

RIGGING SOLUTIONS

A DIVISION OF INDUSTRIAL MOTOR REPAIR LLC • ALTON, IL



PRODUCT & SERVICES LINE CARD

SLINGS: CHAIN, WEB, POLYESTER ROUND, WIRE ROPE

In stock and custom made-to-order

FABRICATE CUSTOM & REPAIR CHAIN & WIRE ROPE SLINGS

HOISTS NEW AND REPAIR: MANUAL / ELECTRIC / AIR

RIGGING INSPECTIONS* ONSITE TRAINING, ONSITE and IN-SHOP LOAD TESTING

WE SERVICE EVERYTHING WE SELL

BLOCKS

CRANE
DERRICK
SNATCH

CABLE CLAMPS

DROP FORGED

CARGO CONTROL

TIE-DOWN ASSEMBLIES
CHAIN BINDERS
LEVER RATCHETS

CHAIN

ALLOY-GRADE 100
ANCHOR
BOOMER
HI-TEST
PROOF COIL
TRANSPORT

CUSTOM BELOW HOOK

LIFTING DEVICES

FALL PROTECTION

FRENCH CREEK

HOISTS

MANUAL
AIR
ELECTRIC

HOOKS

LINKS

ALLOY OBLONG
PEAR SHAPE

PENDANTS & REMOTES

SHACKLES

ALLOY
CARBON
LIFTING
ROUND PIN
SAFETY BOLT ANCHOR SHACKLES
SCREW PIN
TOWING TRAWLING
WIDE BODY

SHEAVES SLINGS

CHAIN
FIBER
SYNTHETIC
WEB
POLYESTER ROUND
SYNTHETIC ROUND
WIRE ROPE

SYNTHETIC ROPE

DOUBLE BRAIDED CORDAGE
HMPE-HIGH TENSILE
FIBER
MOORING ROPES & TAILS
NYLON
POLYESTER
POLYPROPYLENE
TRIPLE STRANDED

SWIVELS

BALL BEARING
EYE & EYE JAW END

THIMBLES

CRESCENT
EQUALIZING
FIBER ROPE
HAWSER
HEAVY DUTY
REGULAR
SLIP-ON
SLIPTHRU
SOLID
STAINLESS

TURNBUCKLES

GALVANIZED
STAINLESS STEEL

WIRE ROPE

DOMESTIC & IMPORT

GOLD STRAND
CABLE-LAID
DRILL LINE
GALVANIZED
MOORING LINE
PERIMETER ROPE
ROTATION RESISTANT
SAND LINE
STAINLESS STEEL
WELL MEASURING LINE CRANE

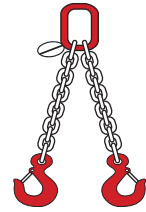


CONTACT US

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RIGGING SOLUTIONS

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CERTIFIED RIGGING INSPECTION & REPAIR SERVICE

Rigging Solutions's certified inspectors are available to inspect your wire rope, fittings, alloy chain and synthetics and we repair all rigging gear, including in-house, welded chain repair. This service can be done on your site or at our facility; many companies send their equipment to us for inspection, repair, load test and certification.

HOIST INSPECTION, REPAIR & CERTIFICATION

We can inspect, repair, load test and certify your hoists (air, electric or hand) and come-alongs up to 20 ton capacity. We can do this on your site (using our mobile tester) or at our Alton location.

Our technicians have been trained and certified by the hoist manufacturer schools. Rigging Solutions can perform a complete teardown of each unit, inspect it for defects, quote repair costs, repair the unit, load test and certify the unit to current industry standards and requirements. We apply a sticker to each unit stating the inspection date and technician ID. We then issue a load test certificate for each unit including the manufacturer's serial number and your unique unit number, if applicable.

If you have a few units, we can provide this service in a timely, accurate and cost effective manner.

SAFETY & TRAINING SEMINARS

Rigging Solutions conducts seminars for Material Handling and for companies in aerospace, construction, energy, manufacturing, mining and railroad industries. Many companies small and large have us provide this training for their employees.

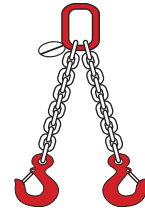
Material Handling Seminar addresses: wire rope, sling hitches, web slings, wire rope slings, chain, cable clamps and safe working loads.

Testing conducted at the end of each seminar and a Certificate of Completion is issued for each participant successfully completing the course.

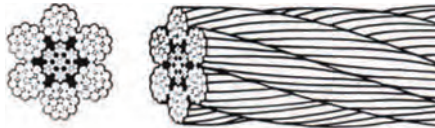
OUR GOAL IS TO KEEP YOUR EMPLOYEES SAFE

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6 x 19 CLASSIFICATION HOISTING ROPE



6 x 19 Classification Wire Ropes provide an excellent balance between fatigue and wear resistance. They will give long service with sheaves and drums of moderate size.

The 6 x 25 Filler Wire (FW) rope is the most flexible rope in the 6 x 19 classification. It is the most widely used of all wire ropes.

| Rope Diameter Inches | *Breaking Strength in Tons of 2,000 Lb (Bright & Amgal) | | | | Approx Wt/Ft in Lb |
|----------------------|---|----------|----------|----------------|--------------------|
| | EEIP IWRC | EIP IWRC | IPS IWRC | IPS Fiber Core | |
| 1/4 | | 3.40 | 2.94 | 2.74 | .116 |
| 5/16 | | 5.27 | 4.58 | 4.26 | .18 |
| 3/8 | | 7.55 | 6.56 | 6.10 | .26 |
| 7/16 | 11.2 | 10.2 | 8.80 | 8.27 | .35 |
| 1/2 | 14.6 | 13.3 | 11.5 | 10.7 | .46 |
| 9/16 | 18.5 | 16.8 | 14.5 | 13.5 | .59 |
| 5/8 | 22.7 | 20.6 | 17.9 | 16.7 | .72 |
| 3/4 | 32.3 | 29.4 | 25.6 | 23.8 | 1.07 |
| 7/8 | 43.8 | 39.8 | 34.6 | 32.2 | 1.47 |
| 1 | 57.5 | 51.7 | 44.9 | 41.8 | 1.91 |
| 1-1/8 | 71.5 | 65.0 | 56.5 | 52.6 | 2.42 |
| 1-1/4 | 87.9 | 79.9 | 69.4 | 64.6 | 2.98 |
| 1-3/8 | 106. | 96.0 | 83.5 | 77.7 | 3.61 |
| 1-1/2 | 125. | 114. | 98.9 | 92.0 | 4.30 |
| 1-5/8 | 145. | 132. | 115. | 107. | 5.04 |
| 1-3/4 | 168. | 153. | 133. | 124. | 5.85 |

6 x 37 CLASSIFICATION HOISTING ROPE



6 x 37 Classification Wire Ropes have a third layer of wires which makes them more flexible, although less abrasion-resistant, than ropes of the 6 x 19 classification. Each strand contains numerous, comparatively small-diameter wires. As the number of wires in each strand is increased, flexibility is increased. Conversely, as wires per strand decrease, flexibility is decreased.

| Rope Diameter Inches | *Breaking Strength in Tons of 2,000 Lb (Bright & Amgal) | | | | Approx Wt/Ft in Lb |
|----------------------|---|-------------|----------|----------------|--------------------|
| | EEIP IWRC | EIP AA IWRC | IPS IWRC | IPS Fiber Core | |
| 1/4 | | 3.40 | 2.94 | 2.74 | .116 |
| 9/16 | | 5.27 | 4.58 | 4.26 | .180 |
| 3/8 | | 7.55 | 6.56 | 6.10 | .280 |
| 7/16 | | 10.2 | 8.89 | 8.27 | .35 |
| 1/2 | 14.6 | 13.3 | 11.5 | 10.7 | .46 |
| 9/16 | 18.5 | 16.8 | 14.5 | 13.5 | .59 |
| 5/8 | 22.7 | 20.6 | 17.9 | 16.7 | .72 |
| 3/4 | 32.3 | 29.4 | 25.6 | 23.8 | 1.07 |
| 7/8 | 43.8 | 39.8 | 34.6 | 32.2 | 1.47 |
| 1 | 57.5 | 51.7 | 44.9 | 41.8 | 1.91 |
| 1-1/8 | 71.5 | 65.0 | 56.5 | 52.6 | 2.42 |
| 1-1/4 | 87.9 | 79.9 | 69.4 | 64.6 | 2.98 |
| 1-3/8 | 106. | 96.0 | 83.5 | 77.7 | 3.61 |
| 1-1/2 | 125. | 114. | 98.9 | 92.0 | 4.30 |
| 1-5/8 | 145. | 132. | 115. | 107. | 5.04 |
| 1-3/4 | 168. | 153. | 133. | 124. | 5.85 |
| 1-7/8 | 191. | 174. | 152. | 141. | 6.71 |
| 2 | 218. | 198. | 172. | 160. | 7.63 |

19 x 7 ROTATION RESISTANT HOISTING ROPE



19 x 7 Rotation Resistant Wire Ropes are used for hoisting unguided loads with a single part of rope. Typical applications are hoisting ropes on derricks, boom cranes, shaft sinking hoists and freely suspended mine hoists.

| Rope Diameter Inches | * Breaking Strength in T (2,000 Lb) ** | | Approx Wt/Ft in Lb |
|----------------------|--|------|--------------------|
| | EIP | IPS | |
| 1/2 | 10.8 | 9.85 | 0.45 |
| 5/16 | 13.6 | 12.4 | 0.58 |
| 5/8 | 16.8 | 15.3 | 0.71 |
| 3/4 | 24.0 | 21.8 | 1.02 |
| 7/8 | 32.5 | 29.5 | 1.39 |

| Rope Diameter Inches | * Breaking Strength in T (2,000 Lb) ** | | Approx Wt/Ft in Lb |
|----------------------|--|------|--------------------|
| | EIP | IPS | |
| 1 | 42.2 | 38.3 | 1.82 |
| 1-1/8 | 53.1 | 48.2 | 2.30 |
| 1-1/4 | 65.1 | 59.2 | 2.84 |
| 1-3/8 | 78.4 | 71.3 | 3.43 |
| 1-1/2 | 92.8 | 84.4 | 4.08 |

8 x 19 ROTATION RESISTANT ROPE



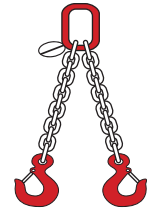
8 x 19 Rotation Resistant Wire Ropes are used for hoisting unguided loads with a single part of rope on installations where 19 x 7 Rotation Resistant ropes will not perform satisfactorily. These ropes are more resistant to drum overwinding and crushing than 19 x 7 ropes.

| Rope Diameter Inches | * Breaking Strength in T (2,000 Lb) ** | | Approx Wt/Ft in Lb |
|----------------------|--|------|--------------------|
| | EIP | IPS | |
| 1/2 | 11.7 | 10.2 | 0.47 |
| 5/16 | 14.7 | 12.8 | 0.6 |
| 5/8 | 18.1 | 15.7 | 0.73 |
| 3/4 | 25.9 | 22.6 | 1.06 |
| 7/8 | 32.0 | 30.5 | 1.44 |

| Rope Diameter Inches | * Breaking Strength in T (2,000 Lb) ** | | Approx Wt/Ft in Lb |
|----------------------|--|------|--------------------|
| | EIP | IPS | |
| 1 | 45.5 | 39.6 | 1.88 |
| 1-1/8 | 57.3 | 49.8 | 2.39 |
| 1-1/4 | 70.5 | 61.3 | 2.94 |
| 1-3/8 | 84.9 | 73.8 | 3.56 |
| 1-1/2 | 100.0 | 87.3 | 4.24 |

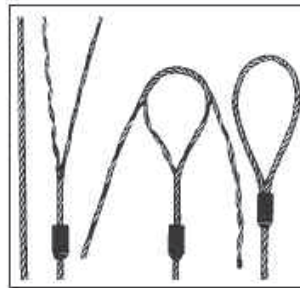
RIGGING SOLUTIONS

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Single Part Body Mechanical Splice #2 Wire Rope Slings

Eyes are formed using the flemish eye splice. Ends are secured by pressing a metal sleeve over the ends of the strands of the splice. Pull is directly along the centerline of rope and eye. Gives most efficient use of rope capacity and is economical.



Flemish Eye Splice

In the standard flemish eye splice, rope is separated into two parts - 3 adjacent strands, and adjacent strands and core. These two parts are then re-laid back in opposite directions to form an eye, and ends are secured with a pressed metal sleeve.

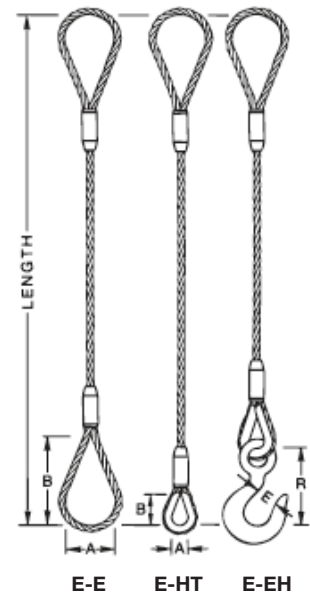


Swaging Provides Positive Grip

This cutaway of a metal sleeve swaged onto a splice shows how metal "flows" into valleys between strands to positively prevent ends from unlaying when sling is used within its rated capacity.

All capacities in tons of 2,000 lbs. All eye and fitting dimensions in inches.

| | RATED CAPACITY - Tons* | | | | | | | Eye | | Thimble | | Hook | | |
|-------------|------------------------|------------|------------------|--------------|-----|-----|-----|------------|----|---------|-------|------------|--------|----------|
| | Rope Dia. | Vert. EIPS | *** Choker Hitch | Basket Hitch | | | | Dimensions | | | | WLL** Tons | | |
| | | | | U | △ | △ | △ | A | B | A | B | | E | R |
| 6 x 19 IWRC | 1/4 | 0.65 | 0.48 | 1.3 | 1.1 | .91 | .65 | 2 | 4 | 7/8 | 1-5/8 | 3/4 | 15/16 | 3-7/32 |
| | 5/16 | 1.0 | 0.74 | 2.0 | 1.7 | 1.4 | 1.0 | 2-1/2 | 5 | 1-1/16 | 1-7/8 | 1 | 1-1/32 | 3-21/32 |
| | 3/8 | 1.4 | 1.1 | 2.9 | 2.5 | 2.0 | 1.4 | 3 | 6 | 1-1/8 | 2-1/8 | 1-1/2 | 1-1/16 | 4-3/32 |
| | 7/16 | 1.9 | 1.4 | 3.9 | 3.4 | 2.7 | 1.9 | 3-1/2 | 7 | 1-1/4 | 2-1/4 | 2 | 1-7/32 | 4-11/16 |
| | 1/2 | 2.5 | 1.9 | 5.1 | 4.4 | 3.6 | 2.5 | 4 | 8 | 1-1/2 | 2-3/4 | 3 | 1-1/2 | 5-3/4 |
| | 9/16 | 3.2 | 2.4 | 6.4 | 5.5 | 4.5 | 3.2 | 4-1/2 | 9 | 1-1/2 | 2-3/4 | 5 | 1-1/2 | 5-3/4 |
| | 5/8 | 3.9 | 2.9 | 7.8 | 6.8 | 5.5 | 3.9 | 5 | 10 | 1-3/4 | 3-1/4 | 5 | 1-7/8 | 7-3/8 |
| | 3/4 | 5/6 | 4.1 | 11 | 9.7 | 7.9 | 5.6 | 6 | 12 | 2 | 3-3/4 | 7-1/2 | 1-7/8 | 7-3/8 |
| | 7/8 | 7.6 | 5.6 | 15 | 13 | 11 | 7.6 | 7 | 14 | 2-1/4 | 4-1/4 | 10 | 2-1/4 | 9-1/16 |
| 6 x 37 IWRC | 1 | 9.8 | 7.2 | 20 | 17 | 14 | 9.8 | 8 | 19 | 2-1/2 | 4-1/2 | 10 | 2-1/2 | 10-1/16 |
| | 1-1/18 | 12 | 9.1 | 24 | 21 | 17 | 12 | 9 | 18 | 2-7/8 | 5-1/8 | 15 | 2-1/2 | 10-1/16 |
| | 1-1/4 | 15 | 11 | 30 | 26 | 21 | 15 | 10 | 20 | 2-7/8 | 5-1/8 | 15 | 3-3/8 | 12-1/2 |
| | 1-3/8 | 18 | 13 | 36 | 31 | 25 | 18 | 11 | 22 | 3-1/2 | 6-1/4 | 22 | 3-3/8 | 12-1/2 |
| | 1-1/2 | 21 | 16 | 42 | 37 | 30 | 21 | 12 | 24 | 3-1/2 | 6-1/4 | 22 | 3-3/8 | 12-1/2 |
| | 1-5/8 | 24 | 18 | 49 | 42 | 35 | 24 | 13 | 26 | 4 | 8 | 30 | 4 | 14-1/16 |
| | 1-3/4 | 28 | 21 | 57 | 49 | 40 | 28 | 14 | 28 | 4-1/2 | 9 | 30 | 4-1/4 | 18-5/16 |
| | 2 | 37 | 28 | 73 | 63 | 52 | 37 | 16 | 32 | 6 | 12 | 37 | 4-3/4 | 20-1/4 |
| | 2-1/4 | 44 | 35 | 89 | 77 | 63 | 44 | 18 | 36 | 7 | 14 | 45 | 5-3/4 | 23-23/32 |
| | 2-1/2 | 54 | 42 | 109 | 94 | 77 | 54 | 20 | 40 | — | — | — | — | — |
| | 2-3/4 | 65 | 51 | 130 | 113 | 92 | 65 | 2 | 44 | — | — | — | — | — |
| 3 | 77 | 60 | 153 | 133 | 108 | 77 | 24 | 48 | — | — | — | — | — | |
| 13-1/2 | 102 | 79 | 203 | 176 | 144 | 102 | 28 | 56 | — | — | — | — | — | |

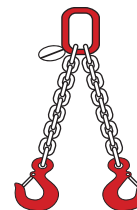


SAFETY LATCHES ARE AVAILABLE IF REQUIRED

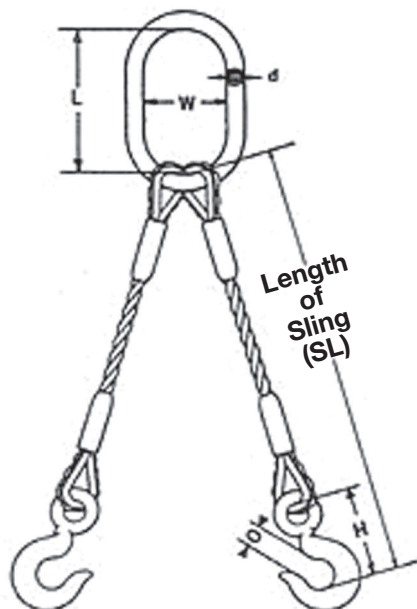
* Rated Capacities Basket Hitch based on D/d Ratio of 25. Rated Capacities based on pin diameter no larger than natural eye width or less than the normal sling diameter. Rated Capacities based on design factor of 5. Sling angles less than 30 degrees shall not be used.
 ** Working Load Limit *** See Choker Hitch Rated Capacity Adjustment.

RIGGING SOLUTIONS

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Single Part Body Mechanically Spliced Slings #9 2-Leg Bridle Slings



Rated capacity for two-legged bridles, whether used as chokers or with hooks or other end fixtures, is affected by rigging angles, the same as straight slings in basket hitches. Note reduction in rated capacity as legs spread to wider lifting connections.

| | | RATED CAPACITY Tons* | | | Alloy Oblong Link | | | Hook | | |
|--------------------|-------|-------------------------|------|------|-------------------|--------|-------|---------------|--------|---------|
| Rope Dia. | | | | | D | L | W | WLL** Tons | O | H |
| 6 x 19 IWRC EIP | 1/4 | 1.1 | 0.91 | 0.65 | 1/2 | 5 | 2 1/2 | 3/4 | 15/16 | 3 7/32 |
| | 5/16 | 1.7 | 1.4 | 1.0 | 1/2 | 5 | 2 1/2 | 1 | 1 1/32 | 3 21/32 |
| | 3/8 | 2.5 | 2.0 | 1.4 | 1/2 | 5 | 2 1/2 | 1 1/2 | 1 1/16 | 4 3/32 |
| | 7/16 | 3.4 | 2.7 | 1.9 | 3/4 | 5 1/2 | 2 3/4 | 2 | 1 7/32 | 4 11/16 |
| | 1/2 | 4.4 | 3.6 | 2.5 | 3/4 | 5 1/2 | 2 3/4 | 3 | 1 1/2 | 5 3/4 |
| | 9/16 | 5.5 | 4.5 | 3.2 | 1 | 7 | 3 1/2 | 3 | 1 1/2 | 5 3/4 |
| | 5/8 | 6.8 | 5.5 | 3.9 | 1 | 7 | 3 1/2 | 5 | 1 7/8 | 7 3/8 |
| 6 x 37 IWRC EIP | 3/4 | 9.7 | 7.9 | 5.6 | 1 | 7 | 3 1/2 | 5 | 1 7/8 | 7 3/8 |
| | 7/8 | 13 | 11 | 7.6 | 1 1/4 | 8 3/4 | 4 3/8 | 7 1/2 | 2 1/4 | 9 1/16 |
| | 1 | 17 | 14 | 9.8 | 1 1/2 | 8 3/4 | 4 3/8 | 10 | 2 1/2 | 10 1/16 |
| | 1 1/8 | 21 | 17 | 12 | 1 1/2 | 10 1/2 | 5 1/4 | 15 | 2 1/2 | 10 1/16 |
| | 1 1/4 | 26 | 21 | 15 | 1 3/4 | 12 | 6 | 15 | 3 3/8 | 12 1/2 |
| | 1 3/8 | 31 | 25 | 18 | 1 3/4 | 12 | 6 | 22 | 3 3/8 | 12 1/2 |
| | 1 1/2 | 37 | 30 | 21 | 2 | 14 | 7 | 22 | 3 3/8 | 12 1/2 |
| 6 x 37 IWRC EIP | 1 5/8 | 42 | 35 | 24 | 2 | 14 | 7 | 22 | 4 | 14 1/16 |
| | 1 3/4 | 49 | 40 | 28 | 2 1/4 | 16 | 8 | 30 | 4 1/4 | 18 5/16 |
| | 2 | 63 | 52 | 37 | 2 1/2 | 16 | 8 | 37 | 4 3/4 | 20 1/4 |

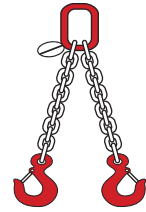
* Rated Capacities Basket Hitch based on D/d Ratio of 25. Rated Capacities based on pin diameter no larger than natural eye width or less than the normal sling diameter. Rated Capacities based on design factor of 5. Sling angles less than 30 degrees shall not be used.

** Working Load Limit

*** See Choker Hitch Rated Capacity Adjustment.

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Single Part Body Mechanically Spliced Slings

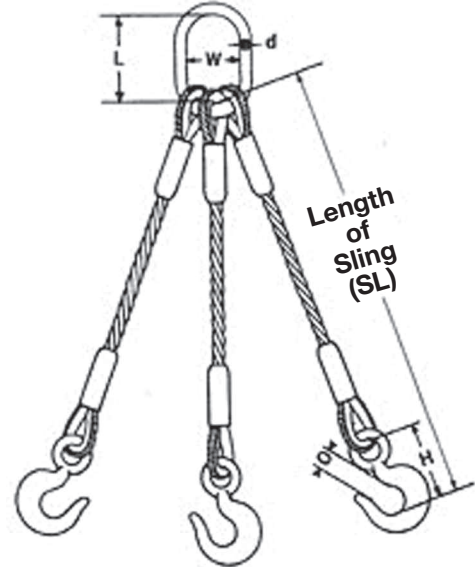
Multi-legged bridles - with two, three or four straight legs - are offered with plain eyes, thimble eyes, open or closed sockets, shackles and turnbuckles. If required, rings or alloy oblong links can be supplied rather than the pear shaped links shown.

Rated capacities for 3 & 4 leg bridle slings are based on equal leg slings with the sling angle being the smallest angle measure between any sling leg and the horizontal plane of the load. For other applications, consult our Fabricated Products Engineering Department.

| | RATED CAPACITY Tons* | | | Alloy Oblong Link | | | Hook | | | |
|--------------------|-------------------------|-----|-----|-------------------|-------|-------|-------|---------------|--------|---------|
| | Rope Dia. | 30° | 45° | 60° | D | L | W | WLL** Tons | O | H |
| 6 x 19 IWRC EIP | 1/4 | 1.7 | 1.4 | 0.97 | 3/4 | 5 1/2 | 2 3/4 | 3/4 | 15/16 | 3 7/32 |
| | 5/16 | 2.6 | 2.1 | 1.5 | 3/4 | 5 1/2 | 2 3/4 | 1 | 1 1/32 | 3 21/32 |
| | 3/8 | 3.7 | 3.0 | 2.2 | 1 | 7 | 3 1/2 | 1 1/2 | 1 1/16 | 4 3/32 |
| | 7/16 | 5.0 | 4.1 | 2.9 | 1 | 7 | 3 1/2 | 2 | 1 7/32 | 4 11/16 |
| | 1/2 | 6.6 | 5.4 | 3.8 | 1 | 7 | 3 1/2 | 3 | 1 1/2 | 5 3/4 |
| | 9/16 | 8.3 | 6.8 | 4.8 | 1 1/4 | 8 3/4 | 4 3/8 | 3 | 1 1/2 | 5 3/4 |
| | 5/8 | 10 | 8.3 | 5.9 | 1 1/4 | 8 3/4 | 4 3/8 | 5 | 1 7/8 | 7 3/8 |
| | 3/4 | 15 | 12 | 8.4 | 1 3/4 | 12 | 6 | 5 | 1 7/8 | 7 3/8 |
| | 7/8 | 20 | 16 | 11 | 1 3/4 | 12 | 6 | 7 1/2 | 2 1/4 | 9 1/16 |
| 6 x 37 IWRC EIP | 1 | 26 | 21 | 15 | 1 3/4 | 12 | 6 | 10 | 2 1/2 | 10 1/16 |
| | 1 1/8 | 31 | 26 | 18 | 2 | 14 | 7 | 15 | 2 1/2 | 10 1/16 |
| | 1 1/4 | 38 | 31 | 22 | 2 1/4 | 16 | 8 | 15 | 3 3/8 | 12 1/2 |
| | 1 3/8 | 46 | 38 | 27 | 2 3/4 | 16 | 9 | 22 | 3 3/8 | 12 1/2 |
| | 1 1/2 | 55 | 45 | 32 | 2 3/4 | 16 | 9 | 22 | 3 3/8 | 12 1/2 |
| | 1 5/8 | 63 | 52 | 37 | 2 3/4 | 16 | 9 | 22 | 4 | 14 1/16 |
| | 1 3/4 | 74 | 60 | 42 | 2 3/4 | 16 | 9 | 37 | 4 1/4 | 18 5/16 |

** Working Load Limit

#10 3-Leg Bridle Slings



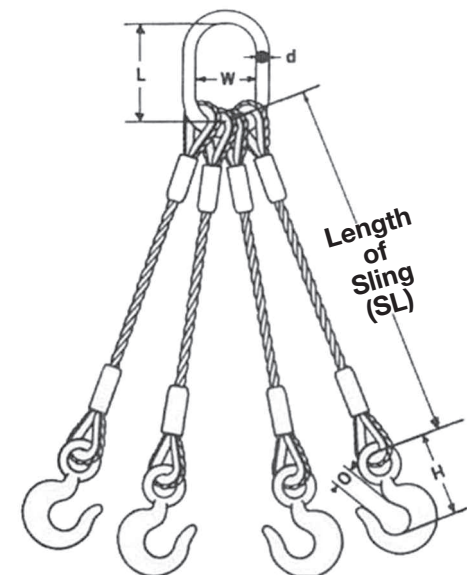
SAFETY LATCHES ARE AVAILABLE IF REQUIRED

All capacities in tons of 2,000 lbs. All eye and fitting dimensions in inches.

| | RATED CAPACITY Tons* | | | Alloy Oblong Link | | | Hook | | | |
|--------------------|-------------------------|-----|-----|-------------------|-------|--------|-------|---------------|--------|---------|
| | Rope Dia. | 30° | 45° | 60° | D | L | W | WLL** Tons | O | H |
| 6 x 19 IWRC EIP | 1/4 | 2.2 | 1.8 | 1.3 | 3/4 | 5 1/2 | 2 3/4 | 3/4 | 15/16 | 3 7/32 |
| | 5/16 | 3.5 | 2.8 | 2.0 | 3/4 | 5 1/2 | 2 3/4 | 1 | 1 1/32 | 3 21/32 |
| | 3/8 | 5.0 | 4.1 | 2.9 | 1 | 7 | 3 1/2 | 1 1/2 | 1 1/16 | 4 3/32 |
| | 7/16 | 6.7 | 5.5 | 3.9 | 1 | 7 | 3 1/2 | 2 | 1 7/32 | 4 11/16 |
| | 1/2 | 8.8 | 7.1 | 5.1 | 1 1/4 | 8 3/4 | 4 3/8 | 3 | 1 1/2 | 5 3/4 |
| | 9/16 | 11 | 9.0 | 6.4 | 1 1/2 | 10 1/2 | 5 1/4 | 3 | 1 1/2 | 5 3/4 |
| | 5/8 | 14 | 11 | 7.8 | 1 1/2 | 10 1/2 | 5 1/4 | 5 | 1 7/8 | 7 3/8 |
| | 3/4 | 19 | 16 | 11 | 1 3/4 | 12 | 6 | 5 | 1 7/8 | 7 3/8 |
| | 7/8 | 26 | 21 | 15 | 1 3/4 | 12 | 6 | 7 1/2 | 2 1/4 | 9 1/16 |
| 6 x 37 IWRC EIP | 1 | 34 | 28 | 20 | 2 | 14 | 7 | 10 | 2 1/2 | 10 1/16 |
| | 1 1/8 | 42 | 34 | 24 | 2 1/4 | 16 | 8 | 15 | 2 1/2 | 10 1/16 |
| | 1 1/4 | 51 | 42 | 30 | 2 3/4 | 16 | 8 | 15 | 3 3/8 | 12 1/2 |
| | 1 3/8 | 62 | 50 | 36 | 3 | 18 | 9 | 22 | 3 3/8 | 12 1/2 |
| | 1 1/2 | 73 | 60 | 42 | 3 | 18 | 9 | 22 | 3 3/8 | 12 1/2 |

** Working Load Limit

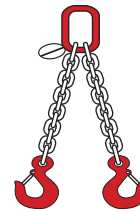
#11 4-Leg Bridle Slings



* Rated Capacities Basket Hitch based on D/d Ratio of 25. Rated Capacities based on pin diameter no larger than natural eye width or less than the normal sling diameter. Rated Capacities based on design factor of 5. Sling angles less than 30 degrees shall not be used.

RIGGING SOLUTIONS

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Braided Wire Rope Body Single Leg Slings

| Rope Dia. | Width of Body | Thickness of Body | RATED CAPACITY - Tons* | | | | | | | Eye | | Slip Thru Thimble ST | Heavy Thimble HT |
|-----------|---------------|-------------------|------------------------|----------------|--------------|-----|-----|-----|-----|-----|----|----------------------|------------------|
| | | | Vertical EIP | Choker Hitch** | Basket Hitch | | | | A | B | | | |
| | | | | | U | 30° | 45° | 60° | | | | | |
| IPS IWRC | #3/32 | 7/16 | 1/4 | — | — | — | — | — | — | 2 | 4 | W-2 | 1/4 |
| | #1/8 | 8/16 | 3/8 | — | — | — | — | — | — | 3 | 6 | W-2 | 5/16 |
| | 3/16 | 13/16 | 1/2 | 1.6 | 1.4 | 3.2 | 2.8 | 2.3 | 1.6 | 4 | 8 | W-3 | 1/2 |
| | 1/4 | 1 3/8 | 11/16 | 2.9 | 2.5 | 5.7 | 4.9 | 4.0 | 2.9 | 5 | 10 | W-4 | 5/8 |
| | 5/16 | 1 3/8 | 7/8 | 4.4 | 3.9 | 8.9 | 7.7 | 6.3 | 4.4 | 6 | 12 | W-4 | 3/4 |
| | 3/8 | 1 11/16 | 1 | 6.3 | 5.5 | 13 | 11 | 9.0 | 6.3 | 7 | 14 | W-5 | 7/8 |
| | 7/16 | 2 | 1 3/16 | 8.6 | 7.5 | 17 | 15 | 12 | 8.6 | 8 | 16 | W-5 | 1 |
| | 1/2 | 2 1/4 | 1 5/16 | 11 | 9.8 | 22 | 19 | 16 | 11 | 9 | 18 | W-6 | 1 1/8 |
| | 9/16 | 2 1/2 | 1 1/2 | 14 | 12 | 28 | 24 | 20 | 14 | 10 | 20 | W-6 | 1 3/8 |
| | 5/8 | 2 13/16 | 1 11/16 | 17 | 15 | 35 | 30 | 24 | 17 | 11 | 22 | W-7 | 1 1/2 |
| | 3/4 | 3 3/8 | 2 | 25 | 22 | 49 | 43 | 35 | 25 | 12 | 24 | W-8 | 1 5/8 |
| | 7/8 | 4 | 2 5/16 | 33 | 29 | 67 | 58 | 47 | 33 | 14 | 28 | W-9 | 2 |
| | 1 | 4 1/2 | 2 11/16 | 43 | 38 | 87 | 75 | 61 | 43 | 16 | 32 | W-10 | — |

Made with 7 x 19 GAC component rope.

* Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter. Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.

Rated Capacities based on design factor of 5.

Sling angles less than 30 degrees shall not be used.

** See Choker Hitch Rated Capacity Adjustment.

All capacities in tons of 2,000 lbs. All eye and fitting dimensions in inches.

6 PART

Flat Braid



| Rope Dia. | Sling Dia. | RATED CAPACITY - Tons* | | | | | | | Eye | | Slip Thru Thimble ST | Heavy Thimble HT |
|-----------|------------|------------------------|----------------|--------------|-----|-----|-----|-----|-----|----|----------------------|------------------|
| | | Vertical EIP | Choker Hitch** | Basket Hitch | | | | A | B | | | |
| | | | | U | 30° | 45° | 60° | | | | | |
| IPS IWRC | 1/8 | 9/16 | 1.1 | 1.0 | 2.2 | — | — | — | — | — | — | — |
| | 3/16 | 13/16 | 1.9 | 1.7 | 3.8 | 3.3 | 2.7 | 1.9 | 4 | 8 | W-3 | 1/2 |
| | 1/4 | 1 3/8 | 3.4 | 3.0 | 6.8 | 5.8 | 4.8 | 3.4 | 5 | 10 | W-4 | 3/4 |
| | 5/16 | 1 3/8 | 5.2 | 4.6 | 10 | 9.1 | 7.4 | 5.2 | 6 | 12 | W-5 | 1 |
| | 3/8 | 1 11/16 | 7.5 | 6.6 | 15 | 13 | 11 | 7.5 | 7 | 14 | W-5 | 1 1/8 |
| | 7/16 | 2 | 10 | 8.9 | 20 | 18 | 14 | 10 | 8 | 16 | W-6 | 1 1/4 |
| | 1/2 | 2 1/4 | 13 | 12 | 26 | 23 | 19 | 13 | 9 | 18 | W-7 | 1 3/8 |
| | 9/16 | 2 1/2 | 17 | 15 | 33 | 29 | 24 | 17 | 10 | 20 | W-7 | 1 1/2 |
| | 5/8 | 2 13/16 | 21 | 18 | 41 | 36 | 29 | 21 | 11 | 22 | W-8 | 1 3/4 |
| | 3/4 | 3 3/8 | 29 | 26 | 59 | 51 | 41 | 29 | 12 | 24 | W-9 | 2 |
| | 7/8 | 4 | 40 | 35 | 79 | 69 | 56 | 40 | 14 | 28 | W-10 | — |
| | 1 | 4 1/2 | 51 | 45 | 103 | 89 | 73 | 51 | 16 | 32 | W-10 | — |

Made with 7 x 19 GAC component rope.

* Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter. Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.

Rated Capacities based on design factor of 5.

Sling angles less than 30 degrees shall not be used.

** See Choker Hitch Rated Capacity Adjustment.

All capacities in tons of 2,000 lbs. All eye and fitting dimensions in inches.

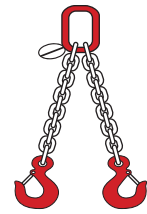
8 PART

Round Braid

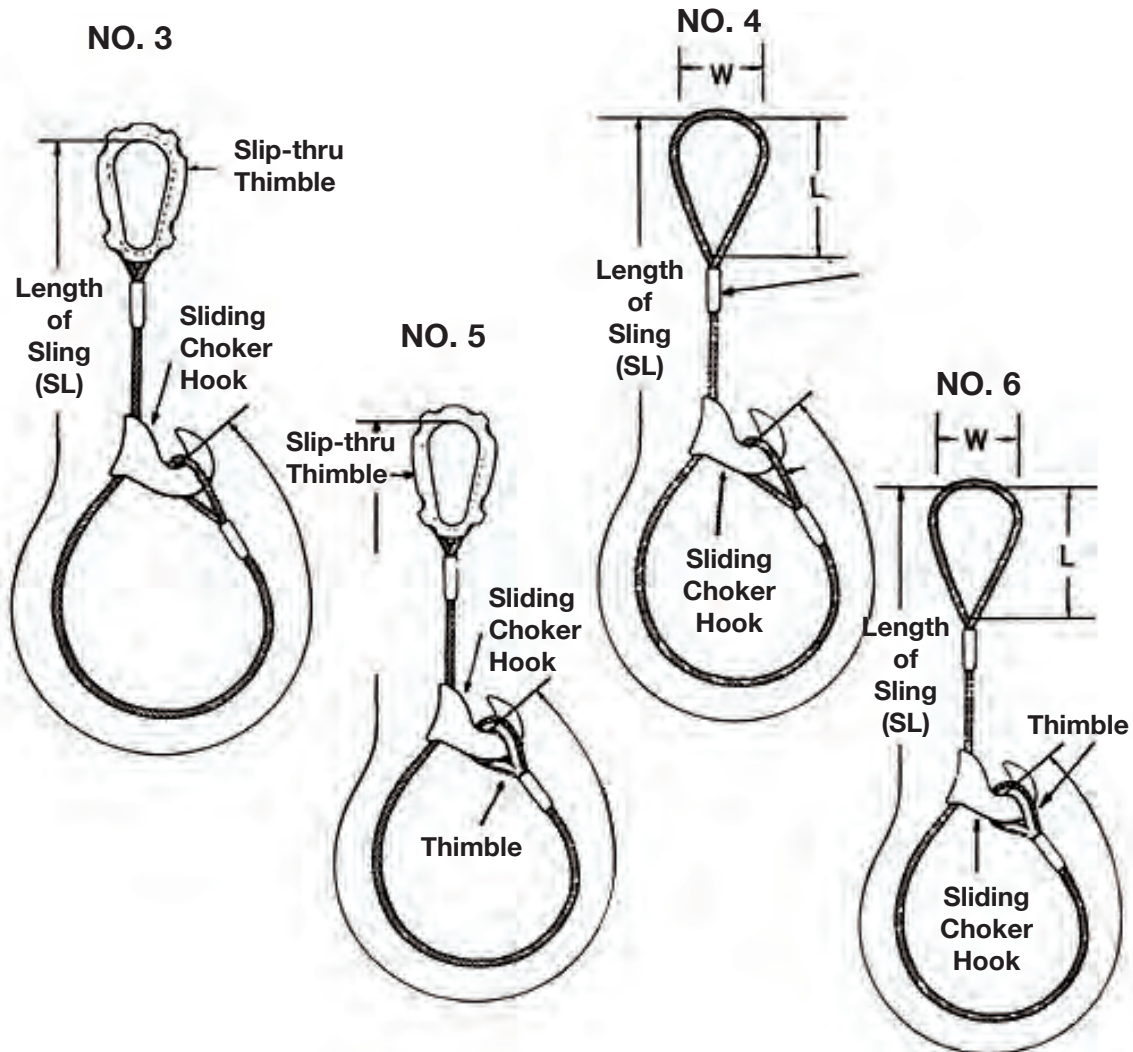


RIGGING SOLUTIONS

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Slings With Single-Rope Legs, Flemish Loop-Locks & Choker Hooks

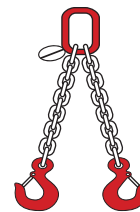


| Diam of Rope In. | Rated Capacity in Tons (2000 lb) ** | | Slip-thru Thimbles | Spliced Loops | | Sliding Choker Hooks | |
|------------------|-------------------------------------|--|--------------------|---------------|-------|----------------------|-------------|
| | IWRC EIP | | | W In. | L In. | Size No. | Weight Lbs. |
| 1/4 | .48 | | W-2 | 2 | 4 | 1/4 - 5/16 | 1.0 |
| 3/8 | 1.1 | | W-2 | 3 | 6 | 3/8 | 1.25 |
| 1/2 | 1.9 | | W-3 | 4 | 8 | 1/2 | 1.75 |
| 5/8 | 2.9 | | W-4 | 5 | 10 | 5/8 | 3.25 |
| 3/4 | 4.1 | | W-4 | 6 | 12 | 3/4 | 4.5 |
| 7/8 | 5.6 | | W-5 | 7 | 14 | 7/8 - 1 | 10 |
| 1 | 7.2 | | W-5 | 8 | 16 | 7/8 - 1 | 10 |
| 1 1/8 | 9.1 | | W-6 | 9 | 18 | 1 1/8 - 1 1/4 | 26 |
| 1 1/4 | 11 | | W-6 | 10 | 20 | 1 1/8 - 1 1/4 | 26 |
| 1 3/8 | 13 | | W-7 | 11 | 22 | 1 3/8 - 1 1/2 | 46 |
| 1 1/2 | 16 | | W-7 | 12 | 24 | 1 3/8 - 1 1/2 | 46 |

** Rated capacities of choker hitches apply when the angle of choke is greater than 135°.

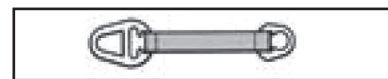
RIGGING SOLUTIONS

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Type 1 (TC) and Type 2 (TT) Web-Trap Hardware Slings

| | Sling Code | | Web Width (in.) | Rated Capacity* (lbs.) | | | Sling Code*** | |
|---------|------------|----------|-----------------|------------------------|--------|-----------|---------------|----------|
| | Type 1 | Type 2** | | Vertical | Choker | V. Basket | Type 1 | Type 2** |
| One Ply | — | — | 5 | 8,000 | 6,400 | 16,000 | TC1-805 | TT1-805 |
| | TC1-806 | TT1-806 | 6 | 9,600 | 7,700 | 19,200 | TC1-806 | TT1-806 |
| | TC1-808 | TT1-808 | 8 | 12,800 | 10,200 | 25,600 | TC1-808 | TT1-808 |
| | TC1-810 | TT1-810 | 10 | 16,000 | 12,800 | 32,000 | TC1-810 | TT1-810 |
| | TC1-812 | TT1-812 | 12 | 19,200 | 15,400 | 38,400 | TC1-812 | TT1-812 |
| | TC1-816 | TT1-816 | 16 | 25,500 | 20,400 | 51,000 | TC1-816 | TT1-816 |
| Two Ply | — | — | 5 | 14,000 | 11,200 | 28,000 | TC2-805 | TT2-805 |
| | TC2-806 | TT2-806 | 6 | 16,800 | 13,400 | 33,600 | TC2-806 | TT2-806 |
| | TC2-808 | TT2-808 | 8 | 22,400 | 17,900 | 44,800 | TC2-808 | TT2-808 |
| | TC2-810 | TT2-810 | 10 | 28,000 | 22,400 | 56,000 | TC2-810 | TT2-810 |
| | TC2-812 | TT2-812 | 12 | 33,600 | 26,800 | 67,200 | TC2-812 | TT2-812 |
| | TC2-816 | TT2-816 | 16 | 44,800 | 35,800 | 89,600 | TC2-816 | TT2-816 |



Type 1 (TC)



Type 2 (TT)

NOTE:

2", 3" and 4" Hardware Slings feature *Unilink* fittings.

Web-Trap Triangles and Chokers are also available.

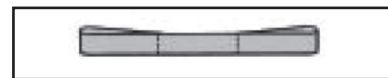
Three and four ply hardware slings and wider width hardware slings are available upon request.

** Type 2 (TT) can not be used in a choker hitch.

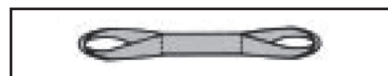
*** Add a "D" to sling code for polyester (See "How to Order").

Eye and Eye Slings (Flat or Twisted)

| | Sling Code | Web Width (in.) | Rated Capacity* (lbs.) | | | Sling Code*** |
|-----------|------------|-----------------|------------------------|---------|-----------|---------------|
| | | | Vertical | Choker | V. Basket | |
| One Ply | EE1-801 | 1 | 1,600 | 1,250 | 3,200 | EE1-801 |
| | EE1-802 | 2 | 3,200 | 2,500 | 6,400 | EE1-802 |
| | EE1-803 | 3 | 4,800 | 3,800 | 9,600 | EE1-803 |
| | EE1-804 | 4 | 6,400 | 5,000 | 12,800 | EE1-804 |
| | — | 5 | 8,000 | 6,400 | 16,000 | EE1-805 |
| | EE1-806 | 6 | 9,600 | 7,700 | 19,200 | EE1-806 |
| | EE1-808 | 8 | 12,800 | 10,200 | 25,600 | EE1-808 |
| | EE1-810 | 10 | 16,000 | 12,800 | 32,000 | EE1-810 |
| EE1-812 | 12 | 19,200 | 15,400 | 38,400 | EE1-812 | |
| Two Ply | EE2-801 | 1 | 3,200 | 2,500 | 6,400 | EE2-801 |
| | EE2-802 | 2 | 6,400 | 5,000 | 12,800 | EE2-802 |
| | EE2-803 | 3 | 8,600 | 6,900 | 17,200 | EE2-803 |
| | EE2-804 | 4 | 11,500 | 9,200 | 23,000 | EE2-804 |
| | — | 5 | 13,600 | 10,900 | 27,200 | EE2-805 |
| | EE2-806 | 6 | 16,300 | 13,000 | 32,600 | EE2-806 |
| | EE2-808 | 8 | 19,200 | 15,400 | 38,400 | EE2-803 |
| | EE2-810 | 10 | 22,400 | 17,900 | 44,800 | EE2-810 |
| EE2-812 | 12 | 26,900 | 21,500 | 53,800 | EE2-812 | |
| Three Ply | EE3-801 | 1 | 4,100 | 3,300 | 8,200 | EE3-801 |
| | EE3-802 | 2 | 8,300 | 6,600 | 16,600 | EE3-802 |
| | EE3-803 | 3 | 12,500 | 10,000 | 25,000 | EE3-803 |
| | EE3-804 | 4 | 16,000 | 12,800 | 32,000 | EE3-804 |
| | — | 5 | 19,200 | 15,400 | 38,400 | EE3-805 |
| | EE3-806 | 6 | 23,000 | 18,400 | 46,000 | EE3-806 |
| | EE3-808 | 8 | 30,700 | 24,500 | 61,400 | EE3-808 |
| | EE3-810 | 10 | 36,800 | 29,400 | 73,600 | EE3-810 |
| EE3-812 | 12 | 44,000 | 35,200 | 88,000 | EE3-812 | |
| Four Ply | EE4-801 | 1 | 5,000 | 4,000 | 10,000 | EE4-801 |
| | EE4-802 | 2 | 10,000 | 8,000 | 20,000 | EE4-802 |
| | EE4-803 | 3 | 14,900 | 11,900 | 29,800 | EE4-803 |
| | EE4-804 | 4 | 19,800 | 15,800 | 39,600 | EE4-804 |
| | — | 5 | 24,800 | 19,800 | 49,600 | EE4-805 |
| | EE4-806 | 6 | 29,800 | 23,800 | 59,600 | EE4-806 |
| | EE4-808 | 8 | 39,700 | 31,700 | 79,400 | EE4-808 |
| | EE4-810 | 10 | 49,600 | 39,600 | 99,200 | EE4-810 |
| EE4-812 | 12 | 59,500 | 47,600 | 119,000 | EE4-812 | |



Type 3 (Flat Eye)



Type 4 (Twisted Eye)

NOTE:

Tampering - Types 3 and 4 slings are tapered at 3" and wider unless otherwise specified.

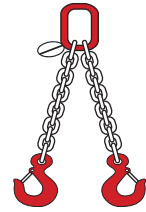
*** Add a "D" to sling code for polyester (See "How to Order").

*** ⚠ WARNING**

Do not exceed rated capacities. Ratings must be reduced when slings are used at angles of less than 90° from horizontal.

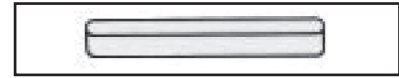
RIGGING SOLUTIONS

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Endless Slings

| | Sling Code | Web Width (in.) | Rated Capacity* (lbs.) | | | Sling Code*** |
|-----------|------------|-----------------|------------------------|---------|-----------|---------------|
| | | | Vertical | Choker | V. Basket | |
| One Ply | EN1-801 | 1 | 3,200 | 2,500 | 6,400 | EN1-801 |
| | EN1-802 | 2 | 6,400 | 5,000 | 12,800 | EN1-802 |
| | EN1-803 | 3 | 8,600 | 6,900 | 17,200 | EN1-803 |
| | EN1-804 | 4 | 11,500 | 9,200 | 23,000 | EN1-804 |
| | — | 5 | 13,600 | 10,900 | 27,200 | EN1-805 |
| | EN1-806 | 6 | 16,300 | 13,000 | 32,600 | EN1-806 |
| | EN1-808 | 8 | 19,200 | 15,400 | 38,400 | EN1-808 |
| | EN1-810 | 10 | 22,400 | 17,900 | 44,800 | EN1-810 |
| EN1-812 | 12 | 26,900 | 21,500 | 53,800 | EN1-812 | |
| Two Ply | EN2-801 | 1 | 6,200 | 4,900 | 12,400 | EN2-801 |
| | EN2-802 | 2 | 12,200 | 9,800 | 24,400 | EN2-802 |
| | EN2-803 | 3 | 16,300 | 13,000 | 32,600 | EN2-803 |
| | EN2-804 | 4 | 20,700 | 16,500 | 41,400 | EN2-804 |
| | — | 5 | 24,500 | 19,600 | 49,000 | EN2-805 |
| | EN2-806 | 6 | 28,600 | 23,000 | 57,200 | EN2-806 |
| | EN2-808 | 8 | 30,700 | 24,500 | 61,400 | EN2-803 |
| | EN2-810 | 10 | 33,600 | 26,800 | 67,200 | EN2-810 |
| EN2-812 | 12 | 37,600 | 30,000 | 75,200 | EN2-812 | |
| Three Ply | EN3-801 | 1 | 8,000 | 6,400 | 16,000 | EN3-801 |
| | EN3-802 | 2 | 16,000 | 12,800 | 32,000 | EN3-802 |
| | EN3-803 | 3 | 21,500 | 17,200 | 43,000 | EN3-803 |
| | EN3-804 | 4 | 28,700 | 23,000 | 57,400 | EN3-804 |
| | — | 5 | 34,000 | 27,200 | 68,000 | EN3-805 |
| | EN3-806 | 6 | 40,700 | 32,500 | 81,400 | EN3-806 |
| | EN3-808 | 8 | 46,000 | 36,800 | 92,000 | EN3-808 |
| | EN3-810 | 10 | 51,500 | 41,200 | 103,000 | EN3-810 |
| EN3-812 | 12 | 59,200 | 47,300 | 118,400 | EN3-812 | |
| Four Ply | EN4-801 | 1 | 10,000 | 8,000 | 20,000 | EN4-801 |
| | EN4-802 | 2 | 19,800 | 15,800 | 39,600 | EN4-802 |
| | EN4-803 | 3 | 26,700 | 21,300 | 53,400 | EN4-803 |
| | EN4-804 | 4 | 35,600 | 28,400 | 71,200 | EN4-804 |
| | — | 5 | 42,200 | 33,700 | 84,400 | EN4-805 |
| | EN4-806 | 6 | 50,500 | 40,400 | 101,000 | EN4-806 |
| | EN4-808 | 8 | 57,600 | 46,000 | 115,200 | EN4-808 |
| | EN4-810 | 10 | 67,200 | 53,700 | 134,000 | EN4-810 |
| EN4-812 | 12 | 80,700 | 64,500 | 161,400 | EN4-812 | |



Type 5

NOTE:

Type 5 (Endless) slings are NOT tapered unless specified.

*** Add a "D" to sling code for polyester (See "How to Order").

*** ⚠ WARNING**

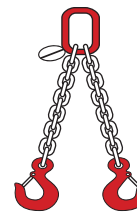
Do not exceed rated capacities. Ratings must be reduced when slings are used at angles of less than 90° from horizontal.

Eye Length (Applies to all Web Slings)

| Sling Width (in.) | Plies of Webbing (in.) | | | |
|-------------------|------------------------|-------|----|----|
| | 1 | 2 | 3 | 4 |
| 1 | 8-1/2 | 8-1/2 | 10 | 10 |
| 2 | 10 | 10 | 12 | 12 |
| 3 | 11 | 11 | 14 | 14 |
| 4 | 12 | 12 | 16 | 16 |
| 5 | 14 | 14 | 18 | 18 |
| 6 | 16 | 16 | 18 | 18 |
| 8 | 20 | 20 | 24 | 24 |
| 10 | 24 | 24 | 24 | 24 |
| 12 | 24 | 24 | 24 | 24 |

RIGGING SOLUTIONS

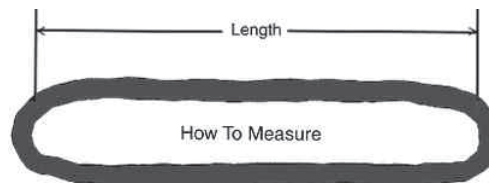
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- Wear points can be shifted
- Improved load balance can be achieved by spreading the sides or legs
- Chokes tightly, unchokes easily after use
- A double wrapped rig improves gripping power in choker or basket hitch

All Endless Single Path Slings Retain These Basic Features:

- Color coding of capacities
- Double wall cover
- Easy to inspect
- Most pliable and load conforming
- Work load tag



Endless Domestic Polyester Roundslings

| CAPACITIES IN LBS. | | | | | APPROXIMATE DIMENSIONS | | | | | |
|--------------------|--------|----------|--------|---------|------------------------|--------------|-----------------------|--------------------------|-----------------------|-------------------|
| Code | Color | Vertical | Choker | Basket | Minimum Length | Weight Lb/Ft | Body Dia. Relaxed (D) | Body Dia. Above Load (D) | Thickness At Load (T) | Width At Load (W) |
| | | | | | | | | | | |
| EN30 | Purple | 2,650 | 2,120 | 5,300 | 3 ft. | .2 | 5/8" | 3/8" | 1/4" | 1-3/4" |
| EN60 | Green | 5,300 | 4,240 | 10,600 | 3 ft. | .3 | 7/8" | 5/8" | 3/8" | 2-1/8" |
| EN90 | Yellow | 8,400 | 6,720 | 16,800 | 3 ft. | .4 | 1-1/8" | 7/8" | 3/8" | 2-1/2" |
| EN120 | Tan | 10,600 | 8,500 | 21,200 | 3 ft. | .5 | 1-1/8" | 7/8" | 3/8" | 2-1/8" |
| EN150 | Red | 13,200 | 10,560 | 26,400 | 3 ft. | .7 | 1-3/8" | 1" | 5/8" | 2-3/4" |
| EN180 | White | 16,800 | 13,440 | 33,600 | 6 ft. | .8 | 1-3/8" | 1" | 5/8" | 2-1/2" |
| EN240 | Blue | 21,200 | 17,000 | 42,400 | 6 ft. | 1.2 | 1-5/8" | 1-1/4" | 3/4" | 3-1/8" |
| EN360 | Grey | 31,700 | 25,300 | 63,400 | 6 ft. | 2.0 | 2-1/8" | 1-3/4" | 3/4" | 4" |
| EN600 | Brown | 52,900 | 42,300 | 105,800 | 7 ft. | 2.5 | 2-3/4" | 2-1/4" | 7/8" | 5-1/4" |
| EN800 | Olive | 66,100 | 52,880 | 132,200 | 7 ft. | 3.0 | 2-5/8" | 2-3/8" | 1" | 6" |
| EN1,000 | Black | 90,000 | 72,000 | 180,000 | 7 ft. | 4.25 | 3-5/8" | 3" | 1-1/4" | 7" |

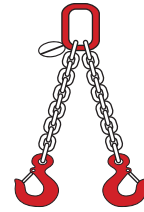
WARNING! Do not exceed rated capacities.

KeyFlex™ Aramid Roundslings

| KEN Stock No. | Rated Capacities (Lbs.) 5-1 D/F | | | | | Approximate Weight (Lbs. Per Ft.) (Bearing-Bearing) | Approximate Body Width (Inches) |
|---------------|---------------------------------|---------|----------------|---------|---------|---|---------------------------------|
| | Vertical | Choker | Basket Hitches | | | | |
| | | | 0° | 60° | 45° | | |
| KEN10K | 10,000 | 8,000 | 20,000 | 17,320 | 14,140 | .31 | 3" |
| KEN15K | 15,000 | 12,000 | 30,000 | 25,980 | 21,210 | .40 | 3" |
| KEN20K | 20,000 | 16,000 | 40,000 | 34,640 | 28,280 | .55 | 4" |
| KEN25K | 25,000 | 20,000 | 50,000 | 43,300 | 35,350 | .65 | 4" |
| KEN30K | 30,000 | 24,000 | 60,000 | 51,960 | 42,420 | .80 | 4" |
| KEN40K | 40,000 | 32,000 | 80,000 | 69,280 | 56,560 | 1.12 | 5" |
| KEN50K | 50,000 | 40,000 | 100,000 | 86,139 | 70,700 | 1.50 | 5" |
| KEN60K | 60,000 | 48,000 | 120,000 | 103,920 | 84,840 | 1.60 | 6" |
| KEN70K | 70,000 | 56,000 | 140,000 | 121,240 | 98,980 | 1.68 | 6" |
| KEN85K | 85,000 | 68,000 | 170,000 | 147,220 | 120,190 | 1.85 | 6" |
| KEN100K | 100,000 | 80,000 | 200,000 | 173,200 | 141,400 | 2.20 | 8" |
| KEN125K | 125,000 | 100,000 | 250,000 | 216,500 | 176,750 | 3.00 | 8" |
| KEN150K | 150,000 | 120,000 | 300,000 | 259,800 | 212,100 | 3.65 | 8" |
| KEN175K | 175,000 | 140,000 | 350,000 | 303,100 | 247,450 | 4.00 | 10" |
| KEN200K | 200,000 | 160,000 | 400,000 | 346,400 | 282,800 | 4.37 | 10" |

RIGGING SOLUTIONS

A DIVISION OF INDUSTRIAL MOTOR REPAIR LLC • ALTON, IL



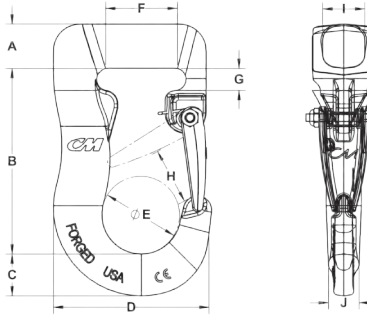
QUICK CONNECT HOOK

WORKING LOAD LIMIT: UP TO 13,200 LBS • WEB SLING EYE WIDTHS UP TO 3"

Ideal for use with synthetic slings, CM Quick Connect Hooks are the quickest and easiest way to add hooks to any synthetic sling by eliminating the need for additional hardware or assembly tools. Designed with a large bearing surface, these hooks prevent the sling from bunching, allowing the sling to be used at full capacity. And, for easy selection, Quick Connect Hooks are color coded to match common industry synthetic sling capacities.

BENEFITS & FEATURES

- Quick and efficient attachment
- Longer sling life
- Low sling weight and cost
- Easy selection
- Secure sling attachment
- Strong and durable
- Standard hook latches
- I-Beam design reduces overall sling weight
- Embossed for worldwide use



WLL: 2,600 LBS.
Purple

| Color | Working Load Limit (lbs.) | Product Code | Latch Kit | Dimensions (in.) | | | | | | | | | | Weight (lbs.) |
|--------|---------------------------|--------------|-----------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| | | | | A | B | C | D | E | F | G | H | I | J | |
| Purple | 2,600 | M85030 | 4X85030 | 0.770 | 3.530 | 0.794 | 2.884 | 1.500 | 1.500 | 0.418 | 0.938 | 0.813 | 0.580 | 1.450 |
| Green | 5,300 | M85060 | 4X85060 | 1.034 | 4.589 | 1.040 | 3.751 | 1.625 | 1.875 | 0.553 | 1.200 | 1.188 | 0.865 | 3.735 |
| Yellow | 8,400 | M85090 | 4X455329 | 1.208 | 5.410 | 1.172 | 4.325 | 1.875 | 2.375 | 0.640 | 1.500 | 1.250 | 1.043 | 5.835 |
| Red | 13,200 | M85120 | 4X455329 | 1.384 | 6.141 | 1.392 | 5.026 | 2.125 | 2.625 | 0.744 | 1.750 | 1.438 | 1.200 | 8.282 |



COLOR CODED TO MATCH COMMON SYNTHETIC SLING CAPACITIES



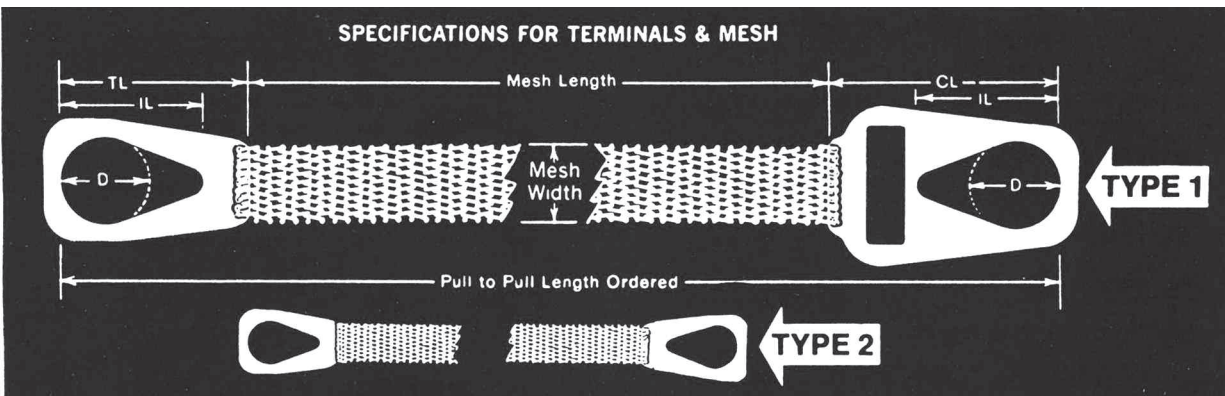
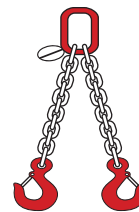
WLL: 5,300 LBS.
Green

WLL: 8,400 LBS.
Yellow

WLL: 13,200 LBS.
Red

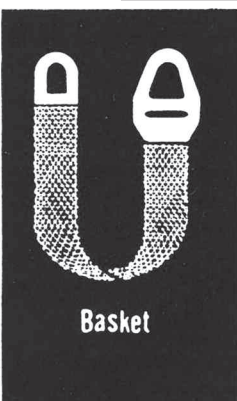
RIGGING SOLUTIONS

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SPECIFICATIONS

| Nom. Mesh Width (In.) | Terminal Dimensions In Inches | | | | | Terminal Thickness (In.) T | | Approx. Weight In. Pounds of 3 Ft. Sling | | Mesh Weight per Feet in Pounds | |
|-----------------------|-------------------------------|-------|--------|--------|-----|----------------------------|--------|--|--------|--------------------------------|--------|
| | MW | D | IL | TL | CL | 10 Ga. | 12 Ga. | 10 Ga. | 12 Ga. | 10 Ga. | 12 Ga. |
| 2 | 2 1/4 | 3 3/8 | 3 3/4 | 5 1/4 | 1/2 | 3/8 | 5 | 4 | 1.3 | 1.1 | |
| 3 | 2 7/8 | 3 3/4 | 4 1/2 | 6 | 1/2 | 3/8 | 8 | 6 | 1.9 | 1.8 | |
| 4 | 3 | 4 | 4 3/4 | 6 1/2 | 1/2 | 3/8 | 10 | 9 | 2.5 | 2.3 | |
| 6 | 3 3/8 | 4 1/2 | 5 1/2 | 7 1/2 | 1/2 | 3/8 | 16 | 12 | 3.9 | 3.4 | |
| 8 | 4 1/2 | 6 | 7 3/8 | 9 | 1/2 | 3/8 | 22 | 17 | 5.1 | 4.5 | |
| 10 | 4 3/4 | 6 1/4 | 7 5/8 | 10 1/4 | 1/2 | 3/8 | 29 | 23 | 6.4 | 5.6 | |
| 12 | 5 | 6 1/2 | 7 7/8 | 11 1/2 | 1/2 | 3/8 | 33 | 27 | 7.6 | 6.8 | |
| 14 | 5 1/4 | 7 | 8 1/4 | 12 1/2 | 1/2 | 3/8 | 43 | 34 | 8.9 | 7.9 | |
| 16 | 5 1/2 | 7 1/4 | 9 1/4 | 14 | 1/2 | 3/8 | 53 | 41 | 10.1 | 9.0 | |
| 18 | 5 3/4 | 7 5/8 | 10 1/4 | 15 1/2 | 1/2 | 3/8 | 61 | 47 | 11.4 | 10.1 | |
| 20 | 6 | 8 | 11 | 17 | 1/2 | 3/8 | 67 | 52 | 12.8 | 11.3 | |



| Wire Mesh Width | Rated Capacities in Lbs. | |
|-----------------|--------------------------|--------|
| | Choker | Basket |

10 GAGE

| | | |
|-----|--------|--------|
| 2" | 2,300 | 4,600 |
| 3" | 3,500 | 7,000 |
| 4" | 4,800 | 9,600 |
| 6" | 7,200 | 14,400 |
| 8" | 9,600 | 19,200 |
| 10" | 12,000 | 24,000 |
| 12" | 14,400 | 28,800 |
| 14" | 16,800 | 33,600 |
| 16" | 19,200 | 38,400 |
| 18" | 21,600 | 43,200 |
| 20" | 24,000 | 48,000 |

12 GAGE

| | | |
|-----|--------|--------|
| 2" | 2,300 | 4,600 |
| 3" | 3,500 | 7,000 |
| 4" | 4,800 | 9,600 |
| 6" | 7,200 | 14,400 |
| 8" | 9,600 | 19,200 |
| 10" | 12,000 | 24,000 |
| 12" | 14,400 | 28,800 |



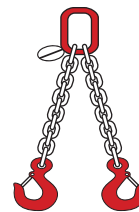
10 Gage-Heavy Duty (35-21-8-10)



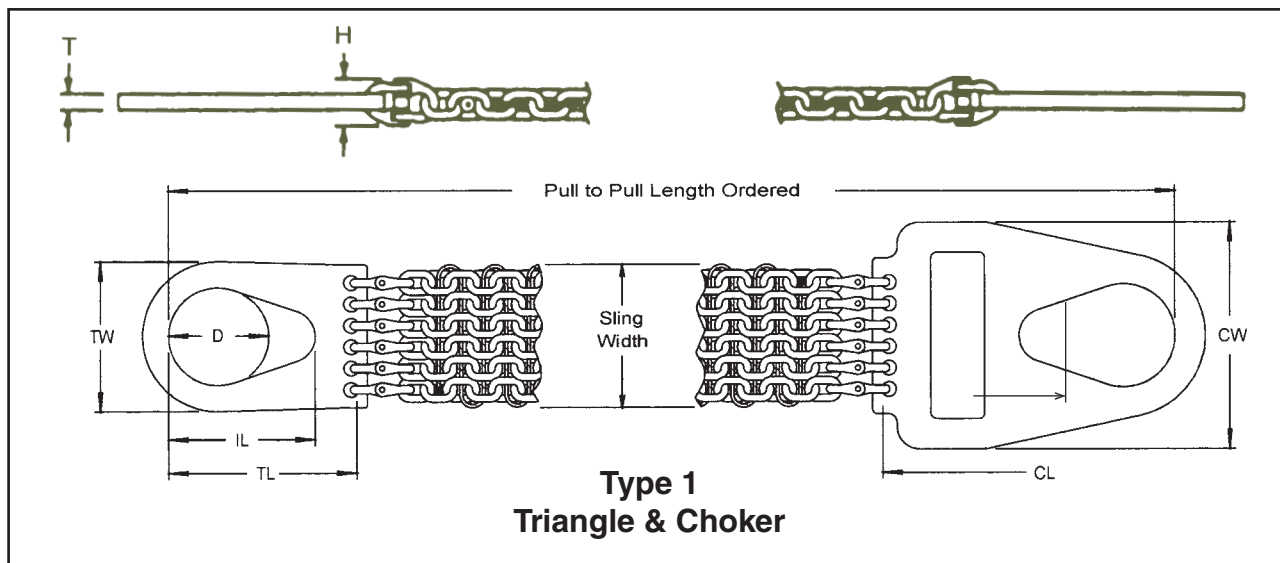
12 Gage-Medium Duty (43-30-10-12)

RIGGING SOLUTIONS

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CHAIN MESH SLINGS

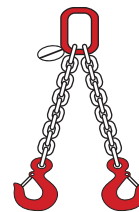


| Chain Size (in.) | Parts of Chain | Sling Width (in.) | Terminal Dimensions (in.) | | | | | | | | 5-ft. Type 2 Weight (lbs.) | Weight per ft. (lbs.) |
|------------------|----------------|-------------------|---------------------------|------|------|------|-------|------|------|------|----------------------------|-----------------------|
| | | | D | IL | TL | TW | CL | CW | T | H | | |
| 7/32 | 3 | 1-1/2 | 2.75 | 4.13 | 6.75 | 4.75 | 9.00 | 7.13 | 0.38 | 1.25 | 10 | 1.3 |
| | 4 | 2.00 | 3.00 | 4.50 | 7.13 | 5.00 | 9.38 | 7.13 | 0.38 | 1.25 | 12 | 1.8 |
| | 5 | 2-1/2 | 3.50 | 5.25 | 8.00 | 5.50 | 10.13 | 7.75 | 0.38 | 1.25 | 14 | 2.2 |
| | 6 | 3.00 | 3.75 | 5.63 | 8.25 | 5.75 | 10.63 | 8.25 | 0.38 | 1.25 | 17 | 2.7 |
| 9/32 | 3 | 2-1/8 | 2.75 | 4.13 | 6.75 | 4.75 | 9.00 | 7.13 | 0.50 | 1.75 | 14 | 2.2 |
| | 4 | 2-3/4 | 3.00 | 4.50 | 7.13 | 5.00 | 9.38 | 7.25 | 0.50 | 1.75 | 18 | 3.0 |
| | 5 | 3-3/8 | 3.50 | 5.25 | 8.0 | 5.50 | 10.13 | 7.75 | 0.50 | 1.75 | 22 | 3.7 |
| | 6 | 4.00 | 3.75 | 5.63 | 8.25 | 5.75 | 10.63 | 8.25 | 0.50 | 1.75 | 26 | 4.5 |
| 3/8 | 3 | 3-1/4 | 3.50 | 5.25 | 6.88 | 5.00 | - | - | 0.75 | 2.25 | 30 | 4.4 |
| | 4 | 4-3/8 | 4.38 | 6.50 | 8.13 | 6.38 | - | - | 0.75 | 2.25 | 41 | 5.8 |
| | 5 | 5-3/8 | 4.38 | 6.50 | 8.38 | 7.38 | - | - | 0.75 | 2.25 | 55 | 7.3 |
| | 6 | 6-1/2 | 5.25 | 7.88 | 9.75 | 8.25 | - | - | 0.75 | 2.25 | 59 | 8.8 |
| 1/2 | 2 | 3.00 | 3.50 | 5.25 | 6.88 | 5.00 | - | - | 1.0 | 3.13 | 33 | 5.2 |
| | 3 | 4-1/2 | 4.38 | 6.50 | 8.38 | 6.38 | - | - | 1.0 | 3.13 | 50 | 7.7 |
| | 4 | 6.00 | 5.25 | 7.88 | 9.75 | 7.75 | - | - | 1.0 | 3.13 | 62 | 10 |

Note: Length tolerance ± 2 chain links so plane is maintained.

RIGGING SOLUTIONS

A DIVISION OF INDUSTRIAL MOTOR REPAIR LLC • ALTON, IL



HERC-ALLOY® Slings 1000

Types of Chain Slings

In describing the type, the following symbols should be used if attachments are other than standard, give detail specifications.

First symbol (basic type)

- S** Single chain sling
- C** Single choker chain sling with a standard end link on each end, no hook
- D** Double branch chain sling (2 legs)
- T** Triple branch chain sling (3 legs)
- Q** Quad branch chain sling (4 legs)

Second symbol (type of master link or end link)





- O** Oblong master link of standard dimensions

Third symbol (type of hook)

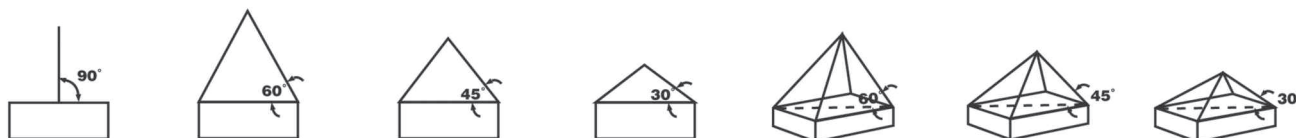
- S** Single hook
- G** Grab hook
- F** Foundry hook
- L** Lodelok hook

Additional coding is defined as follows

- AS** Adjustable single
- ES** Endless single
- SAL** Single adjustable loop
- AD** Adjustable double
- SB** Single basket
- ED** Endless double
- DAL** Double adjustable loop
- DB** Double basket

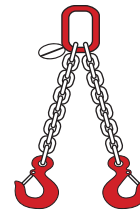
| SLING CONFIGURATION | Single (1 Leg) | Double (2 Legs) | | | | Triple (3 Legs) | | | Quad (4 Legs) | | |
|---------------------|--|--|--------|--------|--------|---|--------|--------|--|--------|--|
| |  |  | | | |  | | |  | | |
| Chain Size | Working Load Limits for Angles Available (shown below) for each Sling Type | | | | | | | | | | |
| | 90° | 60° | 45° | 30° | 60° | 45° | 30° | 60° | 45° | 30° | |
| in. | lb. | | | | | | | | | | |
| 7/32 | 2,700 | 4,700 | 3,800 | 2,700 | 7,000 | 5,700 | 4,000 | 7,000 | 5,700 | 4,000 | |
| 9/32 | 4,300 | 7,400 | 6,100 | 4,300 | 11,200 | 9,100 | 6,400 | 11,200 | 9,100 | 6,400 | |
| 3/8 | 8,800 | 15,200 | 12,400 | 8,800 | 22,900 | 18,700 | 13,200 | 22,900 | 18,700 | 13,200 | |
| 1/2 | 15,000 | 26,000 | 21,200 | 15,000 | 39,000 | 31,800 | 22,500 | 39,000 | 31,800 | 22,500 | |
| 5/8 | 22,600 | 39,100 | 32,000 | 22,600 | 58,700 | 47,900 | 33,900 | 58,700 | 47,900 | 33,900 | |
| 3/4 | 35,300 | 61,100 | 49,900 | 35,300 | 91,700 | 74,900 | 53,000 | 91,700 | 74,900 | 53,000 | |

DO NOT USE AT ANGLES SMALLER THAN 30°



RIGGING SOLUTIONS

A DIVISION OF INDUSTRIAL MOTOR REPAIR LLC • ALTON, IL



HERC-ALLOY® Master Links & Sub-Assemblies

1000

Master Links



- Designed to accept HA 800 chain and components
- Durable gray powder coat finish
- May be used for mechanical and welded sling assemblies
- 100% proof tested

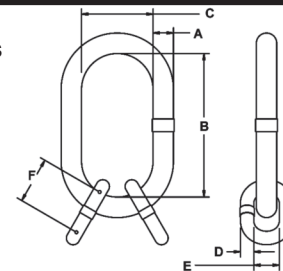


| Trade Size | Working Load Limit | Product Code | Nominal Dimensions | | | Weight | Type & Size of Chain Sling on Which Used | | | |
|-----------------|--------------------|--------------|--------------------|----------------|----------------|------------|--|------------|------------|------------|
| | | | Material Length A | Inside Width B | Inside Width C | | Single | Double | Triple | Quad |
| Imperial | | | | | | | | | | |
| <i>in.</i> | <i>lb.</i> | | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>lb.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> |
| 13/32 | 5,400 | 555231 | 0.406 | 3.000 | 1.500 | 0.33 | 7/32 | 7/32 | — | — |
| 1/2 | 8,600 | 555232 | 0.512 | 5.000 | 2.500 | 0.81 | 9/32 | 9/32 | 7/32 | 7/32 |
| 3/4 | 17,600 | 555235 | 0.750 | 5.500 | 2.750 | 2.08 | 3/8 | 3/8 | 9/32 | 9/32 |
| 1 | 30,000 | 555238 | 1.000 | 7.000 | 3.500 | 4.59 | 1/2 or 5/8 | 1/2 | 3/8 | 3/8 |
| 1-1/4 | 45,200 | 555240 | 1.250 | 8.750 | 4.375 | 9.31 | 3/4 | 5/8 | 1/2 | 1/2 |
| 1-1/2 | 70,600 | 555243 | 1.500 | 10.500 | 5.250 | 15.6 | — | 3/4 | 5/8 | 5/8 |
| 1-3/4 | 105,900 | 555246 | 1.750 | 12.000 | 6.000 | 24.4 | — | — | 3/4 | 3/4 |



Sub-Assembly

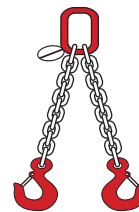
- Designed for triple and quad branch Herc-Alloy chain slings
- Consists of an Oblong Master link and two welded Master Coupling Links
- Durable gray powder coated finish
- May be used for mechanical and welded sling assemblies
- 100% proof tested



| Trade Size | Work Load Limit at 60° | Product Code | Master Link Nominal Dim. | | | Master Link Nominal Dim. | | | Weight | Type & Size of Chain Sling on which used | |
|-----------------|------------------------|--------------|--------------------------|-----------------|----------------|--------------------------|-----------------|----------------|------------|--|------------|
| | | | Material Diameter A | Inside Length B | Inside Width C | Material Diameter D | Inside Length E | Inside Width F | | Triple | Quad |
| Imperial | | | | | | | | | | | |
| <i>in.</i> | <i>lb.</i> | | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>lb.</i> | <i>in.</i> | <i>in.</i> |
| 1/2 | 7,000 | 555274 | 0.512 | 3.000 | 1.500 | 0.437 | 1.063 | 1.750 | 1.04 | 7/32 | 7/32 |
| 3/4 | 11,200 | 555275 | 0.750 | 5.500 | 2.750 | 0.468 | 0.875 | 1.563 | 2.08 | 9/32 | 9/32 |
| 1 | 22,900 | 555276 | 1.000 | 7.000 | 3.500 | 0.781 | 1.500 | 2.625 | 4.59 | 3/8 | 3/8 |
| 1-1/4 | 39,000 | 555277 | 1.250 | 8.750 | 4.375 | 0.906 | 1.750 | 3.125 | 9.16 | 1/2 | 1/2 |
| 1-1/2 | 58,700 | 555278 | 1.500 | 10.500 | 5.250 | 1.125 | 2.250 | 4.000 | 15.66 | 5/8 | 5/8 |
| 1-3/4 | 91,700 | 555279 | 1.750 | 12.000 | 6.000 | 1.500 | 2.750 | 5.250 | 24.44 | 3/4 | 3/4 |

RIGGING SOLUTIONS

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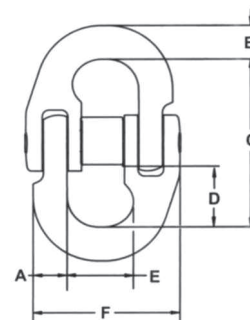


HERC-ALLOY® Hammerloks 1000

Hammerlok



- New Classic stainless steel non-corrosive retainer
- New pin and retainer design adds protection against twist and side load problems
- Large retainer diameter adds shock load protection

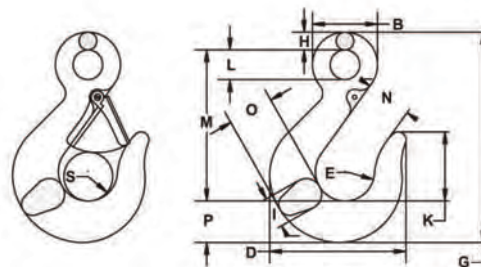


| Size | Working Load Limit | Product Code | Load Pin Kit Product Code | Dimensions | | | | | | Weight |
|-----------------|--------------------|--------------|---------------------------|------------|------------|------------|------------|------------|------------|------------|
| | | | | A Max | B Max | C | D | E | F | |
| <i>Imperial</i> | | | | | | | | | | |
| <i>in.</i> | <i>lb.</i> | | | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>lb.</i> |
| 9/32 | 4,300 | 667028-2 | R667028-2 | 0.365 | 0.435 | 2.75 | 0.71 | 0.541 | 1.69 | 0.28 |
| 3/8 | 8,800 | 667038-2 | R667038-2 | 0.502 | 0.591 | 3.0 | 1.16 | 0.910 | 2.50 | 0.84 |
| 1/2 | 15,000 | 667050-2 | R667050-2 | 0.678 | 0.780 | 3.80 | 1.43 | 1.097 | 3.19 | 1.87 |
| 5/8 | 22,600 | 667062-2 | R667062-2 | 0.804 | 0.905 | 4.54 | 1.74 | 1.317 | 3.88 | 3.13 |
| 3/4 | 35,300 | 667075-2 | R667075-2 | 0.973 | 1.071 | 5.36 | 2.09 | 1.516 | 4.69 | 5.75 |

Eye Sling Hook



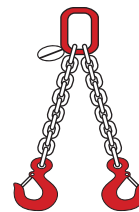
- Fraction and metric markings
- Available with or without latch
- Painted gray for easy Grade 100 identification
- 100% proof tested
- Fatigue rated to Grade 100 specifications
- For welded 7/32" Chain Sling use 9/32" Eye Hook



| Size | Work Load Limit | Product Code w/ Latch | Product Code w/o Latch | Latch Kit | Dimensions | | | | | | | | | | | | | Weight |
|-----------------|-----------------|-----------------------|------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | | | B | D | E | G | H | I | K | L | M | N | O | P | S | |
| <i>Imperial</i> | | | | | | | | | | | | | | | | | | |
| <i>in.</i> | <i>lb.</i> | | | | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>lb.</i> |
| 9/32 | 4,300 | 558622 | 458622 | 595523 | 1.63 | 3.50 | 1.50 | 5.25 | 0.44 | 0.73 | 1.59 | 0.75 | 3.75 | 1.19 | 1.20 | 1.05 | 1.06 | 1.1 |
| 3/8 | 8,800 | 558625 | 458625 | 595525 | 2.08 | 4.33 | 1.88 | 6.64 | 0.56 | 0.95 | 2.19 | 0.94 | 4.78 | 1.44 | 1.45 | 1.28 | 1.31 | 1.9 |
| 1/2 | 15,000 | 558628 | 458628 | 595528 | 2.63 | 5.50 | 2.25 | 8.16 | 0.75 | 1.17 | 2.56 | 1.13 | 5.69 | 1.78 | 1.94 | 1.66 | 1.63 | 4.5 |
| 5/8 | 22,600 | 558629 | 458629 | 595529 | 3.06 | 6.34 | 2.63 | 9.66 | 0.88 | 1.44 | 2.63 | 1.31 | 6.50 | 2.03 | 2.38 | 2.19 | 1.75 | 7.3 |
| 3/4 | 35,300 | 558630 | 458630 | 595530 | 3.50 | 7.83 | 3.00 | 11.38 | 1.00 | 1.69 | 3.44 | 1.50 | 7.81 | 2.50 | 2.83 | 2.51 | 2.19 | 11.4 |

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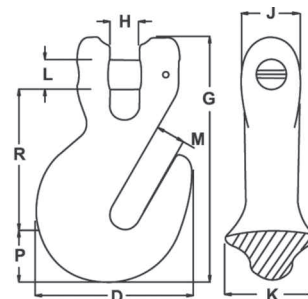


HERC-ALLOY® Grab Hooks & Foundry Hook 1000

Clevlok Cradle Grab Hook



- Fits grade 80 and grade 100 chain
- Fraction and metric markings
- New "I" beam body with chain cradle saddle
- 100% proof tested
- Fatigue rated to grade 100 specifications

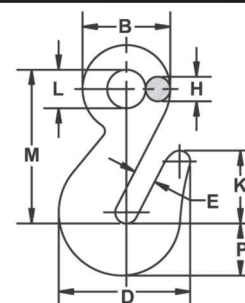


| Size | Working Load Limit | Product Code | Dimensions | | | | | | | | | Weight | |
|-----------------|--------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | D | G | H | J | K | L | M | P | R | | |
| <i>Imperial</i> | | | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>lb.</i> |
| 9/32 | 4,300 | 659722 | 2.18 | 3.38 | 0.38 | 0.80 | 0.95 | 0.36 | 0.38 | 0.82 | 1.86 | 0.63 | |
| 3/8 | 8,800 | 659725 | 2.72 | 4.33 | 0.47 | 1.16 | 1.27 | 0.51 | 0.47 | 1.02 | 2.47 | 1.30 | |
| 1/2 | 15,000 | 659728 | 3.32 | 5.27 | 0.65 | 1.24 | 1.54 | 0.63 | 0.65 | 1.18 | 3.05 | 2.10 | |
| 5/8 | 22,600 | 659729 | 4.18 | 6.54 | 0.79 | 1.53 | 1.92 | 0.75 | 0.79 | 1.41 | 3.75 | 4.20 | |

Eye Cradle Grab Hook



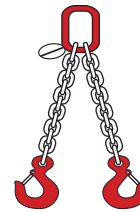
- Fraction and metric markings
- Painted gray for easy grade 100 identification
- 100% proof tested
- Fatigue rated to grade 100 specifications
- Certification of test available
- For welded 7/32" Chain Sling use 9/32" Eye Cradle Hook



| Size | Working Load Limit | Product Code | Dimensions | | | | | | | | | | Weight | |
|-----------------|--------------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | B | D | E | G | H | I | K | L | M | P | | |
| <i>Imperial</i> | | | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>in.</i> | <i>lb.</i> |
| 9/32 | 4,300 | 559725 | 1.38 | 1.91 | 0.36 | 3.70 | 0.38 | 1.06 | 1.04 | 0.63 | 2.57 | 0.76 | 0.55 | |
| 3/8 | 8,800 | 559737 | 1.78 | 2.78 | 0.47 | 4.81 | 0.50 | 1.38 | 1.49 | 0.78 | 3.28 | 1.04 | 1.39 | |
| 1/2 | 15,000 | 559750 | 2.28 | 3.63 | 0.59 | 6.19 | 0.63 | 1.81 | 1.98 | 1.03 | 4.22 | 1.51 | 3.05 | |
| 5/8 | 22,600 | 559762 | 2.75 | 4.41 | 0.75 | 7.62 | 0.75 | 2.13 | 2.39 | 1.25 | 5.06 | 1.80 | 4.36 | |
| 3/4 | 35,300 | 559775 | 3.19 | 5.23 | 0.88 | 8.99 | 0.88 | 2.88 | 3.50 | 1.44 | 6.25 | 1.88 | 9.00 | |

RIGGING SOLUTIONS

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LATCHLOK® HOOK USE

Working load limits are based on chain size. Hooks are embossed with the chain size they attach to and are not embossed with the working load limit (WLL).

Example: A 9/32" hook embossed (HA1000 9/32") means it's a Grade 100 hook for 9/32" Grade 100 chain with a working load limit of 4,300 lbs. If you are putting it on Grade 80 chain you de-rate the assembly to the 9/32" Grade 80 rating of 3,500 lbs.

The chart below shows the working load limit of Latchlok® hooks when used with Grade 100 and Grade 80 chain slings. It also provides working load limit information for these hooks when used with synthetic web, round or wire rope slings. CM Webloks can be used to avoid bunching when attaching synthetic slings to eye hooks.

| Attachment Type | Hook Size: 9/32" Maximum WLL: 4,300 lbs. | | Hook Size: 3/8" Maximum WLL: 8,800 lbs. | | Hook Size: 1/2" Maximum WLL: 15,000 lbs. | | Hook Size: 5/8" Maximum WLL: 22,600 lbs. | |
|---|---|----------------|--|----------------|---|----------------|---|----------------|
| | Size (in.) | WLL 4:1 (lbs.) | Size (in.) | WLL 4:1 (lbs.) | Size (in.) | WLL 4:1 (lbs.) | Size (in.) | WLL 4:1 (lbs.) |
| When used with Herc-Alloy® chain use the working load limits stated below. Chain WLL are based on 4:1 design. | | | | | | | | |
| Herc-Alloy® 800 Chain | 9/32 | 3,500 | 3/8 | 7,100 | 1/2 | 12,000 | 5/8 | 18,000 |
| Herc-Alloy® 1000 Chain | 9/32 | 4,300 | 3/8 | 8,800 | 1/2 | 15,000 | 5/8 | 22,600 |
| Synthetic web, round and wire rope slings have a 5:1 design factor. If you wish to use these hooks with these slings and maintain the 5:1 sling design factor, use the WLL below. | | | | | | | | |
| Synthetic Web, Round and Wire Rope Slings | 9/32 | 3,500 | 3/8 | 7,100 | 1/2 | 12,000 | 5/8 | 18,000 |

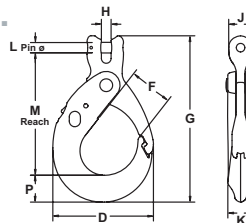
Always use proper connecting hardware with web, round and wire rope slings. Never choke slings in the eye of the hook.

CLEVLOK® STYLE LATCHLOK® HOOK HERC-ALLOY® 1000

WORKING LOAD LIMIT: 4,300 TO 22,600 LBS.

BENEFITS & FEATURES

- High-cycling, long-life spring
- 100% proof tested
- Meets ASTM A952 standards
- Durable orange powder coated finish
- Positive locking hook
- 4:1 design factor
- Meets ASME B30.10



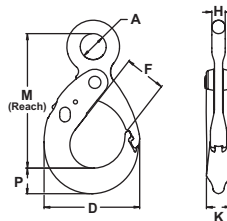
| Size (in.) | Working Load Limit (lbs.) | Product Code | Replace Latch Kit Part # | Dimensions (in.) | | | | | | | | | Weight (lbs.) |
|------------|---------------------------|--------------|--------------------------|------------------|------|------|------|------|------|------|-------|------|---------------|
| | | | | H | M | P | D | F | J | K | G | L | |
| 9/32 | 4,300 | M616005 | 656005 | 0.35 | 5.05 | 0.88 | 3.77 | 1.64 | 1.00 | 0.91 | 6.61 | 0.36 | 2.40 |
| 3/8 | 8,800 | M616010 | 656010 | 0.45 | 6.08 | 1.07 | 4.76 | 2.26 | 1.17 | 1.15 | 7.98 | 0.51 | 4.20 |
| 1/2 | 15,000 | M616015 | 656015 | 0.59 | 7.88 | 1.58 | 6.26 | 2.91 | 1.50 | 1.47 | 10.54 | 0.63 | 9.00 |
| 5/8 | 22,600 | M616020 | 656020 | 0.71 | 8.96 | 1.97 | 7.37 | 3.22 | 1.74 | 1.85 | 12.19 | 0.75 | 14.00 |

EYE STYLE LATCHLOK® HOOK HERC-ALLOY® 1000

WORKING LOAD LIMIT: 4,300 TO 22,600 LBS.

BENEFITS & FEATURES

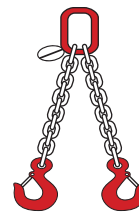
- Large eye design for use with chain, wire rope and synthetic material
- 100% proof tested
- Meets ASTM A952 standards
- Durable orange powder coated finish
- For welded 7/32" chain sling use 9/32" eye Lodelok hook
- Positive locking hook
- 4:1 design factor
- Meets ASME B30.10



| Size (in.) | Working Load Limit (lbs.) | Product Code | Replace Latch Kit Part # | Dimensions (in.) | | | | | | | Weight (lbs.) |
|------------|---------------------------|--------------|--------------------------|------------------|-------|------|------|------|------|------|---------------|
| | | | | A | M | P | D | F | H | K | |
| 9/32 | 4,300 | M626005 | 656005 | 1.09 | 5.37 | 0.88 | 3.77 | 1.64 | 0.47 | 0.91 | 2.50 |
| 3/8 | 8,800 | M626010 | 656010 | 1.36 | 6.65 | 1.07 | 4.74 | 2.27 | 0.59 | 1.15 | 4.74 |
| 1/2 | 15,000 | M626015 | 656015 | 1.57 | 8.79 | 1.58 | 6.26 | 2.91 | 0.80 | 1.47 | 10.00 |
| 5/8 | 22,600 | M626020 | 656020 | 2.00 | 10.37 | 1.97 | 7.37 | 3.22 | 1.03 | 1.85 | 16.00 |

RIGGING SOLUTIONS

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SWIVEL STYLE LATCHLOK® HOOKS HERC-ALLOY® 1000



WORKING LOAD LIMIT: 4,300 TO 22,600 LBS.

BENEFITS & FEATURES OF BOTH STYLES

- The eye easily positions to attach to the load
- 100% proof tested
- Meets ASTM A952 standards
- Certification of test available
- Durable orange powder coated finish
- For welded 7/32" chain sling use 9/32" swivel Lodelok hook
- Positive locking hook
- 4:1 design factor

► DID YOU KNOW?

BEARING VS. BUSHING STYLE SWIVEL HOOKS

BEARING SWIVEL HOOKS

The load may be swiveled and turned into position WITH or WITHOUT the load attached.

BUSHING SWIVEL HOOKS

The load must be swiveled and turned into position BEFORE attaching, lifting or moving a load.

For more information, visit us at www.cmworks.com



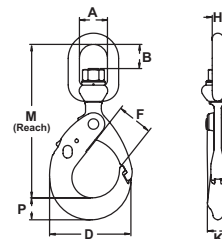
BEARING STYLE SWIVEL HOOK



BUSHING STYLE SWIVEL HOOK

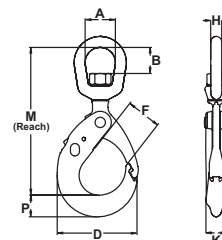
BEARING SWIVEL STYLE

| Size (in.) | Working Load Limit (lbs.) | Product Code | Replace Latch Kit Part # | Dimensions (in.) | | | | | | | | Weight (lbs.) |
|------------|---------------------------|--------------|--------------------------|------------------|-------|------|------|------|------|------|------|---------------|
| | | | | H | M | P | D | F | A | B | K | |
| 9/32 | 4,300 | M696005 | 656005 | 0.62 | 7.43 | 0.88 | 3.77 | 1.64 | 1.50 | 1.31 | 0.91 | 3.5 |
| 3/8 | 8,800 | M696010 | 656010 | 0.77 | 9.11 | 1.07 | 4.76 | 2.26 | 1.75 | 1.62 | 1.15 | 4.8 |
| 1/2 | 15,000 | M696015 | 656015 | 0.93 | 11.49 | 1.58 | 6.26 | 2.91 | 2.25 | 1.82 | 1.47 | 10.7 |
| 5/8 | 22,600 | M696020 | 656020 | 1.00 | 13.73 | 1.97 | 7.37 | 3.22 | 2.50 | 2.16 | 1.85 | 17.4 |



BUSHING SWIVEL STYLE

| Size (in.) | Working Load Limit (lbs.) | Product Code | Replace Latch Kit Part # | Dimensions (in.) | | | | | | | | Weight (lbs.) |
|------------|---------------------------|--------------|--------------------------|------------------|-------|------|------|------|------|------|------|---------------|
| | | | | H | M | P | D | F | A | B | K | |
| 9/32 | 4,300 | M676005 | 656005 | 0.62 | 7.17 | 0.88 | 3.77 | 1.64 | 1.50 | 1.33 | 0.91 | 3.5 |
| 3/8 | 8,800 | M676010 | 656010 | 0.77 | 8.73 | 1.07 | 4.76 | 2.26 | 1.75 | 1.63 | 1.15 | 4.8 |
| 1/2 | 15,000 | M676015 | 656015 | 0.93 | 11.18 | 1.58 | 6.26 | 2.91 | 2.00 | 1.76 | 1.47 | 10.6 |
| 5/8 | 22,600 | M676020 | 656020 | 1.00 | 13.35 | 1.97 | 7.37 | 3.22 | 2.75 | 2.38 | 1.85 | 17.0 |



► INSPECTION, CARE & USE

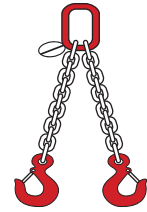
USING LATCHLOK® HOOKS SAFELY

- ▲ Do not apply load unless latch and hook are completely closed and locked
- ▲ Make certain that the latch does not support any part of the load
- ▲ When lifting, make certain that the load is firmly seated in the base (bowl) of the hook
- ▲ Inspect hook and latch periodically. If the hook or latch is damaged or if the latch fails to interlock with the tip, the hook should be removed from service
- ▲ Do not exceed the working load limit
- ▲ Do not use if the hook is visibly distorted, damaged or worn
- ▲ Keep body and other objects clear of the latch when closing to avoid the pinch point
- ▲ Do not side load or tip load hook
- ▲ User should be properly trained and understand safe rigging practices

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CHARPY IMPACT TEST

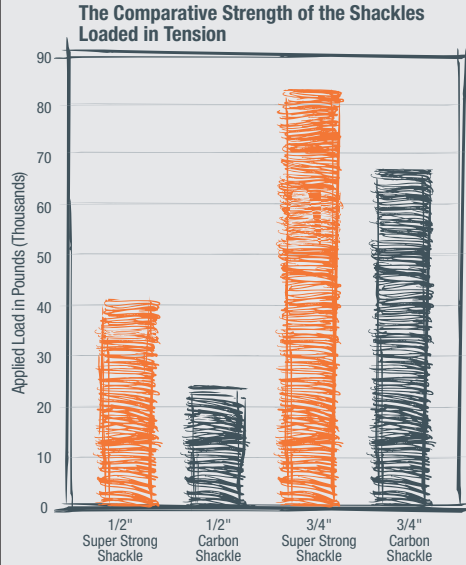
The Charpy V-Notch Test was developed during World War 2 to test the penetration resistance of steel armor. It has since evolved into a method to test for toughness of steel in critical structures such as buildings or bridges.

In this test, a bar is mounted horizontally with the notch facing away from an impact weight suspended on a pendulum. When the weight is released, it swings down and breaks through the bar. An indicator measures how far the pendulum continues to swing after breaking the bar. The momentum of the pendulum is then the measure of the resistance of the material to breaking or penetration.

CM Super Strong shackles, with the lower hardness values, will consistently pull more than a competitor's carbon shackles of the same diameter. CM Super Strong shackles were designed to improve overall load strength and ductility without an increase in shackle diameter.

CM alloy shackles will meet the Charpy Impact Test requirements. Results of this testing show that CM Super Strong shackles greatly exceed the minimum strength requirements.

RESULTS OF COMPARISON TESTING CM SUPER STRONG SHACKLES VERSUS STANDARD CARBON SHACKLES



"Clearly the CM Big Orange® shackles exhibited superior strength and more ductility than the carbon steel shackles of the same nominal section size. While all of the shackles performed above their ratings, the CM Big Orange shackle performance was superior.

The CM Big Orange® shock test results indicated severe deformation occurred but no fracture was present. The carbon steel parts fractured in two tests and were severely cracked in a third test. These results indicate that the CM Big Orange shackle assembly is stronger and more ductile than the carbon steel shackle of the same size. For these reasons, the CM Big Orange shackle provides more extensive deformation prior to fracture. In conclusion, this test demonstrates the superiority of the CM Big Orange shackles when compared to the carbon steel shackles under the shock loaded conditions."

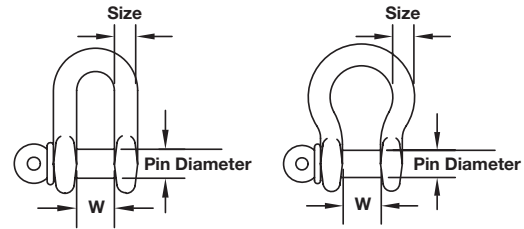
Verified by John Bloodworth, P.E.
Q.C. Metallurgical Laboratory, Inc.

* CM Big Orange® shackles are now referred to as CM Super Strong shackles.

SHACKLE SPECIFICATIONS

DIMENSIONS & WORKING LOAD LIMITS

CM shackles are available in different dimensions with varying working load limits depending on the material they are made of. See the charts below for sizes and working load limits of our alloy, carbon and super strong shackles.



CARBON

| Size (in.) | WLL (tons) | WLL (lbs.) | Pin Dia. (in.) | W dim. (in.) |
|------------|------------|------------|----------------|--------------|
| 3/16 | 1/3 | 667 | 0.25 | 0.38 |
| 1/4 | 1/2 | 1,000 | 0.31 | 0.47 |
| 5/16 | 3/4 | 1,500 | 0.38 | 0.53 |
| 3/8 | 1 | 2,000 | 0.44 | 0.66 |
| 7/16 | 1-1/2 | 3,000 | 0.50 | 0.72 |
| 1/2 | 2 | 4,000 | 0.63 | 0.84 |
| 5/8 | 3-1/4 | 6,500 | 0.75 | 1.06 |
| 3/4 | 4-3/4 | 9,500 | 0.88 | 1.28 |
| 7/8 | 6-1/2 | 13,000 | 1.00 | 1.44 |
| 1 | 8-1/2 | 17,000 | 1.13 | 1.72 |
| 1-1/8 | 9-1/2 | 19,000 | 1.25 | 1.84 |
| 1-1/4 | 12 | 24,000 | 1.38 | 2.03 |
| 1-3/8 | 13-1/2 | 27,000 | 1.50 | 2.25 |
| 1-1/2 | 17 | 34,000 | 1.63 | 2.41 |
| 1-5/8 | 20 | 40,000 | 1.75 | 2.66 |
| 1-3/4 | 25 | 50,000 | 2.00 | 2.94 |
| 2 | 35 | 70,000 | 2.25 | 3.28 |
| 2-1/2 | 55 | 110,000 | 2.75 | 4.13 |
| 3 | 85 | 170,000 | 3.25 | 5.00 |

SUPER STRONG

| Size (in.) | WLL (tons) | WLL (lbs.) | Pin Dia. (in.) | W dim. (in.) |
|------------|------------|------------|----------------|--------------|
| 3/16 | 1/2 | 1,000 | 0.25 | 0.38 |
| 1/4 | 3/4 | 1,500 | 0.31 | 0.47 |
| 5/16 | 1 | 2,000 | 0.38 | 0.53 |
| 3/8 | 1-1/2 | 3,000 | 0.44 | 0.66 |
| 7/16 | 2 | 4,000 | 0.50 | 0.72 |
| 1/2 | 3 | 6,000 | 0.63 | 0.84 |
| 5/8 | 4-1/2 | 9,000 | 0.75 | 1.06 |
| 3/4 | 6-1/2 | 13,000 | 0.88 | 1.28 |
| 7/8 | 8-1/2 | 17,000 | 1.00 | 1.44 |
| 1 | 10 | 20,000 | 1.13 | 1.72 |
| 1-1/8 | 12 | 24,000 | 1.25 | 1.84 |
| 1-1/4 | 14 | 28,000 | 1.38 | 2.03 |
| 1-3/8 | 17 | 34,000 | 1.50 | 2.25 |
| 1-1/2 | 20 | 40,000 | 1.63 | 2.41 |
| 1-5/8 | 24 | 48,000 | 1.75 | 2.66 |
| 1-3/4 | 30 | 60,000 | 2.00 | 2.94 |
| 2 | 35 | 70,000 | 2.25 | 3.28 |
| 2-1/2 | 55 | 110,000 | 2.75 | 4.13 |

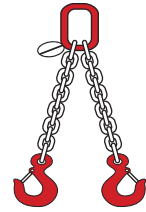
ALLOY

| Size (in.) | WLL (tons) | WLL (lbs.) | Pin Dia. (in.) | W dim. (in.) |
|------------|------------|------------|----------------|--------------|
| 3/8 | 2 | 4,000 | 0.44 | 0.66 |
| 7/16 | 2.6 | 5,200 | 0.50 | 0.72 |
| 1/2 | 3.3 | 6,600 | 0.63 | 0.84 |
| 5/8 | 5 | 10,000 | 0.75 | 1.06 |
| 3/4 | 7 | 14,000 | 0.88 | 1.28 |
| 7/8 | 9.5 | 19,000 | 1.00 | 1.44 |
| 1 | 12.5 | 25,000 | 1.13 | 1.72 |
| 1-1/8 | 15 | 30,000 | 1.25 | 1.84 |
| 1-1/4 | 18 | 36,000 | 1.38 | 2.03 |
| 1-3/8 | 21 | 42,000 | 1.50 | 2.25 |
| 1-1/2* | 25 | 50,000 | 1.63 | 2.41 |
| 1-1/2** | 30 | 60,000 | 1.63 | 2.41 |
| 1-5/8* | 29 | 58,000 | 1.75 | 2.66 |
| 1-5/8** | 35 | 70,000 | 1.75 | 2.66 |
| 1-3/4* | 34 | 68,000 | 2.00 | 2.94 |
| 1-3/4** | 40 | 80,000 | 2.00 | 2.94 |
| 2* | 43 | 86,000 | 2.25 | 3.28 |
| 2** | 50 | 100,000 | 2.25 | 3.28 |
| 2-1/2** | 85 | 170,000 | 2.75 | 4.13 |
| 3** | 120 | 240,000 | 3.25 | 5.00 |
| 3-1/2** | 150 | 300,000 | 3.75 | 5.25 |

* Screw Pin & Round Pin style only
** Bolt, Nut & Cotter style only

RIGGING SOLUTIONS

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CARBON ANCHOR SHACKLES (INDUSTRIAL/GOVERNMENT-RATED)



WORKING LOAD LIMIT: 1/3 TO 85 TONS

CM Industrial/Government-Rated Carbon Shackles are designed with a 6:1 design factor. Anchor shackles can be side loaded or used for multiple connections.

BENEFITS & FEATURES

- Manufactured from technically advanced domestic (U.S.A.) micro alloy steel with optimal hardness for strength and ductility.
- All shackles have alloy quenched and tempered pins
- Working load limit and traceability codes shown as permanent markings on body
- Available in sizes 3/16" to 3"
- Available finishes include powder coated, self-colored or galvanized per ASTM A153
- All bolt, nut & cotter shackles have thread-protected ends
- Shackles meet dimensional, marking and performance requirements of RR-C-271
- Standard industry tolerances apply
- Design factor 6:1 (2-1/2" and 3" carbon shackles have a 5:1 design factor)
- Screw pin & bolt/nut/cotter shackles meet ASME B30.26



Screw Pin



Round Pin

Bolt, Nut & Cotter

▶ DID YOU KNOW?

CM INDUSTRIAL/GOVERNMENT VS. CM SUPER STRONG SHACKLES

An Industrial/Government shackle is a Super Strong shackle de-rated to meet, not exceed, the Federal Specification RR-C-271.

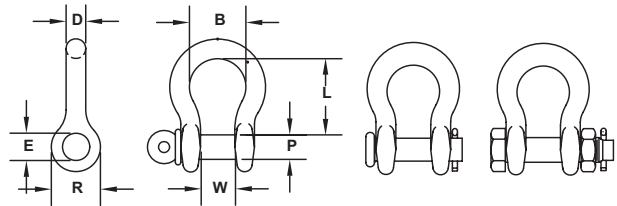
That means it has the same dimensions and performance characteristics as a Super Strong shackle but is marked with specifications to meet government requirements.

Example:

- 1" Super Strong shackle will be marked 10 Ton WLL
- 1" Industrial/Government shackle will be marked 8-1/2 Ton WLL

For more information, visit us at www.cmworks.com

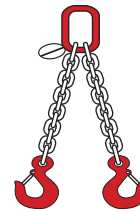
STYLES: Screw Pin, Round Pin, Bolt/Nut/Cotter
FINISHES: Galvanized, Orange Powder Coated



| Size D (in.) | Working Load Limit (Ton) | Std. Pkg. | Weight (lbs.) | Product Code | | | | Dimensions (in.) | | | | | |
|--------------|--------------------------|-----------|---------------|--------------|----------------------|------------|--------------------|------------------|------|------|------|-------|----------|
| | | | | Screw Pin | | Round Pin | Bolt, Nut & Cotter | P | E | W | R | L | B (min.) |
| | | | | Galvanized | Orange Powder Coated | Galvanized | Galvanized | | | | | | |
| 3/16 | 1/3 | 50 | 0.06 | MC645G | - | MC345G | - | 0.25 | 0.29 | 0.38 | 0.57 | 0.88 | 0.58 |
| 1/4 | 1/2 | 50 | 0.12 | MC646G | MC646P | MC346G | MC846G | 0.31 | 0.36 | 0.47 | 0.75 | 1.13 | 0.75 |
| 5/16 | 3/4 | 50 | 0.20 | MC647G | MC647P | MC347G | MC847G | 0.38 | 0.45 | 0.53 | 0.84 | 1.25 | 0.81 |
| 3/8 | 1 | 50 | 0.30 | MC648G | MC648P | MC348G | MC848G | 0.44 | 0.52 | 0.66 | 1.00 | 1.40 | 1.00 |
| 7/16 | 1-1/2 | 50 | 0.50 | MC649G | MC649P | MC349G | MC849G | 0.50 | 0.58 | 0.72 | 1.15 | 1.69 | 1.19 |
| 1/2 | 2 | 50 | 0.75 | MC650G | MC650P | MC350G | MC850G | 0.63 | 0.70 | 0.84 | 1.34 | 1.94 | 1.38 |
| 5/8 | 3-1/4 | 25 | 1.30 | MC651G | MC651P | MC351G | MC851G | 0.75 | 0.83 | 1.06 | 1.66 | 2.41 | 1.63 |
| 3/4 | 4-3/4 | 10 | 2.25 | MC652G | MC652P | MC352G | MC852G | 0.88 | 0.95 | 1.28 | 1.94 | 2.84 | 1.89 |
| 7/8 | 6-1/2 | 10 | 3.50 | MC653G | MC653P | MC353G | MC853G | 1.00 | 1.09 | 1.44 | 2.14 | 3.31 | 2.06 |
| 1 | 8-1/2 | 5 | 5.00 | MC654G | MC654P | MC354G | MC854G | 1.13 | 1.22 | 1.72 | 2.44 | 3.75 | 2.52 |
| 1-1/8 | 9-1/2 | Bulk | 7.00 | MC655G | - | MC355G | MC855G | 1.25 | 1.36 | 1.84 | 2.66 | 4.02 | 2.69 |
| 1-1/4 | 12 | Bulk | 9.00 | MC656G | - | MC356G | MC856G | 1.38 | 1.52 | 2.03 | 3.15 | 4.63 | 2.88 |
| 1-3/8 | 13-1/2 | Bulk | 12.50 | MC666G | - | MC366G | MC866G | 1.50 | 1.65 | 2.25 | 3.25 | 5.19 | 3.25 |
| 1-1/2 | 17 | Bulk | 17.20 | MC657G | - | MC357G | MC857G | 1.63 | 1.77 | 2.41 | 3.50 | 5.63 | 3.50 |
| 1-5/8 | 20 | Bulk | 23.50 | MC685G | - | MC385G | MC885G | 1.75 | 1.88 | 2.66 | 3.91 | 6.13 | 4.13 |
| 1-3/4 | 25 | Bulk | 27.70 | MC677G | - | MC377G | MC877G | 2.00 | 2.13 | 2.94 | 4.06 | 6.97 | 4.75 |
| 2 | 35 | Bulk | 39.00 | M658G | M658P | M358G | - | 2.25 | 2.38 | 3.28 | 4.51 | 7.44 | 5.50 |
| 2-1/2 | 55 | Bulk | 90.00 | - | - | - | MC860G | 2.75 | 2.91 | 4.13 | 6.25 | 10.48 | 6.75 |
| 3 | 85 | Bulk | 138.00 | - | - | - | MC862G | 3.25 | 3.41 | 5.00 | 6.75 | 13.00 | 7.38 |

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WOVEN POLYESTER CABLE-PULLING TAPE

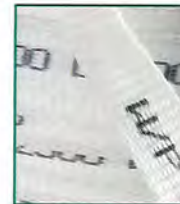
- High tensile strength, low stretch
- Printed sequential footage markings for accurate measurements
- Easily blown through conduits or ducts
- Available with or without detectable tracer wire

Woven Polyester Cable-Pulling Tape

| Part Number | Tensile Strength (lbs.) | Approximate Width (in.) | Length (ft.) | Maximum Reel Length (ft.) |
|-------------|-------------------------|-------------------------|--------------|---------------------------|
| WP12500500 | 1,250 | 1/2 | 500 | 100,000 |
| WP12501000 | 1,250 | 1/2 | 1,000 | 100,000 |
| WP12501500 | 1,250 | 1/2 | 1,500 | 100,000 |
| WP12503000 | 1,250 | 1/2 | 3,000 | 100,000 |
| WP12505000 | 1,250 | 1/2 | 5,000 | 100,000 |
| WP18000500 | 1,800 | 5/8 | 500 | 60,000 |
| WP18001000 | 1,800 | 5/8 | 1,000 | 60,000 |
| WP18001500 | 1,800 | 5/8 | 1,500 | 60,000 |
| WP18003000 | 1,800 | 5/8 | 3,000 | 60,000 |
| WP18005000 | 1,800 | 5/8 | 5,000 | 60,000 |
| WP25000500 | 2,500 | 3/4 | 500 | 45,000 |
| WP25001000 | 2,500 | 3/4 | 1,000 | 45,000 |
| WP25001500 | 2,500 | 3/4 | 1,500 | 45,000 |
| WP25003000 | 2,500 | 3/4 | 3,000 | 45,000 |
| WP25005000 | 2,500 | 3/4 | 5,000 | 45,000 |

Longer lengths available, up to 100,000 ft.

Woven Polyester Cable-Pulling Tape



Detectable Woven Polyester Cable-Pulling Tape



DETECTABLE WOVEN POLYESTER CABLE-PULLING TAPE

- Provides a reliable means of locating cable in conduit
- Sequentially footage marked

Detectable Woven Polyester Pulling Tape - 22 Gauge Conductor

| Part Number | Tensile Strength (lbs.) | Approximate Width (in.) | Length (ft.) | Maximum Reel Length (ft.) |
|-------------|-------------------------|-------------------------|--------------|---------------------------|
| WPD12503000 | 1,250 | 1/2 | 3,000 | 100,000 |
| WPD12505000 | 1,250 | 1/2 | 5,000 | 100,000 |
| WPD18003000 | 1,800 | 5/8 | 3,000 | 60,000 |
| WPD18005000 | 1,800 | 5/8 | 5,000 | 60,000 |
| WPD25003000 | 2,500 | 3/4 | 3,000 | 45,000 |
| WPD25005000 | 2,500 | 3/4 | 5,000 | 45,000 |

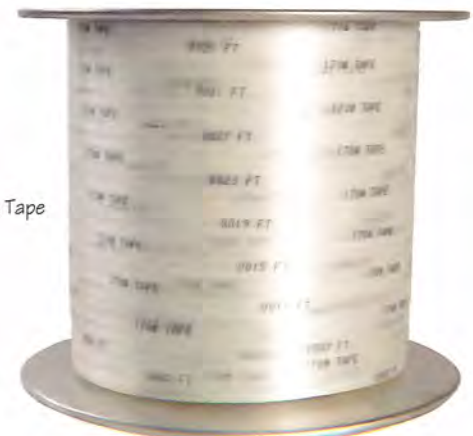
CONDUIT MEASURING TAPE

- Sequential footage marks from 1-3,000 ft.
- Allows for fishing and measuring conduit runs in one easy step

Conduit Measuring Tape

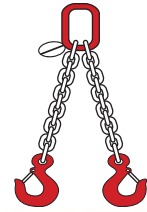
| Part Number | Tensile Strength (lbs.) | Length (ft.) |
|-------------|-------------------------|--------------|
| WPC130 | 130 | 3/16" x 3000 |

Conduit Measuring Tape



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COMPOSITE DOUBLE BRAID*

- High strength, low stretch
- Excellent resistance to UV rays, chemicals, abrasion
- Factory spliced pulling eye at each end

Composite Double Braid

| Part Number | Diameter (inches) | Circumference (inches) | Tensile Strength (lbs.) | Length (ft.) | Lbs. per 100 ft. |
|-------------|-------------------|------------------------|-------------------------|--------------|------------------|
| CDB080600 | 1/4 | 3/4 | 1,550 | 600 | 2 |
| CDB081200 | 1/4 | 3/4 | 1,550 | 1,200 | 2 |
| CDB120600 | 3/8 | 1-1/8 | 5,000 | 600 | 4.5 |
| CDB121200 | 3/8 | 1-1/8 | 5,000 | 1,200 | 4.5 |
| CDB140600 | 7/16 | 1-1/4 | 7,500 | 600 | 6.1 |
| CDB141200 | 7/16 | 1-1/4 | 7,500 | 1,200 | 6.1 |
| CDB160600 | 1/2 | 1-1/2 | 9,500 | 600 | 8.1 |
| CDB161200 | 1/2 | 1-1/2 | 9,500 | 1,200 | 8.1 |
| CDB180600 | 9/16 | 1-3/4 | 16,150 | 600 | 10 |
| CDB181200 | 9/16 | 1-3/4 | 16,150 | 1,200 | 10 |
| CDB200600 | 5/8 | 2 | 18,000 | 600 | 13 |
| CDB201200 | 5/8 | 2 | 18,000 | 1,200 | 13 |
| CDB240600 | 3/4 | 2-1/4 | 26,000 | 600 | 18 |
| CDB241200 | 3/4 | 2-1/4 | 26,000 | 1,200 | 18 |
| CDB280600 | 7/8 | 2-3/4 | 32,000 | 600 | 25 |
| CDB281200 | 7/8 | 2-3/4 | 32,000 | 1,200 | 25 |
| CDB320600 | 1 | 3 | 42,000 | 600 | 32 |
| CDB321200 | 1 | 3 | 42,000 | 1,200 | 32 |

*CUSTOM LENGTHS AVAILABLE UPON REQUEST



Composite Double Braid

TWISTED YELLOW POLYPROPYLENE (Three Strand)

- Very lightweight, economical
- High resistance to chemicals, spliceable

Twisted Polypropylene

| Part Number | Diameter (inches) | Circumference (inches) | Tensile Strength (lbs.) | Length (ft.) | Lbs. per 100 ft. |
|-------------|-------------------|------------------------|-------------------------|--------------|------------------|
| TWPY061200 | 3/16 | 5/8 | 720 | 1,200 | 0.7 |
| TWPY066000 | 3/16 | 5/8 | 720 | 6,000 | 0.7 |
| TWPY081200 | 1/4 | 3/4 | 1,200 | 1,200 | 1.2 |
| TWPY082400 | 1/4 | 3/4 | 1,200 | 2,400 | 1.2 |
| TWPY085000 | 1/4 | 3/4 | 1,200 | 5,000 | 1.2 |
| TWPY121200 | 3/8 | 1-1/8 | 2,440 | 1,200 | 2.8 |
| TWPY122400 | 3/8 | 1-1/8 | 2,440 | 2,400 | 2.8 |
| TWPY123600 | 3/8 | 1-1/8 | 2,440 | 3,600 | 2.8 |

Available up to 2" diameter



Twisted Polypropylene

SPIRAL WRAPPED LIGHT DUTY POLY TWINE

- Ideal for many types of pulls, including pulling rope through conduit
- Will not rot, mildew or rust
- Can be left in conduit for future use
- Ships in plastic pail for ease of use and storage

Spiral Wrapped Light Duty Poly

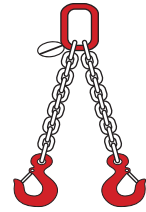
| Part Number | Tensile Strength (lbs.) | Length (ft.) |
|-------------|-------------------------|--------------|
| SRPT6500B | 210 | 6,500 |
| SRPT2200B | 500 | 2,200 |



Spiral Wrapped Light Duty Poly Twine

RIGGING SOLUTIONS

A DIVISION OF INDUSTRIAL MOTOR REPAIR LLC • ALTON, IL



CM[®]

SERIES 653[™]

RATCHET LEVER HOIST

MODEL 653-A

THE ADVANTAGES OF THE SHORTER HANDLE

As part of our commitment to bring best-in-class products to market, we are always innovating and improving on existing CM products. Our popular CM Series 653 ratchet lever hoist has been redesigned to be lighter and more compact for ease of use and even lower headroom applications. With a shorter handle length and optimized weight, the CM Series 653-A 3/4 and 1-1/2 ton models are among the easiest hoists to operate, outmatching competitors in usability and reliability.

EXPERIENCE A MORE COMPACT, MODERN DESIGN.

A shorter handle for more effortless operation.

LESS WEIGHT TO TRANSPORT

Lighter and more compact than the original CM 653 hoist, the 653-A is one of the easiest hoists to carry and operate.

MAKE THE FULL ROTATION

The 360° rotating handle allows for near effortless operation without the worry of obstructions.

BENEFITS & FEATURES

CAPACITIES & LIFT

3/4, 1, 1-1/2, and 2 ton capacities (new shorter handle).
3 & 6 ton capacities (standard handle).
Metric Rated. Standard Lift up to 20 feet.

COMPACT & PORTABLE DESIGN

Take this rugged hoist anywhere. Easily transported and rigged in the smallest work spaces.

FREE CHAINING

Single-handed free chaining feature allows for quick take up and positioning of slack chain. Designed not to accidentally free chain while under load.

360° ROTATING HANDLE

Full rotation of handle allows for versatile rigging options when working in confined spaces.

RUGGED DESIGN

Impact resistant stamped steel frame and gear cover withstands repeated rigorous use.

BUILT TO LAST

Zinc plated hardened steel chain provides strength and longer chain life, translating to less downtime and increased durability.

POSITIVE LOAD CONTROL

Enclosed Weston type load brake stays clean and dry for positive load positioning.

LOAD CONTROL

Double pawl design ensures that one pawl always will be engaged at all times for reliable load control.

SAFE & SECURE

Standard heavy duty forged robust safety latches on hooks provide positive and secure load engagement.

CORROSION RESISTANT

Standard powder coat finish for extra protection against corrosion when working in harsh environments.

NON-SLIP RUBBER HANDLE GRIP

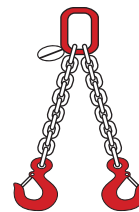
Comfortable rubber grip provides for extra protection against slippage.

MEETS ASME B30.21

5 YEAR WARRANTY

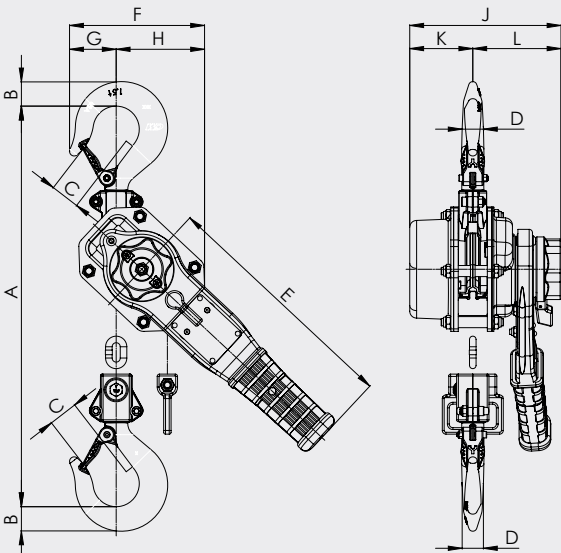
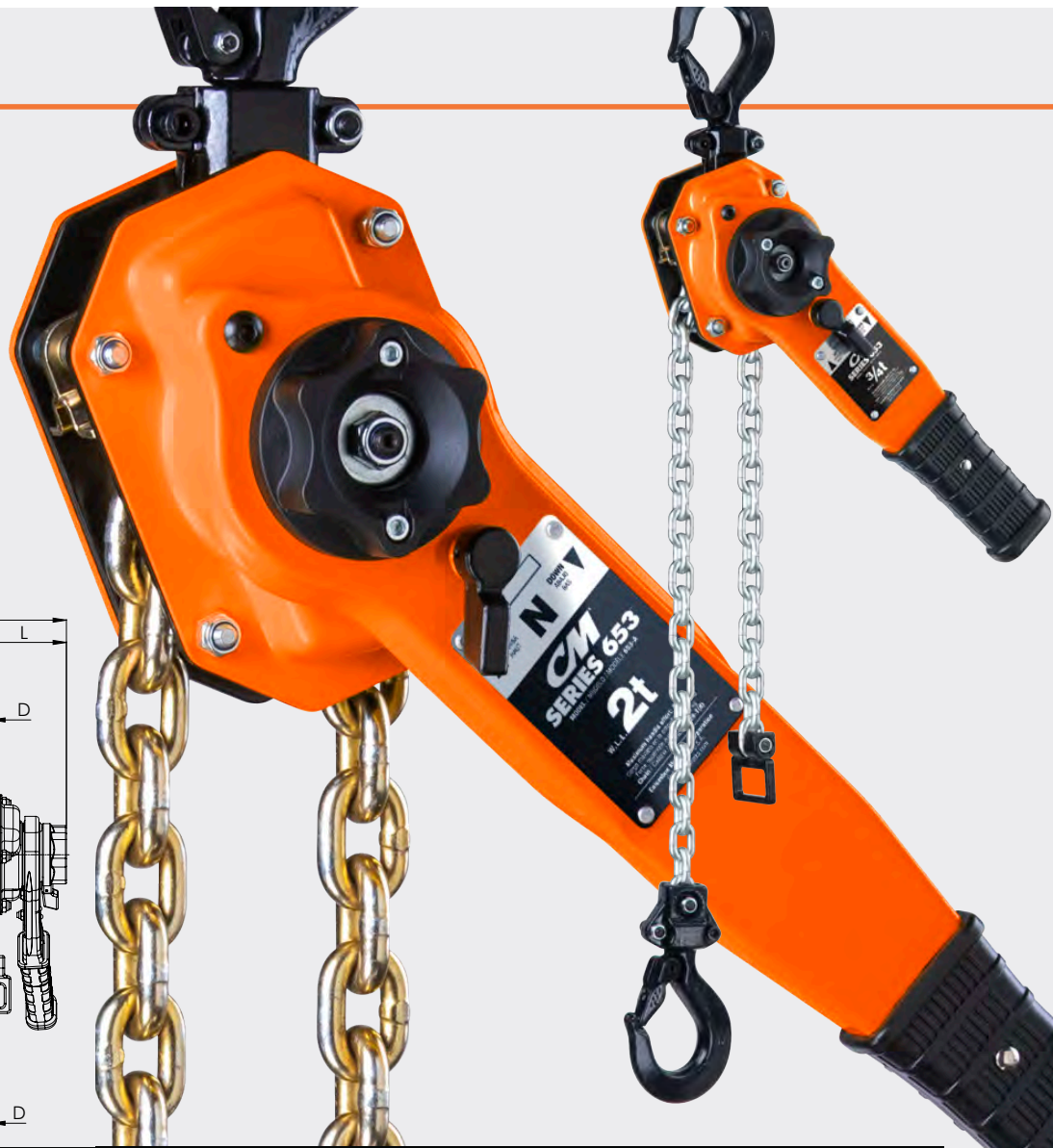
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**FITS IN SMALL
WORK AREAS.**

**LESS WEIGHT
TO TRANSPORT.**

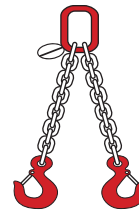


| Capacity (tons) | Product Code | Standard Lift ft. (m) | Pull Force to Lift Rated Load lbf. (kgf) | Reeving | Weight lbs. (kg) | Dimensions in. (mm) | | | | | | | | | | |
|-----------------|--------------|--------------------------|--|---------|---------------------|---------------------|--------------|--------------|--------------|----------------|---------------|--------------|---------------|---------------|--------------|---------------|
| | | | | | | A (Min.) | B | C | D | E | F | G | H | J | K | L |
| 3/4 | 5310A | 5 (1.5) | 51 | 1 | 13.8 (6.26) | 11.78 (302) | 0.78 (20) | 1.05 (27) | 0.7 (18) | 10.41 (267) | 4.72 (121) | 1.56 (40) | 3.16 (81) | 5.62 (144) | 2.07 (53) | 3.55 (91) |
| 3/4 | 5311A | 10 (3) | | | 16.05 (7.28) | | | | | | | | | | | |
| 3/4 | 5312A | 15 (4.5) | | | 18.3 (8.3) | | | | | | | | | | | |
| 3/4 | 5313A | 20 (6) | | | 20.55 (9.32) | | | | | | | | | | | |
| 1 | 5328A | 5 (1.5) | 51 | 1 | 19.84 (9) | 13.50 (343) | 0.87 (22) | 1.14 (29) | 0.75 (19) | 10.51 (267) | 5.47 (139) | 1.69 (43) | 3.78 (96) | 6.46 (164) | 2.68 (68) | 3.78 (96) |
| 1-1/2 | 5315A | 5 (1.5) | 77 | 1 | 20.17 (9.15) | 14.63 (375) | 1.01 (26) | 1.21 (31) | 0.82 (21) | 10.51 (267) | 5.69 (146) | 1.99 (51) | 3.71 (95) | 6.46 (164) | 2.68 (68) | 3.78 (96) |
| 1-1/2 | 5316A | 10 (3) | | | 23.61 (10.71) | | | | | | | | | | | |
| 1-1/2 | 5317A | 15 (4.5) | | | 27.12 (12.3) | | | | | | | | | | | |
| 1-1/2 | 5318A | 20 (6) | | | 30.62 (13.89) | | | | | | | | | | | |
| 2 | 5329A | 5 (1.5) | 58 | 1 | 35.27 (16) | 16.10 (409) | 1.18 (30) | 1.38 (35) | 0.87 (22) | 14.80 (376) | 6.81 (173) | 1.97 (50) | 4.84 (123) | 7.60 (193) | 3.27 (83) | 4.33 (110) |
| 3 | 5320A | 5 (1.5) | 87 | 1 | 37.17 (16.86) | 17.52 (445) | 1.64 (37) | 1.57 (40) | 1.10 (28) | 14.80 (376) | 7.09 (180) | 2.24 (57) | 4.84 (123) | 7.60 (193) | 3.27 (83) | 4.33 (110) |
| 3 | 5321A | 10 (3) | | | 44.29 (20.09) | | | | | | | | | | | |
| 6 | 5330A | 5 (1.5) | | | 62.96 (28.56) | | | | | | | | | | | |
| 6 | 5331A | 10 (3) | 92 | 2 | 77.18 (35.01) | 22.17 (563) | 1.77 (45) | 1.73 (44) | 1.38 (35) | 14.80 (376) | 9.13 (232) | 2.80 (71) | 6.34 (161) | 7.60 (193) | 3.27 (83) | 4.33 (110) |
| 6 | 5332A | 15 (4.5) | | | 91.4 (41.46) | | | | | | | | | | | |
| 6 | 5333A | 20 (6) | | | 105.62 (47.91) | | | | | | | | | | | |

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CM[®] SERIES 622A

OPERATING, MAINTENANCE & PARTS MANUAL

MANUAL DE FUNCIONAMIENTO, MANTENIMIENTO Y PIEZAS

MAUEL D'ENTRETIEN, D'OPÉRATION ET DE PIÈCES

HAND CHAIN HOISTS

POLIPASTOS DE CADENA MANUAL

PALANS À CHAÎNE MANUELLE



**RATED LOADS:
1/2, 1, 2, 3 & 5 TONNE
(500, 1000, 2000, 3000
& 5000 KG.)**

Follow all instructions and warnings for inspecting, maintaining and operating this hoist.

The use of any hoist presents some risk of personal injury or property damage. That risk is greatly increased if proper instructions and warnings are not followed. Before using this hoist, each operator should become thoroughly familiar with all warnings, instructions and recommendations in this manual. **Retain this manual for future reference and use.**

Forward this manual to operator. Failure to operate equipment as directed in manual may cause injury.

**CAPACIDADES DE CARGA:
1/2, 1, 2, 3 Y 5 TONNE
(500, 1000, 2000, 3000
Y 5000 KG.)**

Siga todas las instrucciones y advertencias para inspeccionar, mantener y operar este polipasto.

El uso de cualquier polipasto presenta algunos riesgos de daños a las personas o a las cosas. Este riesgo se ve incrementado si no se siguen correctamente las instrucciones y advertencias. Antes de usar el polipasto el operario debería estar familiarizado con todas las advertencias, instrucciones y recomendaciones de este manual. **Guardé este manual para futuras consultas.**

Entregue este manual al operario. Si el equipo no se maneja tal y como se recomienda en el presente manual, es posible que se produzcan situaciones de peligro que pueden resultar en daños personales.

**CHARGES NOMINALES:
1/2, 1, 2, 3 ET 5 TONNE
(500, 1000, 2000, 3000
ET 5000 KG.)**

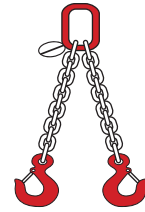
Veillez vous conformer à toutes les instructions et avertissements d'inspection, d'entretien et d'opération de ce palan.

L'utilisation de tout appareil de levage comporte des risques de blessures ou de dégâts matériels. Ces risques sont de beaucoup accrus si les instructions et avertissements ne sont pas suivis. Tous les opérateurs devraient se familiariser complètement avec toutes les recommandations instructions et avertissements de ce manuel avant d'utiliser ce palan. **Conservez ce manuel pour utilisation et référence future.**

Remettez ce manuel à l'opérateur. L'utilisation de cet équipement contrairement aux directives de ce manuel peut causer des blessures.

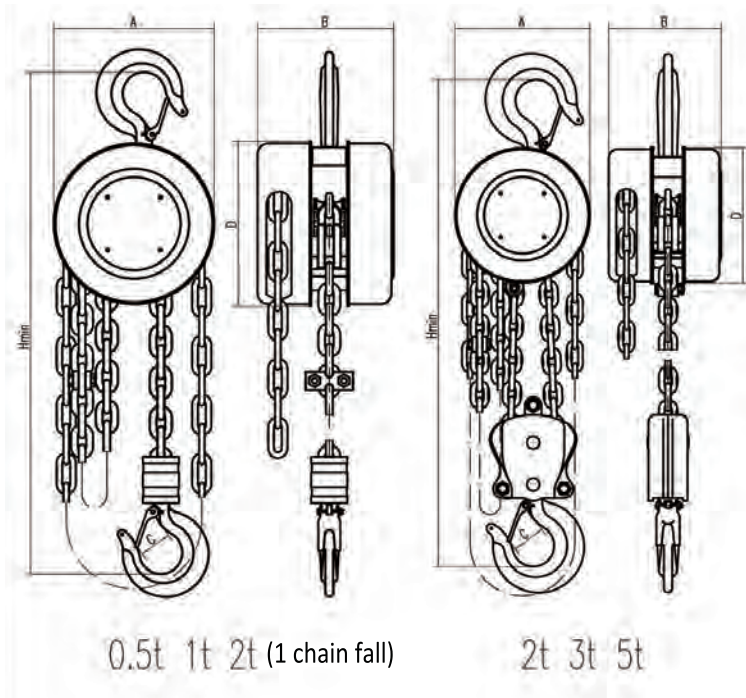
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SAFETY PRECAUTIONS

Each Series 622A Hand Hoist is built in accordance with the specifications contained herein and at the time of manufacture complies with our interpretation of applicable sections of the "American Society of Mechanical Engineers Code B30.16 "Overhead Hoist" and the Occupation Safety and Health Act. The safety laws for elevators and for dumbwaiters may specify construction details that are not necessarily incorporated in CM industrial hoists. We recommend the use of equipment that meets state and national safety codes. Columbus McKinnon Corporation cannot be responsible for applications other than those for which CM equipment is recommended.

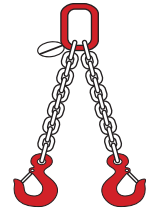


SPECIFICATIONS

| Product Code | Rated Capacity (tons) | Standard Lift ft. (m) | Chain pull to lift rated load lbs. (kg) | Net Weight lbs. (kg) | Headroom inches (mm) | Clearance Dimensions inches (mm) | | | |
|--------------|-----------------------|-----------------------|---|----------------------|----------------------|----------------------------------|-----------|----------|-----------|
| | | | | | | A | B | C | D |
| 2255A | 1/2 | 10 (3) | 50 (23) | 18 (8) | 9.45 (240) | 4.7 (120) | 4.2 (108) | 0.9 (24) | 4.7 (120) |
| 2208A | | 15 (4.5) | | | | | | | |
| 2231A | | 20 (6) | | | | | | | |
| 2263A | | 30 (9) | | | | | | | |
| 2256A | 1 | 10 (3) | 68 (31) | 22 (10) | 10.63 (270) | 5.5 (142) | 4.8 (122) | 1.1 (28) | 5.5 (142) |
| 2210A | | 15 (4.5) | | | | | | | |
| 2262A | | 20 (6) | | | | | | | |
| 2264A | | 30 (9) | | | | | | | |
| 2258A | 2 | 10 (3) | 103 (47) | 35 (16) | 13.66 (347) | 7 (178) | 5.5 (139) | 1.3 (34) | 7 (178) |
| 2213A | | 15 (4.5) | | | | | | | |
| 2233A | | 20 (6) | | | | | | | |
| 2272A | | 30 (9) | | | | | | | |
| 2259A | 3 | 10 (3) | 77 (35) | 53 (24) | 18.5 (470) | 7 (178) | 5.5 (139) | 1.4 (38) | 7 (178) |
| 2223A | | 15 (4.5) | | | | | | | |
| 2214A | | 20 (6) | | | | | | | |
| 2260A | 5 | 10 (3) | 86 (39) | 79 (36) | 23.62 (600) | 8.2 (210) | 6.3 (162) | 1.9 (48) | 8.2 (210) |
| 2257A | | 15 (4.5) | | | | | | | |
| 2234A | | 20 (6) | | | | | | | |

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Standard Features – Stratos Series Full Body Harnesses (2200 series)

- Air-mesh comfort shoulder, back, and leg pads
- Adjustable floating chest strap
- Lanyard retaining rings for lanyard parking
- Quick-connect chest strap
- Most options, accessories, & color choices available

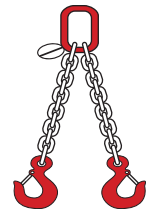


◆◆ 22850B

- 6 point adjustment with comfort waist pad
- Hip Positioning D-rings
- Tongue & grommet leg buckles

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22650
5 point adjustment
Tongue & grommet leg buckles



◆◆ **226509B**
5 point adjustment
Tongue & grommet leg buckles
D-ring extension

◆◆ **22650B**
5 point adjustment
Hip positioning D-rings
Tongue & grommet leg buckles



22670
5 point adjustment
Bayonet leg buckles



22670B
5 point adjustment
Hip positioning D-rings
Bayonet leg buckles



22850
6 point adjustment with waist pad
Tongue & grommet leg buckles



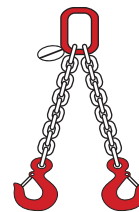
◆◆ **22850B**
6 point adjustment with comfort
waist pad
Hip positioning D-rings
Tongue & grommet leg buckles

◆◆
Denotes QuickShip
Available For Item

QuickSHIP
Product when you need it!

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THE OUTLAW SERIES - SELF RETRACT



Swivel Anchor
Swivels 360° to limit line twisting for smooth operation

Light, Durable Housing
High-strength, light weight housing provides excellent durability

Short Fall Arrest Activation
Unit will stop a fall within inches, reducing fall distances and reducing fall arrest forces to 1,800 lb. or less

Internal Energy Absorption System
Reduces fall arrest forces and minimizes free fall distance should a fall occur.

Weight Capacity
Outlaw series meets:
ANSI requirement 130-310lbs

OSHA requirement 420lbs or less

Impact Indicator
Locking snap with impact indicator allows for visual inspection of the slightest fall into the unit

Lifeline Constituents
Choose the lifeline type to meet the specific needs of your job requirement:
Galvanized Steel
Stainless Steel
Technora® synthetic rope

Meets or Exceed Industry Standards
OSHA Subpart M 1926.502
ANSI A10.32-2012,Z359.14-2014



XR-7W
7' web SRL only
#354-4 (1" opening) steel carabiner
#274 (3/4" opening) locking snap
Class "A" SRL



XR-11G
11' galvanized steel cable SRL
#354-4 (1" opening) steel carabiner
#49 (3/4" opening) locking snap
Class "A" SRL

XR-11SS
11' stainless steel cable SRL

XR-11T
11' Technora® synthetic rope SRL



XR-30G
30' galvanized steel cable SRL
#354-4 (1" opening) steel carabiner
#49 (3/4" opening) locking snap
Class "B" SRL

XR-30SS
30' stainless steel cable SRL

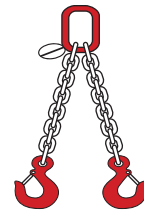
XR-30T
30' Technora® synthetic rope SRL

Non-Leading Edge

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ING LIFELINES



XR-20LEG
Leading Edge SRL
20' galvanized cable only
#354-4 (1" opening) steel carabiner
#49 (3/4" opening) locking snap
Class "B" SRL



XR-30LEG
Leading Edge SRL
30' galvanized cable only
#354-4 (1" opening) steel carabiner
#49 (3/4" opening) locking snap
Class "B" SRL



XR-50LEG
Leading Edge SRL
50' galvanized cable only
#354-4 (1" opening) steel carabiner
#49 (3/4" opening) locking snap
Class "B" SRL



Swivel Anchor Loop
Swivels 360° to limit line twisting for smooth operation.

Light, Durable Housing
High-strength, light weight housing provides excellent durability.

Internal Energy Absorption System
Reduces fall arrest forces and minimizes free fall distance should a fall occur.

Weight Capacity
Outlaw series meets:
ANSI requirement 130-310lbs

OSHA requirement 420lbs or less

Short Fall Arrest Activation
Unit will stop a fall within inches, reducing fall distances and reducing fall arrest forces to 1,800 lb. or less.

Leading Edge Shock Absorber
Shock pack reduces fall arrest forces. Shock pack free-fall limit 6'. Max elongation distance 48".

Impact Indicator
Locking snap with impact indicator allows for visual inspection of the slightest fall into the unit.

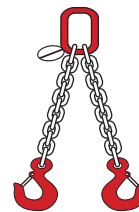
Meets or Exceed Industry Standards
OSHA Subpart M 1926.502
ANSI A10.32-2012, Z359.14-2014

Leading Edge

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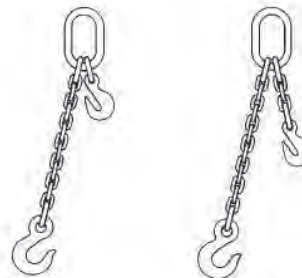
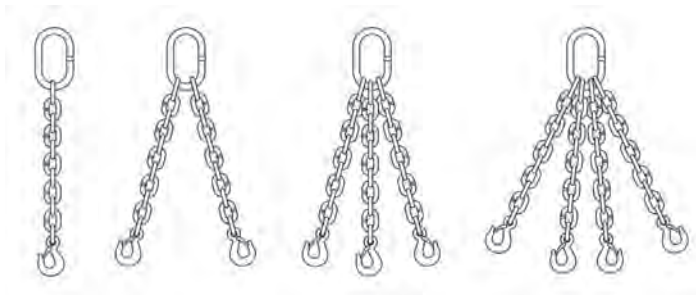
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Number of Legs (Circle One)

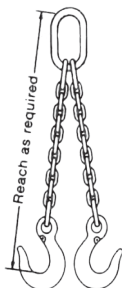
Adjustable Style (Circle One)



Chain Diameter:

WLL: (Working Load Limit)

How to Measure Length



Leg 1 – Length: _____ Ft _____ In
 Adjuster? _____ Length _____
 Leg 2 – Length: _____ Ft _____ In
 Adjuster? _____ Length _____
 Leg 3 – Length: _____ Ft _____ In
 Adjuster? _____ Length _____
 Leg 4 – Length: _____ Ft _____ In
 Adjuster? _____ Length _____

Hook Style: (Circle One)



FOUNDRY HOOK



GRAB HOOK



SHURLOC/LATCHLOK



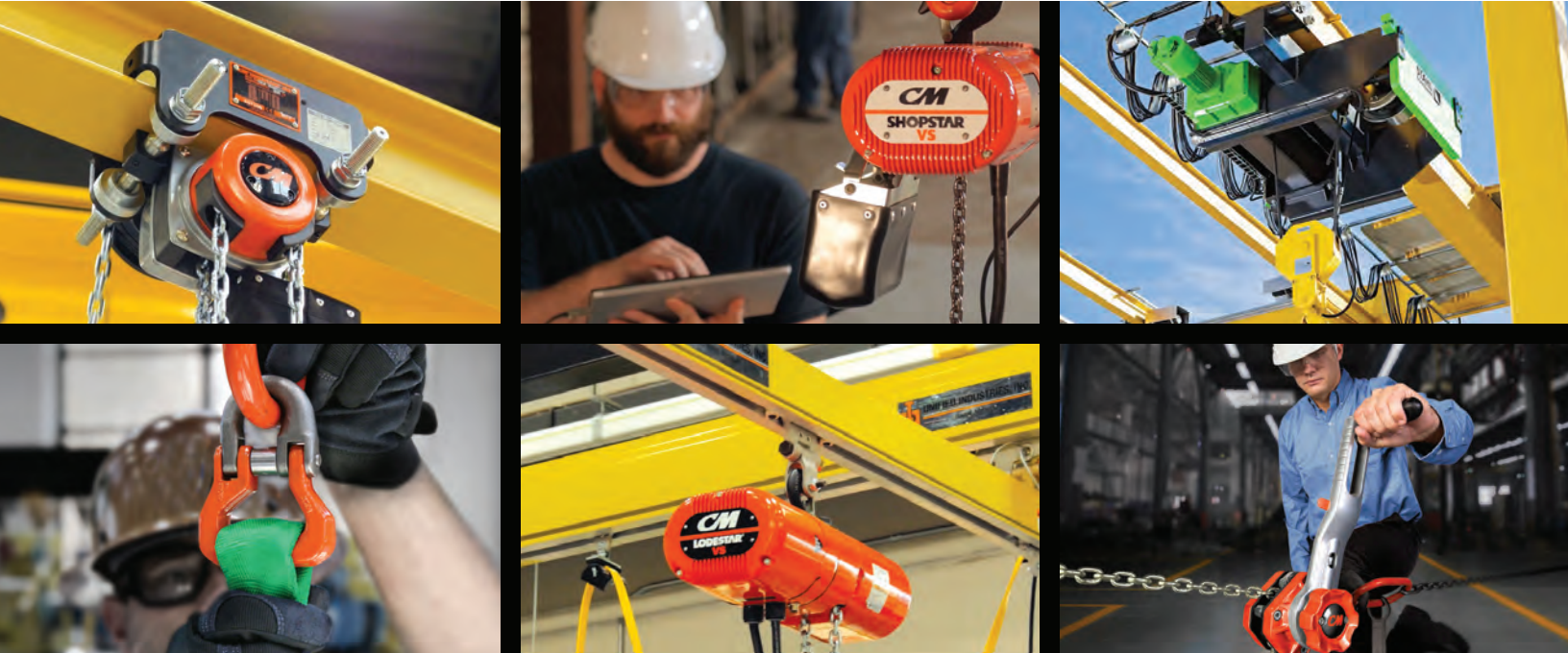
SLING HOOK

INDEX

| | |
|---|-------|
| Wire Rope Design..... | 2 |
| #2 Style Rope Slings | 3 |
| #9 2-Leg Bridle Slings | 4 |
| #10 3-Leg & #11 4-Leg Bridle Slings | 5 |
| Braided Wire Rope Single Leg Slings | 6 |
| Single Rope Legs, Flemish Loop Locks & Chocker Hooks..... | 7 |
| Synthetic Web Slings & Web-Trap Slings..... | 8-9 |
| Domestic Round Slings..... | 10 |
| Quick Connect Hooks | 11 |
| Wire Mesh Slings..... | 12 |
| Chain Mesh Slings..... | 13 |
| Alloy Chain Slings..... | 14 |
| Masterlinks & Sub-Assembly | 15 |
| Hammerlok & Eye Sling Hooks | 16 |
| Grab Hooks & Foundry Hooks | 17 |
| Positive Locking Hooks..... | 18 |
| Swivel Style Positive Locking..... | 19 |
| Shackles..... | 20-21 |
| Pulling Tape | 22 |
| Synthetic Rope..... | 23 |
| Lever Hoist 653 | 24-25 |
| Handchain Hoist 622..... | 26-27 |
| Harnesses | 28-29 |
| Self-Retracting Lifelines | 30-31 |
| Sling Tools | 32 |



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