</td>
<td>275</td>
<td>NA</td>
<td>1,200</td>
<td>1,200</td>
</tr>
<tr>
<td>VL0600</td>
<td>755</td>
<td>900</td>
<td>1,165</td>
<td>1,200</td>
<td>1,200</td>
<td>1,200</td>
<td>NA</td>
<td>2,500</td>
<td>2,500</td>
</tr>
<tr>
<td>VL1200</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>1,700</td>
<td>1,800</td>
<td>2,500</td>
<td>NA</td>
<td>2,500</td>
<td>2,500</td>
</tr>
</tbody>
</table>

**Round Lifting Applications**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Max Lift (lbs.)</th>
<th>Max Lift at Minimum specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>VL0275</td>
<td>137</td>
<td>50 lbs. at 2.00 In. dia. / 0.12 In. thickness</td>
</tr>
<tr>
<td>VL0600</td>
<td>300</td>
<td>130 lbs. at 2.00 In. dia. / 0.12 In. thickness</td>
</tr>
<tr>
<td>VL1200</td>
<td>600</td>
<td>600 lbs. at 4.00 In. dia. / 0.50 In. thickness</td>
</tr>
<tr>
<td>VL2500</td>
<td>1,250</td>
<td>1,250 lbs. at 8.00 In. dia. / 1.00 In. thickness</td>
</tr>
</tbody>
</table>

**Mazzella Catalog 13: Material Handling**

---

**J Henry Holland**

Phone: 757-460-3200

www.jhenryholland.com

**Alabama Sling Center**

Phone: 205-744-0230

www.alabamaslingcenter.com

**Tennessee Sling Center**

Phone: 901-345-8918 (Memphis)

Phone: 423-634-9005 (Chattanooga)

www.tennesseeslingcenter.com

**KCI Crane Service**

Phone: 205-345-4701

www.kcicraneservice.com
Grip Stick Retriever

- Pick your lift Lbs., Magnet & Grip are interchangeable.
- Retrieve hot parts
- Keep hands out of press
- Reduce employee injury
- 10° angled handle

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Magnet</th>
<th>Ht. (in.)</th>
<th>Wd. (in.)</th>
<th>Ln. (in.)</th>
<th>Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B090</td>
<td>50</td>
<td>4-13/16</td>
<td>2-3/8</td>
<td>3-3/8</td>
<td>1.50</td>
<td>1.50</td>
</tr>
</tbody>
</table>

Magnetic TriggerLift®

- Hand held lift grips parts with an easy to use trigger release.
- Retrieve hot parts from cutting tables
- One handed operation
- Permanent magnet
- Move parts faster and easier
- Aluminum housing
- Maximum Temp. 300°F (148°C)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Ht. (in.)</th>
<th>Wd. (in.)</th>
<th>Ln. (in.)</th>
<th>Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPL2100</td>
<td>12.5</td>
<td>7/8</td>
<td>1-3/8</td>
<td>14</td>
<td>0.65</td>
</tr>
<tr>
<td>IMPL2104</td>
<td>43.5</td>
<td>7/8</td>
<td>1-3/8</td>
<td>14</td>
<td>0.65</td>
</tr>
</tbody>
</table>

BasicLift™ Magnets

IMI’s BasicLift™ is a powerful, no frills permanent ceramic lift magnet perfect for basic flat steel lifting. Featuring a lightweight and durable Stainless Steel design. The BasicLift™ offers a good value for your dollar with strong lifting capacity and basic lifting features.

- Lightweight Design
- Durable Stainless Steel Casing
- Large Lift Lug for easy use with crane hooks & slings
- Full Width Cam Release
- 2:1 Design Factor
- Heat resistant up to 300°F (148°C)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Ht. (in.)</th>
<th>Wd. (in.)</th>
<th>Ln. (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACS055MS</td>
<td>55.0</td>
<td>3-3/4</td>
<td>4-1/4</td>
<td>1-1/2</td>
<td>0.75</td>
</tr>
<tr>
<td>ACS095MS</td>
<td>95.5</td>
<td>4-1/4</td>
<td>4-1/4</td>
<td>2-1/4</td>
<td>2.40</td>
</tr>
</tbody>
</table>

Power Grips

- Effective holding against shear force
- Securely grips heavy parts
- Maximum Temp. 300°F (148°C)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Ht. (in.)</th>
<th>Wd. (in.)</th>
<th>Ln. (in.)</th>
<th>Poles</th>
<th>Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC2100WLH</td>
<td>25.0</td>
<td>7/8</td>
<td>1/4</td>
<td>2-1/8</td>
<td>2</td>
<td>0.40</td>
</tr>
<tr>
<td>AC2200WLH</td>
<td>51.5</td>
<td>3/4</td>
<td>2</td>
<td>2</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td>AC2201WLH</td>
<td>92.5</td>
<td>1-7/8</td>
<td>5-1/4</td>
<td>4</td>
<td>2.40</td>
<td></td>
</tr>
</tbody>
</table>

ON/OFF Power Grips

- Magswitch® Technology
- On/Off Rare Earth Design
- Securely grips heavy parts
- Works on flat or pipe
- Max. Temp. 180°F (82°C)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Ht. (in.)</th>
<th>Wd. (in.)</th>
<th>Ln. (in.)</th>
<th>Magnet Dia. (in.)</th>
<th>Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC2100WLH</td>
<td>25.0</td>
<td>7/8</td>
<td>1/4</td>
<td>2-1/8</td>
<td>1-1/2</td>
<td>0.40</td>
</tr>
<tr>
<td>AC2200WLH</td>
<td>51.5</td>
<td>3/4</td>
<td>2</td>
<td>2</td>
<td>0.75</td>
<td>2.40</td>
</tr>
<tr>
<td>AC2201WLH</td>
<td>92.5</td>
<td>1-7/8</td>
<td>5-1/4</td>
<td>4</td>
<td>2.40</td>
<td>2.40</td>
</tr>
</tbody>
</table>

Note: Lift value on pipe varies based on diameter and wall thickness. Contains mostly foreign products.

Magnetic Sheet Handlers

- Lift or move sheets, plates, hot or oily parts
- Handle sheets stacked horizontally or vertically
- Protect workers from cuts, slivers, nicks & burns
- Increase productivity
- No electricity required

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Th. (in.)</th>
<th>Wd. (lb)</th>
<th>Ln. (in)</th>
<th>Maximum Penetration (in.)</th>
<th>Wt. (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B100</td>
<td>50.0</td>
<td>4</td>
<td>3-5/8</td>
<td>11-1/2</td>
<td>3/16</td>
<td>3.75</td>
</tr>
<tr>
<td>B250</td>
<td>125.0</td>
<td>4</td>
<td>7-1/4</td>
<td>11-1/2</td>
<td>5/16</td>
<td>8.25</td>
</tr>
<tr>
<td>B400</td>
<td>200.0</td>
<td>4</td>
<td>7-1/4</td>
<td>11-1/2</td>
<td>5/16</td>
<td>8.25</td>
</tr>
<tr>
<td>B600</td>
<td>300.0</td>
<td>4</td>
<td>7-1/4</td>
<td>11-1/2</td>
<td>5/16</td>
<td>8.25</td>
</tr>
</tbody>
</table>

Note: Not intended to be used with a crane.
Remote Operated DynamicLift™ Magnet

The remote operated DynamicLift™, featuring Magswitch® technology, is a powerful Rare Earth permanent lift magnet that can be turned “on” or “off” using a remote control without the need of air or electricity! Not only does this give the operator freedom from electrical cords and air hoses, but also opens up a whole new range of lifting possibilities where accessibility to the magnet was cumbersome or impossible to reach, such as lifting above or below arm’s length, into deep channels, loading or unloading CNC / cutting tables and operation from inside the forklift. Permanent magnetic lifts also eliminate the fear of dropping the load being lifted due to power failures.

- Remote Operated, locking, On/Off Rare Earth permanent magnet will stay “on” if battery loses power
- Secondary manual release in case of battery failure
- Built in safety - a load sensor and a 3-button power off sequence prevent accidental release while under load
- Indicator lights for magnet operational state and battery strength
- Includes two, 12 volt rechargeable, Lithium-ion batteries (200+ cycles per charge) and charger
- Internal release does not contact the load
- 3:1 Design Factor
- Heat resistant up to 180°F (82°C)
- CONFORMS TO ASME B30.20 STANDARDS

DynamicLift™ Magnets

Lightweight and powerful Rare Earth permanent lift magnets, featuring Magswitch® technology, can be used on flat or round surfaces and contain an internal release On / Off device that does not contact or damage the surface of the part being lifted.

- On / Off Rare Earth design
- Easier actuation and Superior holding on material from 1/4” to 1” in thickness
- Lifts flat or round loads
- Heat resistant up to 180°F (82°C)
- Handle locks in “On” position
- 3:1 Design Factor
- Conforms to ASME B30.20 Standards

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Overall</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLR0600</td>
<td>600</td>
<td>12-1/2</td>
<td>8-1/2</td>
</tr>
</tbody>
</table>

Lifting Value in Lbs & *Maximum Sheet Length Due To Sag For Material Thickness For Single Magnet Use

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Minimum Dia. (in.)</th>
<th>Minimum Thickness (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLR0600</td>
<td>100</td>
<td>2</td>
<td>1/2</td>
</tr>
</tbody>
</table>

Round Lifting Applications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Lift (lbs.)</th>
<th>Minimum Dia. (in.)</th>
<th>Minimum Thickness (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLR0600</td>
<td>187</td>
<td>2-1/2</td>
<td>1/2</td>
</tr>
</tbody>
</table>
VacuMaster—Basic

The lifting device VacuMaster Basic is suitable for, among other things, handling of plates and barrels. The vacuum lifting device's high degree of convertibility is ensured by pump sizes, handlebar lengths, suction plates, longitudinal beams and cross beams, which can be individually adjusted to the specific application. The longitudinal beam includes an integrated vacuum reservoir and distributor.

Ergonomic work is made possible by the handlebar. The warning unit and a check valve guarantee a high degree of occupational safety.

Workpieces can be optionally swivelled by 90° or flipped over by 180° with the VacuMaster Basic. This device is appropriate for use in lifting borders of 125 to 750 kg.

Construction, Function and Performance of the Lifting Device VacuMaster

Functionality:
- Long lifetime due to extremely robust construction
- Individual adaptation of the device with a compact modular system

Safety:
- Audible warning in the case of a power failure
- Large vacuum reservoir
- Unique manual slide valve prevents incorrect operation
- Clearly visible manometer
- High availability due to maximum reliability

Ergonomy:
- Easy handling thanks to low intrinsic weight
- All controls easily accessible
- Compliance with the latest ergonomic knowledge protects user's health
Vacuum Tube Lifter—Jumbo

The vacuum tube lifter JumboErgo is equipped with a special rotary handle similar to the gas handle on a motorcycle. Both lightweight and heavy loads can be handled quickly and sensitively with this control element. The workpiece is lowered by "accelerating" and lifted by "decelerating". The rotation and direction of rotation avoid uncontrolled movements with the lifting device—for example, if the operator slips off the control unit.

At the same time, the tube lifter JumboErgo guarantees ergonomic posture at every working height. The movable handlebar permits ergonomic picking of loads at large heights or directly from the floor.

Construction, Functions and Performance of the Tube Lifter Jumbo

Functionality:
■ The load is gripped and lifted by a single medium, namely vacuum.
■ A modular system of variable basic components which can be combined in many different ways permits simple adaptation of the unit to meet individual requirements.

Safety:
■ A quick-acting non-return valve and the large area of the suction pad(s) ensure that the load is not dropped—even if the electric power or the compressed-air supply fails.
■ The design complies with the German accident-prevention regulations (BGR/BGV 500).

Ergonomics:
■ Compliance with the latest ergonomic considerations ensures that the use of the Jumbo does not endanger the health of the user.
■ Operation as for JumboErgo
■ Ergonomic handling of loads at great heights or for picking up from the floor.


Lift Tables
Built To Your Specifications

We offer a wide variety of scissor lifts ranging from 500 to 100,000 lb. capacity. Units built to your specifications are easily accommodated. Options include special table sizes, mobility packages, pit mounted units, multi-tier units, conveyors and/or turntables mounted to scissor lift platform, tilters, special paint color and private labeling.

Platforms: Oversized platforms, beveled edges for pit mounting and lift eyes are standard options.

Pivot Pins: All pivot pins are easily replaceable without grinding away any welds. Each pivot point standardly consists of a non-regreaseable turned ground and polished pin, and a self-lubricating high-performance bushing. Depending upon capacity and your unique application, pins and bushings with other characteristics may be used.

Wheels: Every wheel is supplied with a grease-packed precision bearing for low friction operation and longer life.

Cylinders: SAE (Mobile) or NFPA (Industrial) cylinders are both available. Cylinders are clevis mounted with a regreaseable spherical bushing to ensure proper cylinder alignment. This design minimizes cylinder-side loading, which extends the cylinder’s life. Unique designs may require different cylinder mounting.

Hydraulic Lift Table:
- 45 degrees of tilt
- Special 24 in. high lip on hinge end
- Accordion skirt guarding
- Used for positioning baskets or gondolas filled with small parts near an assembly line

Controls: The scissor lift table can be actuated by a hand-held push-button station, a covered foot pedal or by an electrical signal provided by the customer. A magnetic starter and a transformer are mounted and pre-wired in an enclosure.

Power Units: External power units, as opposed to smaller internal power units, are standard and provide continuous duty performance.

Mobility Packages: Lighter capacity lift tables can be provided with casters and/or a wheel and dolly. Manual or powered carts are also available.

Conveyors, Tilters and Turntables: Other material handling components are available and can be easily attached or integrated into your scissor lift table. These components include; turntables, conveyors, ball transfer tables and tilters.

Multi-Tier Scissor Lift:
- For applications requiring short platform lengths and greater travels
- 54 in. wide x 72 in. long platform
- 6,000 lb. capacity
- 84 in. travel
ENDO Spring Balancers

Spring Balancers True Zero Gravity
Available for applications ranging from 1 to 440 pounds. High quality spring is designed for long life and is backed with an 18-month warranty.

Air Tool Balancers True Zero Gravity
Available with 1/4" and 3/8" hose for tool weights up to 11 pounds. High quality spring and smooth cable travel backed with an 18-month warranty.

Air Hoists
Wire rope design with 260 pound capacity is fast and efficient eliminating lifting injuries. Chain type available from 1/4 ton to 6 ton capacities. All air hoists feature variable speed controls for accurate work placement.

Cord & Hose Reels
Full line of industrial reels for air, water or electric supply.

Typical Balancer Features:
- Secondary Support Top Hanger
- Accommodates safety chain
- Spring in Spring Case
- Tension Gauge
- Lets operator see tension setting
- Safety Device Pin
- Prevents tool from dropping
- Secondary Support Bottom Hanger
- Accommodates safety chain
- Support Cable (Rope)
- Bottom Hook
- With rubber buffer, collar, & thimble
DYNAFOR™ LLX
Load Indicators Devices

The DYNAFOR™ LLX devices are electronic load indicators to measure tensile forces (N) and determine hanging loads (lbs.).

- **Precision:** +/- 0.2%
- Available models from 500 lbs. to 500,000 lbs.

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<tr>
<th>Models</th>
<th>Units</th>
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DYNASAFe™
Universal Load Limiter

Mechanical load limiters in which plastic deformation of the sensor body is detected by the integrated micro switch.

- HF 05/A Dead end installation. 100 lbsf to 6,400 lbsf per fall.
- HF 05/Au Dead end installation. 100 lbsf to 24,000 lbsf per fall.
- HF 05/B Dead end installation. 100 lbsf to 6,400 lbsf per fall.
- HF 31/1/A2 On the wire rope installation. 200 daN to 3200 daN per fall. Two thresholds.
- HF 32/A On the wire rope installation. 200 lbsf to 24,000 lbsf per fall. One threshold.
- HF 32/A2 On the wire rope installation. 200 lbsf to 24,000 lbsf per fall. Two thresholds.
- HF 32/B On the wire rope installation. 100 lbsf to 24,000 lbsf per fall.
DYNAFOR™ MWX+ Load Indicator Devices

The DYNAFOR™ MWX devices are load indicators equipped with a permanent hanging ring and hook with a safety lever.

- Optional wireless remote instrument reading.
- DYNAFOR™ MWX+ and MWX+ TR are a part of the crane scale product range. They are specifically suitable for the quantification of hanging loads (lbs.) in industrial environments.
- Precision: 0.1%
- Available models from 1,000 lbs. to 50,000 lbs.

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<th>Models</th>
<th>Units</th>
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Dimensions

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<th>H</th>
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J Henry Holland
Phone: 757-460-3300
www.jhenryholland.com

Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com

Tennessee Sling Center
Phone: 901-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com

KCI Crane Service
Phone: 205-345-4701
www.kcicraneservice.com
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Mazzella Lifting Technologies
Phone: 800-362-4601
www.mazzellalifting.com

Progressive Crane
Phone: 800-83-CRANE
www.progressivecrane.com

Mazzella Crane Service
Phone: 877-96-CRANE
www.mazzellacraneservice.com

Indusco Wire Rope & Supplies
Phone: 410-727-0665
www.induscowire.com
Hydraulic Circuits—
Pumps, Cylinders, Controls

2. Pump – a device for converting mechanical energy to fluid energy.
4. Gauge – measures bar pressure and/or force.
8. Quick Coupling – “hose half” and “cylinder half” couplings are used for quick connection and fluid flow check when separated. (No. 9796 and 9798)
9. Shut-Off Valve – regulates the flow of hydraulic fluid to or from cylinders. (No. 9642 or 9644)
10. Load-Lowering Valve – allows metered lowering of cylinder and provides safety when prolonged load holding is required. (No. 9596)
11. Tee Gauge Adapter – allows for installation of pressure / tonnage gauge anywhere in the hydraulic system. (No. 9670)
12. Pipe Plug – for blocking unused ports within the system. (No. 9687)

1. Single-acting cylinder or cylinders in the circuit, controlled by a pump mounted valve.
2. Double-acting cylinder or cylinders in the circuit, controlled by a pump mounted valve.
4. Double-acting cylinders controlled by a remote mounted valve.

4. Double-acting cylinders controlled by a remote mounted valve.

Basic single-acting system with a hand pump, gauge, hose and single-acting cylinder.
Basic single-acting system with a hand pump, gauge, hose, multiple shut-off valves, load lowering valves and multiple cylinders.
C-Series
General Purpose Cylinders

Single-acting | Spring return

Heavy-duty lifting or pushing

- Chrome-plated piston rod resists wear and corrosion
- Solid steel cylinder body for durability

<table>
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<tr>
<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
<th>Retracted Height (in.)</th>
<th>Weight (lbs.)</th>
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RLS-Series
Low Profile Cylinders

Single-acting | Spring return

Can fit into extremely small spaces

- A female half coupler is standard with each cylinder
- Unique heavy duty spring provides fast piston return

<table>
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<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
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What Type of Cylinder Do You Need?

1. To determine a cylinder’s force capacity:
   - Force Box = Cylinder Effective Area (sq in.) X Bar from Pump

2. To determine oil capacity of a cylinder:
   - Oil Capacity = Cylinder Effective Area (sq in.) X Cylinder Stroke (in.)

3. To determine reservoir capacity needed for a multiple cylinder system:
   - Usable Oil Cap. = Oil Cap of Cyl. X Number of Cyl. in System

Note: For double-acting cylinders, oil in rod end of cylinder must be subtracted to determine capacity.
RSS-Series
Shorty Cylinders
Single-acting | Spring return

Restricted space for cylinder
- Grooved piston top keeps load from sliding
- Cylinder can be “dead-ended” at full capacity

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<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
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RH-Series
Center Hole Cylinders
Single-acting | Spring return

Ideal for pulling and tensioning of cables, anchor bolts, forcing screws, etc.
- All cylinders except RH120 are furnished with female half coupler

RA-Series
Aluminum Cylinders
Single-acting | Spring return

For jacking and other non-production operations
- Grooved piston top keeps load from sliding
- Cylinder can be “dead-ended” at full capacity

* Supplied with carrying handles

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<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
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* 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.
### R-Series High Tonnage Cylinders

#### Single-acting | Load return

**Push, Press for low-cycle application**
- Low-cycle, gravity return
- Alloy heat-treated piston and body for reliability and strength

<table>
<thead>
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<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
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### RC-Series High Tonnage Cylinders

#### Single-acting | Load return

**Push, Press and Lift**
- Low cycle, gravity return
- Overflow port prevents piston from being overextended under load
- Alloy heat-treated piston and body for reliability and strength

<table>
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<tr>
<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
<th>Retracted Height (in.)</th>
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RL-Series Steel
Locking Collar Cylinders
Single-acting | Load return

Push, mechanical load holding

- Positive mechanical lock to support load
- Support lifted load for extended periods of time with hydraulic pressure released

<table>
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<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
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<td>355</td>
<td>2</td>
<td>R3552L</td>
<td>141.80</td>
<td>11-1/2</td>
<td>381</td>
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<tr>
<td>355</td>
<td>6</td>
<td>R3556L</td>
<td>425.30</td>
<td>15-1/2</td>
<td>512</td>
</tr>
<tr>
<td>430</td>
<td>2</td>
<td>R4302L</td>
<td>173.20</td>
<td>13-1/8</td>
<td>556</td>
</tr>
<tr>
<td>430</td>
<td>6</td>
<td>R4306L</td>
<td>519.50</td>
<td>17-1/8</td>
<td>725</td>
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<tr>
<td>430</td>
<td>10</td>
<td>R43010L</td>
<td>865.90</td>
<td>21-1/8</td>
<td>894</td>
</tr>
<tr>
<td>565</td>
<td>2</td>
<td>R5652L</td>
<td>226.20</td>
<td>14-5/8</td>
<td>811</td>
</tr>
<tr>
<td>565</td>
<td>6</td>
<td>R5656L</td>
<td>678.60</td>
<td>18-5/8</td>
<td>1031</td>
</tr>
<tr>
<td>565</td>
<td>10</td>
<td>R56510L</td>
<td>1131</td>
<td>22-5/8</td>
<td>1251</td>
</tr>
</tbody>
</table>

RL-Series Aluminum
Locking Collar Cylinders
Single-acting | Spring return

When portability is a key factor

- Half the weight of steel cylinders
- Support lifted load for extended periods of time with hydraulic pressure released

<table>
<thead>
<tr>
<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
<th>Retracted Height (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>6-1/8</td>
<td>RA556L</td>
<td>67.6</td>
<td>12-1/2</td>
<td>29.6</td>
</tr>
<tr>
<td>100</td>
<td>6-1/4</td>
<td>RA10066L</td>
<td>129</td>
<td>13-3/8</td>
<td>64</td>
</tr>
</tbody>
</table>

RC-Series
Locking Collar Cylinders
Single-acting | Load return

Push, mechanical load holding

- Positive mechanical lock to support load

<table>
<thead>
<tr>
<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
<th>Retracted Height (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>740</td>
<td>2</td>
<td>RC7402L</td>
<td>293.6</td>
<td>15.6</td>
<td>1202</td>
</tr>
<tr>
<td>740</td>
<td>6</td>
<td>RC7406L</td>
<td>886.7</td>
<td>19.5</td>
<td>1506</td>
</tr>
<tr>
<td>740</td>
<td>10</td>
<td>RC74010L</td>
<td>1467.8</td>
<td>23.4</td>
<td>1810</td>
</tr>
<tr>
<td>965</td>
<td>2</td>
<td>RC96552L</td>
<td>383.2</td>
<td>17.9</td>
<td>1574</td>
</tr>
<tr>
<td>962</td>
<td>6</td>
<td>RC9656L</td>
<td>1150.2</td>
<td>21.9</td>
<td>2183</td>
</tr>
<tr>
<td>962</td>
<td>10</td>
<td>RC96510L</td>
<td>1916.2</td>
<td>25.8</td>
<td>2579</td>
</tr>
<tr>
<td>1220</td>
<td>2</td>
<td>RC12202L</td>
<td>485.1</td>
<td>17.4</td>
<td>2136</td>
</tr>
<tr>
<td>1220</td>
<td>6</td>
<td>RC12206L</td>
<td>1455.8</td>
<td>23.5</td>
<td>2888</td>
</tr>
<tr>
<td>1220</td>
<td>10</td>
<td>RC122010L</td>
<td>2452.2</td>
<td>27.5</td>
<td>3373</td>
</tr>
</tbody>
</table>
RC-Series Pancake Locking Collar Cylinders

For use where space is limited

- Support lifted load for extended periods of time with hydraulic pressure released
- Overflow port prevents piston from being overextended under load

<table>
<thead>
<tr>
<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
<th>Retracted Height (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>2</td>
<td>RC0552P</td>
<td>21.66</td>
<td>4.92</td>
<td>24.25</td>
</tr>
<tr>
<td>100</td>
<td>1.75</td>
<td>RC1022P</td>
<td>36.43</td>
<td>5.39</td>
<td>48.50</td>
</tr>
<tr>
<td>155</td>
<td>1.75</td>
<td>RC1552P</td>
<td>55.23</td>
<td>5.83</td>
<td>85.98</td>
</tr>
<tr>
<td>240</td>
<td>1.75</td>
<td>RC2402P</td>
<td>86.23</td>
<td>6.10</td>
<td>130.7</td>
</tr>
<tr>
<td>380</td>
<td>1.75</td>
<td>RC3802P</td>
<td>134.74</td>
<td>7.01</td>
<td>242.51</td>
</tr>
<tr>
<td>620</td>
<td>1.75</td>
<td>RC6202P</td>
<td>220.78</td>
<td>7.56</td>
<td>425.49</td>
</tr>
</tbody>
</table>

**WARNING**

SEE WARNING INFORMATION ON PAGES 638 - 643.
**R-Series**
**High Tonnage Cylinders**

**Double-acting | Hydraulic return**

**Push - Pull, Press for low-cycle application**

- Built-in safety relief valve prevents overpressurization of the retract circuit

---

**RD-Series**
**High Tonnage Cylinders**

**Double-acting | Hydraulic return**

**Push - Pull, Press for high-cycle application**

- Grooved ring pattern in load cap helps guard against load slippage

---

**RC-Series**
**High Tonnage Cylinders**

**Double-acting | Hydraulic return**

**Push - Pull and Press**

- Cylinders come standard with hardened caps

---

<table>
<thead>
<tr>
<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
<th>Retracted Height (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>740</td>
<td>2</td>
<td>RC7402D</td>
<td>293.6</td>
<td>11.1</td>
<td>670</td>
</tr>
<tr>
<td>740</td>
<td>6</td>
<td>RC7406D</td>
<td>880.7</td>
<td>15.7</td>
<td>877</td>
</tr>
<tr>
<td>740</td>
<td>10</td>
<td>RC74010D</td>
<td>1467.9</td>
<td>20</td>
<td>1080</td>
</tr>
<tr>
<td>965</td>
<td>2</td>
<td>RC9652D</td>
<td>392.2</td>
<td>12.2</td>
<td>957</td>
</tr>
<tr>
<td>965</td>
<td>6</td>
<td>RC9656D</td>
<td>1150.2</td>
<td>16.5</td>
<td>1215</td>
</tr>
<tr>
<td>965</td>
<td>10</td>
<td>RC9610D</td>
<td>1916.2</td>
<td>20.9</td>
<td>1473</td>
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<tr>
<td>1220</td>
<td>6</td>
<td>RC12202D</td>
<td>485.1</td>
<td>13</td>
<td>1287</td>
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<td>1220</td>
<td>10</td>
<td>RC12206D</td>
<td>1455.8</td>
<td>17</td>
<td>1612</td>
</tr>
<tr>
<td>1220</td>
<td>2</td>
<td>RC122010D</td>
<td>2452.2</td>
<td>21.7</td>
<td>1938</td>
</tr>
</tbody>
</table>

---

Mazzella Lifting Technologies
Phone: 800-362-4601
www.mazzellalifting.com

Progressive Crane
Phone: 800-83-CRANE
www.progressivecrane.com

Mazzella Crane Service
Phone: 877-96-CRANE
www.mazzellacraneservice.com

Indusco Wire Rope & Supplies
Phone: 410-727-0665
www.induscowire.com
RH-Series Center Hole Cylinders

Double-acting

Ideal for pulling and tensioning of cables, anchor bolts, forcing screws, etc.

- Built-in safety feature prevents overpressurization of the retract circuit

<table>
<thead>
<tr>
<th>Cyl. Cap. (tons)</th>
<th>Stroke (in.)</th>
<th>Order No.</th>
<th>Oil Cap (cu. in.)</th>
<th>Retracted Height (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push</td>
<td>Pull</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>15</td>
<td>3</td>
<td>RH303</td>
<td>17.6</td>
<td>10.2</td>
</tr>
<tr>
<td>30</td>
<td>15</td>
<td>6</td>
<td>RH306D</td>
<td>35.54</td>
<td>20.28</td>
</tr>
<tr>
<td>30</td>
<td>20</td>
<td>10-1/8</td>
<td>RH3010</td>
<td>66</td>
<td>41</td>
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<tr>
<td>60</td>
<td>25</td>
<td>4</td>
<td>RH604D</td>
<td>49.2</td>
<td>20.8</td>
</tr>
<tr>
<td>60</td>
<td>25</td>
<td>5</td>
<td>RH605 *</td>
<td>61.55</td>
<td>25.77</td>
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<tr>
<td>60</td>
<td>40</td>
<td>10-1/8</td>
<td>RH6010 *</td>
<td>133</td>
<td>87</td>
</tr>
<tr>
<td>100</td>
<td>45</td>
<td>1-1/2</td>
<td>RH1001</td>
<td>32.1</td>
<td>14.2</td>
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<tr>
<td>100</td>
<td>50</td>
<td>6</td>
<td>RH1006 *</td>
<td>120.26</td>
<td>5.6</td>
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<tr>
<td>100</td>
<td>45</td>
<td>10-1/8</td>
<td>RH10010 *</td>
<td>216.6</td>
<td>95.5</td>
</tr>
<tr>
<td>150</td>
<td>70</td>
<td>5</td>
<td>RH1505 *</td>
<td>150.9</td>
<td>73.6</td>
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<tr>
<td>150</td>
<td>75</td>
<td>8</td>
<td>RH1508 *</td>
<td>239.6</td>
<td>127.2</td>
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<tr>
<td>200</td>
<td>75</td>
<td>8</td>
<td>RH2008 *</td>
<td>323.6</td>
<td>127.6</td>
</tr>
</tbody>
</table>

P-Series Hand Pumps

Single-speed | Two-speed

Lightweight and steel design

- All pumps are fitted with internal relief valves
- All metal construction won’t burn through in welding environments
PA6 / PA9-Series
Air Pumps

Single-acting | Double-acting

Compact, lightweight and portable

- Air supply 3-8 bar
- Easier to operate than a hand pump, giving you the speed you need at an affordable price

<table>
<thead>
<tr>
<th>Cyl. Type</th>
<th>Order No.</th>
<th>Air Supply Required (psi)</th>
<th>Reservoir Capacity (gal.)</th>
<th>Usable (cu. in.)</th>
<th>Oil Port (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-acting</td>
<td>PA6</td>
<td>40-120</td>
<td>105</td>
<td>98</td>
<td>3/8 NPTF</td>
<td>14</td>
</tr>
<tr>
<td>PA6A</td>
<td>40-120</td>
<td>105</td>
<td>98</td>
<td>3/8 NPTF</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>PA6AM</td>
<td>40-120</td>
<td>105</td>
<td>98</td>
<td>3/8 NPTF</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>PA6M</td>
<td>40-120</td>
<td>105</td>
<td>98</td>
<td>3/8 NPTF</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>PA6R</td>
<td>40-120</td>
<td>105</td>
<td>98</td>
<td>3/8 NPTF</td>
<td>20.58</td>
<td></td>
</tr>
<tr>
<td>PA6RM</td>
<td>40-120</td>
<td>1 gal.</td>
<td>185</td>
<td>3/8 NPTF</td>
<td>21.58</td>
<td></td>
</tr>
<tr>
<td>PA6-2</td>
<td>40-120</td>
<td>2 gal.</td>
<td>454</td>
<td>3/8 NPTF</td>
<td>24.5</td>
<td></td>
</tr>
<tr>
<td>PA6M-2</td>
<td>40-120</td>
<td>2-1/2 gal.</td>
<td>570</td>
<td>3/8 NPTF</td>
<td>32.1</td>
<td></td>
</tr>
<tr>
<td>Double-acting</td>
<td>PA6O</td>
<td>40-120</td>
<td>105</td>
<td>98</td>
<td>3/8 NPTF</td>
<td>18.4</td>
</tr>
<tr>
<td>PA6OM</td>
<td>40-120</td>
<td>105</td>
<td>98</td>
<td>3/8 NPTF</td>
<td>20.4</td>
<td></td>
</tr>
<tr>
<td>PA6M-1</td>
<td>40-120</td>
<td>1 gal.</td>
<td>185</td>
<td>3/8 NPTF</td>
<td>28.1</td>
<td></td>
</tr>
<tr>
<td>PA6D2</td>
<td>40-120</td>
<td>2 gal.</td>
<td>454</td>
<td>3/8 NPTF</td>
<td>28.6</td>
<td></td>
</tr>
<tr>
<td>PA6DM-2</td>
<td>40-120</td>
<td>2-1/2 gal.</td>
<td>570</td>
<td>3/8 NPTF</td>
<td>36.2</td>
<td></td>
</tr>
</tbody>
</table>

PA17/46/55-Series
Air Pumps

Two speed
Use where air is preferred source of energy

- Rotary-style air motor

<table>
<thead>
<tr>
<th>Cyl. Type</th>
<th>Order No.</th>
<th>Valve Type</th>
<th>Air Supply Required (psi)</th>
<th>Reservoir Capacity (gal.)</th>
<th>Usable (cu. in.)</th>
<th>Oil Port (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-acting</td>
<td>PA172</td>
<td>Advance / Return *</td>
<td>40-120</td>
<td>2</td>
<td>295</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Single &amp; Double-acting</td>
<td>PA174</td>
<td>Advance Hold / Return *</td>
<td>40-120</td>
<td>2</td>
<td>295</td>
<td>41</td>
<td></td>
</tr>
</tbody>
</table>

** Holds pressure in advance position when valve motor is shut off, in return position with motor running. Pump will build pressure when motor is shut off, oil returns to reservoir.

P30 / 55-Series
Gasoline Pumps

Gasoline driven

Ideal for remote locations

- A logical choice at work sites where electricity or compressed air are unavailable
- Larger reservoirs available

<table>
<thead>
<tr>
<th>Cyl. Type</th>
<th>Order No.</th>
<th>Valve Type</th>
<th>Valve No.</th>
<th>Valve Function</th>
<th>Reservoir Usable (cu. in.)</th>
<th>Horse-power</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-acting</td>
<td>PG303</td>
<td>3-Way</td>
<td>9520</td>
<td>Advance Hold Return</td>
<td>375</td>
<td>2</td>
<td>32</td>
</tr>
<tr>
<td>PG553</td>
<td>3-Way</td>
<td>9520</td>
<td>Advance Hold Return</td>
<td>1300 **</td>
<td>6</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Double-acting</td>
<td>PG304</td>
<td>4-Way</td>
<td>9506</td>
<td>Advance Hold Return</td>
<td>375</td>
<td>2</td>
<td>120</td>
</tr>
<tr>
<td>PG554</td>
<td>4-Way</td>
<td>9506</td>
<td>Advance Hold Return</td>
<td>1300 **</td>
<td>6</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

** Usable oil is calculated with oil fill at recommended level at 1/2" below cover plate
PE10-Series Electric / Battery Pumps

Two speed

High performance in compact package

- Portable power source for hydraulic cylinders and tools
- Models have 2.4 m power cord with alligator clips to connect to any 12-volt battery

<table>
<thead>
<tr>
<th>Cyl. Type</th>
<th>Order No.</th>
<th>Valve Type</th>
<th>Valve No.</th>
<th>Valve Function</th>
<th>Reservoir Usable (cu. in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-acting</td>
<td>PE102</td>
<td>2-Way / Auto Dump</td>
<td>9561</td>
<td>Advance Hold (Auto) *</td>
<td>60</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>PE102A</td>
<td>Auto Dump</td>
<td>9562</td>
<td>Advance Return **</td>
<td>60</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>PE102-220</td>
<td>2-Way / Auto Dump</td>
<td>9561</td>
<td>Advance Hold (Auto) *</td>
<td>60</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>PE102A-220</td>
<td>Auto Dump</td>
<td>9562</td>
<td>Advance Return</td>
<td>60</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>PR102</td>
<td>2-Way / Auto Dump</td>
<td>9561</td>
<td>Advance Hold (Auto) *</td>
<td>60</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>PR102A</td>
<td>Auto Dump</td>
<td>9562</td>
<td>Advance Return **</td>
<td>60</td>
<td>45</td>
</tr>
</tbody>
</table>

| Single-acting/Double-acting | PE104 | 4-Way | 9563 | Advance Hold Return | 60 | 53 |
| | PE104-220 | 4-Way | 9563 | Advance Hold Return | 60 | 53 |
| | PR104 | 4-Way | 9563 | Advance Hold Return | 60 | 53 |

* "Advance" position holds pressure with motor shut off. "Return" position advances cylinder with motor running and returns cylinder with motor shut off.

** Cylinder advances with motor running and automatically returns with motor shut off.

PE17-Series Electric Hydraulic Pump

Two speed

For maintenance and construction applications

- Extremely quiet noise level (67-81 sBA)

<table>
<thead>
<tr>
<th>Pump No.</th>
<th>Max Pressure Output (psi)</th>
<th>RPM</th>
<th>Product Weight with Oil (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 17 Series</td>
<td>10,000</td>
<td>3450</td>
<td>45</td>
</tr>
<tr>
<td>PE 17M Series</td>
<td>10,000</td>
<td>3450</td>
<td>53</td>
</tr>
</tbody>
</table>

PE30-Series Electric Pump

Two speed

For maintenance and construction applications

- Starts under full load even when voltage is reduced to 50% of nominal rating

<table>
<thead>
<tr>
<th>Pump No.</th>
<th>Max Pressure Output (psi)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE30 with 1-1/4 gal. res.</td>
<td>10,000</td>
<td>41</td>
</tr>
<tr>
<td>PE30 with 1-3/4 gal. res.</td>
<td>10,000</td>
<td>49</td>
</tr>
</tbody>
</table>
PE46-Series Electric Pumps

Two speed

Ideal for indoor maintenance and production applications

- 24-volt control circuit on all units with remote control to any 12-volt battery

<table>
<thead>
<tr>
<th>Pump No.</th>
<th>Max Pressure Output (psi)</th>
<th>RPM</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 46 Series</td>
<td>10,000</td>
<td>3450</td>
<td>45</td>
</tr>
</tbody>
</table>

PE55 Vanguard® Electric Pumps

Two speed

Heavy-duty multiple-applications pump

- Heavy construction and concrete stressing
- Low-voltage starting possible

<table>
<thead>
<tr>
<th>Pump No.</th>
<th>Max Pressure Output (psi)</th>
<th>RPM</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE55 Series</td>
<td>10,000</td>
<td>12,000</td>
<td>65</td>
</tr>
</tbody>
</table>

PQ120-Series Electric Pumps

Up to 400 ton 1,6 l/min

Ideal for press operation

- Low-speed, high-torque pump designed specifically for heavy-duty, extended-cycle operation, ideal for pressing

<table>
<thead>
<tr>
<th>Pump No.</th>
<th>Max Pressure Output (psi)</th>
<th>RPM</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PQ120 Series</td>
<td>10,000</td>
<td>1725</td>
<td>164</td>
</tr>
</tbody>
</table>

PE400-Series Electric Pumps

Two speed / up to 1000 ton 5,6 l/min

Single or multiple cylinder applications

- Low noise level of 73-80 dBA

<table>
<thead>
<tr>
<th>Pump No.</th>
<th>Max Pressure Output (psi)</th>
<th>RPM</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE400 Series 4</td>
<td>10,000</td>
<td>1725</td>
<td>492</td>
</tr>
<tr>
<td>PE400 Series 4S</td>
<td>10,000</td>
<td>1725</td>
<td>506</td>
</tr>
</tbody>
</table>
Hydraulic Spreaders

Spring-return | Retract automatically

Use to lift machines or as a clamp

- It is a hydraulic pry bar
- Spread concrete forms or rebar, or perform straightening jobs

<table>
<thead>
<tr>
<th>Capacity (tons)</th>
<th>Order No.</th>
<th>Max. Spread (in.)</th>
<th>Min. Clearance Required (in.)</th>
<th>Oil Required (cu. ln.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HS2000</td>
<td>4’</td>
<td>9/16”</td>
<td>.63</td>
<td>4.8</td>
</tr>
<tr>
<td>1-1/2</td>
<td>HS3000</td>
<td>11-1/2”</td>
<td>1-1/2”</td>
<td>3.50</td>
<td>22</td>
</tr>
</tbody>
</table>

Nut Splitter

Single-acting | Spring-return

Removal of seized and corroded nuts

- Specially designed tool steel cutter blade penetrates the nut to the precise point where it cracks, stopping short of the bolt threads

**Hydraulic Tester**

Measure oil flow, pressure and temperature

Tests pump condition without removing pump from system. Max. 350 bar

- Temperature and flow readings are in Metric and English, accurate to within ± 2% of full scale.
- Automatic pressure compensating feature lets you increase flow without affecting pressure setting the nut to the precise point where it cracks, stopping short of the bolt threads

<table>
<thead>
<tr>
<th>Capacity (tons)</th>
<th>Order Number</th>
<th>Standard Wedge Type</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>HFS3A</td>
<td>60° Sharp</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>HFS6A</td>
<td>60° Sharp</td>
<td>18</td>
</tr>
</tbody>
</table>
Inflatable Jacks

The Load Lifting Alternative

Ideal for structure moving, rescue work, lifting round tanks, maintaining pipelines and countless other tasks.

- Large surface area and material flexibility allow jacks to lift loads on soft or compressible surfaces without support cribbing being necessary.

<table>
<thead>
<tr>
<th>Lifting Capacity (tons)</th>
<th>Lifting Height (in.)</th>
<th>Order Number</th>
<th>Air Contents at 116 psi (cu. ft.)</th>
<th>Max. Working Pressure (psi)</th>
<th>Length (in.)</th>
<th>Width (in.)</th>
<th>Collapsed Height (in.)</th>
<th>Product Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.13</td>
<td>2-45/64</td>
<td>IJ 13</td>
<td>.08</td>
<td>116</td>
<td>5-1/2</td>
<td>5-7/64</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3.6</td>
<td>4-46/64</td>
<td>IJ 45</td>
<td>.50</td>
<td>116</td>
<td>10</td>
<td>7-29/32</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>6-19/64</td>
<td>IJ 76</td>
<td>1.48</td>
<td>116</td>
<td>12</td>
<td>12</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>12</td>
<td>8-81/64</td>
<td>IJ 128</td>
<td>3.40</td>
<td>116</td>
<td>15-45/64</td>
<td>15-45/64</td>
<td>1</td>
<td>8</td>
</tr>
<tr>
<td>23.8</td>
<td>12</td>
<td>IJ 2211</td>
<td>9.50</td>
<td>116</td>
<td>21-45/64</td>
<td>21-45/64</td>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>34</td>
<td>14</td>
<td>IJ 3213</td>
<td>16.40</td>
<td>116</td>
<td>25-39/64</td>
<td>25-39/64</td>
<td>1</td>
<td>22</td>
</tr>
<tr>
<td>46.3</td>
<td>16-13/32</td>
<td>IJ 4416</td>
<td>25.70</td>
<td>116</td>
<td>29-1/2</td>
<td>29-1/2</td>
<td>1</td>
<td>29</td>
</tr>
<tr>
<td>74.6</td>
<td>20-1/2</td>
<td>IJ 7320</td>
<td>51.40</td>
<td>116</td>
<td>37-13/32</td>
<td>37-13/32</td>
<td>1-13/64</td>
<td>58</td>
</tr>
</tbody>
</table>

Couplers

Standard & Flush-Face

- Complete quick coupler, 3/8" NPTF (includes two 9800 dust caps) Order No. 9795
- Male (hose) half coupler, 3/8" NPTF Order No. 9798
- Female (cylinder) half coupler with No. 9800 dust cap, 3/8" NPTF Order No. 9796
Hoses
Polyurethane | Rubber

4:1 safety factor

- All have plastic hose guards except for the 1/4" I.D. polyurethane hoses which have spring guards
- 3/8" NPTF fittings on both ends
- Other hose lengths available

<table>
<thead>
<tr>
<th>Hose I.D.</th>
<th>Hose Length</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>2'</td>
<td>9765</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>3'</td>
<td>9766</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>6'</td>
<td>9767</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>8'</td>
<td>9768</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>10'</td>
<td>9769</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>12'</td>
<td>9770</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>20'</td>
<td>9771</td>
</tr>
<tr>
<td>3/8&quot; High Flow</td>
<td>6'</td>
<td>9780</td>
</tr>
<tr>
<td>3/8&quot; High Flow</td>
<td>10'</td>
<td>9781</td>
</tr>
<tr>
<td>3/8&quot; High Flow</td>
<td>20'</td>
<td>9782</td>
</tr>
<tr>
<td>3/8&quot; High Flow</td>
<td>50'</td>
<td>9783</td>
</tr>
</tbody>
</table>

Gauges

Analog | Digital

- Gauges feature an easily readable and highly visible, red day-glo needle
- High strength steel bourdon tube ensures high cycle life

<table>
<thead>
<tr>
<th>Face Dia.</th>
<th>PSI/Bar</th>
<th>Tons</th>
<th>Use With Cylinder Series</th>
<th>Gauge No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-1/2&quot;</td>
<td>0-10,000/0-690</td>
<td>–</td>
<td>All</td>
<td>9040</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>–</td>
<td>All</td>
<td>9052</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>0-17.5, 0-30 &amp; 0-50</td>
<td>RT172, RT302 &amp; RT503</td>
<td>9059</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>0-10</td>
<td>C, RD, RH, RLS &amp; RSS</td>
<td>9055</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>0-25</td>
<td>C &amp; RD</td>
<td>9063</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>0-50</td>
<td>RH, RLS &amp; RSS</td>
<td>9065</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>0-55</td>
<td>C, R, RA &amp; RD</td>
<td>9069</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>0-60</td>
<td>RH</td>
<td>9071</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>0-100</td>
<td>C, R, RA, RD, RH, RLS, RLS, RSS, RT1004</td>
<td>9075</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>0-150</td>
<td>C, R, RD &amp; RLS</td>
<td>9077</td>
</tr>
<tr>
<td>4&quot;</td>
<td>0-10,000/0-690</td>
<td>0-200</td>
<td>R, RD &amp; RH</td>
<td>9079</td>
</tr>
</tbody>
</table>

† The tonnage scale on the gauge may vary slightly among different series cylinders due to different effective area.

Fluids for High Pressure

Standard, Flame Out, Biodegradable and Low Temp

- Prevents pump cavitation, additives prevent rust, oxidation and sludge

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Oil</td>
<td>1 qt.</td>
<td>9636</td>
</tr>
<tr>
<td>Standard Oil</td>
<td>1 gal.</td>
<td>9637</td>
</tr>
<tr>
<td>Standard Oil</td>
<td>2-1/2 gal.</td>
<td>9638</td>
</tr>
<tr>
<td>Standard Oil</td>
<td>55 gal.</td>
<td>9616</td>
</tr>
<tr>
<td>Flame-Out®</td>
<td>1 gal.</td>
<td>9639</td>
</tr>
<tr>
<td>Flame-Out®</td>
<td>2-1/2 gal.</td>
<td>9640</td>
</tr>
<tr>
<td>Biodegradable</td>
<td>1 gal.</td>
<td>9645</td>
</tr>
<tr>
<td>Biodegradable</td>
<td>2-1/2 gal.</td>
<td>9646</td>
</tr>
<tr>
<td>Low Temp</td>
<td>1 gal.</td>
<td>9647</td>
</tr>
</tbody>
</table>
Manifolds

Remote and Pump mounted

- Manifold with two needle valves for control of two cylinders, has four 3/8" NPTF ports—Order No. 9642
- Manifold with four needle valves for control of four cylinders, has six 3/8" NPTF ports—Order No. 9644

Valves

All valves are painted, coated or plated for corrosion resistance

- Shut off valve with 3/8" NPTF ports—Order No. 9575
- Pilot operated check valve with 3/8" NPTF ports—Order No. 9581
- Pressure relief valve with 3/8" NPTF ports—Order No. 9623
- In-line pressure regulator valve with two 3/8" NPTF inlet ports, one 1/8" NPTF tank port and 1m drain line kit—Order No. 9633

Fittings

For all applications

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Fitting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9670</td>
<td>Tee adapter</td>
<td>1/4&quot; &amp; 3/8&quot; NPTF female and 3/8&quot; NPTF male ports</td>
</tr>
<tr>
<td>9675</td>
<td>Swivel connector</td>
<td>3/8&quot; NPTF male, 3/8&quot; NPSM female</td>
</tr>
<tr>
<td>9678</td>
<td>45° fitting</td>
<td>1/4&quot; NPTF male and female ends</td>
</tr>
<tr>
<td>9680</td>
<td>Coupling</td>
<td>both ends 3/8&quot; NPTF female</td>
</tr>
<tr>
<td>9681</td>
<td>Street elbow</td>
<td>3/8&quot; NPTF male and female ends</td>
</tr>
<tr>
<td>9682</td>
<td>Male connector</td>
<td>3/8&quot; NPTF male ends</td>
</tr>
<tr>
<td>9683</td>
<td>Male connector</td>
<td>3/8&quot; NPTF male ends</td>
</tr>
</tbody>
</table>
**Bottle Jacks**

**Low Profile**

The right choice for lower clearance jobs

- All jacks operate both vertically and horizontally for use in a variety of lifting, pushing, and spreading applications

<table>
<thead>
<tr>
<th>Capacity (tons)</th>
<th>Stroke (in.)</th>
<th>Order Number</th>
<th>Retracted Height Min. (in.)</th>
<th>Handle Effort at Rated Cap. (lbs.)</th>
<th>Product Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>3-3/4</td>
<td>9012A</td>
<td>6-3/4</td>
<td>60</td>
<td>14</td>
</tr>
<tr>
<td>20</td>
<td>3-3/8</td>
<td>9020A</td>
<td>7-1/8</td>
<td>70</td>
<td>22.2</td>
</tr>
<tr>
<td>30</td>
<td>3-1/8</td>
<td>9030A</td>
<td>7-1/8</td>
<td>50</td>
<td>30.2</td>
</tr>
</tbody>
</table>

**Sidewinder Jacks**

**Mini Jacks**

Compact, fits in your palm

- The perfect addition to any toolbox, this remarkable little jack has multiple uses that are limited only by your imagination
- Use it as a jack or a spreader, and use it vertically or horizontally in limited clearance

<table>
<thead>
<tr>
<th>Capacity (tons)</th>
<th>Stroke (in.)</th>
<th>Order Number</th>
<th>Retracted Height Min. (in.)</th>
<th>Handle Effort at Rated Cap. (lbs.)</th>
<th>Product Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>3/4</td>
<td>9105A</td>
<td>2-1/2</td>
<td>57</td>
<td>4.2</td>
</tr>
<tr>
<td>5</td>
<td>1-1/2</td>
<td>9205A</td>
<td>3-1/2</td>
<td>57</td>
<td>5.3</td>
</tr>
<tr>
<td>10</td>
<td>1-3/16</td>
<td>9210A</td>
<td>4-3/4</td>
<td>62</td>
<td>12.1</td>
</tr>
<tr>
<td>20</td>
<td>1-3/16</td>
<td>9220A</td>
<td>5-1/8</td>
<td>77</td>
<td>17.6</td>
</tr>
</tbody>
</table>

**WARNING**

SEE WARNING INFORMATION ON PAGES 638 - 643.

**Power Team**

**Hydra Grip-O-Matic**

Use with 2/3 jaw pullers

A self contained pulling system in a compact package

- The harder the pulling force, the tighter the jaws grip for secure holding force
- Easily metered release valve control knob or horizontally in limited clearance

<table>
<thead>
<tr>
<th>Cylinder Capacity (tons)</th>
<th>Order Number</th>
<th>Reach Jaws (in.)</th>
<th>Spread Jaws (in.)</th>
<th>Stroke (in.)</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>PH63C</td>
<td>6</td>
<td>7-1/8</td>
<td>3-1/8</td>
<td>10.8</td>
</tr>
<tr>
<td>8</td>
<td>PH83C</td>
<td>7-1/2</td>
<td>9-13/16</td>
<td>3-1/8</td>
<td>14.5</td>
</tr>
<tr>
<td>11</td>
<td>PH113C</td>
<td>9</td>
<td>11</td>
<td>3-1/8</td>
<td>17.6</td>
</tr>
<tr>
<td>30</td>
<td>PH303C</td>
<td>14-3/4</td>
<td>21-1/4</td>
<td>4-1/4</td>
<td>112</td>
</tr>
<tr>
<td>8</td>
<td>PH82K</td>
<td>8-6/32</td>
<td>9-21-32</td>
<td>3-1/8</td>
<td>35</td>
</tr>
<tr>
<td>11</td>
<td>HST11S</td>
<td>5-25/32</td>
<td>16-1/8</td>
<td>3-1/8</td>
<td>32</td>
</tr>
</tbody>
</table>

* Max bar size 2.3622" or 60 mm
Hydraulic Presses

Application: Maintenance workshop, factory, school, test lab, etc.

- Type: Bench, floor and C-frame

### Capacity Tons

#### 10 tons

<table>
<thead>
<tr>
<th>Model</th>
<th>Pump Type</th>
<th>Cylinder Type</th>
<th>Order No.</th>
<th>Pump Code</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bench</td>
<td>Hand</td>
<td>Single-Acting</td>
<td>SPM1010</td>
<td>P55</td>
<td>91</td>
</tr>
<tr>
<td>Floor</td>
<td>Hand</td>
<td>Single-Acting</td>
<td>SPM1010</td>
<td>P55</td>
<td>171</td>
</tr>
<tr>
<td>Floor</td>
<td>Electric</td>
<td>Single-Acting</td>
<td>SPE1010</td>
<td>PE102</td>
<td>175</td>
</tr>
<tr>
<td>Floor</td>
<td>Air</td>
<td>Single-Acting</td>
<td>SP1010A</td>
<td>P89H</td>
<td>162</td>
</tr>
<tr>
<td>Floor</td>
<td>Electric</td>
<td>Double-Acting</td>
<td>SPE1010D</td>
<td>PE104</td>
<td>192</td>
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</tbody>
</table>

#### 25 tons

<table>
<thead>
<tr>
<th>Model</th>
<th>Pump Type</th>
<th>Cylinder Type</th>
<th>Order No.</th>
<th>Pump Code</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bench</td>
<td>Air</td>
<td>Single-Acting</td>
<td>SPA2514</td>
<td>PA6</td>
<td>683</td>
</tr>
<tr>
<td>Floor</td>
<td>Hand</td>
<td>Single-Acting</td>
<td>SPM2514</td>
<td>P159</td>
<td>693</td>
</tr>
<tr>
<td>Floor</td>
<td>Electric</td>
<td>Single-Acting</td>
<td>SPE2514</td>
<td>PE172</td>
<td>665</td>
</tr>
<tr>
<td>Floor</td>
<td>Electric</td>
<td>Double-Acting</td>
<td>SPE2514S</td>
<td>PE213S</td>
<td>759</td>
</tr>
<tr>
<td>Floor</td>
<td>Air</td>
<td>Single-Acting</td>
<td>SPA256</td>
<td>PA6</td>
<td>578</td>
</tr>
<tr>
<td>Floor</td>
<td>Hand</td>
<td>Single-Acting</td>
<td>SPM256</td>
<td>P59</td>
<td>595</td>
</tr>
<tr>
<td>Floor</td>
<td>Electric</td>
<td>Single-Acting</td>
<td>SPE256</td>
<td>PE172</td>
<td>607</td>
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</table>

#### 55 tons

<table>
<thead>
<tr>
<th>Model</th>
<th>Pump Type</th>
<th>Cylinder Type</th>
<th>Order No.</th>
<th>Pump Code</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor</td>
<td>Electric</td>
<td>Single-Acting</td>
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#### 100 tons

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R-Series
Steel Cylinders

Single-acting | Spring Return

Capacity Range:
5 - 100 Tons

Stroke Range:
.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 and corrosion.
- Rod wiper protects inner cylinder from dirt.

RFS-Series
Steel Cylinders

Single-acting | Flat Jack Spring Return

Capacity Range:
5 - 150 Tons

Stroke Range:
.44 - .62 In.

Maximum Pressure:
10,000 PSI

- Plated piston to resist scoring and corrosion.
- Low profile, high tonnage design.
- Rod wiper protects inner cylinder from dirt.

RLS-Series
Steel Cylinders

Single-acting | Low Profile Spring Return

Capacity Range:
10 - 100 Tons

Stroke Range:
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 and corrosion.

RP-Series
Steel Cylinders

Single-acting | Pull Cylinder

Capacity Range:
2 - 5 Tons

Stroke Range:
5 - 5.5 In.

Maximum Pressure:
10,000 PSI

- Designed for pulling and 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.
RDP-Series
Steel Cylinders
Double-acting | Pull Cylinder

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 and full retraction.

RC-Series
Steel Cylinders
Single-acting | Center Hole

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.

RCD-Series
Steel Cylinders
Double-acting | Center Hole

Capacity Range:
30 - 500 Tons

Stroke Range:
3 - 10.13 in.

Maximum Pressure:
10,000 PSI

- Design allows for both push and pull forces.
- 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.

RLR-Series
Steel Cylinders
Single-acting | Pull Cylinder

Capacity Range:
30 - 1,000 Tons

Stroke Range:
6 - 12 in.

Maximum Pressure:
10,000 PSI

- Large bearings resist side load.
- Plated piston to resist scoring and 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.
RDA-Series
Steel Cylinders

Double-acting

Capacity Range:
10 - 1,000 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 and corrosion.
- Large bearings resist side load.
- Rod wiper protects inner cylinder from dirt.
- Custom strokes and capacities up to 1,500 tons available.

CLP-Series
Steel Cylinders

Single-acting  |  Pancake Locknut

Capacity Range:
60 - 500 Tons

Stroke Range:
1.77 - 1.97 in.

Maximum Pressure:
10,000 PSI

- Extra low profile to fit into tight spaces.
- 5° swivel load caps on all models.
- Locknut design provides positive mechanical load hold.

RAS-Series
Aluminum Cylinders

Single-acting  |  Spring Return

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 and full retraction.

RAL-Series
Aluminum Cylinders

Single-acting  |  Locknut Spring Return

Capacity Range:
50 - 150 Tons

Stroke Range:
2 - 10 in.

Maximum Pressure:
10,000 PSI

- Technical coating reduces wear and corrosion.
- Carrying handles standard on all models.
RAC-Series
Aluminum Cylinders

Single-acting | Center Hole

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 and full retraction.
- Technical coating reduces wear and corrosion.
- Stop rings for piston blow-out protection.
- Rod wiper protects inner cylinder from dirt.

RACD-Series
Aluminum Cylinders

Single-acting | Pancake Locknut

Capacity Range:
30 - 150 Tons

Stroke Range:
2 - 10 in.

Maximum Pressure:
10,000 PSI

- Technical coating reduces wear and 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.

P-Series
Hand Pumps

Compact Steel

Reservoir Capacity:
20 - 145 Cu.In.

Weight:
10 - 29 Lbs.

Maximum Pressure:
10,000 PSI

- Welded carrying handles (P41, P42 & P82).
- Large 3/8” pressure port for maximum flow.
- Low handle effort for easy operation.
- Single and two speed models.

P-Series
Hand Pumps

Lightweight Aluminum

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.
P-Series Hand Pumps

Heavy Duty Steel

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.

P-Series Hand Pumps

Special Application

Volume Per Stroke: .30 - 4.56 Cu.In.

Weight: 9 - 20 Lbs.

Pressure Range: 750 - 12,000 PSI

- Ideal for fixed applications when pumps need to be bolted in place.
- P1000A Series offers a swivel pump head for flexible fixturing.
- Wide range of operating pressures to select from.

WARNING
SEE WARNING INFORMATION ON PAGES 638 - 643.

P-Series Hand Pumps

Ultra High Pressure Aluminum

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.

P-Series Hand Pump Accessories

- Gland Nut Plug
- Gauge Adapter
- Gauge Connector
- Elbow
- Coupling
- Gauge
- Tee
- Gland Nut with Sleeve
- Tubing

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KCI Crane Service
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G1-Series Electric Power Pumps

Electric
Reservoir Capacity: 1 Gallon
Flow @ Rated Pressure: 19 Cu.In./Min.
Maximum Pressure: 10,000 PSI
- Powered by a 115V - 60Hz, .5 hp universal motor (14,640 rpm).
- Low startup voltage, draws 10 amps at full load (230V models available).
- Two-speed pump operation provides fast tool performance.
- External adjustable relief standard on all models.

G3-Series Electric Power Pumps

Electric
Reservoir Capacity: 1 - 10 Gallons
Flow @ Rated Pressure: 46 Cu.In./Min.
Maximum Pressure: 10,000 PSI
- Powered by a 115V - 60Hz, 1.13 hp universal motor (21,000 rpm).
- Low startup voltage, draws 16 amps at full load (230V models available).
- Equipped with a 15’ remote power controlled pendant.
- Reservoirs available in 1 - 10 gallons; welded steel design.
- Ideal for use with small, mid-sized hydraulic cylinders or tools.

G4-Series Electric Power Pumps

Electric
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.
G5-Series
Electric Power Pumps

Electric

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 universal motor (21,000 rpm).
- Low startup voltage, draws 16 amps at full load (230V models available).
- High performance two-stage pump provides higher cross-over pressure for faster cycle times and equipment operation.
- Reservoirs available in 1.5 - 10 gallons; welded steel design.
- Ideal for use with mid to large sized hydraulic cylinders or tools.

G6-Series
Electric Power Pumps

Electric

Reservoir Capacity:
5 - 40 Gallons

Flow @ Rated Pressure:
100 Cu.In./Min.

Maximum Pressure:
10,000 PSI

- Two-stage pump operation provides fast tool performance.
- Ideal for use with mid- to large-sized hydraulic cylinders or tools.
- Powered by a multi-voltage, 3 phase, 3 hp AC motor (3450 rpm); low startup voltage draws 9.5 amps (230v) at full load.
- Perfect fit for production and multi-cylinder lift systems.
- Quiet running, only (80dba).

WARNING
SEE WARNING INFORMATION ON PAGES 638 - 643.

G5 Series
Air Power Pumps

Air

Reservoir Capacity:
1.5 - 20 Gallons

Flow @ Rated Pressure:
55 Cu.In./Min.

Maximum Pressure:
10,000 PSI

- Powered by a rotary air vane, 3 hp motor (3,000 rpm).
- Equipped with a filter-lubricator assembly, air muffler and carry handlebar on all models.
- Precision-designed valve offers reliability and secure load holding; external adjustable relief standard on all models.
- Ideal for use with mid sized hydraulic cylinders or tools.

---

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KCI Crane Service
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G4-Series
Gas Power Pumps
Gas
Reservoir Capacity: 1.5 - 20 Gallons
Flow @ Rated Pressure: 50 Cu.In./Min.
Maximum Pressure: 10,000 PSI
- Powered by a 127 c.c. Briggs & Stratton® gas motor.
- High-performance two-stage pump provides higher cross-over pressure for faster cycle times and equipment operation; 50 cubic inches / minute @ 10,000 PSI.
- Reservoirs available in 1.5 - 20 gallons; welded steel design.
- Ideal for use with mid-sized hydraulic cylinders or tools.

G6-Series
Gas Power Pumps
Gas
Reservoir Capacity: 2.5 - 20 Gallons
Flow @ Rated Pressure: 100 Cu.In./Min.
Maximum Pressure: 10,000 PSI
- Powered by a 163 c.c. Honda® gas motor.
- High-performance two-stage pump provides higher cross-over pressure for faster cycle times and equipment operation.
- Ideal for use with mid- to large-sized hydraulic cylinders or tools.
- Reservoirs available in 2 - 20 gallons; welded steel design.
- Precision designed valve offers reliability and secure load holding.

Compact Foot - Air Over Hydraulic Power Pumps
Compact Foot Pumps - Air over Hydraulic
Usable Oil Capacity: 90 - 460 Gallons
Weight: 18.5 - 41 Lbs.
Maximum Pressure: 10,000 PSI
- 3 position non-slip, diamond grip treadle for safe advance, hold and retract operation.
- Quiet operation - 85 dba @ 10,000 psi for in-house production.
- Rugged all metal construction.
- High-quality rubber gasket seals.
- Integrated non-spill vent / oil level indicator.

G-Series Accessory Kits
- Pressure Gauge
- Foot Switch
- Roll Cage
- Heat Exchanger
- External Filter
- Pendant Motor Control
- Caster
- Multi-Port Adapter
SPH-Series
Single-Acting Punch

Single-Acting Punch

Capacity: 35 Tons

Maximum Thickness: .5 In.

Maximum Pressure: 10,000 PSI

- Industrial-grade, single-acting, spring return design.
- Punches holes in material up to .5" thick mild steel.
- All models come equipped with a heavy-duty steel case, providing tool and die organization along with ease of transport.
- Large selection of square, rounded and oblong dies and punches are offered to complete a wide variety of applications.

S-Series
Hydraulic Spreaders

Hydraulic Spreaders

Capacity Range: .75 - 1 Tons

Weight: 5 - 25 Lbs.

Spread Range: .38 - 11.5 In.

- Closed narrow ends starting at .38".
- Large spreading range up to 11.5".
- Return spring assists the jaws to the closed position.
- Durable all-metal construction to withstand any tough environment.
- Quality high flow coupler for fast tool setup.

SF-Series
Hydraulic Spreaders

Hydraulic Spreaders

Capacity: 5 Tons

Weight: 17 Lbs.

Spread Range: .13 - 3 In.

- 5 tons of spreading force.
- .13" through 3" spreading capability.
- Jaws open parallel.
- Will not drift or creep-down.
- All metal construction.

NS-Series
Nut Splitters

Nut Splitters

Nut Range: .5 - 2.93 In.

Weight: 1.8 - 75.1 Lbs.

Maximum Pressure: 10,000 PSI

- Cuts hardened nuts up to grade 8 & 2H.
- Replacement chisel and set screws included.
- Cuts any shape nut.
- Cuts nuts from .5" to 2.93".
- Rugged carrying case included.
RJ-Series
Ratchet Jacks

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 and 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.

CR-Series
Reel Jacks

Capacity Range:
5 - 20 Tons

Stroke Range:
9.5 - 11.5 In.

Maximum
Toe Height Range:
21 - 34.5 In.

- Double-lever sockets for jacking in close quarters.
- Multiple-tooth pawls for strength and 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.

PP-Series
Push / Pull Jacks

Centered Capacity:
10 Tons

Weight:
5 - 13 Lbs.

Screw Diameter:
1.25 In.

- Used for pushing, pulling, holding and more.
- Ideal for weld shops.
- End nuts are designed to permit the use of chains with eye hooks.
- Suitable for adjusting forms, dampers, fixtures and flues.
- Incorporates 1.25-6 ACME 2G Class, right and left hand.

JJ-Series
Super Jacks

Capacity Range:
15 - 50 Tons

Stroke Range:
4 - 9 In.

Maximum Height:
10.25 - 15 In.

- Ratcheting screw jack design.
- Holds the load indefinitely, and will not creep down.
- Positive shoulder stop for safety.
- Available with aluminum or ductile iron housing.
- Ball bearings for smooth operation and low handle effort.
SJ-Series
Screw Jacks

Capacity Range:
12 - 24 Tons

Stroke Range:
3.75 - 14.25 In.

Minimum Height:
9.62 - 23 In.

- Ductile iron bodies for strength.
- 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.

SC-Series
Screw & Cap Assemblies

Sustaining Capacity:
12 - 24 Tons

Thread Pitch Range:
1.5 - 2.5 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 and cap assembly is threaded through it.

44-Series
Tank Jacks

Capacity:
7.5 Tons

Stroke:
2 In.

Minimum Height:
6 - 18 In.

- Supports and levels vertical, bottom, or side opening filter and storage tanks.
- Rated capacity for all models is 15,000 lbs.
- Screw operation provides infinite adjustment for exact tank leveling and gravity flow.

SER-Series
Loadbinder Jack

Capacity:
20 Tons

Travel Range:
14 - 38 In.

Barrel Range:
18 - 42 In.

Weight:
57 - 92 Lbs.

- 20-ton capacity models are used for connecting river barges, pulling forms and steel plates.
- Ideal for bridge construction and steel engineering projects.
- Equipped with spring activated pawl and 26" integrated handle.
- Can be used in "push" or "pull" applications.
PJ-Series Planer Jacks

Sustaining Capacity:
2 - 8 Tons

Weight:
1.5 - 12 Lbs.

Operable Rise:
1 - 4 In.

- Side locking screw keeps the jack extended and prevents lowering due to vibration.
- Screw operation provides countless adjustments for exact leveling.
- Ideal jack for leveling plane beds, millers and machinery.
- Ball and socket cap swivels to center load forces.
- Notched base fastens easily to machine beds.

S-Series Spreader Jacks

Sustaining Capacity:
3 Tons

Operable Rise:
1 In.

Weight:
3.3 Lbs.

- Perfect for close quarters and tight spaces.
- Supports 3 tons and has a 1 in. stroke for adjustments.
- Closed height of 3 in.
- Serrated cap rotates and prevents load slippage.

RS-Series Roof Support

Stroke:
36 In.

Minimum Height:
66 - 78 In.

Maximum Height:
102 - 114 In.

- The 9225A family is a ratcheting style roof support rated at 4 tons sustaining capacity.
- The 139A family is a screw extension type roof support rated at 5 tons sustaining capacity.
- Aluminum alloy housing and base makes this unit lightweight and portable (A9225 Family).
- Holds the load indefinitely without creep down.

SE-Series / BE-Series Trench Braces

Adjustable Range:
7 - 10 In.

Pipe Size:
1.5 - 2 In.

Lever Length:
9.5 - 11 in.

- Provides an efficient, economical protection against cave-ins and costly re-digging in construction and maintenance.
- Ball socket joints tilt for added safety on angular mounting.
- Holes on each end facilitates mounting to wood members.
**HJ-Series**

**Hand Jacks**

**Capacity Range:**
2 - 100 Tons

**Stroke Range:**
3.38 - 6.68 In.

**Weight:**
5 - 194 Lbs.

- Drop-forged base and rugged welded housing construction.
- All models include over travel protection.
- Grooved saddles help prevent load slippage.
- Super low profile versions available in 12 and 22 ton capacities.
- Piston rods are chrome plated to resist corrosion.

---

**TJH-Series**

**Heavy Duty Toe Jacks**

**Capacity Range:**
2 - 10 Tons

**Stroke Range:**
4.44 - 9 In.

**Weight:**
18 - 85 Lbs.

- Self-contained models for maximum versatility.
- Low toe heights fit in tight clearances.
- The lowest handle effort for easy operation.
- The lowest weights for reduced back injuries.
- Swivel sockets for access in close quarters. (TJH5 & TJH10 only).

---

**B-Series**

**Air Lifting Bags**

**Capacity Range:**
1.1 - 74.1 Tons

**Lifting Height:**
2.7 - 20 In.

**Maximum Pressure:**
116 PSI

- 11 models with capacities ranging from 1.1 through 74.1 tons.
- Simplex air bags operate on standard shop air up to 116 PSI.
- All models include 2 ply Kevlar with neoprene.
- Wide variety of safety controllers for single and multiple bag systems.
- Light weight makes the Simplex air bags easy to set up.
- B22A through B74A bags come with side holes for attaching bags together.

---

**B-Series**

**Air Bag Accessories**

- Supply Hoses
- Deluxe Dual Deadman Controller
- Dual Deadman Controller
- Single Deadman Controller
- Y Connector
- In-Line Control Shut Off & Relief Valves
- Dual / Single Safety Controller
- Pressure Regulator Controller
- Deluxe Dual Deadman Controller
- Single Deadman Controller
- Dual / Single Safety Controller
- Pressure Regulator Controller

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**KCI Crane Service**  
Phone: 205-345-4701  
www.kcicraneservice.com
10 - 15 Ton – H Frame Bench Hydraulic Presses

Capacity Range:
10 - 15 Tons

Stroke:
10 in.

Maximum Pressure:
10,000 PSI
- 10 or 15 ton capacities.
- Adjustable bed with large daylight.
- Moveable work head.
- Wide variety of power sources.

25 - 30 Ton – H Frame Hydraulic Presses

Capacity Range:
25 - 30 Tons

Stroke:
6.25 - 14.25 in.

Maximum Pressure:
10,000 PSI
- Large daylight with open sides for easy loading.
- Wide choice of pumps & pressing cylinders.
- Includes tonnage gauge.
- IES & IED Series comes with pendant control.
- Moveable work head for maximum versatility.
- Adjustable work bed with friction brake winch.

10 Ton – H Frame Hydraulic Presses

Capacity:
10 Tons

Stroke:
10 - 10.13 In.

Maximum Pressure:
10,000 PSI
- Single or double-acting models available.
- Large daylight with open sides for easy loading.
- Heavy-duty welded construction.
- Moveable work head for maximum versatility.
- IES Series comes with motor pendant control.

55 Ton – H Frame Hydraulic Presses

Capacity:
55 Tons

Stroke:
6.25 - 13.25 In.

Maximum Pressure:
10,000 PSI
- Large daylight with open sides for easy loading.
- Adjustable work bed with friction brake winch.
- Moveable work head for maximum versatility.
- Rigid frame under full load.
- IED & IES Series are equipped with a pendant control.
100 Ton – H Frame Hydraulic Presses

Capacity: 100 Tons

Stroke: 6.06 - 12 in.

Maximum Pressure: 10,000 PSI

- Moveable work head for maximum versatility.
- Wide choice of pumps and pressing cylinders.
- Includes tonnage gauge.
- IED & IES Series comes with pendant control.
- Choose double-acting presses for fast retraction.
- Adjustable work bed with friction brake winch.

150 - 200 Ton – H Frame Hydraulic Presses

Capacity Range: 150 - 200 Tons

Stroke: 12 - 13 in.

Maximum Pressure: 10,000 PSI

- Large daylight with open sides for easy loading.
- Adjustable work bed with friction brake winch.
- Rigid frame under full load.
- IED Series comes with pendant control.
- Includes tonnage gauge.
- Presses ordered with pumps include remote pendant control and large 5 gallon reservoir.
ST & STL-Series
Steel & Aluminum Pump & Cylinder Sets

Capacity Range:
10 - 100 Tons

Stroke Range:
1.5 - 14.25 In.

Maximum Pressure:
10,000 PSI

- All steel or aluminum construction.
- Each set comes with a 6' hose equipped with a high flow coupler, gauge and gauge adapter.
- Cylinders can be used in upright, inverted or horizontal position.
- Heavy-duty spring for fast and full cylinder retraction.
- Maximum control and safety is provided with the pressure gauge.
- Optimal performance provided with matched pump and cylinder.

MK-Series
Maintenance Kit

Capacity Range:
10 Tons

Weight:
84 Lbs.

- Set includes a Simplex hand pump, cylinder, hose, gauge and gauge adapter.
- Heavy-duty case included.
- Rated at 5 tons when attachments are used.
- Quick lock and threaded adaptors included.
- Order as a set or individual components.

G1-Series
Electric Bolting Pumps

Reservoir Capacity:
1 Gallon

Weight:
36 lbs.

Maximum Pressure:
10,000 PSI

- Light-weight bolting pump equipped with an integrated gauge, adjustable relief and 15' remote power controlled pendant.
- Powered by a 115V - 60Hz, .5 hp universal motor (14,640 rpm).
- Low startup voltage, draws 10 amps at full load (230V model available).
- Two-speed pump operation provides fast tool performance.
G3-Series Electric Bolting Pumps

Reservoir Capacity: 1 - 2.5 Gallons

Weight: 57 - 69 Lbs.

Maximum Pressure: 10,000 PSI

- Heavy-duty bolting pump configuration is ideal for use with mid- to large-sized torque wrenches.
- High-performance two-stage pump provides higher cross-over pressure for faster cycle times and tool operation; 46 cubic inches / minute @ 10,000 PSI.
- Powered by a 115V - 60Hz, 1-1/8 hp universal motor.

G5-Series Electric Bolting Pumps

Reservoir Capacity: 1.5 - 2.5 Gallons

Weight: 75 - 85 Lbs.

Maximum Pressure: 10,000 PSI

- Powered by a rotary air vane, 3 hp motor (3,000 rpm).
- Equipped with a filter-lubricator assembly, air muffler, adjustable relief and 12' remote controlled pendant on all models.
- High-performance two-stage pump provides higher cross-over pressure for faster cycle times and tool operation; 55 cubic inches / minute @ 10,000 PSI.
- Powered by a 115V - 60Hz, 1-1/8 hp universal motor.

G5-Series Air Bolting Pumps

Reservoir Capacity: 1.5 - 2.5 Gallons

Weight: 75 - 85 Lbs.

Maximum Pressure: 10,000 PSI

- Powered by a rotary air vane, 3 hp motor (3,000 rpm).
- Equipped with a filter-lubricator assembly, air muffler, adjustable relief and 12' remote controlled pendant on all models.
- High-performance two-stage pump provides higher cross-over pressure for faster cycle times and tool operation; 55 cubic inches / minute @ 10,000 PSI.
- Powered by a 115V - 60Hz, 1-1/8 hp universal motor.
WT-Series
Square Drive

Maximum Torque @ 10,000 psi:
27,200 Ft. Lbs.

Square Drive Range:
.75 - 2.5 In.

Maximum Pressure:
10,000 PSI

- Hardened alloy square drive provides long life.
- No reaction pawl eliminates tool lockup.
- 27 degree stroke for high performance and speed.
- Push through square drive switches from tighten to loosen instantly.
- No leak couplers that swivel on double axis for ease of operation.
- Anti-Backlash mechanism prevents tool from back-driving.

WX-Series
Low Clearance Wrenches

Maximum Torque @ 10,000 psi:
35,600 Ft. Lbs.

Tool Width:
1.25 - 3.24 In.

Maximum Pressure:
10,000 PSI

- Patented piston design for lower profile.
- Quick and easy interchangeable links requiring no tools.
- Accurate to within + / - 3%.
- Slim nose radius for tight spaces.
- Plated wrenches resist corrosion.

Square Drive Accessories

- Torque Wrench Hoses
- Reaction Arm Extensions
- Alco Reaction Arms
- Drive Wrench Sockets
RC-Series Single-Acting Hydraulic Cylinders

Capacity: 5 - 100 Tons

Stroke: .63 - 14.25 Inches

Maximum Pressure: 10,000 PSI

RSM-Series / RCS-Series Low Height Cylinders

Capacity: 5 - 150 Tons

Stroke: .25 - 2.44 Inches

Maximum Pressure: 10,000 PSI

RCH-Series Hollow Plunger Cylinders

Capacity: 12 - 100 Tons

Stroke: .31 - 6.13 Inches

Center Hole Diameter: .77 - 3.11 Inches

Maximum Pressure: 10,000 PSI

RRH-Series Hollow Plunger Cylinders

Capacity: 30 - 150 Tons

Stroke: 1.50 - 10.13 Inches

Center Hole Diameter: 1.31 - 3.13 Inches

Maximum Pressure: 10,000 PSI
**WARNING**

SEE WARNING INFORMATION ON PAGES 638 - 643.

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**SC-Series Cylinder-Pump Sets**

**Capacity:**
5 - 100 Tons

**Stroke:**
1.50 - 14.25 Inches

**Maximum Pressure:**
10,000 PSI

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**RAC-Series Aluminium Cylinders**

**Capacity:**
20 - 150 Tons

**Stroke:**
1.97-7.87 Inches

**Maximum Pressure:**
10,000 PSI

---

**RACH-Series Aluminium Hollow Plunger Cylinders**

**Capacity:**
20 - 100 Tons

**Stroke:**
1.97 - 5.91 Inches

**Center Hole Diameter:**
1.06 - 3.11 Inches

**Maximum Pressure:**
10,000 PSI

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**RACL-Series Aluminium Lock Nut Cylinders**

**Capacity:**
50 - 150 Tons

**Stroke:**
1.97 - 5.91 Inches

**Maximum Pressure:**
10,000 PSI

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**RAR-Series Double-Acting Aluminium Cylinders**

**Capacity:**
50 - 150 Tons

**Stroke:**
1.97 - 7.87 Inches

**Maximum Pressure:**
10,000 PSI
CLSG-Series
High Tonnage Cylinders

Capacity: 50 - 1,000 Tons
Stroke: 1.97 - 11.81 Inches
Maximum Pressure: 10,000 PSI

CLRG-Series
High Tonnage Cylinders

Capacity: 50 - 1,000 Tons
Stroke: 1.97 - 11.81 Inches
Maximum Pressure: 10,000 PSI

CLL-Series
Lock Nut Cylinders

Capacity: 50 - 1,000 Tons
Stroke: 1.97 - 11.81 Inches
Maximum Pressure: 10,000 PSI

WARNING
SEE WARNING INFORMATION ON PAGES 638 - 643.

ENERPAC®

RD-Series Precision Production Cylinders

Capacity: 4 - 25 Tons
Stroke: 1.13 - 10.25 Inches
Maximum Pressure: 10,000 PSI

RR-Series
Double-Acting Cylinders

Capacity: 10 - 500 Tons
Stroke: 2.25 - 48.00 Inches
Maximum Pressure: 10,000 PSI

AD-Series Attachments for RD-Series Cylinders

Capacity: 4 - 25 Tons

J Henry Holland
Phone: 757-460-3300
www.jhenryholland.com

Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com

Tennessee Sling Center
Phone: 901-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com

KCI Crane Service
Phone: 205-345-4701
www.kcicraneservice.com
**JH-Series / JHA-Series**
Aluminum & Steel Jacks

- **Capacity:** 7 - 150 Tons
- **Stroke:** 3.00 - 6.13 Inches
- **Maximum Pressure:** 10,000 PSI

**GBJ-Series**
Industrial Bottle Jacks

- **Capacity:** 2 - 100 Tons
- **Stroke:** 2.44 - 18.11 Inches

**PR-Series**
POW'R-RISER Lifting Jack

- **Rated Lifting Capacity:** 60 - 200 Tons
- **Stroke:** 14 - 27 Inches
- **Maximum Pressure:** 10,000 PSI

**RC-Series / P-Series / V-Series**
Extrem Environment Products

- **Capacity:** 2 - 100 Tons
- **Stroke:** 2 - 6 Inches
- **Maximum Pressure:** 10,000 PSI

**LW-Series**
Vertical Lifting Wedge

- **Minimum Clearance:** .39 Inches
- **Maximum Lift Height:** 2.72 Inches
- **Maximum Force:** 16 Tons
- **Maximum Pressure:** 10,000 PSI

**SOH-Series**
Hydraulic Machine Lifts

- **Lifting Capacity:** 8.5 - 20 Tons
- **Stroke:** 8.5 - 20 Tons
- **Toe Clearance:** 0.79 - 1.18 Inches
- **Maximum Pressure:** 10,000 PSI

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**Mazzella Lifting Technologies**
Phone: 800-362-4601
www.mazzellalifting.com

**Progressive Crane**
Phone: 800-83-CRANE
www.progressivecrane.com

**Mazzella Crane Service**
Phone: 877-96-CRANE
www.mazzellacraneservice.com

**Indusco Wire Rope & Supplies**
Phone: 410-727-0665
www.induscowire.com
SLS-Series
Synchronous Lift Systems

Capacity:
10 - 1000 Tons

Maximum Stroke:
19.6 Inches

Maximum Pressure:
10,000 PSI

BLS-Series
Stage-Lift Cylinders

Capacity:
50 - 200 Tons

Stroke Per Stage:
6 Inches

Maximum Pressure:
10,000 PSI

SHS-Series
Synchronous Hoist

Capacity Per Lifting Point:
70 - 125 Tons

Maximum Stroke:
59 Inches

Maximum Pressure:
10,000 PSI

P-Series
Lightweight Hand Pumps

Reservoir:
20 - 155 In³

Flow:
.055 - .15 In³/Stroke

Maximum Pressure:
10,000 PSI

P-Series ULTIMA
Steel Hand Pumps

Reservoir:
47 - 453 In³

Flow:
.15 - .29 In³/Stroke

Maximum Pressure:
10,000 PSI

P-Series Low Pressure
Hand Pumps

Reservoir:
18 - 200 In³

Flow:
.16 - .58 In³/Stroke

Maximum Pressure:
2,500 - 5,000 PSI

Warning
SEE WARNING INFORMATION ON PAGES 638 - 643.
P-392FP Lightweight Hydraulic Foot Pump

- Reservoir: 38 in³
- Flow: .15 in³/Stroke
- Maximum Pressure: 10,000 PSI

MP-Series Multifluid Hand Pumps

- Reservoir: 2 Gallon (optional)
- Flow: .12 - 1.28 in³/Stroke
- Maximum Pressure: 1,500 - 14,500 PSI

P, 11-Series Ultra-High Pressure Hand Pumps

- Reservoir: 45 - 60 in³
- Flow: .037 - .152 in³/Stroke
- Maximum Pressure: 10,000 - 40,000 PSI

TQ-700 Lightweight Electric Torque Wrench Pump

- Reservoir: 4 Litres
- Maximum Pressure: 700 Bar

BP-Series Battery Powered Hydraulic Pump

- Reservoir: .5 - 1.0 Gallon
- Flow: 15 in³/Min.
- Maximum Pressure: 10,000 PSI

PU-Series Economy Electric Pumps

- Reservoir: 0.5 - 1.0 Gallon
- Flow: 20 in³/Min.
- Motor Size: .5 HP
- Maximum Pressure: 10,000 psi
PE-Series
Submerged Electric Pumps

Reservoir:
1.5 Gallon

Flow:
20 In³/Min.

Motor Size:
.5 HP

Maximum Pressure:
10,000 PSI

ZU4-Series
Portable Electric Pumps

Reservoir:
1 - 10 Gallons

Flow:
60 In³/Min.

Motor Size:
1.7 HP

Maximum Pressure:
10,000 PSI

ZE-Series
Electric Pumps

Reservoir:
1 - 10 Gallons

Flow:
40 - 200 In³/Min.

Motor Size:
1.0 - 7.5 HP

Maximum Pressure:
10,000 PSI

ZE-Series
Pump Options

Reservoir:
1 - 10 Gallons

Flow:
60 In³/Min.

Maximum Pressure:
10,000 PSI

8000-Series
Electric Pumps

Reservoir:
25 Gallons

Flow:
2.0 Gal/Min.

Motor Size:
12.5 HP

Maximum Pressure:
10,000 PSI

ZUTP-Series
Electric Tensioning Pumps

Reservoir:
1 Gallon

Flow:
8.0 - 20 In³/Min.

Maximum Pressure:
21,750 PSI
ZA4-Series
Air Hydraulic Pumps

Reservoir:
1 - 10 Gallons

Flow:
80 In³/Min.

Maximum Pressure:
10,000 PSI

XA-Series
Air Driven Hydraulic Pumps

Reservoir:
61 - 122 In³

Flow:
15 In³/Min.

Air Consumption:
10 - 35 SCFM

Maximum Pressure:
10,000 PSI

PA-Series Turbo II
Air Hydraulic Pumps

Reservoir:
150 - 305 in³

Flow:
10 in³/min

Maximum Pressure:
10,000

PA-Series
Air Hydraulic Pumps

Reservoir:
36 - 80 In³

Flow:
8 In³/Min.

Maximum Pressure:
10,000 PSI

PAM-Series
Air Hydraulic Pumps

Reservoir:
1 - 2 Gallons

Flow:
9 In³/Min.

Maximum Pressure:
10,000 PSI

ATP-Series
Air Pump

Reservoir:
1 Gallon

Flow:
4 In³/Min.

Maximum Pressure:
21,750 PSI
ZG5-Series / ZG6-Series
Gasoline Hydraulic Pumps

Reservoir: 2.5 - 10 Gallons
Flow: 100 - 200 In³/Min.
Engine Size: 7.1, 8.5 and 17.0 Ft.Lbs
Maximum Pressure: 10,000 PSI

PGM-Series
Atlas Gasoline Pumps

Reservoir: 1 Gallon
Flow: 40 In³/Min.
Motor Size: 4.2 Ft.Lbs.
Maximum Pressure: 10,000 PSI

8000-Series
Gasoline Pumps

Reservoir: 25 gallons
Flow: 1.5 Gal/Min.
Motor Size: 18 HP
Maximum Pressure: 10,000 PSI

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**WARNING**
SEE WARNING INFORMATION ON PAGES 638 - 643.

**ENERPAC**

**V-Series Flow & Pressure Control Valves**

Maximum Pressure: 10,000 PSI

**V-Series 3-Way Directional Manual Control Valves**

Maximum Pressure: 0 - 10,000 PSI
Flow Max.: 1040 In³/Min.

**VC-Series / VE-Series / VM-Series 4-Way Directional Control Valves**

Flow Capacity: Max. 4 Gal/Min.
Maximum Pressure: 10,000 PSI
WARNING SEE WARNING INFORMATION ON PAGES 638 - 643.

700-Series / 900-Series
High Pressure Hydraulic Hoses

Inside Diameter:
.25 - .38 Inch

Length:
2 - 50 Feet

Maximum Pressure:
10,000 PSI

A-Series / C-Series / F-Series Hydraulic Couplers

Max. Flow:
2,500 In³/Min.

Thread:
1/4” and 3/8” NPTF

Maximum Pressure:
10,000 PSI

HF-Series / LX-Series
Hydraulic Oil

Contents:
1 Quart - 55 Gallons

A-Series Manifolds

Connection:
6 and 7 Oil Ports

Oil Ports:
3/8” NPTF

Maximum Pressure:
10,000 PSI

AM-Series
Split-Flow Manifolds

Ports:
2 - 4

Maximum Pressure:
10,000 PSI

FZ-Series
High-Pressure Fittings

Thread:
1/4, 1/2 and 3/8” NPTF

Maximum Pressure:
21,750 PSI
GF-Series / GP-Series
Hydraulic Force & Pressure Gauges

Pressure Range:
0 - 15,000 PSI

Face Diameter:
4 Inch

Accuracy:
± 1%

G-Series / H-Series
Hydraulic Pressure Gauges

Pressure Range:
0 - 15,000 PSI

Face Diameter:
2.5 - 4 Inches

Accuracy:
± 1 - 1.5%

T-Series
Test System Gauges

Pressure Range:
0 - 50,000 PSI

Face Diameter:
6.4 Inches

Accuracy:
± 0.5 - 1.5%

WARNING
SEE WARNING INFORMATION
ON PAGES 638 - 643.

ENERPAC

DGR-Series Digital
Hydraulic Pressure Gauge

Pressure Range:
0 - 20,000 PSI

Voltage:
3 VDC (Battery)

Accuracy:
± 0.25%

GA-Series / NV-Series / V-Series Gauge Accessories

Operating Pressure:
10,000 PSI

CT604 Safety Tool
Coupler Bleed Tool

Operating Pressure:
10,000 PSI

J Henry Holland
Phone: 757-460-3300
www.jhenryholland.com

Alabama Sling Center
Phone: 205-744-0230
www.alabamaslingcenter.com

Tennessee Sling Center
Phone: 901-345-8918 (Memphis)
Phone: 423-634-9005 (Chattanooga)
www.tennesseeslingcenter.com

KCI Crane Service
Phone: 205-345-4701
www.kcicraneservice.com
WARNING SEE WARNING INFORMATION ON PAGES 638 - 643.

IP-Series
H-Frame Presses

Capacity: 10 - 200 Tons

Max. Daylight & Width: 54.5 - 48 Inches

Max. Pressure: 10,000 PSI

IPR-Series
Roll Frame Presses

Capacity: 50 - 200 Tons

Max. Daylight & Width: 51 & 48 Inches

Max. Pressure: 10,000 PSI

A-Series / IP-Series
Arbor, C-Clamp & Bench Frame Presses

Capacity: 25 Gallons

Max. Daylight & Width: 15.38 and 15 Inches

Mounting Capabilities: Fixed or Portable

Maximum Pressure: 10,000 PSI

VLP-Series / XLP-Series / BPR-Series Press Accessories

Capacity: 10 - 200 Tons

TM-Series / LH-Series
Tension Meter & Load Cells

Capacity: 2,000 - 200,000 Lbs.

Accuracy: ± 2%
BHP-Series Master Puller Sets

Capacity:
8, 20, 30 and 50 Tons

BHP-Series Grip Puller Sets

Capacity:
8, 20, 30 and 50 Tons

Max. Reach:
9.92 - 27.56 Inches

Max. Spread:
9.84 - 43.30 Inches

Max. Pressure:
10,000 PSI

BHP-Series Cross Bearing Puller Sets

Capacity:
8, 20, 30 and 50 Tons

Max. Reach:
14.0 - 34.00 Inches

Max. Spread:
10.50 - 22.46 Inches

Max. Pressure:
10,000 PSI

BHP-Series Bearing Cup Puller

Capacity:
8, 20, 30 and 50 Tons

Max. Reach:
4.33 - 5.71 Inches

Max. Spread:
4.33 - 14.17 Inches

Max. Pressure:
10,000 PSI

BHP-Series Bearing Puller

Capacity:
8, 20, 30 and 50 Tons

Max. Reach:
4.33 - 5.71 Inches

Max. Spread:
4.33 - 14.17 Inches

Max. Pressure:
10,000 PSI

EP-Series Posi Lock® Mechanical Pullers

Capacity:
2 - 40 Tons

Max. Reach:
4 - 14 Inches

Max. Spread:
0.5 - 25 Inches

WARNING

SEE WARNING INFORMATION
ON PAGES 638 - 643.
EPH-Series
Posi Lock® Hydraulic Grip Pullers

Capacity:
10 - 50 Tons

Max. Reach:
8 - 14 Inches

Max. Spread:
0.75 - 25 Inches

Max. Pressure:
10,000 PSI

EPH-Series Posi Lock® 100 Ton Hydraulic Grip Pullers

Capacity:
100 Tons

Max. Reach:
48 Inches

Max. Spread:
70 Inches

Max. Pressure:
10,000 PSI

SP-Series Lightweight Hydraulic Punch

Capacity:
35 Tons

Hole Sizes:
0.31 - 0.81 Inches

Max. Pressure:
10,000 PSI

SP-Series
50 Ton Hydraulic Punch

Capacity:
50 Tons

Hole Sizes:
0.53 - 1.03 Inches

Max. Pressure:
10,000 PSI

LW-Series
Vertical Lifting Wedge

Min. Clearance:
.39 Inches

Max. Lift Height:
2.72 Inches

Max. Force:
16 Tons

Max. Pressure:
10,000 PSI

WARNING
SEE WARNING INFORMATION ON PAGES 638 - 643.
SOH-Series
Hydraulic Machine Lifts

Lifting Capacity:
8.5 - 20 Tons

Stroke:
5.39 - 6.18 Inches

Toe Clearance:
0.79 - 1.18 Inches

Max. Pressure:
10,000 PSI

ELP-Series / ER-Series / ES-Series Heavy-Duty Caterroller Load Skates

Max. Carrying Capacity:
80 Tons

CM-Series
Industrial Storage Cases

Case Size:
.67 - 16 Cubic Ft.

WARNING
SEE WARNING INFORMATION ON PAGES 638 - 643.

WR-Series / A-Series
Hydraulic Wedgie & Spread Cylinders

Capacity:
0.75 - 1 Ton

Tip Clearance:
0.5 - 1.38 Inches

Max. Spread:
3.7 - 11.5 Inches

Max. Pressure:
10,000 PSI

WHC-Series / WHR-Series
Hydraulic Cutterheads

Capacity:
3 - 20 Tons

Cutting Capacity:
0.5 - 4 Inches

Max. Pressure:
10,000 PSI

WMC-Series Self-Contained Hydraulic Cutters

Capacity:
3 - 20 Tons

Max. Material Diameter:
0.38 - 3.38 Inches

Max. Pressure:
10,000 PSI
STB-Series
Pipe Bender Sets
Nominal Pipe Size:
0.5 - 4 Inches
Max. Bend Angle:
90°
Max. Pressure:
10,000 PSI

PS-Series
PocketShear®
Strand Capacity:
0.5 - 0.6 Inch
Powered:
Hydraulic and Battery
Max. Operating Pressure:
3,000 PSI

DA-Series / PTJ-Series
Mono-Strand Stressing Tools
Capacity:
20 - 30 Tons
Stroke:
8.5 - 10 Inches
Strand Diameters:
.375 - .6 Inch
Max. Pressure:
6,500 - 10,000 PSI

E-Series Manual
Torque Multipliers
Max. Output:
750 - 8,000 Ft.Lbs.
Torque Ratio:
3:1 - 52:1
Accuracy:
± 5%

S-Series Square Drive
Torque Wrenches
Max. Torque:
25,140 Ft.Lbs
Square Drive:
3/4 – 2-1/2 Inches
Nose Radius:
.99 - 2.5 Inches
Max. Pressure:
10,000 PSI
**W-Series Low Profile Hexagon Wrenches**

Max. Torque: 35,000 Ft.Lbs

Hexagon Range: 1-1/8 - 6-1/8 Inches

Nose Radius: 1.22 - 4.52 inches

Max. Pressure: 10,000 PSI

---

**SQD-Series Square Drive Wrenches**

Max. Torque: 19,875 Ft.lbs

Square Drive Range: 3/4 - 2-1/2 inches

Max. Pressure: 11,600 PSI

---

**HXD-Series Hexagon Cassette Wrenches**

Max. Torque: 17,860 Ft.Lbs

Hexagon Range: 1-1/4 - 5 Inches

Nose Radius: 1.12 - 3.78 inches

Max. Pressure: 11,600 PSI

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**GT-Series Hydraulic Bolt Tensioners**

Bolt Range: 5/8 - 3-3/4” M16-M95

Load: 0 - 319.8 Tons

Max. Pressure: 21,750 PSI

---

**BSH-Series Metric & Inch Sockets**

Square Drive: 3/4 - 1 - 1-1/2 - 2-1/2 Inches

Hexagon Size: 16 - 255 MM

Hexagon Size: 3/4 - 10 Inches

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**THC-Series / THQ-Series Torque Wrench Hoses**

Lengths: 19.5 - 39 Ft.

Max. Pressure: 10,000 - 11,600 PSI

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**WARNING**  SEE WARNING INFORMATION ON PAGES 638 - 643.
WARNING
SEE WARNING INFORMATION ON PAGES 638 - 643.

HT-Series / B-Series
Accessories for Bolt Tensioners & Pumps

Max. Pressure:
21,750 PSI

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FF-Series Mechanical Flange Face Tool

Max. Cutting Diameter:
12 Inches

Flange Size Range:
1 - 12 Inches

Flange Pipe Diameter:
1 - 6 Inches

-----

ATM-Series
Flange Alignment Tools

Bolt Hole Range:
11/16 - 2-1/8 Inches

Flange Wall Thickness:
11/16 - 8 Inches

Max. Force:
0.3 - 5.5 Tons

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NS-Series Hydraulic Nut Splitters

Capacity:
103.2 - 192.5 Tons

Hexagon Nut Range:
2.75 - 5.38 Inches

Max. Pressure:
10,000 PSI

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NC-Series Hydraulic Nut Cutters

Capacity:
5 - 90 Tons

Hexagon Nut Range:
0.5 - 2.88 Inches

Max. Pressure:
10,000 PSI

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FSH-Series / FSM-Series,
Industrial Spreaders

Tip Clearance / Max. Spread:
0.24 - 3.16 Inches

Max. Spread Force:
8 - 14 Tons

Max. Pressure:
10,000 PSI

-----

Mazzella Lifting Technologies
Phone: 800-362-4601
www.mazzellalifting.com

Progressive Crane
Phone: 800-83-CRANE
www.progressivecrane.com

Mazzella Crane Service
Phone: 877-96-CRANE
www.mazzellacraneservice.com

Indusco Wire Rope & Supplies
Phone: 410-727-0665
www.induscowire.com
FS-Series Pin Type Hydraulic Flange Spreaders

Capacity: 5 - 10 Tons

Max. Pressure: 10,000 PSI

WR-Series / A-Series Hydraulic Wedgie & Spread Cylinders

Capacity: 0.75 - 1 Ton

Tip Clearance: 0.5 - 1.38 Inches

Max. Spread: 3.7 - 11.5 Inches

Max. Pressure: 10,000 PSI

PMU-Series Portable Electric Torque Wrench Pumps

Reservoir: 0.5 - 1 Gallon

Flow: 20 In³/Min.

Motor: 0.5 HP

Max. Pressure: 10,000 and 11,600 PSI

ZU4-Series Electric Torque Wrench Pumps

Reservoir Capacity: 1 and 1.75 Gallon

Flow: 60 In³/Min.

Motor Size: 1.7 HP

Max. Pressure: 10,000 and 11,600 PSI

TQ-700 Lightweight Electric Torque Wrench Pump

Reservoir: 4 Litres

Max. Pressure: 700 Bar
ZE-Series Electric Torque Wrench Pumps

Reservoir: 1 - 10 Gallons

Flow: 60 - 120 In³/Min.

Motor Size: 1.5 - 3.0 HP

Max. Pressure: 10,000 and 11,600 PSI

PTA-Series Compact Pneumatic Torque Wrench Pump

Reservoir: 1 Gallon

Flow: 20 In³/Min.

Max. Pressure: 10,000 and 11,600 PSI

ZA4T-Series Air Driven Torque Wrench Pumps

Reservoir: 1 and 1.75 Gallon

Flow at 10,000 psi: 60 In³/Min.

Max. Pressure: 10,000 and 11,600 PSI

ZUTP-Series Electric Tensioning Pumps

Reservoir: 1 gallon

Flow: 8.0 - 20 In³/Min.

Max. Pressure: 21,750 PSI

ATP-Series Air Pump

Reservoir: 1 Gallon

Flow: 4 In³/Min

Max. Pressure: 21,750 PSI

HPT-Series Tensioning Hand Pump

Reservoir: 155 In³

Flow: .037 - .99 In³/Stroke

Max. Pressure: 21,750 PSI
Hydraulic Products
Hydraulics

Product Warnings
PowerTeam Hydraulics
General Warnings

It is the operator's responsibility to read and understand the following safety statements,

■ Only qualified operators should install, operate, adjust, maintain, clean, repair, or transport this machinery.

■ These components are designed for general use in normal environments. These components are not specifically designed for lifting and moving people, agri-food machinery, certain types of mobile machinery or special work environments, such as: explosive, flammable or corrosive. Only the user can decide the suitability of this machinery in these conditions or extreme environments. Power Team will supply information necessary to help make these decisions.

⚠️ WARNING

For complete warning and application information, see SPX Corporation / Power Team at www.spx.com/en/power-team/
Simplex Hydraulics Safety Tips

1. Choose The Right Ram.
   You must know the weight of what you intend to lift and choose a ram with at least 20% more capacity. Be aware of possible load shift requiring more capacity at any particular lifting point.

2. Inspect All System Components.
   Check each component before you set up your hydraulic system. Do not use damaged or worn components. Turn them in for repair or replacement.

3. Safety Instructions.
   Read all warning labels and instructions. Operating instructions must be understood before using equipment. Never remove labels from equipment. Replace missing, worn, or damaged labels. Always wear safety goggles and protective clothing when using hydraulic equipment.

4. Each Jack Or Ram Must Be Fully Supported At The Base.
   Every jack or ram, whether used individually or in a system, should be completely supported on a solid, firm, non-sliding foundation capable of supporting the load.

5. Fill Oil Reservoirs With Cylinder Retracted.
   Only fill pump to recommended level, and fill only when connected cylinder is fully retracted.

   Do not use extensions or cheater bars on hydraulic jacks or hand pumps to raise a load.

7. Center The Load On The Lifting Point.
   The load must be centered on the ram, or equally distributed on multiple rams. Off center loading can result in the ram slipping out and loss of the load.

8. When Using Multiple Rams, Distribute The Load Evenly.
   For multiple ram lifts, you must be able to determine the location and number of lifting points that will allow the load to be evenly distributed to all the rams. Size, center of gravity, and load geometry must be considered in order to correctly determine load balance.

For complete safety information, see TK Simplex at www.tksimplex.com
Simplex Hydraulics Safety Tips (Continued)

9. Block Or Crib Your Load As It Raises.

Place blocking or cribbing under the loads as you raise it. Each time you raise it higher, insert more blocking. Position yourself in a manner that will keep you clear of the load, and will not allow your hands or other body parts between the load and the cribbing.

10. Do Not Use Rams As Permanent Supports.

Hydraulic rams are not meant to be used as permanent supports, but are designed to lift and lower. If you need to hold the load for any length of time, cribbing or Simplex locknut cylinders should be used.

11. Hydraulic Connections.

When making connections with quick couplers, make sure the couplings are fully engaged. Threaded connections such as fittings, gauges, etc. must be securely tightened and leak free. Never use excessive tightening force that may distort the fittings or strip the thread profile.


Weld splatter will damage plunger rods and hoses. Hydraulic fluid can ignite if vaporized or exposed to high temperatures.


Never attempt to disconnect hydraulic hoses, fittings or couplers under pressure. Unload the ram, open the release screw on the hand pump and shift or open all hydraulic controls several times. If system includes a gauge, double check the gauge to insure pressure has been completely released.

14. Do Not Carry Or Drag Pumps And Rams By Their Hoses.

Dragging or carrying rams or pumps by a connected hose can damage the couplers and hoses. Using damaged couplers and hoses can be dangerous.


Do not drop sharp or heavy objects on hose. Keep hose out of heavy traffic areas. This will cause internal damage to hose wire strands. Applying pressure to a damaged hose may cause it to rupture. Avoid sharp bends and kinks when routing hydraulic hoses.

For complete safety information, see TK Simplex at www.tksimplex.com
Enerpac Hydraulics
Safety Instructions

When used correctly, hydraulic power is one of the safest methods of applying force to your work. To that end we offer some DO's and DON'Ts, simple common sense points which apply to practically all Enerpac hydraulic products.

The illustrations 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 cannot 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 specific safety information and instructions. Please read them carefully.

For complete safety information, see Enerpac at www.enerpac.com

Cylinders

- Provide a level and solid support for the entire jack base area.
- Never place any part of your body under the load. Ensure the load is on a solid support before venturing under.
- Provide a solid support for the entire cylinder base area. Use cylinder base attachment for more stability.
- Do not use cylinder without saddle. This will cause plunger to "mushroom". Saddles distribute load evenly on the plunger.
- Always protect cylinder threads for use with attachments.
- The entire jack saddle must be in contact with the load. Movement of the load must be in the same direction as jack plunger.
- Remove the jack handle when it is not being used.
- The entire cylinder saddle must be in contact with the load. Movement of the cylinder must be parallel with the movement of the load.
- As with jacks, never place any part of your body under the load. Load must be on cribbing before venturing under.
- Keep hydraulic equipment away from open fire and temperatures above 150 °F (65 °C).
Enerpac Hydraulics
Safety Instructions (Continued)

General

80% Manufacturer's rating of load and stroke are maximum safe limits. Good practice encourages using only 80% of these ratings!

Always read instructions and safety warnings that come with your Enerpac hydraulic equipment.

Don’t use handle extenders. Hand pumps should be easy to operate when used correctly.

Fill pump only to recommended level. Fill only when connected cylinder is fully retracted.

Pumps

Close release valve finger tight. Using force will ruin the valve.

Use only genuine Enerpac hydraulic oil. The wrong fluid can destroy your seals and pump and will render your warranty null and void.

Hoses and couplers

Don’t overtight the factory setting of relief valves. Always use a gauge to check system pressure.

Detach cylinder only when fully retracted or use shut-off valves or safety valves to lock-in cylinder pressure.

Don’t kink hoses. Bending radius should be at least 4½ inch. Don’t drive over or drop heavy objects on hoses.

Never allow the cylinder to be lifted off of the ground through the couplers.

Clean both coupler parts before connecting. Use dust caps when coupler parts are not connected.

Keep hoses away from the area beneath loads.

Don’t lift hydraulic equipment by the hoses.

For complete safety information, see Enerpac at www.enerpac.com