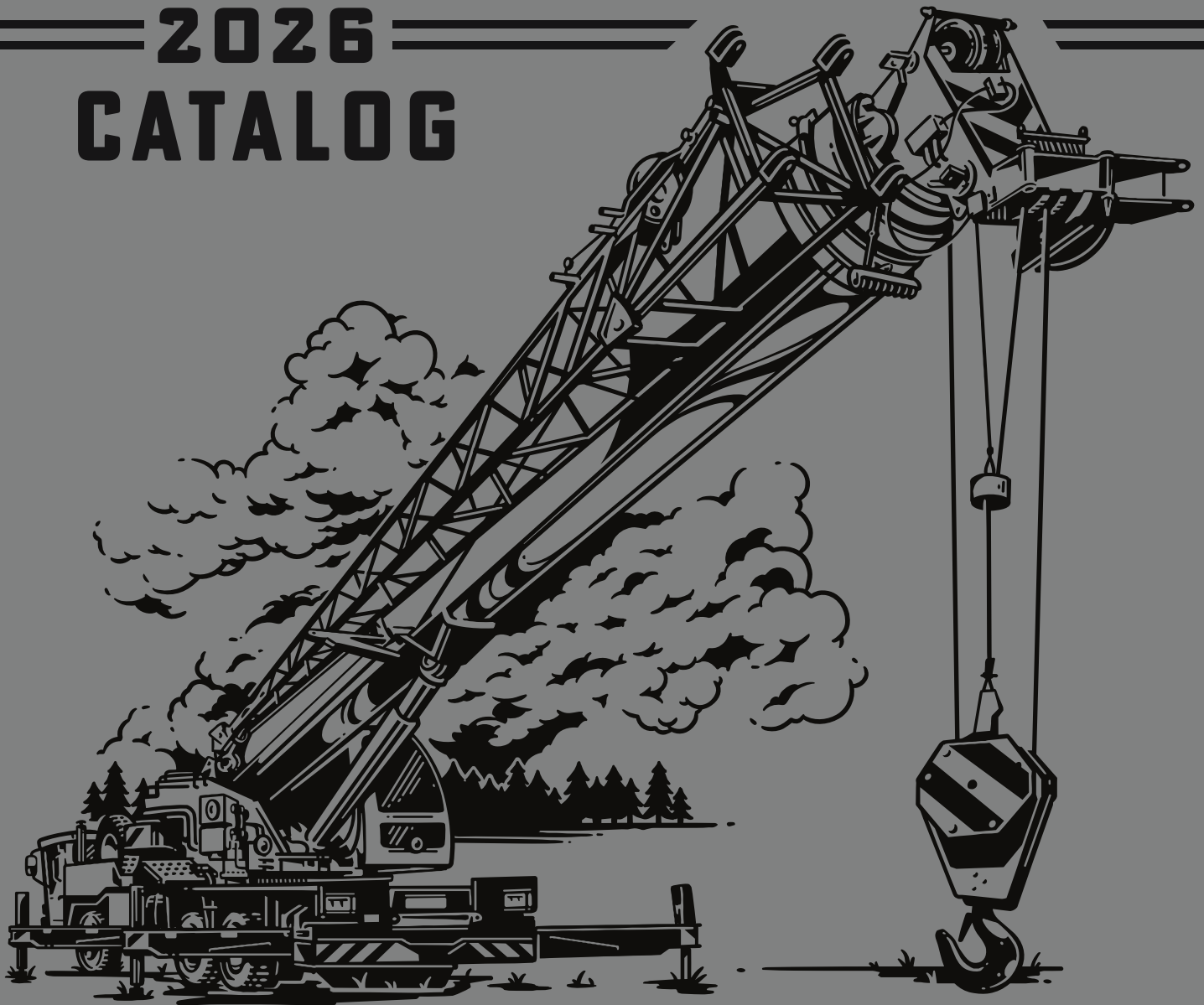


# 2026 CATALOG



**NELSON**  
PA *Wire Rope* US

NELSONWIREROPE.COM

HATFIELD, PA

TEL. 215-721-9333



## 2026 PRODUCT CATALOG



Offering the highest quality products and services for

# LIFTING, MOVING, AND SECURING.

## WARNING

**Do not exceed rated capacity or the angle upon which it is based. A falling load may cause serious injury or death. Inspect every sling for damage before each use.**

### WIRE ROPE

10 randomly distributed broken wires in one rope lay, or 5 in one strand in one lay. Also kinking, crushing, birdcaging, heat damage or corrosion.

### ALLOY CHAIN

Cracks or breaks. Excessive wear, nicks or gouges. Stretched, bent or twisted links. Heat damage. Links that no longer hinge freely.

### SYNTHETIC WEB

Acid or caustic burns. Melting or charring. Holes, tears, cuts or snags. Broken stitching in load-bearing splices. Knots anywhere.

### ROUND SLING

Acid or caustic burns. Heat damage. Holes, tears or cuts in the cover. Any damage exposing the load-bearing core.

**These are removal criteria, not judgement calls.** If a sling meets any of them it comes out of service — there is no “watch it for a while”. Full inspection and removal guidance, hitch types and sling angle factors are in our rigging guide at [nelsonwirerope.com](http://nelsonwirerope.com). Inspection to ASME B30.9 and OSHA 1910.184 is a service we provide; see page 6.



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## ABOUT US

# THREE GENERATIONS. ONE COMMITMENT.

Nelson Wire Rope has been a family business since 1979. Same shop, same family, same standards. We've grown because we don't cut corners: not on product quality, not on service, and not on the people we work with.

## 1979

Founded in Hatfield, Pennsylvania

## 3RD

Generation family ownership

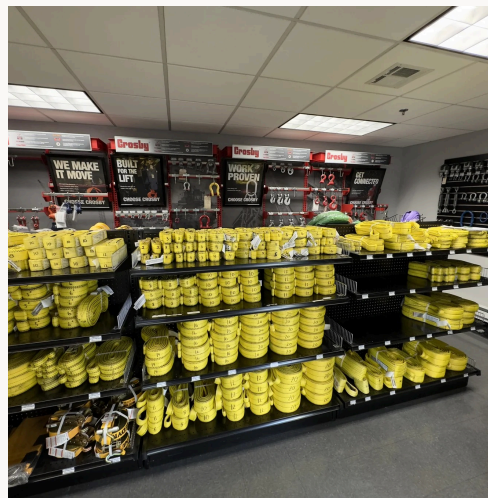
## 45+

Years serving PA, NJ and the nation

## COMPANY HISTORY

Nelson Wire Rope is a third-generation, family-owned business, established in 1979 by **Jack Nelson**. Drawing on his extensive knowledge in the wire rope and steel industry, Jack laid the company's foundation with the crucial support of his sons **Rick** and **David Nelson**, who were just 24 and 22 at the time.

Through hard work and dedication, they grew the business into what Nelson Wire Rope is today, a full-service rigging and lifting supplier trusted across Pennsylvania, New Jersey, and beyond. Rick's sons **Steve** and **Rob Nelson** continue the family legacy as co-owners — and, most importantly, as brothers.



The Hatfield shop floor, where every sling we sell is built and proof tested.

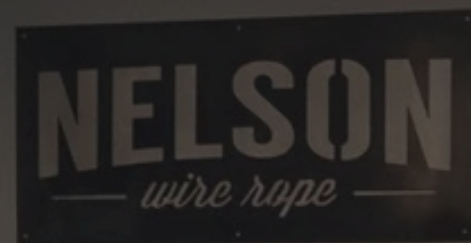
### OUR MISSION

Since 1979, Nelson Wire Rope is committed to manufacturing and distributing the highest quality products made for lifting, moving, and securing. We make no compromises on quality, prioritizing the safety and success of our customers in many industries across the nation. Our mission is to build a stronger, safer America through exceptional service, fair pricing, and a steadfast dedication to quality that empowers our communities and supports the nation's progress.

## SAME SHOP. SAME FAMILY. SAME STANDARDS.

# BUILT HERE. TESTED HERE. TAGGED HERE.

Wire rope slings, chain slings and cable assemblies are fabricated in our Hatfield shop, proof tested to twice their working load limit, and tagged before they leave. Nothing ships on someone else's word.



## AWRF

Accredited fabricator, audit passed April 2024

## ASME B30.9

Every sling proof tested to 2× WLL

## SAME DAY

Most stocked items ship the day you call

# RIGGING INSPECTIONS

Periodic and pre-use inspection of slings, hardware and lifting devices by qualified personnel at an AWRP-accredited fabricator — on your site anywhere in the country, or in our Hatfield facility.

## WHAT WE INSPECT, AND TO WHAT

We inspect to **ASME B30.9**, **B30.10** and **OSHA 1910.184**. Every item is examined, recorded and tagged, and you get written records for the whole lot — the documentation an auditor asks for, not just a verbal pass.

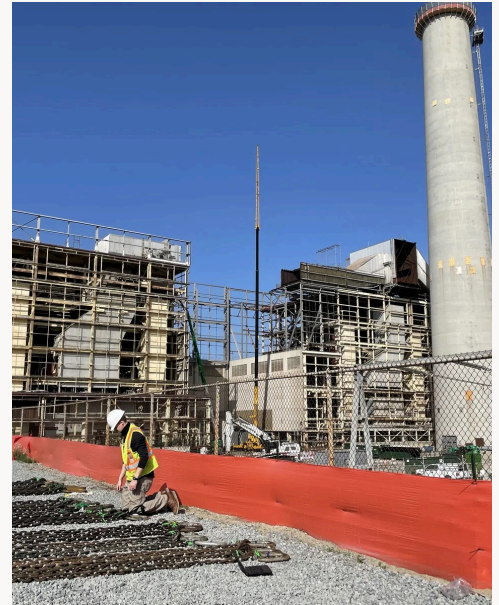
Rigging wears out in service. Wire rope takes broken wires and corrosion, chain stretches, synthetic slings cut and abrade. The point of a periodic inspection is to find that before a load does.

### How to size the job

One inspector gets through roughly **80 to 100 pieces a day**, so a plant with four hundred pieces is about a week of one person's time, or less with more inspectors on site. No minimum job size.

### When something fails

A failed item is tagged out and pulled from service on the spot. We tell you what failed and why, quote the repair or the replacement, and re-certify it when the work is done — so the gap between finding a problem and closing it is measured in days, not months.



### COVERED

- Wire rope, chain and synthetic slings
- Shackles, hooks and rings
- Below-the-hook devices
- Hoists, clamps and trolleys

### Written records, every time

Each piece is tagged and logged. You keep the report; we keep a copy, so the next inspection picks up where this one left off.

### Nationwide on site

California, Louisiana, Tennessee, Alabama, West Virginia, the Carolinas, Virginia, Mississippi and up and down the mid-Atlantic.

**FIND IT IN THE SHOP, NOT ON THE HOOK.**



# IN-HOUSE RIGGING REPAIR

Repair and re-certification of wire rope, chain and synthetic slings and lifting devices — at your site or in our shop. Everything we repair is tested before it goes back to work.



Chain sling stripped down for re-build and proof test.

## REPAIRED, TESTED, TAGGED

Our repair technicians handle a wide range of equipment, on site or at our facility. After repair we test everything against the applicable **OSHA, ASME** and manufacturer's standards, and re-tag it — so what comes back is documented, not just fixed.

Several leading manufacturers recognise our team for hoist and plate clamp repair specifically. If you are not sure whether something is worth repairing or replacing, send us a photo and we will tell you straight.

### EQUIPMENT WE REPAIR AND RE-CERTIFY

- |                     |                                 |
|---------------------|---------------------------------|
| — Wire rope slings  | — Lifting devices               |
| — Chain slings      | — Plate clamps                  |
| — Metal mesh slings | — Manual lever hoists           |
| — Web slings        | — Chain falls                   |
| — Round slings      | — Electric and air hoists       |
| — Rigging hardware  | — Hydraulic cylinders and pumps |

**DONE RIGHT THE FIRST TIME, AND TESTED TO PROVE IT.**

# LOAD & PROOF TESTING

Proof load testing to 250,000 lbs in our Hatfield shop, and 10 tons on site anywhere in the country. Static proof tests and cycle testing to your specification, with a serialized certificate for every test.

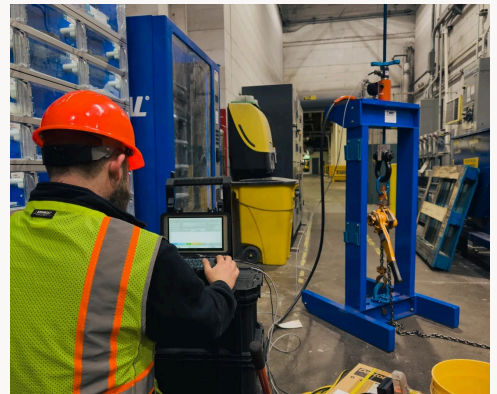
## IN THE SHOP

We test our own fabricated products and other manufacturers' equipment alike: product verification, break testing, and load capacity on custom and repaired assemblies. Every test comes with a **Certificate of Testing**.

All testing equipment is calibrated annually to **ASTM E-4**, holding **±1% accuracy**.

## OR WE COME TO YOU

Taking equipment off site slows down the work. Our fully portable tester reaches awkward places and handles 10 tons — enough for hoists, rigging hardware and shorter slings — with the same certificate and the same calibration behind it.



Shop bed and the portable 10-ton tester.

|                               |                                      |                                             |                                        |
|-------------------------------|--------------------------------------|---------------------------------------------|----------------------------------------|
| <b>250,000 lbs</b><br>In shop | <b>10 tons</b><br>Mobile, nationwide | <b>±1%</b><br>ASTM E-4, calibrated annually | <b>Serialized</b><br>Every certificate |
|-------------------------------|--------------------------------------|---------------------------------------------|----------------------------------------|

**A RATING IS A CLAIM. A PROOF TEST IS EVIDENCE.**



# TRAINING & JOB-SITE DELIVERY

## RIGGING AWARENESS TRAINING

On-site and classroom programs for riggers, operators, signal persons and safety personnel, taught by our own trainers. We cover proper use, inspection criteria, load dynamics and regulatory requirements, tailored to your team and your equipment.

That can be a toolbox talk aimed at one problem, a half-day session, or a full hands-on rigging course. Sessions are taught by **Steve Nelson**, third-generation co-owner, who has completed the rigging training programs run by The Crosby Group and Peerless.

### WHAT WE COVER

- Rigger and signal person training
- Sling selection, use and care
- Load dynamics and angle factors
- OSHA and ASME regulatory compliance



Customer safety day, Hatfield.



## JOB-SITE DELIVERY

When UPS, FedEx or an LTL carrier cannot meet the requirement, we deliver direct to the job site — on time, to the place you actually need it. Our service area covers **New Jersey, Delaware and Pennsylvania east of Harrisburg**. Most stocked items ship the same day from Hatfield; call and we will confirm what is on the shelf.

### Call

(215) 721-9333  
Monday–Friday, 7:00 AM–4:00 PM

### Email

[sales@nelsonwirerope.com](mailto:sales@nelsonwirerope.com)

### Visit

3051 Penn Street, Hatfield, PA  
19440  
[nelsonwirerope.com](http://nelsonwirerope.com)

**CALL (215) 721-9333. WE WILL TELL YOU WHAT IS ON THE SHELF.**

6X19 CLASS & 6X36 CLASS WIRE ROPE

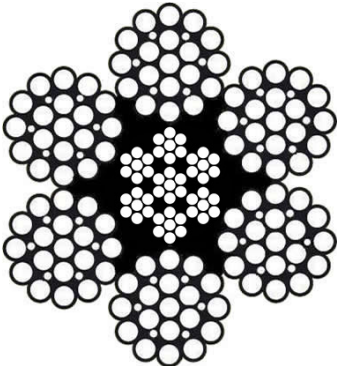
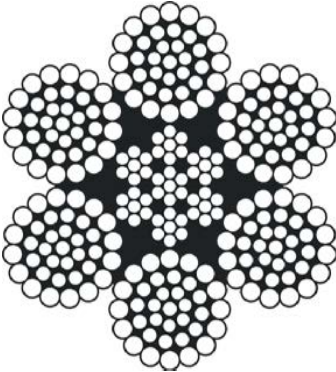
6x19 classification ropes provide an outstanding balance between fatigue and wear resistance. They give excellent service with sheaves and drums of moderate size. 6x36 classification ropes are more flexible but less abrasion resistant than the 6x19 classification. Each strand contains multiple small diameter wires. As the number of wires increases, flexibility increases. Fiber core rope provides increased flexibility over IWRC. While the strength is lower than IWRC, the flexibility may be preferred in certain applications.

Features

- Abrasion resistant
- Crush resistant
- Fatigue resistant
- No swivel
- Right lay
- Lubricated
- Multi layer spooling

Options

- Stainless Steel
- Galvanized
- Left Lay

| 6X19 CLASS IWRC                                                                    | 6X36 CLASS IWRC                                                                      |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |

| Diameter in Inches | Approximate Weight Per Foot in Pounds | Minimum Breaking Force (tons of 2,000 lbs.) |       |      |
|--------------------|---------------------------------------|---------------------------------------------|-------|------|
|                    |                                       | IP                                          | XIP   | XXIP |
| 1/4                | 0.116                                 | 2.94                                        | 3.40  | -    |
| 5/16               | 0.18                                  | 4.58                                        | 5.27  | -    |
| 3/8                | 0.26                                  | 6.56                                        | 7.55  | 8.30 |
| 7/16               | 0.35                                  | 8.89                                        | 10.2  | 11.2 |
| 1/2                | 0.46                                  | 11.5                                        | 13.3  | 14.6 |
| 9/16               | 0.59                                  | 14.5                                        | 16.8  | 18.5 |
| 5/8                | 0.72                                  | 17.9                                        | 20.6  | 22.7 |
| 3/4                | 1.04                                  | 25.6                                        | 29.4  | 32.4 |
| 7/8                | 1.42                                  | 34.6                                        | 39.8  | 43.8 |
| 1                  | 1.85                                  | 44.9                                        | 51.7  | 56.9 |
| 1 1/8              | 2.34                                  | 56.5                                        | 65.0  | 71.5 |
| 1 1/4              | 2.89                                  | 69.4                                        | 79.9  | 87.9 |
| 1 3/8              | 3.50                                  | 83.5                                        | 96.0  | 106  |
| 1 1/2              | 4.16                                  | 98.9                                        | 114.0 | 125  |
| 1 5/8              | 4.88                                  | 115                                         | 132   | 146  |
| 1 3/4              | 5.67                                  | 133                                         | 153   | 169  |
| 1 7/8              | 6.50                                  | 152                                         | 174   | 192  |
| 2                  | 7.39                                  | 172                                         | 198   | 217  |
| 2 1/8              | 8.35                                  | 192                                         | 221   | 243  |
| 2 1/4              | 9.36                                  | 215                                         | 247   | 272  |

## 7X7 GALVANIZED AIRCRAFT CABLE

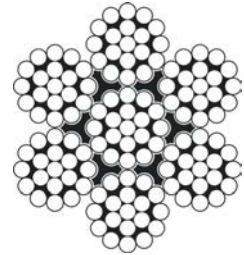
- Conforms to U.S. Federal Specification RR-W-410H
- Small diameter 7x7 cable is great for use on pulleys and general use when diameters are needed smaller than available in 7x19 construction
- Zinc (galvanized) coated steel wire rope is the most common type of wire rope. It offers moderate corrosion resistance, and remains ductile over long periods when running over sheaves. Galvanized cable is stronger than stainless steel cable.
- Can be cut in custom lengths from 1 ft to 5,000 ft



| Stock Number | Rope Diameter (in.) | Length on Reel (ft.) | Approximate Weight Per Reel (lbs.) | Nominal Breaking Strength (lbs.) |
|--------------|---------------------|----------------------|------------------------------------|----------------------------------|
| 300-22       | 1/16                | 250                  | 2                                  | 480                              |
| 300-24       | 1/16                | 500                  | 4                                  | 480                              |
| 300-26       | 1/16                | 1000                 | 8                                  | 480                              |
| 300-32       | 3/32                | 250                  | 4                                  | 920                              |
| 300-34       | 3/32                | 500                  | 8                                  | 920                              |
| 300-36       | 3/32                | 1000                 | 16                                 | 920                              |
| 300-42       | 1/8                 | 250                  | 7                                  | 1,700                            |
| 300-44       | 1/8                 | 500                  | 14                                 | 1,700                            |
| 300-46       | 1/8                 | 1000                 | 28                                 | 1,700                            |

## 7X19 GALVANIZED AIRCRAFT CABLE

- Conforms to U.S. Federal Specification RR-W-410H
- Commonly used on small diameter pulleys, running rigging on sailboats, perimeter barriers, winches and control cables. 7x19 is the best all around cable for most applications.
- Zinc (galvanized) coated steel cable is the most common type of cable. It offers moderate corrosion resistance, and remains ductile over long periods when running over sheaves. Galvanized cable is stronger than stainless steel cable.
- Can be cut in custom lengths from 1 ft to 5,000 ft



| Stock Number | Rope Diameter (in.) | Length on Reel (ft.) | Approximate Weight Per Reel (lbs.) | Nominal Breaking Strength (lbs.) |
|--------------|---------------------|----------------------|------------------------------------|----------------------------------|
| 300-62       | 3/32                | 250                  | 4                                  | 1,000                            |
| 300-64       | 3/32                | 500                  | 9                                  | 1,000                            |
| 300-66       | 3/32                | 1000                 | 17                                 | 1,000                            |
| 300-72       | 1/8                 | 250                  | 7                                  | 2,000                            |
| 300-74       | 1/8                 | 500                  | 15                                 | 2,000                            |
| 300-76       | 1/8                 | 1000                 | 29                                 | 2,000                            |
| 300-92       | 3/16                | 250                  | 16                                 | 4,200                            |
| 300-94       | 3/16                | 500                  | 33                                 | 4,200                            |
| 300-96       | 3/16                | 1000                 | 65                                 | 4,200                            |
| 300-112      | 1/4                 | 250                  | 28                                 | 7,000                            |
| 300-114      | 1/4                 | 500                  | 55                                 | 7,000                            |
| 300-116      | 1/4                 | 1000                 | 110                                | 7,000                            |
| 300-122      | 5/16                | 250                  | 43                                 | 9,800                            |
| 300-124      | 5/16                | 500                  | 87                                 | 9,800                            |
| 300-126      | 5/16                | 1000                 | 173                                | 9,800                            |
| 300-131      | 3/8                 | 250                  | 61                                 | 14,400                           |
| 300-132      | 3/8                 | 500                  | 122                                | 14,400                           |
| 300-133      | 3/8                 | 1000                 | 243                                | 14,400                           |

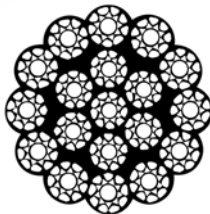
## FLEX-X 19

Flex-X 19, a Category 2 rotation resistant rope, is made from 19 strands. Six strands are laid around a core strand in one direction, and then 12 strands are laid around this first operation in the opposite direction. Because of its tightly compacted smooth design, Flex-X 19 offers more crushing resistance than standard 19 x 7 rope, higher strength- to-diameter, resistance to bending fatigue, exceptional stability, reduced wear to sheaves and drums, and improved handling, operating and spooling characteristics.

Flex-X 19 has also demonstrated greater fatigue resistance to substantially cut rope expense and extend service life. It's ideal for multipart hoist lines wherever you encounter spooling problems, drum crushing, block twisting or have fast line speeds.

### Features

- More crushing resistance than standard 19x7
- Higher strength-to-diameter resistance to bending fatigue
- Exceptional stability
- No swivel
- Compacted
- Right lay
- Lubricated
- Multi layer spooling



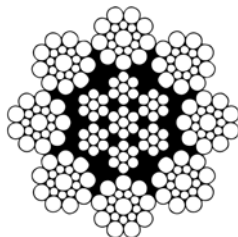
| Wire Rope Diameter |      | Approximate Weight<br>Per Foot in Pounds | Nominal Breaking<br>Strength in Tons |
|--------------------|------|------------------------------------------|--------------------------------------|
| in.                | mm   |                                          |                                      |
| 7/16               | 11   | 0.43                                     | 11.2                                 |
| 1/2                | 13   | 0.49                                     | 14.6                                 |
| 9/16               | 14.5 | 0.65                                     | 18.5                                 |
| 5/8                | 16   | 0.78                                     | 22.7                                 |
| 3/4                | 19   | 1.16                                     | 32.4                                 |
| 7/8                | 22   | 1.58                                     | 43.8                                 |
| 1                  | 26   | 2.05                                     | 56.9                                 |
| 1 1/8              | 29   | 2.57                                     | 71.5                                 |
| 1 1/4              | 32   | 3.31                                     | 87.9                                 |
| 1-3/8              | 35   | 4.01                                     | 106.0                                |
| 1-1/2              | 38   | 4.77                                     | 125.0                                |

## 8X19

Standard constructions are regular lay and either 19 Seale or 25 Filler Wire. The size relationship between strands and cores gives these ropes increased bendability over six strand ropes of the same diameter. The 8x19 has more crushing resistance and a higher minimum breaking force than 19x7, but less rotation resistance. An 8x19 class rope can be used in multi-part reeving where limited rotation resistance is required.

### Features

- Increased Bendability
- Crush resistant
- Fatigue resistant
- No swivel
- Right lay
- Lubricated
- Multi layer spooling



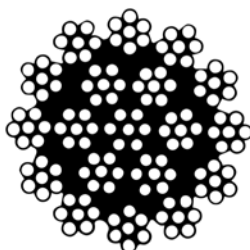
| Rope Diameter<br>in Inches | Approximate Weight<br>Per Foot in Pounds | Nominal Breaking<br>Strength in Tons |
|----------------------------|------------------------------------------|--------------------------------------|
| 7/16                       | .36                                      | 8.97                                 |
| 1/2                        | .47                                      | 11.6                                 |
| 9/16                       | .60                                      | 14.7                                 |
| 5/8                        | .73                                      | 18.1                                 |
| 3/4                        | 1.06                                     | 25.9                                 |
| 7/8                        | 1.44                                     | 35.0                                 |
| 1                          | 1.88                                     | 45.5                                 |
| 1 1/8                      | 2.39                                     | 57.3                                 |
| 1 1/4                      | 2.94                                     | 70.5                                 |

## 19X7

In an application where a single-part hoist rope is used to lift a free load – or where rotation-resistant properties are essential for rope performance – the 19x7 can be used. Its rotation-resistant characteristic is achieved by laying six strands around a core strand in one direction, then laying 12 strands around the first operation in the opposite direction. When the rope is in tension, opposing rotational forces are created between the inner and outer layers.

### Features

- No swivel
- Right lay
- Lubricated
- Multi layer spooling



| Rope Diameter<br>in Inches | Approximate Weight<br>Per Foot in Pounds | Nominal Breaking<br>Strength in Tons |
|----------------------------|------------------------------------------|--------------------------------------|
| 1/4                        | .113                                     | 2.77                                 |
| 5/16                       | .177                                     | 4.3                                  |
| 3/8                        | .25                                      | 6.15                                 |
| 7/16                       | .35                                      | 8.33                                 |
| 1/2                        | .45                                      | 10.8                                 |
| 9/16                       | .58                                      | 13.6                                 |
| 5/8                        | .71                                      | 16.8                                 |
| 3/4                        | 1.02                                     | 24.0                                 |
| 7/8                        | 1.39                                     | 32.5                                 |
| 1                          | 1.82                                     | 42.2                                 |
| 1 1/8                      | 2.30                                     | 53.1                                 |
| 1 1/4                      | 2.83                                     | 65.1                                 |



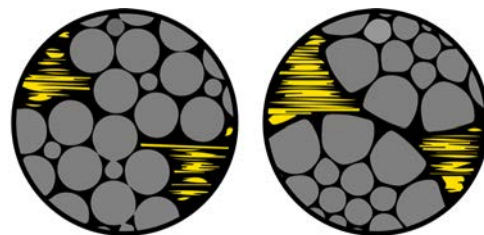
## FLEX-X 6

Flex-X 6 users receive superior performance and increased service life in many applications compared to the ropes they had previously employed. When compared to conventional six strand ropes, Flex-X 6 ropes provide greater surface area and more steel per given diameter. This increases rope stability and strength. This results in a longer service life and less sheave and drum wear.

## FLEX-X 9

Flex-X 9 features compacted strands and swaging for extra drum crushing resistance and increased stability. Its high density strands deliver extra strength and resistance to abrasion. Flex-X 9 is manufactured with a dual compaction process to produce a compact cross-section with minimum voids and greater surface area on outer wires that contact drums, sheaves and the rope during operation. The high-density compacted strands minimize nicking at strand-to-strand contact points. Flex-X 9 was specifically designed for boom hoist applications where drum crushing is a challenge.

Flex-X designs reduce drum scrubbing between the lead line and the previous wrap. The smooth contact creates less interference, less metal loss and wire deformation. The increased surface area of Flex-X can be seen in the comparison of the contact points of a standard 6x26WS and Flex-X as shown.



| FLEX-X 6 | FLEX-X 9 |
|----------|----------|
|          |          |

| Rope Diameter<br>in Inches | FLEX-X 6                                 |                                      | FLEX-X 9                                 |                                      |
|----------------------------|------------------------------------------|--------------------------------------|------------------------------------------|--------------------------------------|
|                            | Approximate Weight<br>Per Foot in Pounds | Nominal Breaking<br>Strength in Tons | Approximate Weight<br>Per Foot in Pounds | Nominal Breaking<br>Strength in Tons |
| 3/8                        | .32                                      | 8.8                                  | -                                        | -                                    |
| 7/16                       | .41                                      | 11.9                                 | -                                        | -                                    |
| 1/2                        | .55                                      | 15.3                                 | -                                        | -                                    |
| 9/16                       | .70                                      | 19.3                                 | -                                        | -                                    |
| 5/8                        | .86                                      | 22.7                                 | .95                                      | 26.2                                 |
| 3/4                        | 1.25                                     | 32.4                                 | 1.35                                     | 37.4                                 |
| 7/8                        | 1.67                                     | 43.8                                 | 1.85                                     | 50.6                                 |
| 1                          | 2.18                                     | 56.9                                 | 2.40                                     | 65.7                                 |
| 1 1/8                      | 2.71                                     | 71.5                                 | 3.05                                     | 82.7                                 |



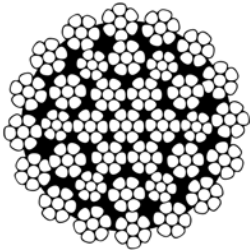


## CASAR STARLIFT PLUS

A very flexible rope with a core in a special design avoiding crossovers between the strands of core and preventing internal rope destruction. Hoist rope for mobile cranes, electrical hoists and other applications, where rotation resistant ropes are required.

### Features

- Temperature range of use: -50°C to +75°C
- Suitable for multilayer spooling in Lang's lay
- Available in ordinary lay and Lang's lay
- Available in right hand and left hand
- Available in galvanized and ungalvanized



- Compacted
- Swivel
- Lubricated

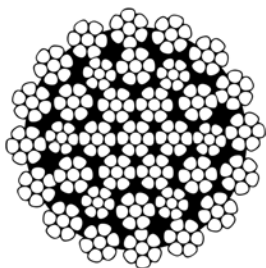
| Wire Rope Diameter |        | Approximate Weight |        | 1960 N/mm <sup>2</sup> |               | 2160 N/mm <sup>2</sup> |               |
|--------------------|--------|--------------------|--------|------------------------|---------------|------------------------|---------------|
| mm                 | inches | kg/m               | lbs/ft | (kN)                   | t [2000 lbs.] | (kN)                   | t [2000 lbs.] |
| 10                 | -      | 0,50               | 0.34   | 92,0                   | 10.34         | 98,0                   | 11.02         |
| 11                 | 7/16   | 0,61               | 0.41   | 111,0                  | 12.48         | 119,0                  | 13.38         |
| 12                 | -      | 0,73               | 0.49   | 132,0                  | 14.84         | 144,0                  | 16.19         |
| -                  | 1/2    | 0,81               | 0.55   | 147,8                  | 16.61         | 161,3                  | 18.13         |
| 13                 | -      | 0,85               | 0.57   | 155,0                  | 17.42         | 169,0                  | 19.00         |
| 14                 | -      | 0,99               | 0.67   | 179,0                  | 20.12         | 195,0                  | 21.92         |
| 15                 | -      | 1,13               | 0.76   | 206,0                  | 23.16         | 225,0                  | 25.29         |
| 16                 | 5/8    | 1,29               | 0.87   | 235,0                  | 26.42         | 257,0                  | 28.89         |
| 17                 | -      | 1,46               | 0.98   | 261,0                  | 29.34         | 285,0                  | 32.04         |
| 18                 | -      | 1,63               | 1.09   | 298,0                  | 33.50         | 325,0                  | 36.53         |
| 19                 | 3/4    | 1,81               | 1.22   | 329,0                  | 36.98         | 359,0                  | 40.53         |
| 20                 | -      | 2,02               | 1.36   | 367,0                  | 41.25         | 401,0                  | 45.07         |
| 21                 | -      | 2,23               | 1.50   | 402,0                  | 45.19         | 439,0                  | 49.35         |
| 22                 | -      | 2,44               | 1.64   | 442,0                  | 49.68         | 483,0                  | 54.29         |
| -                  | 7/8    | 2,48               | 1.67   | 451,1                  | 50.71         | 492,9                  | 55.40         |
| 23                 | -      | 2,68               | 1.80   | 483,0                  | 54.29         | 527,0                  | 59.24         |
| 24                 | -      | 2,90               | 1.95   | 525,0                  | 59.01         | 573,0                  | 64.41         |
| 25                 | -      | 3,14               | 2.11   | 571,0                  | 64.18         | 623,0                  | 70.03         |
| -                  | 1      | 3,25               | 2.18   | 589,4                  | 66.25         | 643,1                  | 72.29         |
| 26                 | -      | 3,42               | 2.30   | 615,0                  | 69.13         | 671,0                  | 75.42         |
| 27                 | -      | 3,68               | 2.47   | 669,0                  | 75.20         | 730,0                  | 82.06         |
| 28                 | -      | 3,95               | 2.65   | 719,0                  | 80.82         | 784,0                  | 88.13         |
| -                  | 1 1/8  | 4,11               | 2.76   | 748,8                  | 84.17         | 816,5                  | 91.78         |
| 29                 | -      | 4,26               | 2.86   | 768,0                  | 86.33         | 838,0                  | 94.19         |
| 30                 | -      | 4,55               | 3.05   | 827,0                  | 92.96         | 903,0                  | 101.50        |
| 31                 | -      | 4,85               | 3.26   | 879,0                  | 98.80         | 959,0                  | 107.80        |
| 32                 | 1 1/4  | 5,17               | 3.47   | 934,0                  | 104.99        | 1.019,0                | 114.54        |
| 33                 | -      | 5,49               | 3.69   | 1.003,0                | 112.74        | 1.095,0                | 123.08        |
| 34                 | -      | 5,83               | 3.92   | 1.054,0                | 118.47        | 1.150,0                | 129.27        |
| 35                 | 1 3/8  | 6,19               | 4.16   | 1.116,5                | 125.50        | 1.218,2                | 136.93        |
| 36                 | -      | 6,54               | 4.40   | 1.187,0                | 133.42        | 1.296,0                | 145.68        |
| 38                 | 1 1/2  | 7,31               | 4.91   | 1.322,0                | 148.60        | 1.443,0                | 162.20        |
| 40                 | -      | 8,06               | 5.41   | 1.467,0                | 164.90        | 1.601,0                | 179.96        |
| -                  | 1 5/8  | 8,58               | 5.77   | 1.562,0                | 175.58        | 1.704,7                | 191.61        |
| 42                 | -      | 8,87               | 5.96   | 1.616,0                | 181.65        | 1.764,0                | 198.28        |
| 44                 | -      | 9,77               | 6.56   | 1.770,0                | 198.96        | 1.932,0                | 217.17        |
| -                  | 1 3/4  | 9,97               | 6.70   | 1.806,4                | 203.05        | 1.971,7                | 221.63        |
| 46                 | -      | 10,68              | 7.18   | 1.935,0                | 217.50        | 2.112,0                | 237.40        |
| 48                 | 1 7/8  | 11,58              | 7.78   | 2.115,0                | 237.74        | 2.309,0                | 259.54        |
| 50                 | -      | 12,61              | 8.48   | 2.297,0                | 258.19        | 2.507,0                | 281.80        |
| -                  | 2      | 12,99              | 8.73   | 2.371,0                | 266.51        | 2.587,9                | 290.89        |
| 52                 | -      | 13,61              | 9.14   | 2.486,0                | 279.44        | 2.713,0                | 304.95        |
| 54                 | 2 1/8  | 14,70              | 9.88   | 2.695,0                | 302.93        | 2.941,0                | 330.58        |
| 56                 | -      | 15,81              | 10.62  | 2.879,0                | 323.61        | 3.142,0                | 353.17        |



## CASAR STARLIFT XTRA

The latest high performance rotation-resistant rope designed and manufactured by CASAR Germany, a member of WireCo WorldGroup.

CASAR® Starlift Xtra™, the new high performance rotation resistant rope, was added to the CASAR product range to meet the highest Minimum Breaking Forces requested in the crane rope market. CASAR Starlift Xtra provides the user unique characteristics as a hoist rope.



### Features

- Temperature range of use: -50°C to +75°C
- Suitable for multilayer spooling in Lang's lay
- Available in ordinary lay and Lang's lay
- Available in right hand and left hand
- Available in galvanized and ungalvanized

### Rotation Resistance (Non-Rotating)

The balanced design of CASAR Starlift Xtra results in minimal torque under load, providing superior rotation resistance. Under a normal working load range, CASAR Starlift Xtra has virtually no tendency to rotate, making it ideal for both single-part and multi-part hoist systems and also for those involving long falls where rotation resistance is required.

CASAR Starlift Xtra meets both the Category 1 requirements according to ASTM A1023 and the general guidance on the use of a swivel given in Annex A ISO 21669. Due to its superior rotation resistant properties, CASAR Starlift Xtra may be used with a swivel.

### Resistance to Wear

The multi-strand design of CASAR Starlift Xtra combined with compacted strands and lang lay construction helps to maximize resistance to wear by greatly increasing wire and strand surface areas that contact sheaves and drums. Internally, the enhanced surfaces of the compacted strands help minimize strand-to-strand nicking between strand layers. This feature results in greater resistance to fatigue.

### Resistance to Crushing and Abrasion on Drums

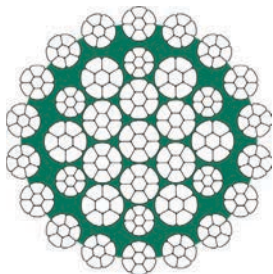
The characteristics of CASAR Starlift Xtra enhance its performance in multiple-layer spooling as well. The design of CASAR Starlift Xtra provides excellent resistance to both abrasion and scrubbing that occurs at kickover areas and crushing that occurs at the crossover points in multiple-layer drum spooling. The rope construction combined with the compacted strand design of CASAR Starlift Xtra results in a rope cross-section of very high density. These features provide increased resistance to drum-related wear.

| Wire Rope Diameter |       | Approximate Weight |        | Minimum Breaking force |               |
|--------------------|-------|--------------------|--------|------------------------|---------------|
| mm                 | in    | kg/m               | lbs/ft | (kN)                   | t [2000 lbs.] |
| 14                 | -     | 0,99               | 0.67   | 208,0                  | 23.38         |
| 15                 | -     | 1,13               | 0.76   | 235,0                  | 26.42         |
| 16                 | 5/8   | 1,34               | 0.90   | 272,0                  | 30.57         |
| 17                 | -     | 1,46               | 0.98   | 302,0                  | 33.95         |
| 18                 | -     | 1,63               | 1.09   | 340,0                  | 38.22         |
| 19                 | 3/4   | 1,87               | 1.26   | 382,0                  | 42.94         |
| 20                 | -     | 2,02               | 1.36   | 421,0                  | 47.32         |
| 21                 | -     | 2,23               | 1.50   | 460,0                  | 51.71         |
| 22                 | -     | 2,44               | 1.64   | 509,0                  | 57.21         |
| -                  | 7/8   | 2,48               | 1.67   | 519,5                  | 58.39         |
| -                  | 1     | 3,25               | 2.18   | 675,0                  | 75.87         |
| 26                 | -     | 3,42               | 2.30   | 705,0                  | 79.25         |
| 27                 | -     | 3,68               | 2.47   | 757,0                  | 85.09         |
| 28                 | -     | 4,04               | 2.71   | 815,0                  | 91.61         |
| -                  | 1 1/8 | 4,21               | 2.83   | 848,8                  | 95.41         |
| 30                 | -     | 4,78               | 3.21   | 934,0                  | 104.99        |
| 32                 | -     | 5,29               | 3.55   | 1.085,0                | 121.96        |

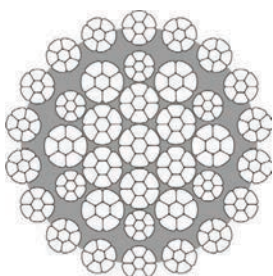


## OLIVEIRA NR MAXIPACT

All cranes and performant lifting devices where non-rotating and high MBL ropes are required.  
Recommended for offshore, deck cranes and marine environment.



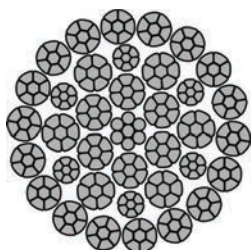
Oliveira NR Maxipact PPI



Oliveira NR Maxipact

- Temperature range of use: -50°C to +100°C
- Temperature range of use for option PPI: -50°C to +80°C
- Option PPI – only available for diameter  $\geq 13\text{mm}$
- Please add 1.0% on the weight for ropes with PPI
- Available in ordinary lay and Lang's lay
- Available in right hand and left hand

| Diameter |        | Approximate Weight |         | 1960 N/mm <sup>2</sup> |               | 2160 N/mm <sup>2</sup> |               |
|----------|--------|--------------------|---------|------------------------|---------------|------------------------|---------------|
| mm       | inches | kg/m               | lbs/ft. | kN                     | t [2000 lbs.] | kN                     | t [2000 lbs.] |
| 12.70    | 1/2    | 0,77               | 0.52    | 148,0                  | 16.64         | 155,9                  | 17.52         |
| 13       | -      | 0,82               | 0.55    | 157,8                  | 17.73         | 165,7                  | 18.62         |
| 14       | -      | 0,95               | 0.64    | 183,3                  | 20.60         | 192,5                  | 21.63         |
| 15       | -      | 1,09               | 0.73    | 209,6                  | 23.56         | 220,6                  | 24.80         |
| 15.88    | 5/8    | 1,20               | 0.81    | 230,0                  | 25.85         | 241,0                  | 27.09         |
| 16       | -      | 1,25               | 0.84    | 239,4                  | 26.91         | 251,4                  | 28.26         |
| 17       | -      | 1,40               | 0.94    | 269,7                  | 30.32         | 283,4                  | 31.86         |
| 18       | -      | 1,57               | 1.06    | 302,5                  | 34.01         | 317,7                  | 35.71         |
| 19       | 3/4    | 1,76               | 1.18    | 338,9                  | 38.09         | 355,9                  | 40.00         |
| 20       | -      | 1,94               | 1.30    | 374,2                  | 42.06         | 393,0                  | 44.17         |
| 21       | -      | 2,13               | 1.43    | 412,2                  | 46.33         | 432,9                  | 48.65         |
| 22       | -      | 2,34               | 1.57    | 452,0                  | 50.81         | 474,7                  | 53.35         |
| 22.23    | 7/8    | 2,37               | 1.59    | 458,0                  | 51.48         | 481,0                  | 54.07         |
| 23       | -      | 2,56               | 1.72    | 494,8                  | 55.62         | 519,6                  | 58.41         |
| 24       | -      | 2,79               | 1.87    | 540,3                  | 60.73         | 567,4                  | 63.78         |
| 25       | -      | 3,04               | 2.04    | 587,1                  | 65.99         | 616,6                  | 69.30         |
| 25.40    | 1      | 3,08               | 2.07    | 595,4                  | 66.93         | 625,3                  | 70.29         |
| 26       | -      | 3,27               | 2.20    | 634,2                  | 71.29         | 666,1                  | 74.87         |
| 27       | -      | 3,54               | 2.38    | 683,6                  | 76.84         | 717,9                  | 80.69         |
| 28       | -      | 3,80               | 2.55    | 734,0                  | 82.51         | 770,9                  | 86.65         |
| 28.58    | 1 1/8  | 3,98               | 2.67    | 768,3                  | 86.36         | 806,8                  | 90.69         |
| 29       | -      | 4,07               | 2.73    | 790,0                  | 88.80         | 824,4                  | 92.67         |
| 30       | -      | 4,39               | 2.95    | 846,3                  | 95.13         | 888,8                  | 99.90         |
| 31.75    | 1 1/4  | 4,84               | 3.25    | 930,0                  | 104.54        | 975,0                  | 109.59        |
| 32       | -      | 4,98               | 3.34    | 959,6                  | 107.87        | 1.007,8                | 113.28        |
| 34       | -      | 5,59               | 3.75    | 1.079,3                | 121.32        | 1.133,0                | 127.35        |
| 34.93    | 1 3/8  | 5,94               | 3.99    | 1.146,8                | 128.91        | 1.202,0                | 135.11        |
| 36       | -      | 6,31               | 4.24    | 1.221,5                | 137.30        | 1.282,8                | 144.19        |
| 38       | 1 1/2  | 7,01               | 4.71    | 1.352,4                | 152.01        | 1.418,4                | 159.43        |
| 40       | -      | 7,74               | 5.20    | 1.495,0                | 168.05        | 1.569,0                | 176.36        |
| 41.28    | 1 5/8  | 8,30               | 5.58    | 1.602,1                | 180.08        | 1.682,5                | 189.12        |
| 42       | -      | 8,52               | 5.72    | 1.645,2                | 184.92        | 1.730,0                | 194.46        |
| 44       | -      | 9,37               | 6.30    | 1.818,6                | 204.42        | 1.909,9                | 214.46        |
| 44.45    | 1 3/4  | 9,51               | 6.39    | 1.838,6                | 206.67        | 1.928,2                | 216.74        |
| 46       | -      | 10,33              | 6.94    | 1.995,7                | 224.33        | 2.095,8                | 235.58        |
| 47.63    | 1 7/8  | 10,86              | 7.29    | 2.095,0                | 235.49        | 2.190,0                | 246.17        |
| 48       | -      | 11,32              | 7.61    | 2.184,3                | 245.52        | 2.293,9                | 257.84        |
| 50       | -      | 12,03              | 8.09    | 2.331,7                | 262,10        | 2,451.2                | 275.52        |
| 50.80    | 2      | 12,42              | 8.34    | 2.400,1                | 269,78        | 2,517.2                | 282.93        |



## ENDURANCE DYFORM

### Resistance to rotation

Greatest resistance to rotation of all ropes in the rotation-resistant product range  
— confirmed by Bridon's unique Twistcheck testing program.

### Resistance to bending fatigue

Longer bend-fatigue life when compared with conventional rotation-resistant ropes  
— confirmed by laboratory testing and extensive field experience.

### Resistance to crushing

Excellent resistance to crushing and abrasion due to the rope's compact design and the Dyform strands  
— recommended when multi-layer spooling is involved.

### Reduced elongation

Increased steel content and the Dyform process minimize elongation.

### Long service life

Exceptional performance means less down time and more work time.

### Benefits:

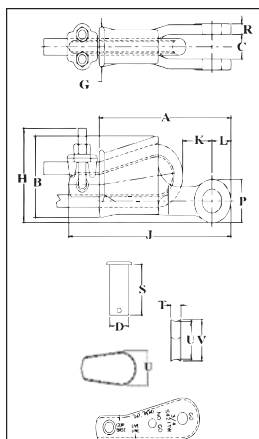
- Plastic impregnated
- Extends fatigue life
- Improves structural stability - Resists corrosion
- Low rotation
- Recommended for high lifting operations
- High strength
- Reduced rope sheave wear
- Accurate diameter, recommended for multi-layer spooling
- Suitable for single part and multi-part reeving
- Long service life
- Resistance to bending fatigue
- Reduced elongation

| Diameter |    | Approximate Weight | Minimum Breaking Force (tons) |            |       |       |
|----------|----|--------------------|-------------------------------|------------|-------|-------|
| inches   | mm | lbs/ft.            | 34 LR 1960                    | 34 LR 2160 | 34XL  | 34MAX |
| 1/2      | -  | 0.54               | 16.5                          | 18.0       | -     | -     |
| -        | 13 | 0.57               | 17.3                          | 18.7       | -     | -     |
| -        | 14 | 0.65               | 20.1                          | 21.5       | -     | -     |
| 9/16     | -  | 0.68               | 20.8                          | 22.7       | -     | -     |
| 5/8      | 16 | 0.84               | 26.1                          | 28.2       | 30.6  | -     |
| -        | 18 | 1.07               | 33.5                          | 35.9       | -     | -     |
| 3/4      | 19 | 1.21               | 37.0                          | 40.0       | 42.9  | -     |
| -        | 20 | 1.32               | 41.6                          | 44.6       | -     | -     |
| -        | 21 | 1.51               | 45.0                          | 48.6       | -     | -     |
| -        | 22 | 1.61               | 49.7                          | 54.2       | -     | -     |
| 7/8      | -  | 1.65               | 50.4                          | 54.8       | -     | -     |
| -        | 23 | 1.75               | 54.0                          | 56.9       | -     | -     |
| -        | 24 | 1.92               | 59.3                          | 64.0       | -     | -     |
| 1        | -  | 2.15               | 62.4                          | 70.0       | 71.7  | 76.9  |
| -        | 26 | 2.28               | 69.5                          | 74.0       | 74.0  | 79.3  |
| -        | 28 | 2.63               | 76.0                          | 82.6       | 84.4  | 91.6  |
| 1 1/8    | -  | 2.73               | 79.5                          | 83.6       | 86.9  | 92.7  |
| -        | 29 | 2.94               | -                             | -          | 93.2  | -     |
| -        | 30 | 3.07               | 92.5                          | 94.0       | -     | 105.0 |
| 1 1/4    | 32 | 3.37               | 98.2                          | 110.2      | 110.2 | 122.0 |



### S-421T

Wedge sockets meet the performance requirements of Federal Specification RR-S-550E, Type C, except those provisions required of the contractor.



## Crosby

### S-421T WEDGE SOCKETS

(Assembly includes Socket, Wedge, Pin and Wire Rope Clip)

- Wedge socket terminations have an efficiency rating of 80% based on the catalog strength of XXIP wire rope.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these sockets meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Type Approval certification in accordance with ABS 2007 Steel Vessel Rules 1-11-17.7 and ABS Guide for Certification on Cranes available. Certificates available when requested at time of order and may include additional charges.
- Basket is cast steel and individually magnetic particle inspected.
- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.
- Secures the tail or "dead end" of the wire rope to the wedge, thus eliminates loss or "Punch out" of the wedge.
- Eliminates the need for an extra piece of rope, and is easily installed.
- The TERMINATOR™ wedge eliminates the potential breaking off of the tail due to fatigue.
- The tail, which is secured by the base of the clip and the wedge, is left undeformed and available for reuse.
- Incorporates Crosby's patented QUIC-CHECK® "Go" and "No-Go" feature cast into the wedge. The proper size rope is determined when the following criteria are met:
  - 1) The wire rope should pass thru the "Go" hole in the wedge.
  - 2) The wire rope should NOT pass thru the "No-Go" hole in the wedge.
- Utilizes standard Crosby Red-U-Bolt® wire rope clip.
- The 3/8 through 1-1/8 standard S-421 wedge socket can be retrofitted with the new style TERMINATOR wedge.
- **Available with Bolt, Nut, and Cotter Pin.**
- U.S. patent 5,553,360, Canada patent 2,217,004 and foreign equivalents.
- Meets the performance requirements of EN 13411-6: 2003.

| Wire Rope Dia. |       | S-421T Stock No. | Weight Each (lbs.) | Wedge Only | Weight Each (lbs.) | API 2C Bolt, Nut & Cotter Assy | Standard Bolt, Nut & Cotter Assy | Weight Each (lbs.) |
|----------------|-------|------------------|--------------------|------------|--------------------|--------------------------------|----------------------------------|--------------------|
| (in.)          | (mm)  |                  |                    |            |                    |                                |                                  |                    |
| 3/8            | 9-10  | 1035000          | 3.18               | 1035555    | .50                | 1092230                        | 2038971                          | .38                |
| 1/2            | 11-13 | 1035009          | 6.15               | 1035564    | 1.05               | 1092248                        | 2038974                          | .69                |
| 5/8            | 14-16 | 1035018          | 9.70               | 1035573    | 1.79               | 1092257                        | 2038976                          | 1.15               |
| 3/4            | 18-19 | 1035027          | 14.50              | 1035582    | 2.60               | 1092293                        | 2038978                          | 1.91               |
| 7/8            | 20-22 | 1035036          | 21.50              | 1035591    | 4.00               | 1092319                        | 2038980                          | 3.23               |
| 1              | 24-26 | 1035045          | 30.75              | 1035600    | 5.37               | 1092337                        | 2038982                          | 5.40               |
| 1-1/8          | 28    | 1035054          | 45.30              | 1035609    | 7.30               | 1092364                        | 2038984                          | 7.50               |
| 1-1/4          | 30-32 | 1035063          | 64.90              | 1035618    | 10.60              | 1092375                        | 2038971                          | 10.34              |

| Wire Rope Dia. |       | S-421T<br>Stock No. | Dimensions (in.) |      |                 |      |      |      |       |      |      |      |      |      |      |      |      |
|----------------|-------|---------------------|------------------|------|-----------------|------|------|------|-------|------|------|------|------|------|------|------|------|
| (in.)          | (mm)  |                     | A                | B    | C<br>+/-<br>.09 | D    | G    | H    | J*    | K*   | L    | P    | R    | S    | T    | U    | V    |
| 3/8            | 9-10  | 1035000             | 5.69             | 2.72 | .81             | .81  | 1.38 | 3.06 | 7.80  | 1.88 | .88  | 1.56 | .44  | 2.13 | .44  | 1.25 | 1.38 |
| 1/2            | 11-13 | 1035009             | 6.88             | 3.47 | 1.00            | 1.00 | 1.62 | 3.76 | 8.91  | 1.26 | 1.06 | 1.94 | .50  | 2.56 | .53  | 1.75 | 1.88 |
| 5/8            | 14-16 | 1035018             | 8.25             | 4.30 | 1.25            | 1.19 | 2.12 | 4.47 | 10.75 | 1.99 | 1.22 | 2.25 | .56  | 3.25 | .69  | 2.00 | 2.19 |
| 3/4            | 18-19 | 1035027             | 9.88             | 5.12 | 1.50            | 1.38 | 2.44 | 5.28 | 12.36 | 2.41 | 1.40 | 2.63 | .66  | 3.63 | .78  | 2.34 | 2.56 |
| 7/8            | 20-22 | 1035036             | 11.25            | 5.85 | 1.75            | 1.63 | 2.69 | 6.16 | 14.37 | 2.48 | 1.67 | 3.13 | .75  | 4.31 | .88  | 2.69 | 2.94 |
| 1              | 24-26 | 1035045             | 12.81            | 6.32 | 2.00            | 2.00 | 2.94 | 6.96 | 16.29 | 3.04 | 2.00 | 3.75 | .88  | 4.70 | 1.03 | 2.88 | 3.28 |
| 1-1/8          | 28    | 1035054             | 14.38            | 6.92 | 2.25            | 2.25 | 3.31 | 7.62 | 18.34 | 2.56 | 2.25 | 4.25 | 1.00 | 5.44 | 1.10 | 3.25 | 3.56 |
| 1-1/4          | 30-32 | 1035063             | 16.34            | 8.73 | 2.62            | 2.50 | 3.56 | 9.39 | 20.48 | 2.94 | 2.34 | 4.50 | 1.06 | 6.13 | 1.19 | 4.62 | 4.94 |

\* Nominal NOTE: For intermediate wire rope sizes, use next larger size socket. The S-423T Super TERMINATOR wedge is designed to be assembled only into the Crosby S-421T TERMINATOR socket body. IMPORTANT: The S-423TW for sizes 5/8" through 1-1/8" (14mm through 28mm) will fit respective size standard Crosby S-421T basket. The 1-1/4" (30-32mm) S-423TW will only fit the Crosby S-421T 1-1/4" basket marked with TERMINATOR.





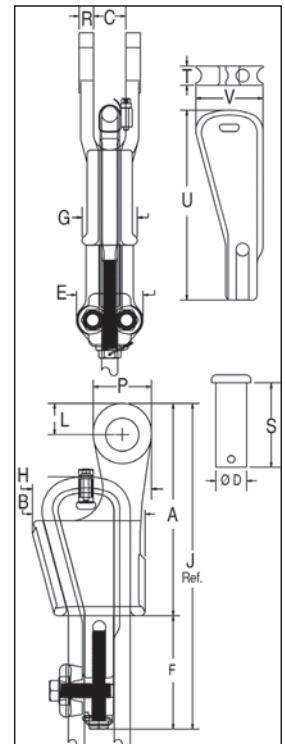
## S-423T WEDGE SOCKETS

(Assembly includes Socket, Wedge, Pin, Wire Rope Clip, Tensioner, Bolts and Secondary Retention Wire)

- The 423T wedge socket terminations have a minimum efficiency rating on most high performance, high strength, compacted strand, rotation resistant wire ropes of 80% based on the catalog breaking strength of the various ropes.\*\*
- Design eliminates the difficulty of properly seating the wedge with high performance wire rope into a wedge socket termination.
- Proper application of the Super TERMINATOR eliminates the "first load" requirement of conventional wedge socket terminations.
- S-423TW Wedge Kit can be retrofitted onto existing Crosby S-421T TERMINATOR wedge sockets.
- Wedge and accessories provided with a zinc finish.
- Meets the performance requirements of EN13411-6:2003.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these sockets meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- US Patent 8,375,527 B1.
- Basket is cast steel and individually magnetic particle inspected.
- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.
- Secures the tail or "dead end" of the wire rope to the wedge, thus eliminates loss or "punch out" of the wedge.
- Eliminates the need for an extra piece of rope, and is easily installed.
- The TERMINATOR® wedge eliminates the potential breaking off of the tail due to fatigue.
- The tail, which is secured by the base of the clip and the tension device, is left undeformed and available for reuse.
- Available with Bolt, Nut, and Cotter Pin.**



S-423T

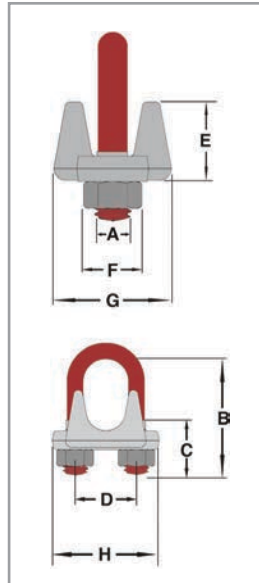


| Wire Rope Dia. |       | S-423T<br>Assembly with Round Pin<br>and Cotter Pin |                               |                                 | S-423TB<br>Assembly with Bolt, Nut<br>and Cotter Pin |                                |                                  | S-423TW**<br>Wedge Kit |                                  |
|----------------|-------|-----------------------------------------------------|-------------------------------|---------------------------------|------------------------------------------------------|--------------------------------|----------------------------------|------------------------|----------------------------------|
| (in.)          | (mm)  | S-423T<br>Stock No.                                 | API 2C<br>S-423T<br>Stock No. | S-423T<br>Weight Each<br>(lbs.) | S-423TB<br>Stock No.                                 | API 2C<br>S-423TB<br>Stock No. | S-423TB<br>Weight Each<br>(lbs.) | S-423TW<br>Stock No.   | S-423TW<br>Weight Each<br>(lbs.) |
| 5/8            | 14-16 | 1035123                                             | 1035128                       | 12.7                            | 1035218                                              | 1035223                        | 13.1                             | 1034018                | 5.2                              |
| 3/4            | 18-19 | 1035132                                             | 1035137                       | 19.4                            | 1035227                                              | 1035232                        | 19.1                             | 1034027                | 7.2                              |
| 7/8            | 20-22 | 1035141                                             | 1035146                       | 28.8                            | 1035236                                              | 1035241                        | 27.8                             | 1034036                | 10.3                             |
| 1              | 24-26 | 1035150                                             | 1035155                       | 39.2                            | 1035245                                              | 1035250                        | 37.3                             | 1034045                | 11.9                             |
| 1-1/8          | 28    | 1035169                                             | 1035174                       | 57.1                            | 1035254                                              | 1035259                        | 57.9                             | 1034054                | 19.9                             |
| 1-1/4          | 30-32 | 1035178                                             | 1035183                       | 88.6                            | 1035272                                              | 1035277                        | 88.1                             | 1034063                | 33.8                             |

\*\*Kit contains Wedge, Wire Rope Clip and Bolts, Tensioner Bolt and Secondary Retention Wire.

| Wire Rope Dia. |       | S-423T Stock No. | Dimensions (in.) |      |      |      |      |      |      |      |       |      |      |      |      |      |       |      |  |
|----------------|-------|------------------|------------------|------|------|------|------|------|------|------|-------|------|------|------|------|------|-------|------|--|
| (in.)          | (mm)  |                  | A                | B    | C    | D    | E    | F    | G    | H    | J*    | L    | P    | R    | S    | T    | U     | V    |  |
| 5/8            | 14-16 | 1035123          | 8.25             | 4.50 | 1.25 | 1.19 | 3.00 | 4.06 | 2.13 | 4.61 | 12.31 | 1.22 | 2.25 | .56  | 3.25 | .75  | 6.88  | 2.60 |  |
| 3/4            | 18-19 | 1035132          | 9.88             | 5.20 | 1.50 | 1.38 | 3.25 | 4.81 | 2.44 | 5.37 | 14.69 | 1.40 | 2.62 | .66  | 3.63 | .88  | 7.65  | 3.02 |  |
| 7/8            | 20-22 | 1035141          | 11.25            | 5.88 | 1.75 | 1.63 | 3.81 | 5.73 | 2.69 | 6.16 | 16.98 | 1.67 | 3.13 | .75  | 4.31 | 1.00 | 9.47  | 3.47 |  |
| 1              | 24-26 | 1035150          | 12.81            | 6.56 | 2.00 | 2.00 | 3.81 | 5.73 | 2.94 | 7.05 | 18.54 | 2.01 | 3.75 | .88  | 4.70 | 1.13 | 10.41 | 3.82 |  |
| 1-1/8          | 28    | 1035169          | 14.38            | 6.94 | 2.25 | 2.25 | 4.00 | 6.85 | 3.38 | 7.81 | 21.23 | 2.26 | 4.25 | 1.00 | 5.44 | 1.25 | 11.83 | 4.22 |  |
| 1-1/4          | 30-32 | 1035178          | 16.34            | 8.63 | 2.62 | 2.50 | 4.50 | 7.76 | 3.57 | 9.38 | 24.10 | 2.34 | 4.50 | 1.06 | 6.62 | 1.38 | 13.87 | 5.82 |  |

\* Nominal NOTE: For intermediate wire rope sizes, use next larger size socket. The S-423T Super TERMINATOR wedge is designed to be assembled only into the Crosby S-421T TERMINATOR socket body. IMPORTANT: The S-423TW for sizes 5/8" through 1-1/8" will fit respective size standard Crosby S-421T basket. The 1-1/4" S-423TW will only fit the Crosby S-421T 1-1/4" basket marked with TERMINATOR.



## Crosby G-450 FORGED CLIPS

- Each base has a Product Identification Code (PIC) for material traceability, the name CROSBY or CG, and a size forged into it.
- Based on the catalog breaking strength of wire rope, Crosby wire rope clips have an efficiency rating of 80% for 1/8" - 7/8" sizes, and 90% for sizes 1" through 3-1/2".
- Entire Clip is Galvanized to resist corrosive and rusting action.
- Sizes 1/8" through 2-1/2" and 3" have forged bases.
- All Clips are individually bagged or tagged with proper application instructions and warning information.
- Clip sizes up through 1-1/2" have rolled threads.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these wire rope clips meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Look for the Red-U-Bolt®, your assurance of Genuine Crosby Clips.

| Rope Size |       | G-450<br>Stock No. | Std.<br>Package<br>Qty. | Weight<br>Per 100<br>(lbs.) | Dimensions<br>(in.) |       |      |      |      |      |      |      |
|-----------|-------|--------------------|-------------------------|-----------------------------|---------------------|-------|------|------|------|------|------|------|
| (in.)     | (mm)  |                    |                         |                             | A                   | B     | C    | D    | E    | F    | G    | H    |
| 1/8       | 3-4   | 1010015            | 100                     | 6                           | .22                 | .72   | .44  | .47  | .37  | .38  | .81  | .99  |
| 3/16      | 5     | 1010033            | 100                     | 10                          | .25                 | .97   | .56  | .59  | .50  | .44  | .94  | 1.18 |
| 1/4       | 6-7   | 1010051            | 100                     | 19                          | .31                 | 1.03  | .50  | .75  | .66  | .56  | 1.19 | 1.43 |
| 5/16      | 8     | 1010079            | 100                     | 28                          | .38                 | 1.38  | .75  | .88  | .73  | .69  | 1.31 | 1.66 |
| 3/8       | 9-10  | 1010097            | 100                     | 48                          | .44                 | 1.50  | .75  | 1.00 | .91  | .75  | 1.63 | 1.94 |
| 7/16      | 11    | 1010113            | 50                      | 78                          | .50                 | 1.88  | 1.00 | 1.19 | 1.13 | .88  | 1.91 | 2.28 |
| 1/2       | 12-13 | 1010131            | 50                      | 80                          | .50                 | 1.88  | 1.00 | 1.19 | 1.13 | .88  | 1.91 | 2.28 |
| 9/16      | 14-15 | 1010159            | 50                      | 109                         | .56                 | 2.25  | 1.25 | 1.31 | 1.34 | .94  | 2.06 | 2.50 |
| 5/8       | 16    | 1010177            | 50                      | 110                         | .56                 | 2.25  | 1.25 | 1.31 | 1.34 | .94  | 2.06 | 2.50 |
| 3/4       | 18-20 | 1010195            | 25                      | 142                         | .62                 | 2.75  | 1.44 | 1.50 | 1.39 | 1.06 | 2.25 | 2.84 |
| 7/8       | 22    | 1010211            | 25                      | 212                         | .75                 | 3.12  | 1.62 | 1.75 | 1.58 | 1.25 | 2.44 | 3.16 |
| 1         | 24-26 | 1010239            | 10                      | 252                         | .75                 | 3.50  | 1.81 | 1.88 | 1.77 | 1.25 | 2.63 | 3.47 |
| 1-1/8     | 28-30 | 1010257            | 10                      | 283                         | .75                 | 3.88  | 2.00 | 2.00 | 1.91 | 1.25 | 2.81 | 3.59 |
| 1-1/4     | 32-34 | 1010275            | 10                      | 438                         | .88                 | 4.44  | 2.22 | 2.34 | 2.17 | 1.44 | 3.13 | 4.13 |
| 1-3/8     | 36    | 1010293            | 10                      | 442                         | .88                 | 4.44  | 2.22 | 2.34 | 2.31 | 1.44 | 3.13 | 4.19 |
| 1-1/2     | 38    | 1010319            | 10                      | 544                         | .88                 | 4.94  | 2.38 | 2.59 | 2.44 | 1.44 | 3.41 | 4.44 |
| 1-5/8     | 41-42 | 1010337            | Bulk                    | 704                         | 1.00                | 5.31  | 2.62 | 2.75 | 2.66 | 1.63 | 3.63 | 4.75 |
| 1-3/4     | 44-46 | 1010355            | Bulk                    | 934                         | 1.13                | 5.75  | 2.75 | 3.06 | 2.92 | 1.81 | 3.81 | 5.24 |
| 2         | 48-52 | 1010373            | Bulk                    | 1300                        | 1.25                | 6.44  | 3.00 | 3.38 | 3.03 | 2.00 | 4.44 | 5.88 |
| 2-1/4     | 56-58 | 1010391            | Bulk                    | 1600                        | 1.25                | 7.13  | 3.19 | 3.88 | 3.19 | 2.00 | 4.56 | 6.38 |
| 2-1/2     | 62-65 | 1010417            | Bulk                    | 1900                        | 1.25                | 7.69  | 3.44 | 4.13 | 3.69 | 2.00 | 4.69 | 6.63 |
| 2-3/4     | 68-72 | 1010435            | Bulk                    | 2300                        | 1.25                | 8.31  | 3.56 | 4.38 | 4.88 | 2.00 | 5.00 | 6.88 |
| 3         | 75-78 | 1010453            | Bulk                    | 3100                        | 1.50                | 9.19  | 3.88 | 4.75 | 4.44 | 2.38 | 5.31 | 7.61 |
| 3-1/2     | 85-90 | 1010426            | Bulk                    | 4000                        | 1.50                | 10.75 | 4.50 | 5.50 | 6.00 | 2.38 | 6.19 | 8.38 |

## CROSBY® FORGED WIRE ROPE CLIP

### WARNINGS & APPLICATION INSTRUCTIONS

Efficiency ratings for wire rope end terminations are based upon the minimum breaking force of wire rope. The efficiency rating of a properly prepared loop or thimble-eye termination for clip sizes 1/8" through 7/8" is 80%, and for sizes 1" through 3-1/2" is 90%.

The number of clips shown (see Table 1) is based upon using RRL or RLL wire rope, 6 x 19 or 6 x 37 Class, FC or IWRC; IPS or XIP, XXIP. If Seale construction or similar large outer wire type construction in the 6 x 19 Class is to be used for sizes 1 inch and larger, add one additional clip. If a pulley (sheave) is used for turning back the wire rope, add one additional clip.

The number of clips shown also applies to rotation-resistant RRL wire rope, 8 x 19 Class, IPS, XIP, XXIP sizes 1-1/2 inch and smaller; and to rotation-resistant RRL wire rope, 19 x 7 Class, IPS, XIP, XXIP sizes 1-1/2 inch and smaller.

For other classes of wire rope not mentioned above, we recommend contacting Crosby Engineering at the address or telephone number on the back cover to ensure the desired efficiency rating.

The style of wire rope termination used for any application is the obligation of the user.

#### For OSHA (Construction) applications, see OSHA 1926.251.

1. Refer to Table 1 following these instructions. Turn back specified amount



Figure 1

of rope from thimble or loop. Apply first clip one base width from dead end of rope. Apply U-Bolt over dead end of wire rope – live end rests in saddle (Never saddle a dead horse!). Use torque wrench to tighten nuts evenly, alternate from one nut to the other until reaching the recommended torque. (See Figure 1)

2. When two clips are required, apply the second clip as near the loop or thimble as possible. Use torque wrench to tighten nuts evenly, alternating until reaching the recommended torque. When more than two clips are required, apply the second clip as near the loop or thimble as possible, turn nuts on second clip firmly, but do not tighten. (See Figure 2)



Figure 2

3. When three or more clips are required, space additional clips equally between first two – take up rope slack – use torque wrench to tighten nuts on each clip evenly, alternating from one nut to the other until reaching recommended torque. (See Figure 3)



Figure 3

4. If a pulley (sheave) is used in place of a thimble, add one additional Fist Grip. Fist Grip spacing should be as shown.

(See Figure 4)

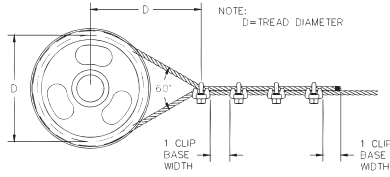


Figure 4

#### 5. WIRE ROPE SPLICING PROCEDURES:

The preferred method of splicing two wire ropes together is to use inter-locking turnback eyes with thimbles, using the recommended number of clips on each eye



Figure 5

(See Figure 5).

An alternate method is to use twice the number of clips as used for a turnback termination. The rope ends are placed parallel to each other, overlapping by twice the turnback amount

shown in the application instructions. The minimum number of clips should be installed on each dead end (See Figure 6). Spacing, installation torque, and other instructions still apply.

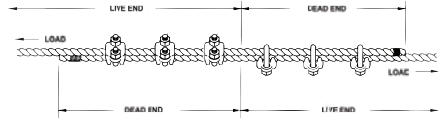


Figure 6

#### 6. IMPORTANT

Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next, check and use torque wrench to retighten nuts to recommended torque.

In accordance with good rigging and maintenance practices, the wire rope end termination should be inspected periodically for wear, abuse, and general adequacy.

| Clip Size/Rope Size |       | Minimum No. of Clips | Amount of Rope to Turn Back in inches | * Torque in Ft. Lbs. |
|---------------------|-------|----------------------|---------------------------------------|----------------------|
| (in.)               | (in.) |                      |                                       |                      |
| 1/8                 | 1/8   | 2                    | 3-1/4                                 | 4.5                  |
| 3/16                | 3/16  | 2                    | 3-3/4                                 | 7.5                  |
| 1/4                 | 1/4   | 2                    | 4-3/4                                 | 15                   |
| 5/16                | 5/16  | 2                    | 5-1/4                                 | 30                   |
| 3/8                 | 3/8   | 2                    | 6-1/2                                 | 45                   |
| 7/16                | 7/16  | 2                    | 7                                     | 65                   |
| 1/2                 | 1/2   | 3                    | 11-1/2                                | 65                   |
| 9/16                | 9/16  | 3                    | 12                                    | 95                   |
| 5/8                 | 5/8   | 3                    | 12                                    | 95                   |
| 3/4                 | 3/4   | 4                    | 18                                    | 130                  |
| 7/8                 | 7/8   | 4                    | 19                                    | 225                  |
| 1                   | 1     | 5                    | 26                                    | 225                  |
| 1-1/8               | 1-1/8 | 6                    | 34                                    | 225                  |
| 1-1/4               | 1-1/4 | 7                    | 44                                    | 360                  |
| 1-3/8               | 1-3/8 | 7                    | 44                                    | 360                  |
| 1-1/2               | 1-1/2 | 8                    | 54                                    | 360                  |
| 1-5/8               | 1-5/8 | 8                    | 58                                    | 430                  |
| 1-3/4               | 1-3/4 | 8                    | 61                                    | 590                  |
| 2                   | 2     | 8                    | 71                                    | 750                  |
| 2-1/4               | 2-1/4 | 8                    | 73                                    | 750                  |
| 2-1/2               | 2-1/2 | 9                    | 84                                    | 750                  |
| 2-3/4               | 2-3/4 | 10                   | 100                                   | 750                  |
| 3                   | 3     | 10                   | 106                                   | 1200                 |
| 3-1/2               | 3-1/2 | 12                   | 149                                   | 1200                 |

If a pulley (sheave) is used for turning back the wire rope, add one additional clip. See Figure 4.

If a greater number of clips are used than shown in the table, the amount of turnback should be increased proportionately.

\*The tightening torque values shown are based upon the threads being clean, dry, and free of lubrication.

## SINGLE LEG WIRE ROPE SLINGS

### Features

- Flemished eye splice
- Sizes available from 1/4" to 2"
- 6x19 & 6x37 class bright EIPS IWRC wire rope
- Galvanized & stainless steel wire rope available upon request
- Heavy duty stainless steel tag
- 5 to 1 design factor
- Proof testing available upon request
- Made in Hatfield, PA.

### How To Order

- Specify wire rope size
- Specify leg length
- Specify end type

### Wire Rope Sling Types

- **11-1-1** - Single leg wire rope sling with standard eyes on both ends
- **11-1-1C** - Single leg wire rope sling with standard eyes on both ends and sliding choker hook
- **11-1-2** - Single leg wire rope sling with standard eye on one end, thimble eye on other end
- **11-2-2** - Single leg wire rope sling with thimble eyes on both ends
- **11-1-3** - Single leg wire rope sling with standard eye on one end, thimble eye with alloy eye hook on other end
- **11-2-3** - Single leg wire rope sling with thimble eye on one end, thimble eye with alloy eye hook on other end
- **11-3-0** - Length of wire rope with thimble eye and alloy eye hook on one end
- **11-1-SB** - Single leg wire rope sling with standard eye on one end, swaged button on other end
- **11-9-3** - Single leg wire rope sling with thimble eye and oblong master link on one end, thimble eye and alloy eye hook on other end



### Single Leg Wire Rope Slings

| Wire Rope Diameter (in.) | Eye Size (in.) |            | Minimum Sling Length | IWRC EIPS 6x19 & 6x37 Class |                        |                        | Cable Laid 7x7x7 & 7x7x19 Class |                        |                        | Hidden Tuck Hand Splice  |                        |                        |
|--------------------------|----------------|------------|----------------------|-----------------------------|------------------------|------------------------|---------------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|
|                          | Eye Width      | Eye Length |                      | Vertical Capacity (Tons)    | Choker Capacity (Tons) | Basket Capacity (Tons) | Vertical Capacity (Tons)        | Choker Capacity (Tons) | Basket Capacity (Tons) | Vertical Capacity (Tons) | Choker Capacity (Tons) | Basket Capacity (Tons) |
| 1/4                      | 3              | 6          | 1' 6"                | .65                         | .48                    | 1.3                    | -                               | -                      | -                      | -                        | -                      | -                      |
| 3/8                      | 3              | 6          | 2'                   | 1.4                         | 1.1                    | 2.9                    | 1.1                             | .74                    | 2.2                    | 1.2                      | .94                    | 2.4                    |
| 1/2                      | 4              | 8          | 2' 6"                | 2.5                         | 1.9                    | 5.1                    | 1.9                             | 1.3                    | 3.7                    | 2.0                      | 1.6                    | 4.0                    |
| 5/8                      | 5              | 10         | 3'                   | 3.9                         | 2.9                    | 7.8                    | 2.8                             | 1.9                    | 5.5                    | 3.1                      | 2.6                    | 6.2                    |
| 3/4                      | 6              | 12         | 3' 6"                | 5.6                         | 4.1                    | 11                     | 4.1                             | 2.8                    | 8.1                    | 4.3                      | 3.7                    | 8.6                    |
| 7/8                      | 7              | 14         | 4'                   | 7.6                         | 5.6                    | 15                     | 5.4                             | 3.7                    | 11                     | -                        | -                      | -                      |
| 1                        | 8              | 16         | 4' 6"                | 9.8                         | 7.2                    | 20                     | 6.9                             | 4.7                    | 14                     | -                        | -                      | -                      |
| 1 1/8                    | 9              | 18         | 5'                   | 12                          | 9.1                    | 24                     | -                               | -                      | -                      | -                        | -                      | -                      |
| 1 1/4                    | 10             | 20         | 5' 6"                | 15                          | 11                     | 30                     | -                               | -                      | -                      | -                        | -                      | -                      |
| 1 3/8                    | 11             | 22         | 6'                   | 18                          | 13                     | 36                     | -                               | -                      | -                      | -                        | -                      | -                      |
| 1 1/2                    | 12             | 24         | 7'                   | 21                          | 16                     | 42                     | -                               | -                      | -                      | -                        | -                      | -                      |
| 1 3/4                    | 14             | 28         | 8'                   | 28                          | 21                     | 57                     | -                               | -                      | -                      | -                        | -                      | -                      |
| 2                        | 16             | 32         | 9'                   | 37                          | 28                     | 73                     | -                               | -                      | -                      | -                        | -                      | -                      |



**DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.**

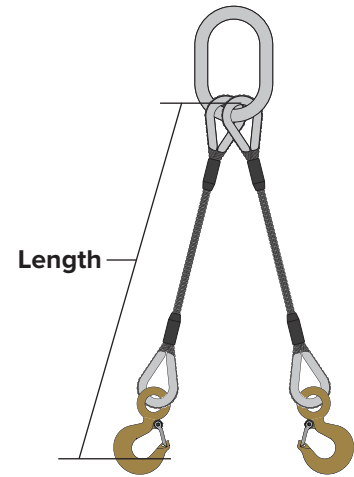
## TWO LEG WIRE ROPE BRIDLE SLINGS

### Features

- Flemished eye splice
- Sizes available from 1/4" to 2"
- 6x19 & 6x37 class bright EIPS IWRC wire rope
- Galvanized & stainless steel wire rope available upon request
- Heavy duty stainless steel tag
- 5 to 1 design factor
- Proof testing available upon request
- Made in Hatfield, PA.

### How To Order

- Specify wire rope size
- Specify leg length
- Specify end fittings



### Standard Two Leg Bridle Sling Types

- **12-9-3** - Two leg wire rope bridle sling with an oblong master link at the top, alloy eye hooks at the bottom
- **12-9-2** - Two leg wire rope bridle sling with an oblong master link at the top, thimble eyes at the bottom

| 12-9-3 | 12-9-2 |
|--------|--------|
|        |        |

### Two Leg Wire Rope Bridle Slings

| Wire Rope Diameter<br>(in.) | Rated Capacity (Tons) (2000 lbs.) |            |            | Standard Hardware Included |                 |
|-----------------------------|-----------------------------------|------------|------------|----------------------------|-----------------|
|                             | 60 Degrees                        | 45 Degrees | 30 Degrees | Alloy Master link (in.)    | Eye Hooks       |
| 1/4                         | 1.1                               | .91        | .65        | 1/2                        | 0.75 ton S-320C |
| 3/8                         | 2.5                               | 2.0        | 1.4        | 1/2                        | 1.5 ton S-320C  |
| 1/2                         | 4.4                               | 3.6        | 2.5        | 3/4                        | 3 ton S-320C    |
| 5/8                         | 6.8                               | 5.5        | 3.9        | 1                          | 5 ton S-320A    |
| 3/4                         | 9.7                               | 7.9        | 5.6        | 1-1/4                      | 7 ton S-320A    |
| 7/8                         | 13.0                              | 11.0       | 7.6        | 1-3/8                      | 11 ton S-320A   |
| 1                           | 17.0                              | 14.0       | 9.8        | 1-1/2                      | 11 ton S-320A   |
| 1 1/8                       | 21.0                              | 17.0       | 12.0       | 1-1/2                      | 15 ton S-320A   |
| 1 1/4                       | 26.0                              | 21.0       | 15.0       | 1-1/2                      | 15 ton S-320A   |
| 1 3/8                       | 31.0                              | 25.0       | 18.0       | 1-3/4                      | 22 ton S-320A   |
| 1 1/2                       | 37.0                              | 30.0       | 21.0       | 1-3/4                      | 22 ton S-320A   |
| 1-3/4                       | 49.0                              | 40.0       | 28.0       | 2-1/2                      | 30 ton S-320A   |
| 2                           | 63.0                              | 52.0       | 37.0       | 2-3/4                      | 37 ton S-320A   |



**WARNING**

DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.



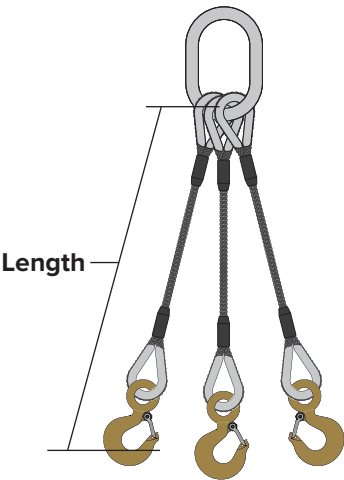
THREE LEG WIRE ROPE BRIDLE SLINGS

Features

- Flemished eye splice
- Sizes available from 1/4" to 2"
- 6x19 & 6x37 class bright EIPS IWRC wire rope
- Galvanized & stainless steel wire rope available upon request
- Heavy duty stainless steel tag
- 5 to 1 design factor
- Proof testing available upon request
- Made in Hatfield, PA.

How To Order

- Specify wire rope size
- Specify leg length
- Specify end fittings



Standard Three Leg Bridle Sling Types

- **13-9-3** - Three leg wire rope bridle sling with an oblong master link at the top, alloy eye hooks at the bottom
- **13-9-2** - Three leg wire rope bridle sling with an oblong master link at the top, thimble eyes at the bottom

| 13-9-3 | 13-9-2 |
|--------|--------|
|        |        |

Three Leg Wire Rope Bridle Slings

| Wire Rope Diameter (in.) | Rated Capacity (Tons) (2000 lbs.) |            |            | Standard Hardware Included |                 |
|--------------------------|-----------------------------------|------------|------------|----------------------------|-----------------|
|                          | 60 Degrees                        | 45 Degrees | 30 Degrees | Alloy Master link (in.)    | Eye Hooks       |
| 1/4                      | 1.7                               | 1.4        | .97        | 3/4                        | 0.75 ton S-320C |
| 3/8                      | 3.7                               | 3.0        | 2.2        | 1                          | 1.5 ton S-320C  |
| 1/2                      | 6.6                               | 5.4        | 3.8        | 1-1/4                      | 3 ton S-320C    |
| 5/8                      | 10.0                              | 8.3        | 5.9        | 1-1/4                      | 5 ton S-320A    |
| 3/4                      | 15.0                              | 12         | 8.4        | 1-1/2                      | 7 ton S-320A    |
| 7/8                      | 20.0                              | 16         | 11         | 1-1/2                      | 11 ton S-320A   |
| 1                        | 26.0                              | 21         | 15         | 1-3/4                      | 11 ton S-320A   |
| 1 1/8                    | 31.0                              | 26         | 18         | 2                          | 15 ton S-320A   |
| 1 1/4                    | 38.0                              | 31         | 22         | 2                          | 15 ton S-320A   |
| 1 3/8                    | 46.0                              | 38         | 27         | 2-1/4                      | 22 ton S-320A   |
| 1 1/2                    | 55.0                              | 45         | 32         | 2-1/2                      | 22 ton S-320A   |
| 1-3/4                    | 74                                | 60         | 42         | 2-3/4                      | 30 ton S-320A   |
| 2                        | 95                                | 78         | 55         | 3                          | 37 ton S-320A   |

**DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.**

## FOUR LEG WIRE ROPE BRIDLE SLINGS

### Features

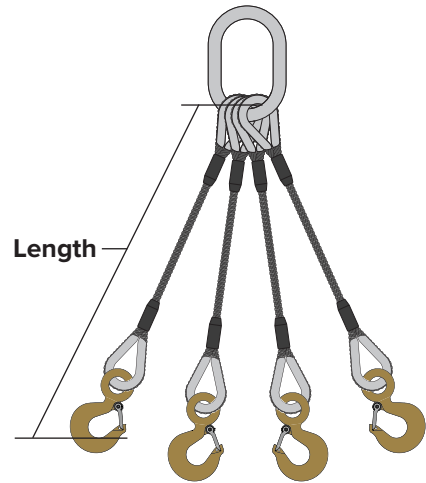
- Flemished eye splice
- Sizes available from 1/4" to 2"
- 6x19 & 6x37 class bright EIPS IWRC wire rope
- Galvanized & stainless steel wire rope available upon request
- Heavy duty stainless steel tag
- 5 to 1 design factor
- Proof testing available upon request
- Made in Hatfield, PA.

### How To Order

- Specify wire rope size
- Specify leg length
- Specify end fittings

### Standard Four Leg Bridle Sling Types

- **14-9-3** - Four leg wire rope bridle sling with an oblong master link at the top, alloy eye hooks at the bottom
- **14-9-2** - Four leg wire rope bridle sling with an oblong master link at the top, thimble eyes at the bottom



| 14-9-3 | 14-9-2 |
|--------|--------|
|        |        |

### Four Leg Wire Rope Bridle Slings

| Wire Rope Diameter (in.) | Rated Capacity (Tons) (2000 lbs.) |            |            | Standard Hardware Included |                 |
|--------------------------|-----------------------------------|------------|------------|----------------------------|-----------------|
|                          | 60 Degrees                        | 45 Degrees | 30 Degrees | Alloy Master link (in.)    | Eye Hooks       |
| 1/4                      | 2.2                               | 1.8        | 1.3        | 3/4                        | 0.75 ton S-320C |
| 3/8                      | 5.0                               | 4.1        | 2.9        | 3/4                        | 1.5 ton S-320C  |
| 1/2                      | 8.8                               | 7.1        | 5.1        | 1                          | 3 ton S-320C    |
| 5/8                      | 14.0                              | 11.0       | 7.8        | 1-1/4                      | 5 ton S-320A    |
| 3/4                      | 19.0                              | 16.0       | 11.0       | 1-1/2                      | 7 ton S-320A    |
| 7/8                      | 26.0                              | 21.0       | 15.0       | 1-1/2                      | 11 ton S-320A   |
| 1                        | 34.0                              | 28.0       | 20.0       | 1-3/4                      | 11 ton S-320A   |
| 1 1/8                    | 42.0                              | 34.0       | 24.0       | 2                          | 15 ton S-320A   |
| 1 1/4                    | 51.0                              | 42.0       | 30.0       | 2                          | 15 ton S-320A   |
| 1 3/8                    | 62.0                              | 50.0       | 36.0       | 2-1/2                      | 22 ton S-320A   |
| 1 1/2                    | 73.0                              | 60.0       | 42.0       | 2-3/4                      | 22 ton S-320A   |
| 1-3/4                    | 98.0                              | 80.0       | 57.0       | 2-3/4                      | 30 ton S-320A   |
| 2                        | 127.0                             | 104.0      | 73.0       | 4                          | 37 ton S-320A   |



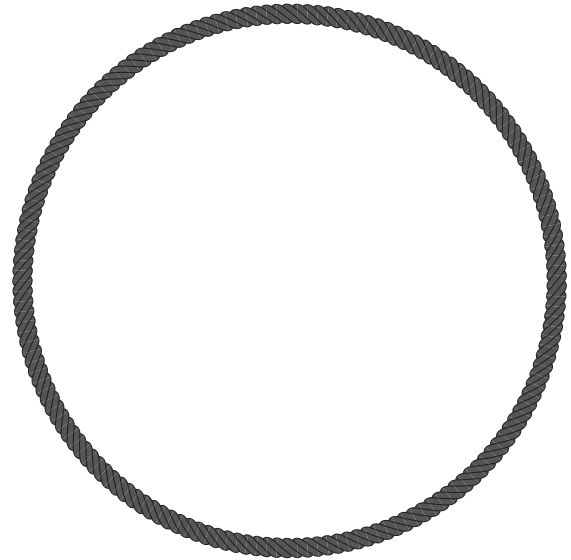
**WARNING**

DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.

## WIRE ROPE GROMMETS

### Features

- Hand tucked spliced continuous construction
- Sizes available from 1/4" to 2"
- 6x19 & 6x37 class bright EIPS IWRC wire rope
- Galvanized & stainless steel wire rope available upon request
- Heavy duty stainless steel tag
- 5 to 1 design factor
- Proof testing available upon request
- Made in Hatfield, PA.



### 210 Strand Laid Hand Splice

| Wire Rope Diameter (in.) | Minimum Sling Circumference (ft.) | Rated Capacity in Tons (2000 lbs.) * |              |                   |            |            |            |
|--------------------------|-----------------------------------|--------------------------------------|--------------|-------------------|------------|------------|------------|
|                          |                                   | Vertical Hitch                       | Choker Hitch | Basket Hitch Type |            |            |            |
|                          |                                   |                                      |              | Vertical Basket   | 60 Degrees | 45 Degrees | 30 Degrees |
| 1/4                      | 2                                 | 0.94                                 | 0.66         | 1.9               | 1.6        | 1.3        | 0.94       |
| 5/16                     | 3                                 | 1.5                                  | 1            | 2.9               | 2.5        | 2.1        | 1.5        |
| 3/8                      | 3                                 | 2.1                                  | 1.5          | 4.2               | 3.6        | 3          | 2.1        |
| 7/16                     | 4                                 | 2.8                                  | 2            | 5.7               | 4.9        | 4          | 2.8        |
| 1/2                      | 4                                 | 3.7                                  | 2.6          | 7.3               | 6.4        | 5.2        | 3.7        |
| 9/16                     | 5                                 | 4.6                                  | 3.2          | 9.3               | 8          | 6.6        | 4.6        |
| 5/8                      | 5                                 | 5.7                                  | 4            | 11                | 9.9        | 8.1        | 5.7        |
| 3/4                      | 6                                 | 8.2                                  | 5.7          | 16                | 14         | 12         | 8.2        |
| 7/8                      | 7                                 | 11                                   | 7.7          | 22                | 19         | 16         | 11         |
| 1                        | 8                                 | 14                                   | 10           | 29                | 25         | 20         | 14         |
| 1-1/8                    | 9                                 | 18                                   | 12           | 35                | 31         | 25         | 18         |
| 1-1/4                    | 10                                | 21                                   | 15           | 43                | 37         | 30         | 21         |
| 1-3/8                    | 11                                | 25                                   | 18           | 51                | 44         | 36         | 25         |
| 1-1/2                    | 12                                | 30                                   | 21           | 60                | 52         | 42         | 30         |
| 1-3/4                    | 14                                | 40                                   | 28           | 79                | 69         | 56         | 40         |
| 2                        | 16                                | 50                                   | 35           | 101               | 87         | 71         | 50         |

- \* Rated Capacities Basket Hitch and vertical lift based on D/d ratio of 5 when "d" = body diameter of the finished grommet.

- Rated Capacities based on pin diameter no smaller than 5 times the body diameter.

- Minimum circumference of the sling is 96 times the grommet's body diameter

- Rated Capacities based on design factor of 5.

- Horizontal sling angles of less than 30° shall not be used.



**WARNING**

DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.

# THREE PART BRAIDED SLINGS

## Features

- Flemished eye splice
- Sizes available from 1/4" to 2"
- 6x19 & 6x37 class bright EIPS IWRC wire rope
- Galvanized & stainless steel wire rope available upon request
- Heavy duty stainless steel tag
- 5 to 1 design factor
- Proof testing available upon request
- Made in Hatfield, PA.
- Wrapped Eyes available upon request

## How To Order

- Specify wire rope size
- Specify leg length



Three Part Braided Slings

| Rope Diameter (in.) | Sling Diameter (in.) | Rated Capacity (Tons) (2000 lbs.) |        |        | Eye Dimensions (in.) |            |
|---------------------|----------------------|-----------------------------------|--------|--------|----------------------|------------|
|                     |                      | Vertical                          | Choker | Basket | Eye Width            | Eye Length |
| 1/4                 | 1/2                  | 1.7                               | 1.3    | 3.4    | 2                    | 4          |
| 5/16                | 5/8                  | 2.6                               | 1.9    | 5.2    | 3                    | 6          |
| 3/8                 | 3/4                  | 3.6                               | 2.7    | 7.2    | 4                    | 8          |
| 7/16                | 7/8                  | 4.9                               | 3.7    | 9.8    | 5                    | 10         |
| 1/2                 | 1                    | 6.4                               | 4.8    | 12     | 6                    | 12         |
| 9/16                | 1-1/8                | 8                                 | 6      | 16     | 7                    | 14         |
| 5/8                 | 1-1/4                | 9.9                               | 7.4    | 19     | 8                    | 16         |
| 3/4                 | 1-1/2                | 14                                | 10     | 28     | 10                   | 20         |
| 7/8                 | 1-3/4                | 19                                | 14     | 38     | 12                   | 24         |
| 1                   | 2                    | 24                                | 18     | 49     | 14                   | 28         |
| 1-1/8               | 2-1/4                | 31                                | 23     | 62     | 16                   | 32         |
| 1-1/4               | 2-1/2                | 38                                | 28     | 76     | 18                   | 36         |
| 1-3/8               | 2-3/4                | 46                                | 34     | 92     | 20                   | 40         |
| 1-1/2               | 3                    | 55                                | 41     | 110    | 22                   | 44         |
| 1-3/4               | 3-1/2                | 73                                | 54     | 146    | 26                   | 52         |
| 2                   | 4                    | 95                                | 71     | 190    | 28                   | 56         |

SIX-PART BRAIDED SLING

Features

- Sizes available from 1/4” to 1”
- 6x19 & 6x37 class bright EIPS IWRC wire rope
- Galvanized & stainless steel wire rope available upon request
- Heavy duty steel tag
- 5 to 1 design factor
- Proof testing available upon request
- Made in Hatfield, PA.

How To Order

- Specify wire rope size or capacity required for lift
- Specify leg length



Specifications

| Wire Rope Diameter<br>(in.) | Sling Diameter<br>(in.) | Rated Capacity<br>(Tons)* |                |              | Eye Dimensions<br>(in.) |            |
|-----------------------------|-------------------------|---------------------------|----------------|--------------|-------------------------|------------|
|                             |                         | Vertical                  | Choker Hitch** | Basket Hitch | Eye Width               | Eye Length |
| 1/4                         | 1-1/8                   | 2.9                       | 2.5            | 5.7          | 5                       | 10         |
| 5/16                        | 1-3/8                   | 4.4                       | 3.9            | 8.9          | 6                       | 12         |
| 3/8                         | 1                       | 6.3                       | 5.5            | 13           | 7                       | 14         |
| 7/16                        | 2                       | 8.6                       | 7.5            | 17           | 8                       | 16         |
| 1/2                         | 2-1/4                   | 11                        | 9.8            | 22           | 9                       | 18         |
| 9/16                        | 2-1/2                   | 14                        | 12             | 28           | 10                      | 20         |
| 5/8                         | 2-13/16                 | 17                        | 15             | 35           | 11                      | 22         |
| 3/4                         | 3-3/8                   | 26                        | 22             | 49           | 12                      | 24         |
| 7/8                         | 4                       | 33                        | 29             | 67           | 14                      | 28         |
| 1                           | 4-1/2                   | 43                        | 38             | 87           | 16                      | 32         |

\* Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter.  
\*\* See Choker Hitch Rated Capacity Adjustment in Union Wire Rope Sling Guide. Rated Capacities based on pin diameter no larger than natural eye width or less than thenominal sling diameter. Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used. All capacities in tons of 2,000 lbs. All eye and fitting dimensions in inches.

**WARNING**

DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.



## EIGHT-PART BRAIDED SLING

### Features

- Sizes available from 1/4" to 1"
- 6x19 & 6x37 class bright EIPS IWRC wire rope
- Galvanized & stainless steel wire rope available upon request
- Heavy duty steel tag
- 5 to 1 design factor
- Proof testing available upon request
- Made in Hatfield, PA.

### How To Order

- Specify wire rope size or capacity required for lift
- Specify leg length



### Specifications

| Wire Rope Diameter<br>(in.) | Sling Diameter<br>(in.) | Rated Capacity<br>(Tons)* |                |              | Eye Dimensions<br>(in.) |            |
|-----------------------------|-------------------------|---------------------------|----------------|--------------|-------------------------|------------|
|                             |                         | Vertical                  | Choker Hitch** | Basket Hitch | Eye Width               | Eye Length |
| 1/4                         | 1-1/8                   | 3.8                       | 3.3            | 7.6          | 5                       | 10         |
| 5/16                        | 1-3/8                   | 5.9                       | 5.2            | 12           | 6                       | 12         |
| 3/8                         | 1-11/16                 | 8.5                       | 7.4            | 17           | 7                       | 14         |
| 7/16                        | 2                       | 11                        | 10             | 23           | 8                       | 16         |
| 1/2                         | 2-1/4                   | 15                        | 13             | 30           | 9                       | 18         |
| 9/16                        | 2-1/2                   | 19                        | 16             | 38           | 10                      | 20         |
| 5/8                         | 2-13/16                 | 23                        | 20             | 46           | 11                      | 22         |
| 3/4                         | 3-3/8                   | 33                        | 29             | 66           | 12                      | 24         |
| 7/8                         | 4                       | 45                        | 39             | 89           | 14                      | 28         |
| 1                           | 4-1/2                   | 58                        | 51             | 116          | 16                      | 32         |

\* Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter.

\*\* See Choker Hitch Rated Capacity Adjustment in Union Wire Rope Sling Guide. Rated Capacities based on pin diameter no larger than natural eye width or less than nominal sling diameter. Rated Capacities based on design factor of 5. Horizontal sling angles less than 30° shall not be used. All capacities in tons of 2,000 lbs. All eye and fitting dimensions in inches.



**DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.**

## SWAGE SOCKET ASSEMBLIES

### Features

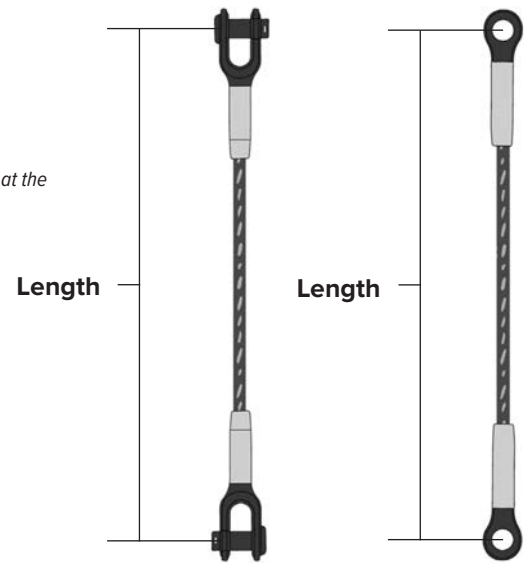
- 100% Termination Efficiency
- Sizes available from 1/4" to 1-1/4"
- Proof test to 2x its working load limit
- 5 to 1 design factor
- Made in Hatfield, PA.

### How To Order

- Specify wire rope size
- Specify leg length (*please note: length is measured at the center of the pin and the center of the eye*)
- Specify end fittings
- Specify termination plane

### Swage Socket Assembly Types

- **11-6-6SP** - Open sockets on each end, pins on the same plane
- **11-6-60P** - Open sockets on each end, pins on opposite planes
- **11-6-7SP** - Open socket on one end, closed socket on other end, pins on the same plane
- **11-6-70P** - Open socket on one end, closed socket on other end, pins on opposite planes
- **11-7-7SP** - Closed sockets on both ends, pins on the same plane
- **11-7-70P** - Closed sockets on both ends, pins on the opposite planes



| 11-6-6SP (SAME PLANE) | 11-6-60P (OPPOSITE PLANE) |
|-----------------------|---------------------------|
|                       |                           |
| 11-6-7SP (SAME PLANE) | 11-6-70P (OPPOSITE PLANE) |
|                       |                           |
| 11-7-7SP (SAME PLANE) | 11-7-70P (OPPOSITE PLANE) |
|                       |                           |

### Swage Socket Assemblies

| Wire Rope Diameter in Inches | Minimum Pendant Length | Vertical Capacity in Tons (2,000 lbs.) |
|------------------------------|------------------------|----------------------------------------|
| 1/4                          | 11"                    | .68                                    |
| 5/16                         | 1' 3"                  | 1.1                                    |
| 3/8                          | 1' 3"                  | 1.5                                    |
| 7/16                         | 1' 8"                  | 2.0                                    |
| 1/2                          | 1' 8"                  | 2.7                                    |
| 9/16                         | 2' 0"                  | 3.4                                    |
| 5/8                          | 2' 0"                  | 4.1                                    |
| 3/4                          | 2' 5"                  | 5.9                                    |
| 7/8                          | 2' 10"                 | 8.0                                    |
| 1                            | 3' 2"                  | 10                                     |
| 1 1/8                        | 3' 7"                  | 13                                     |
| 1 1/4                        | 4' 0"                  | 16                                     |

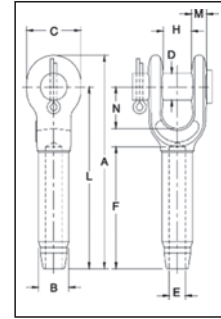


**DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.**



## S-501 OPEN SWAGE SOCKETS

- Forged from special bar quality carbon steel, suitable for cold forming.
- Swage Socket terminations have an efficiency rating of 100% based on the catalog strength of wire rope.
- Hardness controlled by spheroidize annealing.
- Stamp for identification after swaging without concern for fractures (as per directions in Wire Rope End Terminations User's Manual).
- Swage sockets incorporate a reduced machined area of the shank which is equivalent to the proper "After Swage" dimension. Before swaging, this provides for an obvious visual difference in the shank diameter. After swaging, a uniform shank diameter is created allowing for a **QUIC-CHECK**® and permanent visual inspection opportunity.
- Designed to quickly determine whether the socket has been through the swaging operation and assist in field inspections, it does not eliminate the need to perform standard production inspections which include gauging for the proper "After Swage" dimensions or proof loading.

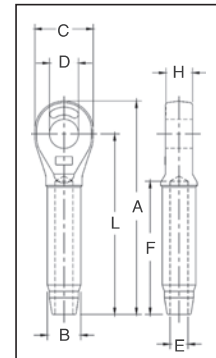


| S-501 Stock No. | S-501B Stock No. † | Rope Size |       | Wt. Each (lbs.) | Ultimate Load** (t) | Before Swage Dimensions (in.) |      |      |      |      |       |      |       |      |      | Tolerance +/- | Max. After Swage Dim. (in.) |
|-----------------|--------------------|-----------|-------|-----------------|---------------------|-------------------------------|------|------|------|------|-------|------|-------|------|------|---------------|-----------------------------|
|                 |                    | (in.)     | (mm)  |                 |                     | A                             | B    | C    | D    | E    | F     | H    | L     | M    | N    |               |                             |
| 1039021         | 1054001            | 1/4       | 6     | .52             | 5.4                 | 4.78                          | .50  | 1.38 | .69  | .27  | 2.19  | .69  | 4.00  | .38  | 1.47 | .06           | .46                         |
| 1039049         | 1054010            | 5/16      | 8     | 1.12            | 11.8                | 6.30                          | .78  | 1.62 | .81  | .34  | 3.25  | .80  | 5.34  | .48  | 1.67 | .06           | .71                         |
| 1039067         | 1054029            | 3/8       | 9-10  | 1.30            | 13.6                | 6.30                          | .78  | 1.62 | .81  | .41  | 3.25  | .80  | 5.34  | .48  | 1.67 | .06           | .71                         |
| 1039085         | 1054038            | 7/16      | 11-12 | 2.08            | 18.1                | 7.82                          | 1.01 | 2.00 | 1.00 | .49  | 4.31  | 1.00 | 6.69  | .56  | 1.96 | .06           | .91                         |
| 1039101         | 1054047            | 1/2       | 13    | 2.08            | 21.3                | 7.82                          | 1.01 | 2.00 | 1.00 | .55  | 4.31  | 1.00 | 6.69  | .56  | 1.96 | .06           | .91                         |
| 1039129         | 1054056            | 9/16      | 14    | 4.67            | 31.8                | 9.54                          | 1.27 | 2.38 | 1.19 | .61  | 5.38  | 1.25 | 8.13  | .68  | 2.21 | .06           | 1.16                        |
| 1039147         | 1054065            | 5/8       | 16    | 4.51            | 34.9                | 9.54                          | 1.27 | 2.38 | 1.19 | .68  | 5.38  | 1.25 | 8.13  | .68  | 2.21 | .06           | 1.16                        |
| 1039165         | 1054074            | 3/4       | 18-20 | 7.97            | 43.5                | 11.61                         | 1.56 | 2.75 | 1.38 | .80  | 6.44  | 1.50 | 10.00 | .80  | 2.69 | .06           | 1.42                        |
| 1039183         | 1054083            | 7/8       | 22    | 11.52           | 51.5                | 13.37                         | 1.72 | 3.13 | 1.63 | .94  | 7.50  | 1.75 | 11.63 | .94  | 3.20 | .07           | 1.55                        |
| 1039209         | 1054092            | 1         | 24-26 | 17.80           | 71.4                | 15.47                         | 2.00 | 3.69 | 2.00 | 1.07 | 8.63  | 2.00 | 13.38 | 1.07 | 3.68 | .08           | 1.80                        |
| 1039227         | 1054104            | 1-1/8     | 28    | 25.25           | 83.3                | 17.35                         | 2.25 | 4.12 | 2.25 | 1.19 | 9.63  | 2.25 | 15.00 | 1.19 | 4.18 | .10           | 2.05                        |
| 1039245         | 1054113            | 1-1/4     | 32    | 35.56           | 109                 | 19.20                         | 2.53 | 4.59 | 2.50 | 1.34 | 10.69 | 2.50 | 16.50 | 1.27 | 4.68 | .10           | 2.30                        |



## S-502 CLOSED SWAGE SOCKETS

- Forged from special bar quality carbon steel, suitable for cold forming.
- Swage Socket terminations have an efficiency rating of 100% based on the catalog strength of wire rope.
- Hardness controlled by spheroidize annealing.
- Stamp for identification after swaging without concern for fractures (as per directions in Wire Rope End Terminations User's Manual).
- Swage sockets incorporate a reduced machined area of the shank which is equivalent to the proper "After Swage" dimension. Before swaging, this provides for an obvious visual difference in the shank diameter. After swaging, a uniform shank diameter is created allowing for a **QUIC-CHECK**® and permanent visual inspection opportunity.
- Designed to quickly determine whether the socket has been through the swaging operation and assist in field inspections, it does not eliminate the need to perform standard production inspections which include gauging for the proper "After Swage" dimensions or proof loading.



| S-502 Stock No. | Rope Size |       | Wt. Each (lbs.) | Ultimate Load** (t) | Before Swage Dimensions (in.) |      |      |      |      |       |      |       | Max. After Swage Dim. (in.) |
|-----------------|-----------|-------|-----------------|---------------------|-------------------------------|------|------|------|------|-------|------|-------|-----------------------------|
|                 | (in.)     | (mm)  |                 |                     | A                             | B    | C    | D    | E    | F     | H    | L     |                             |
| 1039325         | 1/4       | 6     | .33             | 5.4                 | 4.28                          | .50  | 1.38 | .76  | .27  | 2.19  | .50  | 3.50  | .46                         |
| 1039343         | 5/16      | 8     | .75             | 11.8                | 5.42                          | .77  | 1.62 | .88  | .34  | 3.25  | .68  | 4.50  | .71                         |
| 1039361         | 3/8       | 9-10  | .72             | 13.6                | 5.42                          | .78  | 1.62 | .88  | .41  | 3.25  | .68  | 4.50  | .71                         |
| 1039389         | 7/16      | 11-12 | 1.42            | 18.1                | 6.88                          | 1.01 | 2.00 | 1.07 | .49  | 4.31  | .87  | 5.75  | .91                         |
| 1039405         | 1/2       | 13    | 1.42            | 21.3                | 6.88                          | 1.01 | 2.00 | 1.07 | .55  | 4.31  | .87  | 5.75  | .91                         |
| 1039423         | 9/16      | 14    | 2.92            | 31.8                | 8.59                          | 1.27 | 2.38 | 1.28 | .61  | 5.38  | 1.14 | 7.25  | 1.16                        |
| 1039441         | 5/8       | 16    | 2.85            | 34.9                | 8.59                          | 1.27 | 2.38 | 1.28 | .68  | 5.38  | 1.14 | 7.25  | 1.16                        |
| 1039469         | 3/4       | 18-20 | 5.00            | 43.5                | 10.25                         | 1.56 | 2.88 | 1.49 | .80  | 6.44  | 1.33 | 8.63  | 1.42                        |
| 1039487         | 7/8       | 22    | 6.80            | 51.5                | 11.87                         | 1.72 | 3.12 | 1.73 | .94  | 7.50  | 1.53 | 10.09 | 1.55                        |
| 1039502         | 1         | 24-26 | 10.40           | 71.4                | 13.56                         | 2.00 | 3.62 | 2.11 | 1.07 | 8.63  | 1.78 | 11.50 | 1.80                        |
| 1039520         | 1-1/8     | 28    | 14.82           | 83.3                | 15.03                         | 2.25 | 4.00 | 2.37 | 1.19 | 9.75  | 2.03 | 12.75 | 2.05                        |
| 1039548         | 1-1/4     | 32    | 21.57           | 109                 | 16.94                         | 2.53 | 4.50 | 2.62 | 1.34 | 10.81 | 2.25 | 14.38 | 2.30                        |

ROLL OFF CABLE ASSEMBLIES

Features

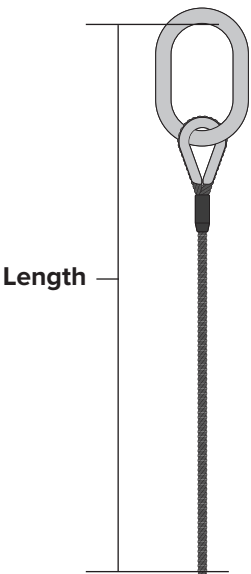
- Sizes available from 1/4" to 1-1/2"
- 6x25 or 6x37 IWRC EIPS wire rope
- Made in Hatfield, PA.
- Heavy duty stainless steel tag available upon request

How To Order

- Specify wire rope size (7/8" is standard)
- Specify Overall length
- Specify end fitting
- Specify button length and diameter

Cable Assembly Types

- **11-9-0** - Cable assembly with a thimble eye and master link on one end
- **11-8-0** - Cable assembly with a thimble eye and pear link on one end
- **11-CE-0** - Cable assembly with a swaged button and a roll-off hook on one end
- **11-SB-0** - Cable assembly with a swaged button on one end
- **11-SB-SB** - Cable assembly with swaged buttons on both ends



| 11-9-0 | 11-8-0 | 11-CE-0 | 11-SB-0 | 11-SB-SB |
|--------|--------|---------|---------|----------|
|        |        |         |         |          |

ROLL OFF CONTAINER STRAP

- To provide for compliance with DOT standard 49 CFR section 393.134, this hook is suitable for connecting to the bottom rails of a standard roll-on/roll-off waste container.
- Working Load Limit: 5,000 lbs./2270 kgs.
- Weight: 2.8 lbs., 1.3 kgs.



| Stock Number | Working Load Limit | Length in Feet |
|--------------|--------------------|----------------|
| 1400-7700    | 5,000 lbs.         | 3" x 5'        |
| 1400-7600    | 5,000 lbs.         | 4" x 5'        |

ROLL OFF HOOK

- Heavy duty design
- Alloy steel for strength and durability
- For 7/8" wire rope
- 17,000 lb. working load limit
- 4.075" W x 12.27 L



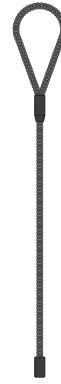
| Stock Number | Working Load Limit | Dimensions         |
|--------------|--------------------|--------------------|
| 1400-7700    | 17,000 lbs.        | 4.075" W x 12.27 L |

## PIPE CARRIER LIFTING SLING

An efficient way to handle concrete water and sewer pipe

Pipe Carrier slings can be made to any length to fit the specific needs of your application. Each sling has a standard eye on one end and a button on the other end. Button Length can also be adjusted per your request.

| Stock No. | Tea Cup Model Number | Wire Rope Diameter (in.) | Sling Length (ft.) |
|-----------|----------------------|--------------------------|--------------------|
| 550-2980  | PC-3/4 (F)           | 7/8                      | 5                  |
| 550-3400  | PC-1 (F)             | 1-1/4                    | 5                  |
| 550-3430  | PC-1 1/2 (F)         | 1-1/2                    | 5                  |

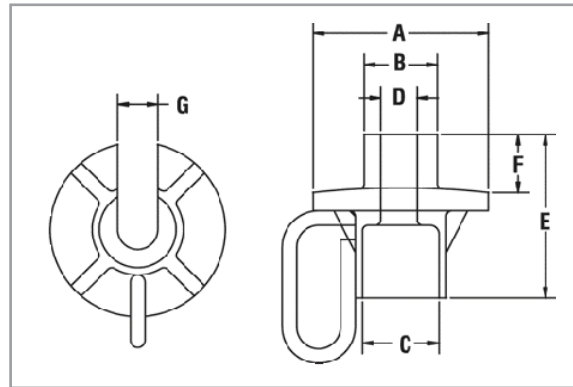


## TEA CUP PIPE CARRIER

Light-weight and economical solution for handling large precast concrete pipes.

### Features:

- An efficient way to handle concrete water and sewer pipes.
- The Caldwell "Tea Cup" Pipe Carrier will save you time and money.
- Three sizes available, to handle from 3/4" to 1-1/2" cable, and lift up to 18 tons.
- Optional "Spoon Handle" allows the PC-3/4 "Tea Cup" to be guided into small diameter pipes.
- Complies with ASME standards.



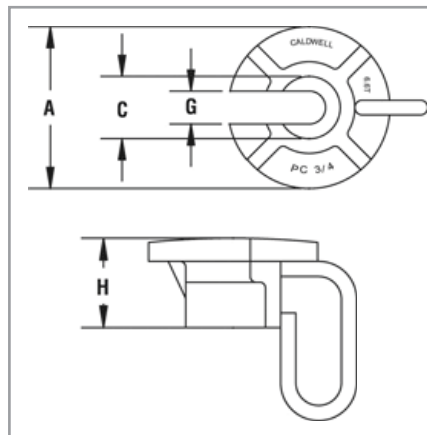
| Stock Number | Model Number | Rope Diameter in Inches | Rated Capacity in Tons | A (in.) | B (in.) | C (in.) | D (in.) | E (in.) | F (in.) | G (in.) | Unit Weight in Pounds |
|--------------|--------------|-------------------------|------------------------|---------|---------|---------|---------|---------|---------|---------|-----------------------|
| 400-3370     | PC-3/4       | 7/8                     | 6.6                    | 5.56    | 2       | 2.13    | 1.13    | 4.75    | 1.75    | 1.13    | 9                     |
| 400-3380     | PC-1         | 1 1/4                   | 13                     | 6       | 2.50    | 2.63    | 1.38    | 5.75    | 1.75    | 1.38    | 12                    |
| 400-3390     | PC-1 1/2     | 1 1/2                   | 18                     | 8       | 3       | 3.25    | 1.63    | 7.63    | 2.75    | 1.63    | 22                    |

## LOW PROFILE TEA CUP PIPE CARRIER

Light-weight and economical solution for handling large precast concrete pipes.

### Features:

- Low Profile design required only wire rope be inserted through pipe.
- An efficient way to handle concrete water and sewer pipes.
- The Caldwell "Tea Cup" Pipe Carrier will save you time and money.
- Three sizes available, to handle from 3/4" to 1-1/2" cable, and lift up to 18 tons.
- Optional "Spoon Handle" allows the PC-3/4 "Tea Cup" to be guided into small diameter pipes.
- Complies with ASME standards.



| Stock Number | Model Number | Rope Diameter in Inches | Rated Capacity in Tons | A (in.) | C (in.) | H (in.) | G (in.) | Unit Weight in Pounds |
|--------------|--------------|-------------------------|------------------------|---------|---------|---------|---------|-----------------------|
| 400-3375     | PC-3/4-F     | 7/8                     | 6.6                    | 5.56    | 2.13    | 3.44    | 1.13    | 9                     |
| 400-3386     | PC-1-F       | 1 1/4                   | 13                     | 6       | 2.63    | 4.38    | 1.38    | 12                    |
| 400-3388     | PC-1 1/2-F   | 1 1/2                   | 18                     | 8       | 3.25    | 5.13    | 1.63    | 22                    |

## GRADE 100 SINGLE LEG ALLOY CHAIN SLINGS

### Features

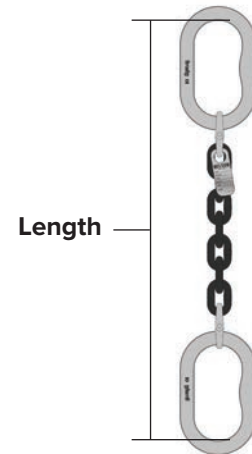
- Heavy duty stainless steel identification tag
- Sizes available from 9/32" to 1-1/4"
- Every chain sling is proof test to 2x its working load limit
- Latches included with all sling hooks
- 4 to 1 safety factor
- Made in Hatfield, PA.

### How To Order

- Specify chain size
- Specify leg length (bearing point to bearing point)
- Specify end fittings

### Standard Single Leg Sling Models

- **S00** - Single leg chain sling with oblong master links on each end
- **S0S** - Single leg chain sling with oblong master link on one end, clevis sling hook on other end
- **S0G** - Single leg chain sling with oblong master link on one end, clevis grab hook on other end
- **S0SL** - Single leg chain sling with oblong master link on one end, clevis self-locking hook on other end
- **SSS** - Single leg chain sling with clevis sling hooks on both ends
- **SGS** - Single leg chain sling with clevis sling hook on one end, clevis grab hook on other end
- **SGG** - Single leg chain sling with clevis grab hooks on both ends



| S00 | S0S | S0G | S0SL | S0F | SSS | SGS | SGG |
|-----|-----|-----|------|-----|-----|-----|-----|
|     |     |     |      |     |     |     |     |

### Grade 100 Single Leg Alloy Chain Slings

| Chain Size |      | Chain Grade | Rated Capacity (lbs.) | Alloy Master Link Dimensions (in.) |          |              |               |
|------------|------|-------------|-----------------------|------------------------------------|----------|--------------|---------------|
| (in.)      | (mm) |             |                       | Size                               | Diameter | Inside Width | Inside Length |
| 9/32       | 7.0  | 100         | 4,300                 | 1/2W                               | 0.62     | 2.80         | 5.00          |
| 3/8        | 10.0 | 100         | 8,800                 | 3/4W                               | 0.73     | 3.20         | 6.00          |
| 1/2        | 13.0 | 100         | 15,000                | 7/8W                               | 0.88     | 3.75         | 6.38          |
| 5/8        | 16.0 | 100         | 22,600                | 1-1/4W                             | 1.33     | 5.50         | 9.50          |
| 3/4        | 20.0 | 100         | 35,300                | 1-1/4W                             | 1.33     | 5.50         | 9.50          |
| 7/8        | 22   | 100         | 42,700                | 1-3/4                              | 1.75     | 6.00         | 12.00         |
| 1          | 26   | 100         | 59,700                | 1-3/4                              | 1.75     | 6.00         | 12.00         |
| 1 1/4      | 32   | 100         | 90,400                | 2                                  | 2.00     | 7.00         | 14.00         |



**WARNING** DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.



## GRADE 100 DOUBLE LEG ALLOY CHAIN SLINGS

### Features

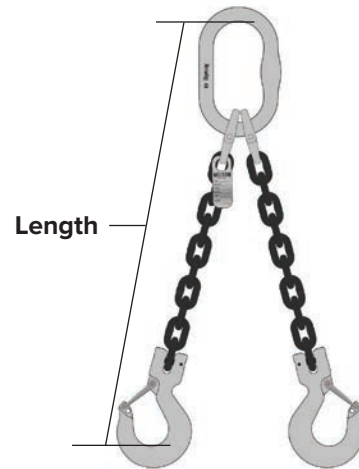
- Heavy duty stainless steel identification tag
- Sizes available from 9/32" to 1-1/4"
- Every chain sling is proof test to 2x its working load limit
- Latches included with all sling hooks
- 4 to 1 safety factor
- Made in Hatfield, PA.

### How To Order

- Specify chain size
- Specify leg length (bearing point to bearing point)
- Specify end fittings

### Standard Double Leg Sling Models

- **DOS** - Double leg chain sling with an oblong master link at the top, clevis sling hooks at the bottom
- **DOSL** - Double leg chain sling with an oblong master link at the top, clevis self-locking hooks at the bottom
- **DOG** - Double leg chain sling with an oblong master link at the top, clevis grab hooks at the bottom
- **DOSA** - Double leg chain sling with an oblong master link and grab hooks at the top for adjusting leg length, clevis sling hooks at the bottom
- **DOSB** - Double leg chain sling with an oblong master link, grab hooks and one foot of chain at the top for adjusting leg length, clevis sling hooks at the bottom
- **DOF** - Double leg chain sling with an oblong master link, clevis foundry hooks at the bottom (*not pictured below*)



| DOS | DOSL | DOG | DOSA | DOSB |
|-----|------|-----|------|------|
|     |      |     |      |      |

### Grade 100 Double Leg Alloy Chain Slings

| Chain Size |      | Chain Grade | Rated Capacity (lbs.) |         |        | Alloy Master Link Dimensions (in.) |          |              |               |
|------------|------|-------------|-----------------------|---------|--------|------------------------------------|----------|--------------|---------------|
| (in.)      | (mm) |             | 60°                   | 45°     | 30°    | Size                               | Diameter | Inside Width | Inside Length |
| 9/32       | 7.0  | 100         | 7,500                 | 6,100   | 4,300  | 1/2W                               | 0.62     | 2.80         | 5.00          |
| 3/8        | 10.0 | 100         | 15,200                | 12,400  | 8,800  | 7/8W                               | 0.88     | 3.75         | 6.38          |
| 1/2        | 13.0 | 100         | 26,000                | 21,200  | 15,000 | 1W                                 | 1.10     | 4.30         | 7.50          |
| 5/8        | 16.0 | 100         | 39,000                | 32,000  | 22,600 | 1-1/4W                             | 1.33     | 5.50         | 9.50          |
| 3/4        | 20.0 | 100         | 61,100                | 49,900  | 35,300 | 1-1/2W                             | 1.61     | 5.90         | 10.50         |
| 7/8        | 22   | 100         | 74,000                | 60,400  | 42,700 | 1-3/4                              | 1.75     | 6.00         | 12.00         |
| 1          | 26   | 100         | 103,400               | 84,400  | 59,700 | 2                                  | 2.00     | 7.00         | 14.00         |
| 1 1/4      | 32   | 100         | 156,600               | 127,800 | 90,400 | 2-1/2                              | 2.5      | 8.38         | 16.00         |


**WARNING**

DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.

## GRADE 100 TRIPLE LEG ALLOY CHAIN SLINGS

### Features

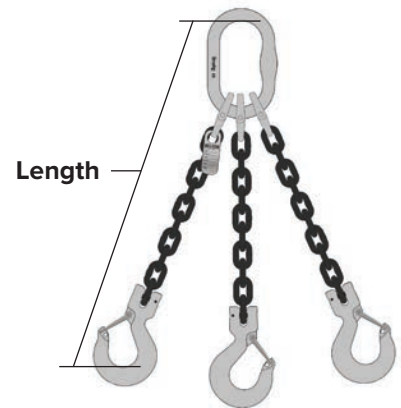
- Heavy duty steel identification tag
- Sizes available from 9/32" to 1-1/4"
- Every chain sling is proof test to 2x its working load limit
- Latches included with all sling hooks
- 4 to 1 safety factor
- Made in Hatfield, PA.

### How To Order

- Specify chain size
- Specify leg length (bearing point to bearing point)
- Specify end fittings

### Standard Triple Leg Sling Models

- **TOS** - Triple leg chain sling with an oblong master link at the top, clevis sling hooks at the bottom
- **TOSL** - Triple leg chain sling with an oblong master link at the top, clevis self-locking hooks at the bottom
- **TOG** - Triple leg chain sling with an oblong master link at the top, clevis grab hooks at the bottom
- **TOSA** - Double leg chain sling with an oblong master link and grab hooks at the top for adjusting leg length, clevis sling hooks at the bottom *(not pictured below)*
- **TOSB** - Double leg chain sling with an oblong master link, grab hooks and one foot of chain at the top for adjusting leg length, clevis sling hooks at the bottom *(not pictured below)*
- **TOF** - Triple leg chain sling with an oblong master link, clevis foundry hooks at the bottom *(not pictured below)*



| TOS | TOSL | TOG |
|-----|------|-----|
|     |      |     |

### Grade 100 Triple Leg Alloy Chain Slings

| Chain Size |      | Chain Grade | Rated Capacity (lbs.) |         |         | Alloy Master Link Assembly Dimensions (in.) |          |              |               |
|------------|------|-------------|-----------------------|---------|---------|---------------------------------------------|----------|--------------|---------------|
| (in.)      | (mm) |             | 60°                   | 45°     | 30°     | Size                                        | Diameter | Inside Width | Inside Length |
| 9/32       | 7.0  | 100         | 11,200                | 9,100   | 6,450   | 3/4W                                        | 0.73     | 3.20         | 6.00          |
| 3/8        | 10.0 | 100         | 22,800                | 18,600  | 13,200  | 1W                                          | 1.10     | 4.30         | 7.50          |
| 1/2        | 13.0 | 100         | 39,000                | 31,800  | 22,500  | 1-1/4W                                      | 1.33     | 5.50         | 9.50          |
| 5/8        | 16.0 | 100         | 58,700                | 47,900  | 33,900  | 1-1/2W                                      | 1.61     | 5.90         | 10.50         |
| 3/4        | 20.0 | 100         | 91,700                | 74,900  | 53,000  | 1-3/4                                       | 1.75     | 6.00         | 12.00         |
| 7/8        | 22   | 100         | 110,900               | 90,600  | 64,000  | 2-1/4                                       | 2.25     | 8.00         | 16.00         |
| 1          | 26   | 100         | 155,100               | 126,000 | 89,550  | 2-1/4                                       | 2.25     | 8.00         | 16.00         |
| 1 1/4      | 32   | 100         | 234,900               | 191,700 | 135,600 | 3-1/4                                       | 3.25     | 10.00        | 20.00         |



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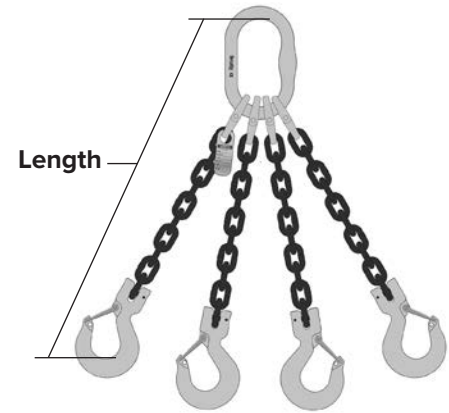
## GRADE 100 QUADRUPLE LEG ALLOY CHAIN SLINGS

### Features

- Heavy duty steel identification tag
- Sizes available from 9/32" to 1-1/4"
- Every chain sling is proof test to 2x its working load limit
- Latches included with all sling hooks
- 4 to 1 safety factor
- Made in Hatfield, PA.

### How To Order

- Specify chain size
- Specify leg length (bearing point to bearing point)
- Specify end fittings



### Standard Quadruple Leg Sling Models

- **QOS** - Quadruple leg chain sling with an oblong master link at the top, clevis sling hooks at the bottom
- **QOSL** - Quadruple leg chain sling with an oblong master link at the top, clevis self-locking hooks at the bottom
- **QOG** - Quadruple leg chain sling with an oblong master link at the top, clevis grab hooks at the bottom
- **QOSA** - Quadruple leg chain sling with an oblong master link and grab hooks at the top for adjusting leg length, clevis sling hooks at the bottom (*not pictured below*)
- **QOSB** - Quadruple leg chain sling with an oblong master link, grab hooks and one foot of chain at the top for adjusting leg length, clevis sling hooks at the bottom (*not pictured below*)
- **QOF** - Quadruple leg chain sling with an oblong master link, clevis foundry hooks at the bottom (*not pictured below*)

| QOS | QOSL | QOG |
|-----|------|-----|
|     |      |     |

### Grade 100 Quadruple Leg Alloy Chain Slings

| Chain Size |      | Chain Grade | Rated Capacity (lbs.) |         |         | Alloy Master Link Assembly Dimensions (in.) |          |              |               |
|------------|------|-------------|-----------------------|---------|---------|---------------------------------------------|----------|--------------|---------------|
| (in.)      | (mm) |             | 60°                   | 45°     | 30°     | Size                                        | Diameter | Inside Width | Inside Length |
| 9/32       | 7.0  | 100         | 11,200                | 9,100   | 6,450   | 3/4W                                        | 0.73     | 3.20         | 6.00          |
| 3/8        | 10.0 | 100         | 22,800                | 18,600  | 13,200  | 1W                                          | 1.10     | 4.30         | 7.50          |
| 1/2        | 13.0 | 100         | 39,000                | 31,800  | 22,500  | 1-1/4W                                      | 1.33     | 5.50         | 9.50          |
| 5/8        | 16.0 | 100         | 58,700                | 47,900  | 33,900  | 1-1/2W                                      | 1.61     | 5.90         | 10.50         |
| 3/4        | 20.0 | 100         | 91,700                | 74,900  | 53,000  | 1-3/4                                       | 1.75     | 6.00         | 12.00         |
| 7/8        | 22   | 100         | 110,900               | 90,600  | 64,000  | 2-1/4                                       | 2.25     | 8.00         | 16.00         |
| 1          | 26   | 100         | 155,100               | 126,000 | 89,550  | 2-1/4                                       | 2.25     | 8.00         | 16.00         |
| 1 1/4      | 32   | 100         | 234,900               | 191,700 | 135,600 | 3-1/4                                       | 3.25     | 10.00        | 20.00         |



**WARNING** DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.

## GRADE 100 GRABIQ SINGLE LEG ALLOY CHAIN SLINGS

### Features

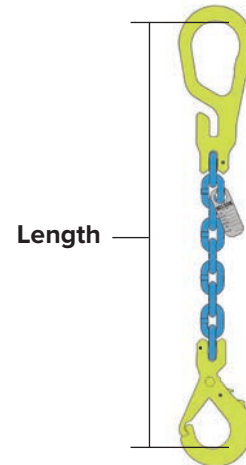
- Heavy duty stainless steel identification tag
- Sizes available from 5/16" to 5/8"
- Every chain sling is proof test to 2x its working load limit
- Latches included with all sling hooks
- 4 to 1 safety factor
- Made in Hatfield, PA.

### How To Order

- Specify chain size
- Specify leg length (bearing point to bearing point)
- Specify end fittings

### Standard Single Leg Sling Models

- **MG-GBK** - Single leg chain sling with a master grab link at the top, clevis self locking grip hook at the bottom
- **MG-EKGN** - Single leg chain sling with a master grab link at the top, clevis self sling hook at the bottom
- **MG-LKBK** - Single leg chain sling with a master grab link at the top, swivel hook with bearing at the bottom
- **TG1-GBK** - Single leg chain sling with master link and C-Grab at the top, clevis self locking grip hook at the bottom
- **TL1-GBK** - Single leg chain sling with master link and C-Lok at the top, clevis self locking grip hook at the bottom
- **TL1X-GBK** - Single leg chain sling with oversized master link and C-Lok at the top, clevis self locking grip hook at the bottom



| MG-GBK                                                                             | MG-EKGN                                                                            | MG-LKBK                                                                            | TG1-GBK                                                                            | TL1-GBK                                                                              | TL1X-GBK                                                                             |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |  |

### Grade 100 GrabIQ Single Leg Alloy Chain Slings

| Chain Size |      | Chain Grade | Rated Capacity (lbs.) | Dimesions (in.)  |              |               |                         |              |               |                                 |              |               |
|------------|------|-------------|-----------------------|------------------|--------------|---------------|-------------------------|--------------|---------------|---------------------------------|--------------|---------------|
| (in.)      | (mm) |             |                       | Master Grab (MG) |              |               | Oblong Master Link (MF) |              |               | MFX Oversized Master Link (MFX) |              |               |
|            |      |             |                       | Diameter         | Inside Width | Inside Length | Diameter                | Inside Width | Inside Length | Diameter                        | Inside Width | Inside Length |
| 5/16"      | 8.00 | 100         | 5,700                 | 0.71             | 2.4          | 3.6           | 0.55                    | 2.8          | 4.9           | 1.0                             | 7.1          | 13.4          |
| 3/8        | 10.0 | 100         | 8,800                 | 0.87             | 3.0          | 4.4           | 0.67                    | 3.1          | 5.5           | 1.0                             | 7.1          | 13.4          |
| 1/2        | 13.0 | 100         | 15,000                | 1.0              | 3.5          | 5.4           | 0.87                    | 3.7          | 6.3           | 1.1                             | 7.1          | 13.4          |
| 5/8        | 16.0 | 100         | 22,600                | 1.2              | 4.1          | 6.2           | 1.1                     | 4.3          | 7.5           | 1.3                             | 7.1          | 13.4          |



### WARNING

DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.

## GRADE 100 GRABIQ DOUBLE LEG ALLOY CHAIN SLINGS

### Features

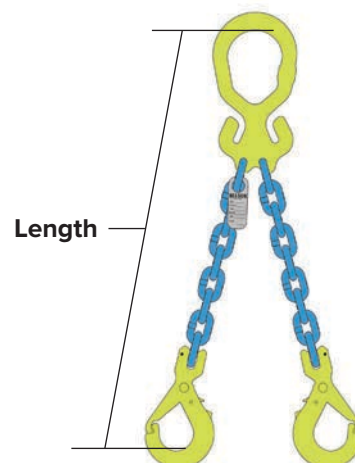
- Heavy duty stainless steel identification tag
- Sizes available from 5/16" to 5/8"
- Every chain sling is proof test to 2x its working load limit
- Latches included with all sling hooks
- 4 to 1 safety factor
- Made in Hatfield, PA.

### How To Order

- Specify chain size
- Specify leg length (bearing point to bearing point)
- Specify end fittings

### Standard Double Leg Sling Models

- **MGD-EGKN** - Double leg chain sling with a master grab link at the top, clevis sling hooks at the bottom
- **MGD-GBK** - Double leg chain sling with a master grab link at the top, clevis self locking grip hooks at the bottom
- **MGD-GC** - Double leg chain sling with a master grab link at the top, clevis grab hooks at the bottom
- **TG2-GBK** - Double leg chain sling with an oblong master link and dual C-Grab at the top, clevis self locking grip hooks at the bottom
- **TG2X-GBK** - Double leg chain sling with an oversized oblong master link and dual C-Grab at the top, clevis self locking grip hooks at the bottom



| MGD-EGKN | MGD-GBK | MGD-GC | TG2-GBK | TG2X-GBK |
|----------|---------|--------|---------|----------|
|          |         |        |         |          |

### Grade 100 GrabIQ Double Leg Alloy Chain Slings

| Chain Size |      | Chain Grade | Rated Capacity (lbs.) |        |        | Dimesions (in.)        |              |               |                         |              |               |                             |              |               |
|------------|------|-------------|-----------------------|--------|--------|------------------------|--------------|---------------|-------------------------|--------------|---------------|-----------------------------|--------------|---------------|
| (in.)      | (mm) |             |                       |        |        | Master Grab Dual (MGD) |              |               | Oblong Master Link (MF) |              |               | Oversized Master Link (MFX) |              |               |
|            |      |             | 60°                   | 45°    | 30°    | Dia.                   | Inside Width | Inside Length | Dia.                    | Inside Width | Inside Length | Dia.                        | Inside Width | Inside Length |
| 5/16"      | 8.00 | 100         | 9,900                 | 8,100  | 5,700  | 0.83                   | 3.0          | 3.9           | 0.67                    | 3.1          | 5.5           | 1.0                         | 7.1          | 13.4          |
| 3/8        | 10.0 | 100         | 15,200                | 12,400 | 8,800  | 0.94                   | 3.5          | 4.9           | 0.87                    | 3.7          | 6.3           | 1.1                         | 7.1          | 13.4          |
| 1/2        | 13.0 | 100         | 26,000                | 21,200 | 15,000 | 1.2                    | 4.1          | 5.9           | 1.1                     | 4.3          | 7.5           | 1.3                         | 7.1          | 13.4          |
| 5/8        | 16.0 | 100         | 39,000                | 32,000 | 22,600 | 1.4                    | 4.7          | 6.9           | 1.3                     | 5.5          | 9.4           | 1.5                         | 7.1          | 13.4          |



### WARNING

DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.

## GRADE 100 GRABIQ TRIPLE LEG ALLOY CHAIN SLINGS

### Features

- Heavy duty steel identification tag
- Sizes available from 5/16" to 5/8"
- Every chain sling is proof test to 2x its working load limit
- Latches included with all sling hooks
- 4 to 1 safety factor
- Made in Hatfield, PA.

### How To Order

- Specify chain size
- Specify leg length (bearing point to bearing point)
- Specify end fittings



### Standard Triple Leg Sling Models

- **TG3-GBK** - Triple leg chain sling with an oblong master link, dual C-Grab, and C-Grab at the top, clevis self-locking grip hooks at the bottom
- **TG3-EGKN** - Triple leg chain sling with an oblong master link, dual C-Grab, and C-Grab at the top, clevis sling hooks at the bottom
- **TG3H-GBK** - Triple leg chain sling with an oversized oblong master link, dual C-Grab, and C-Grab at the top, clevis self-locking grip hooks at the bottom

| TG3-GBK | TG3-EGKN | TG3H-GBK |
|---------|----------|----------|
|         |          |          |

### Grade 100 GrabIQ Triple Leg Alloy Chain Slings

| Chain Size |      | Chain Grade | Rated Capacity (lbs.)   |              |               | Dimesions (in.) |              |               |     |     |      |
|------------|------|-------------|-------------------------|--------------|---------------|-----------------|--------------|---------------|-----|-----|------|
| (in.)      | (mm) |             |                         |              |               | 60°             |              |               | 45° |     |      |
|            |      |             | Oblong Master Link (MF) |              |               |                 |              |               |     |     |      |
|            |      |             | Diameter                | Inside Width | Inside Length | Diameter        | Inside Width | Inside Length |     |     |      |
| 5/16"      | 8.00 | 100         | 14,800                  | 12,100       | 8,500         | 0.87            | 3.7          | 6.3           | 0.9 | 4.9 | 9.1  |
| 3/8        | 10.0 | 100         | 22,800                  | 18,600       | 13,200        | 1.1             | 4.3          | 7.5           | 1.1 | 5.3 | 9.8  |
| 1/2        | 13.0 | 100         | 39,000                  | 31,800       | 22,500        | 1.3             | 5.5          | 9.4           | 1.3 | 5.3 | 11.0 |
| 5/8        | 16.0 | 100         | 58,700                  | 47,900       | 33,900        | 1.6             | 5.9          | 9.8           | 1.6 | 6.9 | 12.6 |



### WARNING

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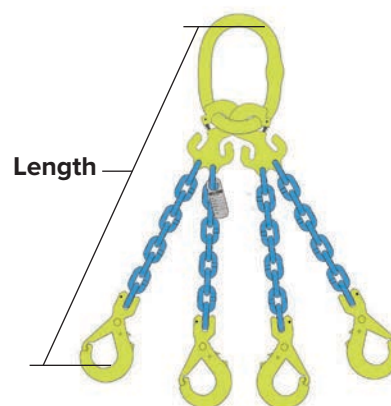
## GRADE 100 GRABIQ QUADRUPLE LEG ALLOY CHAIN SLINGS

### Features

- Heavy duty steel identification tag
- Sizes available from 5/16" to 5/8"
- Every chain sling is proof test to 2x its working load limit
- Latches included with all sling hooks
- 4 to 1 safety factor
- Made in Hatfield, PA.

### How To Order

- Specify chain size
- Specify leg length (bearing point to bearing point)
- Specify end fittings



### Standard Quadruple Leg Sling Models

- **TG4-GBK** - Quadruple leg chain sling with an oblong master link and dual C-Grabs at the top, clevis self-locking grip hooks at the bottom
- **TG4-EGKN** - Quadruple leg chain sling with an oblong master link and dual C-Grabs at the top, clevis sling hooks at the bottom
- **TG4H-EGKN** - Quadruple leg chain sling with an oversized oblong master link and dual C-Grabs at the top, clevis sling hooks at the bottom

| TG4-GBK | TG4-EGKN | TG4H-EGKN |
|---------|----------|-----------|
|         |          |           |

### Grade 100 GrabIQ Quadruple Leg Alloy Chain Slings

| Chain Size |      | Chain Grade | Rated Capacity (lbs.) |        |        | Dimesions (in.)         |              |               |                             |              |               |
|------------|------|-------------|-----------------------|--------|--------|-------------------------|--------------|---------------|-----------------------------|--------------|---------------|
| (in.)      | (mm) |             |                       |        |        | Oblong Master Link (MF) |              |               | Oversized Master Link (MFH) |              |               |
|            |      |             | 60°                   | 45°    | 30°    | Diameter                | Inside Width | Inside Length | Diameter                    | Inside Width | Inside Length |
| 5/16"      | 8.00 | 100         | 14,800                | 12,100 | 8,500  | 0.87                    | 3.7          | 6.3           | 0.9                         | 4.9          | 9.1           |
| 3/8        | 10.0 | 100         | 22,800                | 18,600 | 13,200 | 1.1                     | 4.3          | 7.5           | 1.1                         | 5.3          | 9.8           |
| 1/2        | 13.0 | 100         | 39,000                | 31,800 | 22,500 | 1.3                     | 5.5          | 9.4           | 1.3                         | 5.3          | 11.0          |
| 5/8        | 16.0 | 100         | 58,700                | 47,900 | 33,900 | 1.6                     | 5.9          | 9.8           | 1.6                         | 6.9          | 12.6          |



### WARNING

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## EYE & EYE WEB SLINGS

Eye & Eye “EE” Web slings are made with a loop, or eye, on each end of the body. Eyes vary depending on the application but may be ordered as follows:

### TYPE III

“EE” Web sling made with a flat loop eye on each end with loop eye opening on same plane as the sling body. This type of sling is sometimes called: flat eye & eye; eye & eye or double eye sling. Versatile and flexible, this sling can be used in all three hitches (vertical, basket and choker).

### TYPE IV

“TE” Web sling made with a loop eye on each end that is at a right angle to the plane of the sling body. This type of sling is commonly referred to as a “twisted eye” sling. This sling is suitable for all hitches, but is recommended particularly for choker hitch application.



Wear pad in eyes for extra protection  
come standard on all EE92 Slings

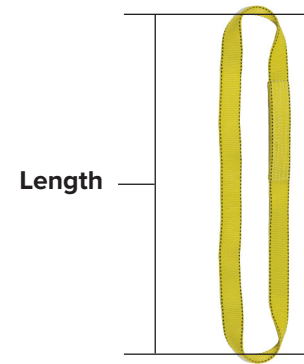
| # of Plys | Part No. | Web Width (Inches) | Rated Capacity (lbs.) |        |        | Eye Dimensions (inches) |        | Min. Standard Length (ft) | Approximate Sling Weight (lbs.) |           |
|-----------|----------|--------------------|-----------------------|--------|--------|-------------------------|--------|---------------------------|---------------------------------|-----------|
|           |          |                    | Vertical              | Choke  | Basket | Width                   | Length |                           | Base                            | Adder/ft. |
| 1         | EE191    | 1                  | 1,600                 | 1,250  | 3,200  | 1                       | 9      | 3                         | .40                             | .06       |
|           | EE192    | 2                  | 3,200                 | 2,500  | 6,400  | 2                       | 9      | 4                         | .90                             | .12       |
|           | EE193    | 3                  | 4,800                 | 3,800  | 9,600  | 1-1/2                   | 9      | 4                         | 1.40                            | .18       |
|           | EE194    | 4                  | 6,400                 | 5,000  | 12,800 | 2                       | 12     | 4                         | 1.90                            | .24       |
|           | EE196    | 6                  | 9,300                 | 7,440  | 18,600 | 2                       | 14     | 5                         | 3.40                            | .36       |
| 2         | EE291    | 1                  | 3,200                 | 2,500  | 6,400  | 1                       | 9      | 3                         | .40                             | .13       |
|           | EE292    | 2                  | 6,400                 | 5,000  | 12,800 | 2                       | 9      | 3                         | .90                             | .25       |
|           | EE293    | 3                  | 9,300                 | 7,440  | 18,600 | 1-1/2                   | 12     | 4                         | 1.70                            | .38       |
|           | EE294    | 4                  | 11,500                | 9,200  | 23,000 | 2                       | 12     | 4                         | 2.30                            | .50       |
|           | EE296    | 6                  | 16,500                | 13,200 | 33,000 | 2                       | 14     | 6                         | 4.90                            | .76       |
| 3         | EE391    | 1                  | 4,100                 | 3,280  | 8,200  | 1                       | 12     | 4                         | 1.0                             | .20       |
|           | EE392    | 2                  | 8,300                 | 6,640  | 16,600 | 2                       | 12     | 4                         | 2.10                            | .40       |
|           | EE393    | 3                  | 12,500                | 10,000 | 25,000 | 1-1/2                   | 18     | 5                         | 3.70                            | .59       |
|           | EE394    | 4                  | 16,000                | 12,800 | 32,000 | 2                       | 18     | 5                         | 5.00                            | .79       |
|           | EE396    | 6                  | 23,000                | 18,400 | 46,000 | 3                       | 20     | 5                         | 7.60                            | 1.2       |
| 4         | EE491    | 1                  | 6,200                 | 4,960  | 12,400 | 1                       | 12     | 4                         | 1.10                            | .26       |
|           | EE492    | 2                  | 12,400                | 9,920  | 24,800 | 2                       | 12     | 4                         | 2.20                            | .53       |
|           | EE493    | 3                  | 17,000                | 13,600 | 34,000 | 1-1/2                   | 18     | 5                         | 4.10                            | .79       |
|           | EE494    | 4                  | 22,000                | 17,600 | 44,000 | 2                       | 18     | 5                         | 5.50                            | 1.1       |
|           | EE496    | 6                  | 33,000                | 26,400 | 66,000 | 3                       | 20     | 5                         | 8.30                            | 1.6       |



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## ENDLESS WEB SLINGS

“EN” Web slings are a continuous loop formed by joining ends of the webbing together with a loadbearing splice. They are extremely versatile as the design allows for rotation of bearing points, avoiding one constant bearing point and thereby increasing useful life. They are suitable for use with all three hitches: vertical, basket and choker.



| # of Pls | Part No. | Web Width (Inches) | Rated Capacity (lbs.) |        |         | Min. Standard Length (ft) | Approximate Sling Weight (lbs.) |           |
|----------|----------|--------------------|-----------------------|--------|---------|---------------------------|---------------------------------|-----------|
|          |          |                    | Vertical              | Choke  | Basket  |                           | Base                            | Adder/ft. |
| 1        | EN191    | 1                  | 3,200                 | 2,500  | 6,400   | 3                         | .40                             |           |
|          | EN192    | 2                  | 6,400                 | 5,000  | 12,800  | 3                         | .80                             |           |
|          | EN193    | 3                  | 8,600                 | 6,900  | 17,200  | 3                         | 1.30                            |           |
|          | EN194    | 4                  | 11,500                | 9,200  | 23,000  | 3                         | 1.70                            |           |
|          | EN196    | 6                  | 16,300                | 13,000 | 32,600  | 3                         | 2.50                            |           |
| 2        | EN291    | 1                  | 6,200                 | 4,900  | 12,400  | 3                         | .80                             |           |
|          | EN292    | 2                  | 12,200                | 9,800  | 24,400  | 3                         | 1.60                            |           |
|          | EN293    | 3                  | 16,300                | 13,000 | 32,600  | 3                         | 2.50                            |           |
|          | EN294    | 4                  | 20,700                | 16,500 | 41,400  | 3                         | 3.30                            |           |
|          | EN296    | 6                  | 28,600                | 23,000 | 57,200  | 3                         | 4.90                            |           |
| 3        | EN391    | 1                  | 8,000                 | 6,400  | 16,000  | 3                         | 1.20                            |           |
|          | EN392    | 2                  | 16,000                | 12,800 | 32,000  | 3                         | 2.40                            |           |
|          | EN393    | 3                  | 21,500                | 17,200 | 43,000  | 3                         | 3.60                            |           |
|          | EN394    | 4                  | 28,700                | 23,000 | 57,400  | 3                         | 4.80                            |           |
|          | EN396    | 6                  | 40,700                | 32,500 | 81,400  | 3                         | 7.20                            |           |
| 4        | EN491    | 1                  | 10,000                | 8,000  | 20,000  | 3                         | 1.60                            |           |
|          | EN492    | 2                  | 19,800                | 15,800 | 39,600  | 3                         | 3.20                            |           |
|          | EN493    | 3                  | 26,700                | 21,300 | 53,400  | 3                         | 4.90                            |           |
|          | EN494    | 4                  | 35,600                | 28,400 | 71,200  | 3                         | 6.50                            |           |
|          | EN496    | 6                  | 50,500                | 40,400 | 101,000 | 3                         |                                 |           |


**WARNING**

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## REVERSED EYE WEB SLINGS

The Workhorse of all web slings. When application is continuous or abusive, Reversed Eye Slings will outlive all other sling types. Type “RE” slings have wear pads on both sides of the body and eyes.

### TYPE VI

Reversed Eye “RE” (return eye) slings are formed by using multiple widths of webbing held edge to edge. A wear pad is attached on both sides of the web sling body, and on both sides of the loop eyes to form a loop eye at each end, which is at a right angle to the plane of the web sling body. The Reversed Eye sling can be used with all three hitch types (vertical, basket, choker), but is particularly well suited to the choker hitch due to the “twisted eye.”

| # of Pls | Part No. | Web Width (Inches) | Rated Capacity (lbs.) |        |        | Eye Dimensions (inches) |        | Min. Standard Length (ft) |
|----------|----------|--------------------|-----------------------|--------|--------|-------------------------|--------|---------------------------|
|          |          |                    | Vertical              | Choke  | Basket | Width                   | Length |                           |
| 1        | RE1-902  | 2                  | 4,600                 | 3,680  | 9,200  | 1                       | 9      | 3                         |
|          | RE1-903  | 3                  | 6,900                 | 5,520  | 13,800 | 1-1/2                   | 12     | 4                         |
|          | RE1-904  | 4                  | 8,600                 | 6,880  | 17,200 | 1                       | 12     | 4                         |
|          | RE1-906  | 6                  | 12,000                | 9,600  | 24,000 | 1-1/2                   | 14     | 6                         |
| 2        | RE2-902  | 2                  | 7,700                 | 6,160  | 15,400 | 1                       | 12     | 3                         |
|          | RE2-903  | 3                  | 11,600                | 9,280  | 23,200 | 1-1/2                   | 12     | 4                         |
|          | RE2-904  | 4                  | 14,500                | 11,600 | 29,000 | 2                       | 18     | 6                         |
|          | RE2-906  | 6                  | 17,400                | 13,920 | 34,800 | 1-1/2                   | 18     | 6                         |

## TRIANGLE CHOKER WEB SLINGS



### TYPE I

Choker Hardware (CH) slings are made with a triangle fitting on one end and a slotted triangle choker fitting on the other end. The CH configuration provides the most efficient and effective method of choke hitching of all sling types and configurations. This sling type can also be used in a vertical and basket hitch. Fittings can be of aluminum or alloy steel.



| # of Pls | Part Number | Web Width (Inches) | Rated Capacity (lbs.) |        |        | Min. Standard Length (ft) |
|----------|-------------|--------------------|-----------------------|--------|--------|---------------------------|
|          |             |                    | Vertical              | Choke  | Basket |                           |
| 1        | TC1-902     | 2                  | 3,200                 | 2,500  | 6,400  | 3                         |
|          | TC1-903     | 3                  | 4,800                 | 3,800  | 9,600  | 3                         |
|          | TC1-904     | 4                  | 6,400                 | 5,000  | 12,800 | 3                         |
|          | TC1-906     | 6                  | 9,600                 | 7,600  | 19,200 | 3                         |
| 2        | TC2-902     | 2                  | 6,400                 | 5,000  | 12,800 | 3                         |
|          | TC2-903     | 3                  | 8,900                 | 7,200  | 17,800 | 3                         |
|          | TC2-904     | 4                  | 12,000                | 9,600  | 24,000 | 3                         |
|          | TC2-906     | 6                  | 17,000                | 13,000 | 34,000 | 3                         |

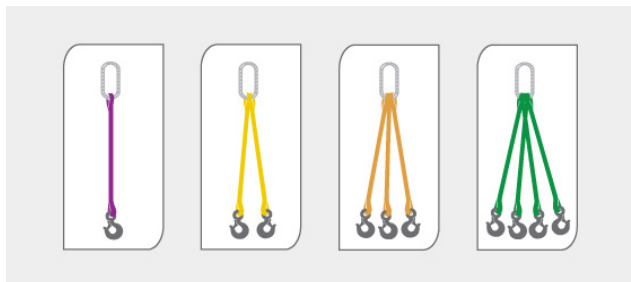


### WARNING

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## WEB BRIDLE SLINGS

Choker Hardware (CH) slings are made with a triangle fitting on one end and a slotted triangle choker fitting on the other end. The CH configuration provides the most efficient and effective method of choke hitching of all sling types and configurations. This sling type can also be used in a vertical and basket hitch. Fittings can be of aluminum or alloy steel.



### Single Leg Web Bridle Slings

| Part Number | Top Fitting        | Bottom Fitting     | Capacity (lbs) |
|-------------|--------------------|--------------------|----------------|
| SOS-EE191   | Oblong Master Link | Eye Sling Hook     | 1600           |
| SOO-EE191   | Oblong Master Link | Oblong Master Link | 1600           |
| SSS-EE191   | Eye Sling Hook     | Eye Sling Hook     | 1600           |
| SOS-EE291   | Oblong Master Link | Eye Sling Hook     | 3200           |
| SOO-EE291   | Oblong Master Link | Oblong Master Link | 3200           |
| SSS-EE291   | Eye Sling Hook     | Eye Sling Hook     | 3200           |
| SOS-EE292   | Oblong Master Link | Eye Sling Hook     | 6400           |
| SOO-EE292   | Oblong Master Link | Oblong Master Link | 6400           |
| SSS-EE292   | Eye Sling Hook     | Eye Sling Hook     | 6400           |

### Double Leg Web Bridle Slings

| Part Number | Top Fitting        | Bottom Fittings     | Capacity in lbs. at Horizontal Angle |      |      |
|-------------|--------------------|---------------------|--------------------------------------|------|------|
|             |                    |                     | 60                                   | 45   | 30   |
| DOS-EE191   | Oblong Master Link | Eye Sling Hooks     | 2770                                 | 2260 | 1600 |
| DOO-EE191   | Oblong Master Link | Oblong Master Links | 2770                                 | 2260 | 1600 |
| DOS-EE291   | Oblong Master Link | Eye Sling Hooks     | 5540                                 | 4520 | 3200 |
| DOO-EE291   | Oblong Master Link | Oblong Master Links | 5540                                 | 4520 | 3200 |
| DOS-EE292   | Oblong Master Link | Eye Sling Hooks     | 11090                                | 9050 | 6400 |
| DOO-EE292   | Oblong Master Link | Oblong Master Links | 11090                                | 9050 | 6400 |

### Quadruple Leg Web Bridle Slings

| Part Number | Top Fitting        | Bottom Fittings     | Capacity in lbs. at Horizontal Angle |       |       |
|-------------|--------------------|---------------------|--------------------------------------|-------|-------|
|             |                    |                     | 60                                   | 45    | 30    |
| QOS-EE191   | Oblong Master Link | Eye Sling Hooks     | 5540                                 | 4520  | 3200  |
| QOO-EE191   | Oblong Master Link | Oblong Master Links | 5540                                 | 4520  | 3200  |
| QOS-EE291   | Oblong Master Link | Eye Sling Hooks     | 11090                                | 9050  | 6400  |
| QOO-EE291   | Oblong Master Link | Oblong Master Links | 11090                                | 9050  | 6400  |
| QOS-EE292   | Oblong Master Link | Eye Sling Hooks     | 22180                                | 18100 | 12800 |
| QOO-EE292   | Oblong Master Link | Oblong Master Links | 22180                                | 18100 | 12800 |



**WARNING**

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## ENDLESS ROUND SLINGS

Round Slings offer the user the ultimate in lifting security and rigging ease. Round Slings are constructed from a continuous loop of 100% polyester fiber. Each Round Sling is covered with a double polyester woven jacket to protect the load-bearing fibers from damage. Because the load-bearing fibers never come in contact with the load, they are protected from cuts, abrasions and ultraviolet degradation. Each sling has a tough, resilient tag for quick and easy identification.

### ADVANTAGES:

- Reduce cost with less total rigging weight
- Easy handling and storage
- Reduce risk of back and hand injuries
- Cover abrasion will not reduce capacity
- Provides a strong grip on loads
- Provides a tighter choke with an easier release
- Capacities are color coded

| Size | Part Number | Sling Color | Vertical Capacity (lbs.) | Choker Capacity (lbs.) | Basket Capacity (lbs.) | Minimum Length (ft.) | Approx Weight (lbs/ft.) | Approx. Body Dia. Relaxed (in.) | Approx. Width At Load (in.) |
|------|-------------|-------------|--------------------------|------------------------|------------------------|----------------------|-------------------------|---------------------------------|-----------------------------|
| 1    | E30         | Purple      | 2,600                    | 2,100                  | 5,200                  | 1.5                  | 0.3                     | .50                             | 1.68                        |
| 2    | E60         | Green       | 5,300                    | 4,200                  | 10,600                 | 1.5                  | 0.4                     | .80                             | 1.82                        |
| 3    | E90         | Yellow      | 8,400                    | 6,700                  | 16,800                 | 2.0                  | 0.5                     | 1.10                            | 2.04                        |
| 4    | E120        | Tan         | 10,600                   | 8,500                  | 21,200                 | 3.0                  | 0.6                     | 1.10                            | 2.10                        |
| 5    | E150        | Red         | 13,200                   | 10,600                 | 26,400                 | 3.0                  | 0.8                     | 1.32                            | 2.50                        |
| 6    | E180        | White       | 16,800                   | 13,400                 | 33,600                 | 3.0                  | 1.0                     | 1.65                            | 3.2                         |
| 7    | E240        | Blue        | 21,200                   | 17,000                 | 42,400                 | 3.0                  | 1.2                     | 1.72                            | 3.13                        |
| 8    | E300        | Orange      | 25,000                   | 20,000                 | 50,000                 | 3.0                  | 1.6                     | 1.90                            | 3.00                        |
| 9    | E360        | Grey        | 31,000                   | 24,800                 | 62,000                 | 3.0                  | 2.0                     | 2.15                            | 3.50                        |
| 10   | E480        | Maroon      | 40,000                   | 32,000                 | 80,000                 | 8.0                  | 2.5                     | 2.20                            | 3.21                        |
| 11   | E600        | Brown       | 53,000                   | 42,400                 | 106,000                | 8.0                  | 3.2                     | 2.75                            | 4.62                        |
| 12   | E800        | Olive       | 66,000                   | 52,800                 | 132,000                | 8.0                  | 3.7                     | 3.12                            | 5.25                        |
| 13   | E1000       | Black       | 90,000                   | 72,000                 | 180,000                | 8.0                  | 4.2                     | 3.62                            | 6.00                        |



### WARNING

DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.



## MAGNUM FORCE ROUND SLINGS

### Magnum Force® Roundslings for Heavy Duty High Capacity Performance

- Up to 50% lighter than conventional round slings for even better manual handling
- Up to 50% slimmer than conventional round slings
- Can be laid against tighter edge radii than conventional PES slings
- Shackle and hardware interface is therefore less crowded
- Variable load bearing point for more even wear
- Ideal for choke lifting cylindrical objects without creasing
- Less creasing means less wear
- Lifts smooth objects without damage
- High strength to weight ratio
- Reinforced high performance woven cover
- WLL data woven into sleeve for unmistakable capacity identification
- Wide range of capacities from 10,000 to 600,000 lbs (and larger upon request)
- Available in lengths up to 98 ft
- Round Slings are repairable upon manufacturers inspection



#### Compact

The innovative construction with a high performance polyester fiber and a compact protective cover partially woven with the same material make the Magnum Force Roundsling up to 50% slimmer than comparable roundslings with the same load bearing capacity. At the same time, it produces greater stiffness within the sling along both axis. The roundsling is not bunched even in smaller crane hooks and attachment points and it is easy to suspend the sling overhead.

#### Wear Resistant

Outer protective cover is reinforced with an extremely abrasion and tear resistant high performance polyester. In addition, the special design reduces the formation of bunching at the attachment point, which again significantly improves the wear behavior. Magnum Force Roundsling exhibits the greatest reliability and longest durability even under the harshest operating conditions – an economic factor you can count on.

#### Resilient

The new, high performance fiber has a significantly greater capacity. Consequently, less material is needed in the fabric, which makes the Magnum Force Roundsling up to 50% lighter than conventional roundslings. With the same load capacity, this high performance roundsling can be laid against tighter edge radii than conventional polyester slings. Work becomes more efficient, quicker and safer.

#### Compliant

Magnum Force inner load bearing core is made from the same material as the outer sleeve. This is to ensure any chemical damage indications are consistent with both inner and outer materials. ASME B30.9-2014

#### Identifiable

The Magnum Force has an extra sleeve with a raised, woven-in load capacity indicator- a safety feature that has proved to be a success. The load capacity is clearly identifiable even from a distance in the dirtiest conditions. Confusing the roundslings is therefore effectively avoided, protecting people and material from accidents.

| Part Number | Vertical Capacity (lbs.) | Choker Capacity (lbs.) | Basket Capacity (lbs.) 90° | Basket Capacity (lbs.) 60° | Basket Capacity (lbs.) 45° | Approx Diameter (in.) | Approx Weight per foot (lbs.) |
|-------------|--------------------------|------------------------|----------------------------|----------------------------|----------------------------|-----------------------|-------------------------------|
| RCHPE20     | 20,000                   | 16,000                 | 40,000                     | 34,640                     | 28,280                     | 1.85                  | 0.6                           |
| RCHPE30     | 30,000                   | 24,000                 | 60,000                     | 51,960                     | 42,420                     | 2.2                   | .85                           |
| RCHPE40     | 40,000                   | 32,000                 | 80,000                     | 69,280                     | 56,560                     | 2.70                  | 1.0                           |
| RCHPE50     | 50,000                   | 40,000                 | 100,000                    | 86,600                     | 70,700                     | 2.80                  | 1.15                          |
| RCHPE60     | 60,000                   | 48,000                 | 120,000                    | 103,920                    | 84,840                     | 3                     | 1.30                          |
| RCHPE80     | 80,000                   | 64,000                 | 160,000                    | 138,560                    | 113,120                    | 3.70                  | 1.60                          |
| RCHPE100    | 100,000                  | 80,000                 | 200,000                    | 173,200                    | 141,400                    | 4                     | 1.8                           |
| RCHPE125    | 125,000                  | 100,000                | 250,000                    | 216,500                    | 176,750                    | 5.10                  | 2.5                           |
| RCHPE150    | 150,000                  | 120,000                | 300,000                    | 259,800                    | 212,100                    | 6.80                  | 3.3                           |
| RCHPE200    | 200,000                  | 160,000                | 400,000                    | 346,400                    | 282,800                    | 8                     | 5.25                          |
| RCHPE250    | 250,000                  | 200,000                | 500,000                    | 433,000                    | 353,500                    | 9.10                  | 5.85                          |
| RCHPE300    | 300,000                  | 240,000                | 600,000                    | 519,600                    | 424,200                    | 10.55                 | 7.0                           |



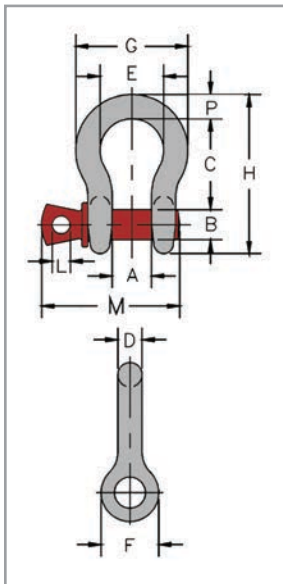
**DO NOT EXCEED RATED CAPACITY OR ANGLE UPON WHICH IT IS BASED. A FALLING LOAD MAY CAUSE SERIOUS INJURY OR DEATH. INSPECT SLING FOR DAMAGE BEFORE EACH USE.**



## G-209 SCREW PIN ANCHOR SHACKLES



- Capacities 1/3 thru 55 metric tons, grade 6.
- Forged - Quenched and Tempered, with alloy pins.
- Working Load Limit and grade "6" permanently shown on every shackle.
- Hot Dip galvanized or self colored.
- Fatigue rated.
- Shackles 25t and larger are RFID EQUIPPED.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Proof testing and certification available when requested at the time of order, charges will apply.
- Approved for use at -40 degrees C (-40 degrees F) to 204 degrees C (400 degrees F).
- 3.25t through 25t G209 anchor shackles are type approved to DNV Certification Notes 2.7-1-Offshore Containers. These shackles are statistical proof and impact tested to 42 joules (31 ft-lbs.) min. avg. at -20 degrees C (-4 degrees F). The tests are conducted by Crosby and 3.1 test certification is available upon request.
- All other 209 and all 210 shackles can meet charpy requirements of 42 joules(31 ft-lbs) avg. at -20 degrees C (-4 degrees F) upon special request.
- Meets or exceeds all requirements of ASME B30.26.
- Type Approval certification in accordance with ABS 2007 Steel Vessel Rules 1-11-17.7 and ABS Guide for Certification on Cranes available. Certificates available when requested at time of order and may include additional charges.
- Crosby 3.25t through 25t G209 anchor shackles are type approved to DNV Certification Notes 2.7-1 - Offshore Containers. These Crosby shackles are statistical proof and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Look for the Red Pin® . . . the mark of genuine Crosby quality.



| Nominal Size (in.) | Working Load Limit (t)* | Stock No. |         |         | Weight Each (lbs.) | Dimensions (in.) |      |       |      |      |      |       |       |      |       |      |     |     | Tolerance + / - |  |
|--------------------|-------------------------|-----------|---------|---------|--------------------|------------------|------|-------|------|------|------|-------|-------|------|-------|------|-----|-----|-----------------|--|
|                    |                         | G-209     | S-209   | G-209OC |                    | A                | B    | C     | D    | E    | F    | G     | H     | L    | M     | P    | C   | A   |                 |  |
| 3/16               | 1/3                     | 1018357   | —       | —       | .06                | .38              | .25  | .88   | .19  | .60  | .56  | .98   | 1.47  | .16  | 1.14  | .19  | .06 | .06 |                 |  |
| 1/4                | 1/2                     | 1018375   | 1018384 | —       | .10                | .47              | .31  | 1.13  | .25  | .78  | .61  | 1.28  | 1.84  | .19  | 1.43  | .25  | .06 | .06 |                 |  |
| 5/16               | 3/4                     | 1018393   | 1018400 | —       | .18                | .53              | .38  | 1.22  | .31  | .84  | .75  | 1.47  | 2.09  | .22  | 1.71  | .31  | .06 | .06 |                 |  |
| 3/8                | 1                       | 1018419   | 1018428 | —       | .31                | .66              | .44  | 1.44  | .38  | 1.03 | .91  | 1.78  | 2.49  | .25  | 2.02  | .38  | .13 | .06 |                 |  |
| 7/16               | 1-1/2                   | 1018437   | 1018446 | —       | .38                | .75              | .50  | 1.69  | .44  | 1.16 | 1.06 | 2.03  | 2.91  | .31  | 2.37  | .44  | .13 | .06 |                 |  |
| 1/2                | 2                       | 1018455   | 1018464 | —       | .72                | .81              | .63  | 1.88  | .50  | 1.31 | 1.19 | 2.31  | 3.28  | .38  | 2.69  | .50  | .13 | .06 |                 |  |
| 5/8                | 3-1/4                   | 1018473   | 1018482 | 1262219 | 1.37               | 1.06             | .75  | 2.38  | .63  | 1.69 | 1.50 | 2.94  | 4.19  | .44  | 3.34  | .69  | .13 | .06 |                 |  |
| 3/4                | 4-3/4                   | 1018491   | 1018507 | 1262228 | 2.35               | 1.25             | .88  | 2.81  | .75  | 2.00 | 1.81 | 3.50  | 4.97  | .50  | 3.97  | .81  | .25 | .06 |                 |  |
| 7/8                | 6-1/2                   | 1018516   | 1018525 | 1262237 | 3.62               | 1.44             | 1.00 | 3.31  | .88  | 2.28 | 2.09 | 4.03  | 5.83  | .50  | 4.50  | .97  | .25 | .06 |                 |  |
| 1                  | 8-1/2                   | 1018534   | 1018543 | 1262246 | 5.03               | 1.69             | 1.13 | 3.75  | 1.00 | 2.69 | 2.38 | 4.69  | 6.56  | .56  | 5.13  | 1.06 | .25 | .06 |                 |  |
| 1-1/8              | 9-1/2                   | 1018552   | 1018561 | 1262255 | 7.41               | 1.81             | 1.25 | 4.25  | 1.16 | 2.91 | 2.69 | 5.16  | 7.47  | .63  | 5.71  | 1.25 | .25 | .06 |                 |  |
| 1-1/4              | 12                      | 1018570   | 1018589 | 1262264 | 9.50               | 2.03             | 1.38 | 4.69  | 1.29 | 3.25 | 3.00 | 5.75  | 8.25  | .69  | 6.25  | 1.38 | .25 | .06 |                 |  |
| 1-3/8              | 13-1/2                  | 1018598   | 1018605 | 1262273 | 13.53              | 2.25             | 1.50 | 5.25  | 1.42 | 3.63 | 3.31 | 6.38  | 9.16  | .75  | 6.83  | 1.50 | .25 | .13 |                 |  |
| 1-1/2              | 17                      | 1018614   | 1018623 | 1262282 | 17.20              | 2.38             | 1.63 | 5.75  | 1.54 | 3.88 | 3.63 | 6.88  | 10.00 | .81  | 7.33  | 1.62 | .25 | .13 |                 |  |
| 1-3/4              | 25                      | 1018632   | 1018641 | 1262291 | 27.78              | 2.88             | 2.00 | 7.00  | 1.84 | 5.00 | 4.19 | 8.86  | 12.34 | 1.00 | 9.06  | 2.25 | .25 | .13 |                 |  |
| 2                  | 35                      | 1018650   | 1018669 | —       | 45.00              | 3.25             | 2.25 | 7.75  | 2.08 | 5.75 | 4.81 | 9.97  | 13.68 | 1.22 | 10.35 | 2.40 | .25 | .13 |                 |  |
| 2-1/2              | 55                      | 1018678   | 1018687 | —       | 85.75              | 4.13             | 2.75 | 10.50 | 2.71 | 7.25 | 5.69 | 12.87 | 17.84 | 1.38 | 13.00 | 3.13 | .25 | .25 |                 |  |

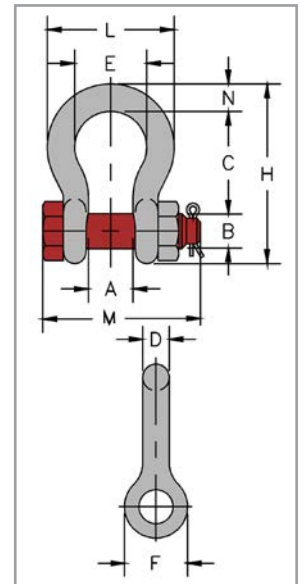


## G-2130 BOLT TYPE ANCHOR SHACKLES

- Capacities 1/3 thru 150 metric tons, grade 6.
- Working Load Limit and grade "6" permanently shown on every shackle.
- Forged – Quenched and Tempered, with alloy bolts.
- Hot Dip galvanized or self colored. (85, 120, and 150 metric ton shackles are all hot dip galvanized bows and the bolts are Dimetcoated® and painted red)
- Fatigue rated (1/3t - 55t).
- Shackles 25t and larger are **RFID EQUIPPED**.
- Approved for use at -40 degree C (-40 degree F) to 204 degree C (400 degree F).
- Meets or exceeds all requirements of ASME B30.26.
- Shackles 85 metric tons and larger are individually proof tested to 2.0 times the working load limit.
- Type Approval certification in accordance with ABS 2007 Steel Vessel Rules 1-11.17.7 and ABS Guide for Certification on Cranes available. Certificates available when requested at time of order and may include additional charges
- 3.1 Certification as standard available for charpy and statistical proof test from 3.25t up to 25 tons to DNV2.7-1 and EN13889.
- Crosby 3.25t through 25t G2130OC anchor shackles are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby shackles are statistical proof and impact tested to 42 joules (31 ft-lbs.) min. avg. at -20 degree C (-4 degree F). The tests are conducted by Crosby and 3.1 test certification is available upon request. Refer to page 88 for Crosby COLD TUFF® shackles that meet the additional requirements of DNV rules for certification of lifting applications - Loose Gear.
- All other 2130 shackles can meet charpy requirements of 42 joules (31 ft-lbs) avg at -20 degree C (-4 degree F) when requested at time of order.
- Look for the Red Pin® . . . the mark of genuine Crosby quality.



| Nominal Size (in.) | Working Load Limit (t)* | G-2130 Stock No. | Weight Each (lbs.) | Dimensions (in.) |      |       |      |       |      |       |       |       |      |     | Tolerance +/- |  |
|--------------------|-------------------------|------------------|--------------------|------------------|------|-------|------|-------|------|-------|-------|-------|------|-----|---------------|--|
|                    |                         |                  |                    | A                | B    | C     | D    | E     | F    | H     | L     | M     | N    | C   | A             |  |
| 3/16               | 1/3                     | 1019464          | .06                | .38              | .25  | .88   | .19  | .60   | .56  | 1.47  | .98   | 1.29  | .19  | .06 | .06           |  |
| 1/4                | 1/2                     | 1019466          | .11                | .47              | .31  | 1.13  | .25  | .78   | .61  | 1.84  | 1.28  | 1.56  | .25  | .06 | .06           |  |
| 5/16               | 3/4                     | 1019468          | .22                | .53              | .38  | 1.22  | .31  | .84   | .75  | 2.09  | 1.47  | 1.82  | .31  | .06 | .06           |  |
| 3/8                | 1                       | 1019470          | .33                | .66              | .44  | 1.44  | .38  | 1.03  | .91  | 2.49  | 1.78  | 2.17  | .38  | .13 | .06           |  |
| 7/16               | 1-1/2                   | 1019471          | .49                | .75              | .50  | 1.69  | .44  | 1.16  | 1.06 | 2.91  | 2.03  | 2.51  | .44  | .13 | .06           |  |
| 1/2                | 2                       | 1019472          | .79                | .81              | .64  | 1.88  | .50  | 1.31  | 1.19 | 3.28  | 2.31  | 2.80  | .50  | .13 | .06           |  |
| 5/8                | 3-1/4                   | 1019490          | 1.68               | 1.06             | .77  | 2.38  | .63  | 1.69  | 1.50 | 4.19  | 2.94  | 3.56  | .69  | .13 | .06           |  |
| 3/4                | 4-3/4                   | 1019515          | 2.72               | 1.25             | .89  | 2.81  | .75  | 2.00  | 1.81 | 4.97  | 3.50  | 4.15  | .81  | .25 | .06           |  |
| 7/8                | 6-1/2                   | 1019533          | 3.95               | 1.44             | 1.02 | 3.31  | .88  | 2.28  | 2.09 | 5.83  | 4.03  | 4.82  | .97  | .25 | .06           |  |
| 1                  | 8-1/2                   | 1019551          | 5.66               | 1.69             | 1.15 | 3.75  | 1.00 | 2.69  | 2.38 | 6.56  | 4.69  | 5.39  | 1.06 | .25 | .06           |  |
| 1-1/8              | 9-1/2                   | 1019579          | 8.27               | 1.81             | 1.25 | 4.25  | 1.13 | 2.91  | 2.69 | 7.47  | 5.16  | 5.90  | 1.25 | .25 | .06           |  |
| 1-1/4              | 12                      | 1019597          | 11.71              | 2.03             | 1.40 | 4.69  | 1.29 | 3.25  | 3.00 | 8.25  | 5.75  | 6.69  | 1.38 | .25 | .06           |  |
| 1-3/8              | 13-1/2                  | 1019613          | 15.83              | 2.25             | 1.53 | 5.25  | 1.42 | 3.63  | 3.31 | 9.16  | 6.38  | 7.21  | 1.50 | .25 | .13           |  |
| 1-1/2              | 17                      | 1019631          | 19.00              | 2.38             | 1.66 | 5.75  | 1.53 | 3.88  | 3.63 | 10.00 | 6.88  | 7.73  | 1.62 | .25 | .13           |  |
| 1-3/4              | 25                      | 1019659          | 33.91              | 2.88             | 2.04 | 7.00  | 1.84 | 5.00  | 4.19 | 12.34 | 8.80  | 9.68  | 2.25 | .25 | .13           |  |
| 2                  | 35                      | 1019677          | 52.25              | 3.25             | 2.30 | 7.75  | 2.08 | 5.75  | 4.81 | 13.68 | 10.15 | 10.81 | 2.40 | .25 | .13           |  |
| 2-1/2              | 55                      | 1019695          | 98.25              | 4.13             | 2.80 | 10.50 | 2.71 | 7.25  | 5.69 | 17.90 | 12.75 | 13.58 | 3.13 | .25 | .25           |  |
| 3                  | 85                      | 1019711          | 154.00             | 5.00             | 3.30 | 13.00 | 3.12 | 7.88  | 6.50 | 21.50 | 14.62 | 15.13 | 3.62 | .25 | .25           |  |
| 3-1/2              | 120                     | 1019739          | 265.00             | 5.25             | 3.76 | 14.63 | 3.62 | 9.00  | 8.00 | 24.88 | 17.02 | 17.00 | 4.38 | .25 | .25           |  |
| 4                  | 150                     | 1019757          | 338.00             | 5.50             | 4.26 | 14.50 | 4.00 | 10.00 | 9.00 | 25.68 | 18.00 | 17.75 | 4.56 | .25 | .25           |  |





## S-280 SLING SAVER WEB CONNECTOR



- All Alloy construction.
- Durable vinyl cover that:
- Protects sling at eye
- Keeps sling positioned correctly on spool.
- Design Factor of 5 to 1.
- Makes a field assembled bridle quick and easy.
- No retaining pin to snag sling material.
- Increased radius of spool gives wider sling bearing surface resulting in an increase area for load distribution, thus:
- Increasing Synthetic Sling efficiency as compared to standard anchor and chain shackle bows and conventional eye hooks. This allows 100% of the slings rated Working Load Limit to be achieved.
- Allowing better load distribution on internal fibers.
- Replacement kit for spool and web cover available.
- Designed for use with Type III (Eye & Eye), Class 7, 2 ply webbing & Synthetic Round Slings. Also accommodates single ply and endless slings.

| Round Sling Size<br>(Number) | Web Slings          |                 |     | Working Load Limit<br>(Tons) | S-280<br>Stock Number | Weight Each<br>(lbs.) |
|------------------------------|---------------------|-----------------|-----|------------------------------|-----------------------|-----------------------|
|                              | Webbing Width (in.) | Eye Width (in.) | Ply |                              |                       |                       |
| 1 & 2                        | .65                 | .91             | 1.1 | 3-1/4                        | 1021681               | 1.5                   |
| 3                            | 1.4                 | 2.0             | 2.5 | 4-1/2                        | 1021690               | 1.9                   |
| 4                            | 2.5                 | 3.6             | 4.4 | 6-1/4                        | 1021700               | 2.9                   |
| 5 & 6                        | 3.9                 | 5.5             | 6.8 | 8-1/2                        | 1021709               | 5.1                   |



## S-253 SCREW PIN SLING SHACKLE



- Shackles available in size 3-1/4 to 50 metric tons.
- All Alloy construction.
- Design factor of 5 to 1.
- Each shackle has a Product Identification Code (PIC) for material traceability along with a Working Load Limit and the name Crosby forged into it.
- Increased radius of bow gives wider sling bearing surface resulting in an increased area for load distribution, thus:
- Increasing Synthetic Sling efficiency as compared to standard anchor and chain shackle bows and conventional hooks. This allows 100% of the sling's rated Working Load Limit to be achieved.
- Allows better load distribution on internal fibers.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these shackles meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Shackles available in both a Screw Pin and Bolt, Nut and Cotter Pin configuration.
- Bolt (Pin) has a larger diameter that provides better load distribution.
- Look for the Red Pin®... the mark of Genuine Crosby quality.

| Web Sling Eye Width (in.) | Round Sling Size<br>(Number) | Working Load Limit<br>(tons) | S-280<br>Stock Number | Weight Each<br>(lbs.) |
|---------------------------|------------------------------|------------------------------|-----------------------|-----------------------|
| 1                         | 1 & 2                        | 3-1/4                        | 1020575               | 1.4                   |
| 1.5                       | 3 & 4                        | 6-1/2                        | 1020584               | 2.2                   |
| 2                         | 5 & 6                        | 8-3/4                        | 1020593               | 3.8                   |
| 3                         | 7 & 8                        | 12-1/2                       | 1020602               | 7.3                   |
| 4                         | 9 & 10                       | 20-1/2                       | 1020611               | 15.2                  |
| 5                         | 11 & 12                      | 35                           | 1020620               | 30.8                  |
| 6                         | 13                           | 50                           | 1020629               | 52.0                  |

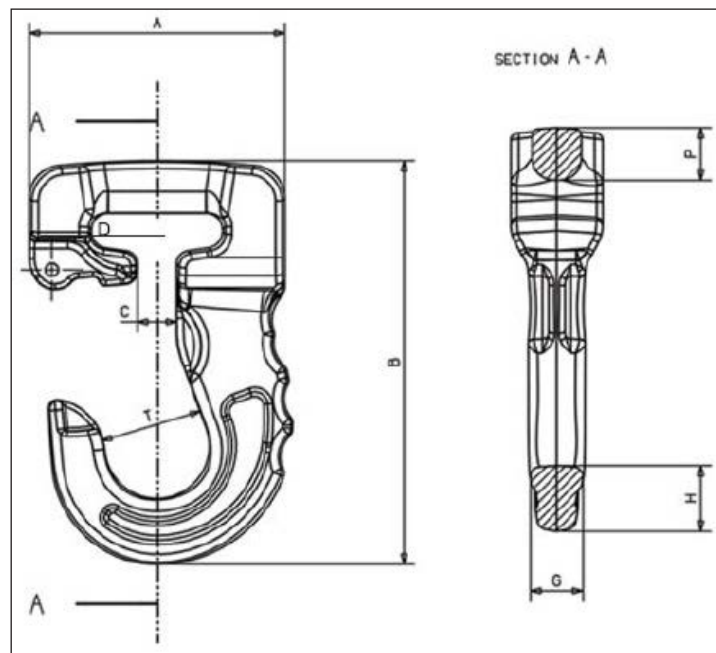
## SYNTHETIC ROUND SLING HOOKS

- Quickly attaches through the latch to both synthetic web and round slings
- Synthetic sling hook color coded matching round sling of the same color
- Field replaceable heavy duty steel latch
- Can be permanently attached or easily removed when not required
- Design factor of 5 to 1.



| Part Number | Color  | Working Load Limit (lbs.) | A    | B     | C    | D    | G    | H    | P    | T    | Weight (lbs.) |
|-------------|--------|---------------------------|------|-------|------|------|------|------|------|------|---------------|
| CJ01T1      | Purple | 2,600                     | 3.07 | 4.84  | 0.47 | 1.61 | 0.67 | 0.79 | 0.63 | 1.22 | 1.54          |
| CJ02T2      | Green  | 5,300                     | 3.58 | 5.83  | 0.75 | 1.77 | 0.83 | 1.02 | 0.67 | 1.57 | 2.65          |
| CJ03T3**    | Yellow | 8,400                     | 4.45 | 6.89  | 0.83 | 2.17 | 0.98 | 1.26 | 0.98 | 1.97 | 4.85          |
| CJ05T3      | Red    | 13,200                    | 5.21 | 8.78  | 1.57 | 2.76 | 1.42 | 2.34 | 1.42 | 2.34 | 9.90          |
| CJ08T8      | Blue   | 21,200                    | 7.28 | 12.48 | 1.97 | 3.94 | 1.77 | 2.48 | 2.17 | 3.15 | 27.50         |

\*\* Also fits 2" 2-ply eye and eye or 2" 1-ply endless web slings





## L-320A EYE HOOK



**All Crosby 320 Eye Hoist Hooks incorporate the following features: The most complete line of Eye hoist hooks.**

- Available in carbon steel and alloy steel.
- Designed with a 5:1 Design Factor for (Carbon Steel); 4.5:1 Design Factor for 30t - 60t (Alloy Steel).
- Eye hooks are load rated.
- Proper design, careful forging and precision controlled quenched and tempering give maximum strength without excessive weight and bulk.
- Every Crosby Eye Hook has a pre-drilled cam which can be equipped with a latch. Even years after purchase of the original hook, latch assemblies can be added. (See pages 123 - 125)
- Chemical analysis and tensile tests performed on each PIC to verify chemistry and mechanical properties.
- Type Approval certification in accordance with ABS 2007 Steel Vessel Rules 1-11-17.7 and ABS Guide for Certification on Cranes available. Certificates available when requested at time of order and may include additional charges.
- Hoist hooks incorporate two types of strategically placed markings forged into the product which address two (2) **QUIC-CHECK®** features:
  - Deformation Indicators and Angle Indicators (see following page for detailed definition).

**The following additional features have been incorporated in the new Crosby S-320N Eye Hoist Hooks.**

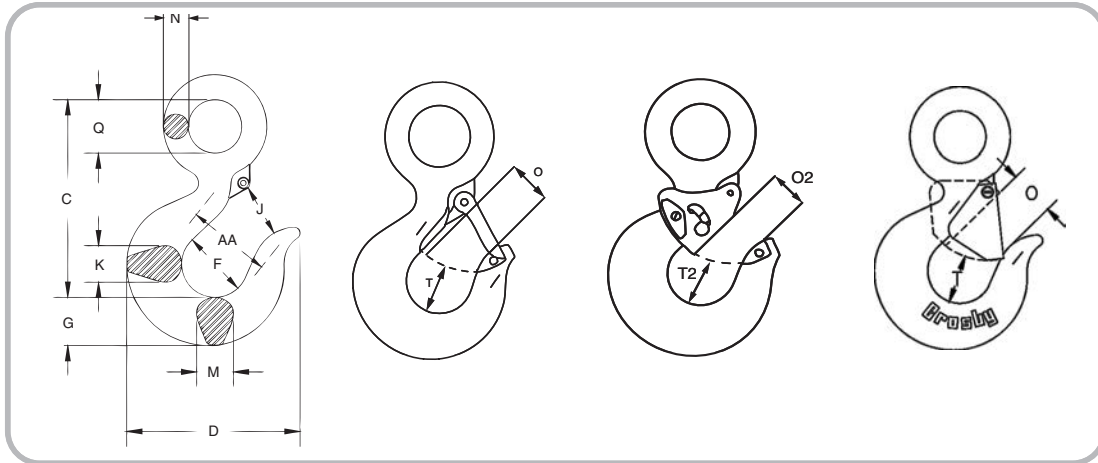
**(Sizes 3/4 metric ton Carbon through 22 metric ton Alloy.)**

- Metric Rated at 5:1 Design Factor for (Carbon Steel); 5:1 Design Factor for 1t - 22t (Alloy Steel).
- Can be proof tested to 2 times the Working Load Limit.
- Low profile hook tip.
- New integrated latch (S-4320) meets the world-class standard for lifting.
- Heavy duty stamped latch interlocks with the hook tip.
- High cycle, long life spring.
- When secured with proper cotter pin through the hole in the tip of hook, meets the intent of OSHA Rule 1926.1431(g) and 1926.1501(g) for personnel hoisting.
- Hoist hooks incorporate markings forged into the product which address two (2) **QUIC-CHECK®** features.
  - **Deformation Indicators** -- Two strategically placed marks, one just below the shank or eye and the other on the hook tip, which allows for a **QUIC-CHECK®** measurement to determine if the throat opening has changed, thus indicating abuse or overload. To check, use a measuring device (i.e. tape measure) to measure the distance between the marks. The marks should align to either an inch or half-inch increment on the measuring device. If the measurement does not meet this criteria, the hook should be inspected further for possible damage.
  - **Angle Indicators** -- Indicates the maximum included angle which is allowed between two (2) sling legs in the hook. These indicators also provide the opportunity to approximate other included angles between two sling legs.

| Working Load Limit (t) |       | Hook ID Code | Eye Hook Type              |                      |                           | Weight Each (lbs.) | Replacement Latch Kits |              |                   |
|------------------------|-------|--------------|----------------------------|----------------------|---------------------------|--------------------|------------------------|--------------|-------------------|
| Carbon                 | Alloy |              | Carbon L-320C L-320CN S.C. | Carbon G-320CN Galv. | Alloy L-320A L-320AN S.C. |                    | S-4320 Stock No.       | PL Stock No. | SS-4055 Stock No. |
| 3/4                    | 1     | +D           | 1022205                    | 1022208              | 1022380                   | .61                | 1096325                | -            | -                 |
| 1                      | 1-1/2 | +F           | 1022216                    | 1022219              | 1022391                   | .89                | 1096374                | -            | -                 |
| 1-1/2                  | 2     | +G           | 1022227                    | 1022230              | 1022402                   | 1.44               | 1096421                | -            | -                 |
| 2                      | 3     | +H           | 1022238                    | 1022241              | 1022413                   | 2.07               | 1096468                | -            | -                 |
| 3                      | 5     | +I           | 1022246                    | 1022249              | 1022424                   | 4.30               | 1096515                | 1092000      | -                 |
| 5                      | 7     | +J           | 1022260                    | 1022262              | 1022435                   | 8.30               | 1096562                | 1092001      | -                 |
| 7-1/2                  | 11    | +K           | 1022271                    | 1022274              | 1022446                   | 15.00              | 1096609                | 1092002      | -                 |
| 10                     | 15    | +L           | 1022282                    | 1022285              | 1022457                   | 20.77              | 1096657                | 1092003      | -                 |
| 15                     | 22    | +N           | 1022293                    | 1022296              | 1022468                   | 39.50              | 1096704                | 1092004      | -                 |
| 20                     | 30    | O            | 1022302                    | -                    | 1022479                   | 60.00              | -                      | 1093716      | 1090161           |
| 25                     | 37    | P            | -                          | -                    | -                         | 105.00             | -                      | 1093717      | 1090189           |
| 30                     | 45    | S            | -                          | -                    | -                         | 148.00             | -                      | 1093718      | 1090189           |
| 40                     | 60    | T            | -                          | -                    | -                         | 228.00             | -                      | 1093719      | 1090205           |

\*Eye Hooks (3/4 TC - 22TA), Proof load is 2 times Working Load Limit. Eye Hooks (20 TC - 60TA). All carbon hooks-average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 1 ton through 22 ton-average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 30 tons through 60 tons-average straightening load (ultimate load) is 4.5 times Working Load Limit. \* New 320N style hook.



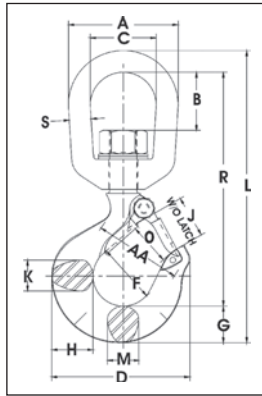


| Hook ID Code* | Dimensions (in.) |       |      |      |      |      |      |      |      |       |      |      |       |       |
|---------------|------------------|-------|------|------|------|------|------|------|------|-------|------|------|-------|-------|
|               | C                | D     | F    | G    | J    | K    | M    | N    | O †  | O2 †† | Q    | T †  | T2 †† | AA**  |
| D             | 3.34             | 2.83  | 1.25 | .73  | .90  | .63  | .63  | .36  | .89  | -     | .75  | .87  | -     | 1.50  |
| F             | 3.81             | 3.11  | 1.38 | .84  | .93  | .71  | .71  | .42  | .91  | -     | .91  | .98  | -     | 2.00  |
| G             | 4.14             | 3.53  | 1.50 | 1.00 | 1.00 | .88  | .88  | .55  | 1.00 | -     | 1.13 | 1.03 | -     | 2.00  |
| H             | 4.69             | 3.97  | 1.63 | 1.13 | 1.13 | .94  | .94  | .58  | 1.09 | -     | 1.25 | 1.16 | -     | 2.00  |
| I             | 5.77             | 4.81  | 2.00 | 1.44 | 1.47 | 1.31 | 1.31 | .72  | 1.36 | 1.00  | 1.56 | 1.53 | 1.50  | 2.50  |
| J             | 7.37             | 6.27  | 2.50 | 1.81 | 1.75 | 1.66 | 1.66 | .90  | 1.61 | 1.31  | 2.00 | 1.96 | 1.88  | 3.00  |
| K             | 9.07             | 7.45  | 3.00 | 2.25 | 2.29 | 1.88 | 1.63 | 1.11 | 2.08 | 1.81  | 2.44 | 2.47 | 2.25  | 4.00  |
| L             | 10.08            | 8.30  | 3.25 | 2.59 | 2.50 | 2.19 | 1.94 | 1.27 | 2.27 | 2.00  | 2.84 | 2.62 | 2.31  | 4.00  |
| N             | 12.53            | 10.30 | 4.25 | 3.00 | 3.30 | 2.69 | 2.38 | 1.56 | 3.02 | 2.75  | 3.50 | 2.83 | 2.56  | 5.00  |
| O             | 14.06            | 13.62 | 5.00 | 3.62 | 4.00 | 3.00 | 3.00 | 1.75 | 3.25 | -     | 3.50 | 3.44 | -     | 6.50  |
| P             | 18.19            | 14.06 | 5.38 | 4.56 | 4.25 | 3.75 | 3.19 | 2.00 | 3.00 | -     | 4.50 | 3.88 | -     | 7.00  |
| S             | 20.12            | 15.44 | 6.00 | 5.06 | 4.75 | 4.50 | 3.25 | 2.18 | 3.38 | -     | 4.94 | 4.75 | -     | 8.00  |
| T             | 23.72            | 18.50 | 7.00 | 6.00 | 5.75 | 5.50 | 3.91 | 2.53 | 4.12 | -     | 5.69 | 5.69 | -     | 10.00 |

\*Eye Hooks (3/4 TC-22TA), Proof load is 2 times Working Load Limit. Eye Hooks (20 TC-60TA). All carbon hooks - average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 1t through 22t - average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 30t through 60t - average straightening load (ultimate load) is 4.5 times Working Load Limit.

\*\* Deformation Indicators.† 3/4tC - 22tA dimensions shown are for S-4320 Latch Kits. Dimensions for sizes 20t carbon and larger are for PL Latch Kits.

†† Dimensions are for PL-N latch kits.



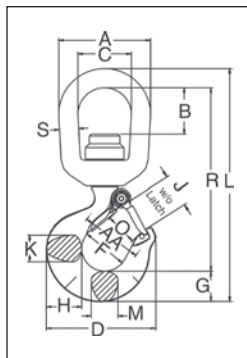
## Crosby

### L-322AN SWIVEL HOOK

- Forged - Quenched and Tempered.
- Swivel hooks are load rated.
- Proper design, careful forging, and precision controlled quench and tempering gives maximum strength without excessive weight and bulk.
- Low profile hook tip designed to utilize Crosby S-4320 or PL-N latch kit.
- Hoist hooks incorporate markings forged into the product which address two (2) **QUIC-CHECK®** features:
  - **Deformation Indicators** -- Two strategically placed marks, one just below the shank or eye and the other on the hook tip, which allows for a QUIC-CHECK® measurement to determine if the throat opening has changed, thus indicating abuse or overload.
  - **Angle Indicators** — Indicates the maximum included angle which is allowed between two (2) sling legs in the hook. These indicators also provide the opportunity to approximate other included angles between two sling legs.
- Type Approval certification in accordance with ABS 2007 Steel Vessel Rules 1-11-17.7 and ABS Guide for Certification on Cranes available. Certificates available when requested at time of order and may include additional charges.

| Working Load Limit (t)* |       | L-322 CN Stock No. | L-322 AN Stock No. | Weight Each (lbs.) | Dimensions (in.) |      |      |       |      |      |      |      |      |       |      |      |       |      |      | Rep. Latch Stock No. |
|-------------------------|-------|--------------------|--------------------|--------------------|------------------|------|------|-------|------|------|------|------|------|-------|------|------|-------|------|------|----------------------|
| Carbon                  | Alloy |                    |                    |                    | A                | B    | C    | D     | F    | G    | H    | J    | K    | L     | M    | O†   | R     | S    | AA** |                      |
| 3/4                     | 1     | 1048603            | 1048807            | .75                | 2.00             | .82  | 1.25 | 2.86  | 1.25 | .73  | .81  | .93  | .63  | 5.66  | .63  | .89  | 4.55  | .38  | 1.50 | 1096325              |
| 1                       | 1-1/2 | 1048612            | 1048816            | 1.25               | 2.50             | 1.31 | 1.50 | 3.15  | 1.38 | .84  | .94  | .97  | .71  | 6.71  | .71  | .91  | 5.37  | .50  | 2.00 | 1096374              |
| 1-1/2                   | 2     | 1048621            | 1048825            | 2.25               | 3.00             | 1.50 | 1.75 | 3.59  | 1.50 | 1.00 | 1.16 | 1.06 | .88  | 7.75  | .88  | 1.00 | 6.12  | .63  | 2.00 | 1096421              |
| 2                       | 3     | 1048630            | 1048834            | 2.30               | 3.00             | 1.50 | 1.75 | 4.00  | 1.62 | 1.13 | 1.31 | 1.19 | .94  | 8.25  | .94  | 1.09 | 6.50  | .63  | 2.00 | 1096468              |
| 3                       | 5     | 1048639            | 1048840            | 4.96               | 3.50             | 1.64 | 2.00 | 4.84  | 2.00 | 1.44 | 1.63 | 1.50 | 1.31 | 9.69  | 1.13 | 1.36 | 7.50  | .75  | 2.50 | 1096515              |
| 5                       | 7     | 1048648            | 1048859            | 10.29              | 4.56             | 2.29 | 2.50 | 6.28  | 2.50 | 1.81 | 2.06 | 1.78 | 1.66 | 12.47 | 1.44 | 1.61 | 9.63  | 1.00 | 3.00 | 1096562              |
| 7-1/2                   | 11    | 1048657            | 1048868            | 19.40              | 5.00             | 2.44 | 2.75 | 7.54  | 3.00 | 2.25 | 2.63 | 2.41 | 1.88 | 14.75 | 1.63 | 2.08 | 11.37 | 1.13 | 4.00 | 1096609              |
| 10                      | 15    | 1048666            | 1048880            | 23.25              | 5.62             | 2.48 | 3.12 | 8.34  | 3.25 | 2.59 | 2.94 | 2.62 | 2.19 | 16.40 | 1.94 | 2.27 | 12.25 | 1.25 | 4.00 | 1096657              |
| 15                      | 22    | 1048675            | 1048889            | 47.00              | 7.10             | 3.76 | 4.10 | 10.34 | 4.25 | 3.00 | 3.50 | 3.41 | 2.69 | 21.34 | 2.38 | 3.02 | 16.71 | 1.50 | 5.00 | 1096704              |
| -                       | 30    | -                  | -                  | 70.50              | 7.10             | 3.76 | 4.10 | 13.62 | 5.00 | 3.61 | 4.63 | 4.00 | 3.00 | 23.25 | 3.00 | 3.25 | 18.01 | 1.50 | 6.50 | 1093716              |

\* Carbon swivel hooks .75tC-15tC: proof load is 2 times working load limit. Designed with a 5 to 1 safety factor. Alloy swivel hooks 1.25tA-31.5tA : proof load is 2.5 times working load limit. Designed with a 4 to 1 safety factor. Alloy swivel hook 30tA: proof load is 2 times working load limit. Designed with a 4 to 1 design factor. \*\* Deformation Indicators † Dimensions for hooks 3/4t carbon thru 22t alloy are for S-4320 latch kits. Dimensions for hooks 31.5t alloy are for PL latch kit.



## Crosby

### S-3322B SWIVEL HOOKS WITH BEARING

- **New anti-friction bearing design allows hook to rotate freely under load.**
- Capacities ranging from 2 through 15 metric tonnes.
- Forged - Quenched and Tempered.
- Proper design, careful forging, and precision controlled quench and tempering gives maximum strength without excessive weight and bulk.
- Low profile hook tip designed to utilize Crosby S-4320 or PL-N latch kit. Simply purchase the latch assemblies listed and shown on pages 121 - 123. Even years after purchase of the original hook, latch assemblies can be added.

| Working Load Limit (t)* | Hook ID Code* | S-3322B Stock No. | L-3322B Stock No.† | Weight Each (lbs.) | Dimensions (in.) |      |      |      |      |      |      |      |      |       |      |      |       |      |      | Rep. Latch Stock No. |
|-------------------------|---------------|-------------------|--------------------|--------------------|------------------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|----------------------|
|                         |               |                   |                    |                    | A                | B    | C    | D    | F    | G    | H    | J    | K    | L     | M    | O    | R     | S    | AA** |                      |
| 2                       | G             | 1028605           | -                  | 2.5                | 3.00             | 1.50 | 1.75 | 3.59 | 1.50 | 1.00 | 1.16 | 1.06 | .88  | 7.64  | .88  | 1.00 | 6.01  | .63  | 2.00 | 1096421              |
| 3                       | H             | 1028614           | 1028618            | 3.8                | 3.50             | 1.56 | 2.00 | 4.00 | 1.62 | 1.13 | 1.31 | 1.19 | .94  | 8.60  | .94  | 1.09 | 6.72  | .75  | 2.00 | 1096468              |
| 5                       | I             | 1028623           | 1028627            | 7.0                | 4.00             | 1.56 | 2.25 | 4.84 | 2.00 | 1.44 | 1.63 | 1.50 | 1.31 | 10.32 | 1.13 | 1.36 | 8.00  | .88  | 2.50 | 1096515              |
| 7                       | J             | 1028632           | -                  | 14.0               | 5.00             | 1.94 | 2.75 | 6.27 | 2.50 | 1.81 | 2.06 | 1.78 | 1.66 | 12.84 | 1.44 | 1.61 | 9.90  | 1.13 | 3.00 | 1096562              |
| 11                      | K             | 1028641           | -                  | 22.3               | 5.62             | 2.05 | 3.12 | 7.54 | 3.00 | 2.25 | 2.63 | 2.41 | 1.88 | 15.24 | 1.63 | 2.08 | 11.74 | 1.25 | 4.00 | 1096609              |
| 15                      | L             | 1028650           | -                  | 36.0               | 7.12             | 3.62 | 4.10 | 8.33 | 3.25 | 2.59 | 2.94 | 2.62 | 2.19 | 18.64 | 1.94 | 2.27 | 14.41 | 1.50 | 4.00 | 1096657              |



## A-378 SORTING HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Deep straight throat permits efficient handling of flat plates or large cylindrical shapes.



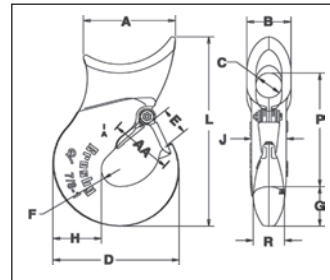
| Working Load Limit<br>at tip of Hook (Tons)* | Working Load Limit<br>at bottom of Hook (Tons)* | A-378<br>Stock No | Style       | Weight<br>Each (lbs.) | Dimensions<br>(in.) |                   |                              |                                |
|----------------------------------------------|-------------------------------------------------|-------------------|-------------|-----------------------|---------------------|-------------------|------------------------------|--------------------------------|
|                                              |                                                 |                   |             |                       | I.D.<br>of Eye      | Overall<br>Length | Opening<br>at top<br>of Hook | Radius<br>at bottom<br>of Hook |
| 2                                            | 7-1/2                                           | 1028024           | No Handle   | 6.42                  | 1.38                | 9.69              | 2.81                         | .625                           |
| 2                                            | 7-1/2                                           | 1028033           | With Handle | 6.42                  | 1.38                | 9.69              | 2.81                         | .625                           |

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



## A-350N SLIDING CHOKER HOOK

- New style incorporates throat opening equal to or larger than old style hooks.
- Each product has a Product Identification Code (PIC) for material traceability, along with a Working Load Limit, and the name Crosby or "CG" forged into it.
- All hooks incorporate Crosby's patented QUIC-CHECK® marks to help in determining if throat opening dimension has changed.
- Each hook can be equipped with a Crosby S-4320 heavy duty stamped latch with the high cycle, long life spring.
- Forged Alloy Steel -- Quenched and Tempered.



| Single Part<br>Rope Size<br>(in.) | Eight Part<br>Rope Size<br>(in.) | A-350N<br>Stock No. | A-350L<br>Stock No. | Weight<br>Each<br>(lbs.) | Dimensions (in.) |      |      |      |      |     |      |      |      |      |      |      |   | Hook<br>Frame<br>Code | Replacement<br>Latch Kit<br>Stock No. |
|-----------------------------------|----------------------------------|---------------------|---------------------|--------------------------|------------------|------|------|------|------|-----|------|------|------|------|------|------|---|-----------------------|---------------------------------------|
|                                   |                                  |                     |                     |                          | A                | B    | C    | D    | E    | F   | G    | H    | L    | P    | R    | AA** |   |                       |                                       |
| 3/8                               | -                                | 1011707             | 1011802             | 1.0                      | 2.06             | 1.13 | .63  | 2.41 | .63  | .38 | .84  | .91  | 4.28 | 2.59 | .63  | 1.50 | D | 1096325               |                                       |
| 1/2                               | 1/8                              | 1011716             | 1011811             | 1.4                      | 2.25             | 1.31 | .75  | 2.97 | .78  | .50 | .97  | 1.06 | 4.97 | 3.09 | .75  | 1.50 | F | 1096374               |                                       |
| † 5/8                             | -                                | 1011725             | 1011820             | 3.0                      | 3.06             | 1.63 | .75  | 3.56 | .94  | .56 | 1.13 | 1.31 | 6.38 | 3.88 | 1.00 | 2.00 | G | 1096421               |                                       |
| † 5/8                             | 3/16                             | 1011734             | 1011839             | 2.7                      | 3.06             | 1.63 | 1.00 | 3.56 | .94  | .56 | 1.13 | 1.31 | 6.38 | 4.00 | 1.13 | 2.00 | G | 1096421               |                                       |
| † 3/4                             | -                                | 1011743             | 1011848             | 4.4                      | 3.38             | 2.13 | 1.00 | 4.25 | 1.16 | .63 | 1.44 | 1.63 | 7.66 | 4.58 | 1.13 | 2.50 | H | 1096468               |                                       |
| † 3/4                             | 1/4                              | 1011752             | 1011857             | 3.8                      | 3.38             | 2.13 | 1.44 | 4.25 | 1.16 | .63 | 1.44 | 1.63 | 7.66 | 4.78 | 1.13 | 2.50 | H | 1096468               |                                       |
| †† 7/8-1                          | -                                | 1028177             | 1028177             | 9.70                     | 4.41             | 2.12 | 1.25 | 6.06 | 1.41 | .88 | 2.00 | 2.33 | 9.55 | 5.72 | 1.50 | 3.00 | I | 1096515               |                                       |

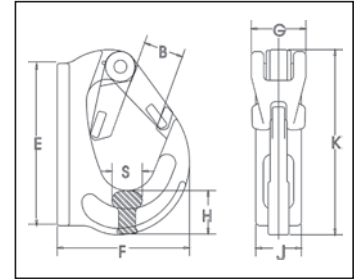
\*\* Deformation Indicators. † Determine EYE diameter "C", before ordering. †† 7/8-1" is Cast Steel & furnished with latch attached.



## Crosby

### BH-313 WELD-ON BUCKET HOOK

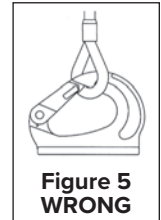
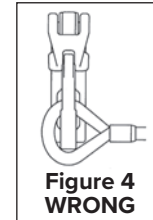
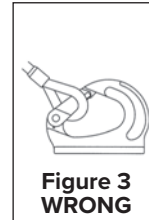
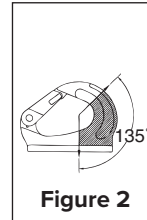
- Wide range of sizes available: 1-10 metric ton capacity.
- Forged Alloy Steel.
- Designed for attachment to mobile lifting equipment to provide a pick point for easy sling attachment.
- Large weld pad.
- Heavy duty latch interlocks with the hook tip. Replacement latches available.
- Detailed installation and application instructions included with each hook.



| Working Load Limit (t)* | BH-313 Stock No. | Weight Each (lbs.) | Dimensions (in) |      |      |      |      |      |      |      | Replacement Latch Stock No. |
|-------------------------|------------------|--------------------|-----------------|------|------|------|------|------|------|------|-----------------------------|
|                         |                  |                    | B               | E    | F    | G    | H    | J    | K    | S    |                             |
| 1                       | 1029105          | 1.15               | .91             | 3.82 | 2.80 | 1.42 | 1.06 | 1.02 | 4.21 | .71  | 1092104                     |
| 2                       | 1029114          | 1.85               | .91             | 3.23 | 3.58 | 1.42 | .98  | 1.34 | 4.53 | .83  | 1092104                     |
| 3                       | 1029123          | 2.60               | 1.14            | 4.61 | 4.13 | 1.42 | 1.22 | 1.42 | 5.16 | .94  | 1092104                     |
| 4                       | 1029132          | 4.19               | 1.34            | 5.16 | 4.49 | 1.81 | 1.42 | 1.69 | 5.79 | 1.14 | 1092105                     |
| 5                       | 1029141          | 5.62               | 1.34            | 6.34 | 5.24 | 1.85 | 1.77 | 1.73 | 6.81 | 1.14 | 1092105                     |
| 8                       | 1029150          | 7.28               | 1.38            | 6.54 | 5.31 | 1.85 | 2.05 | 2.05 | 7.01 | 1.54 | 1092105                     |
| 10                      | 1029169          | 11.02              | 1.93            | 8.07 | 6.61 | 1.85 | 2.24 | 2.13 | 8.74 | 1.54 | 1092106                     |

#### Plate Thickness Requirements

| Working Load Limit (t) | Minimum Plate Thickness (in.) | Minimum Fillet Size All Around (in.) | Minimum Plate Thickness (mm) | Minimum Fillet Size All Around (mm) |
|------------------------|-------------------------------|--------------------------------------|------------------------------|-------------------------------------|
| 1                      | 3/16                          | 3/16                                 | 5                            | 5                                   |
| 2                      | 1/4                           | 1/4                                  | 6                            | 6                                   |
| 3                      | 5/16                          | 5/16                                 | 8                            | 8                                   |
| 4                      | 5/16                          | 5/16                                 | 8                            | 8                                   |
| 5                      | 3/8                           | 3/8                                  | 10                           | 10                                  |
| 8                      | 1/2                           | 1/2                                  | 13                           | 13                                  |
| 10                     | 1/2                           | 1/2                                  | 13                           | 13                                  |



### Instructions for Assembling S-4313 Latch on BH-313 Weld-On Hook

1. Place hook flat on work surface as shown.

#### Hook Sizes 1 to 3 Tons

**2A.** Position coils of spring over hook cam, with legs of spring pointing towards hook tip and coil of spring positioned down as shown.

#### Hook Sizes 4 to 10 Tons

**2B.** Spread legs of spring and place into drilled hole. Position coils of spring over hook cam, with end of spring pointing toward hook tip as shown.

**3.** Position latch over spring, aligning latch ears and spring coil. On pin hole side of latch, insert non-grooved end of latch pin through hole in latch and through spring until contact is made with hook body (a small punch may be required for proper alignment).

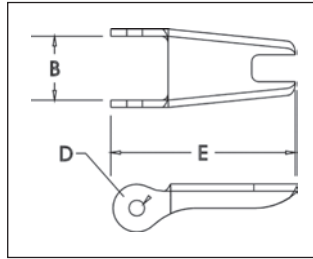
**4.** Align holes in latch with holes in cam of hook. Continue pushing the pin through hook, spring and latch.

**5.** Insert roll-pin into latch, driving it in with a hammer, while ensuring that latch pin groove is in alignment.



## SS-4320 REPLACEMENT LATCH KITS

- Heavy duty stamped latch interlocks with the hook tip.
- High cycle, long life spring.
- Can be made into a "Positive Locking" Hook when proper cotter pin is utilized.
- Latch kits shipped unassembled and individually packaged with instructions.
- Meets the intent of OSHA Rule 1926.1431(g) and 1926.1501(g)(when secured with the bolt, nut and pin) for lifting personnel.

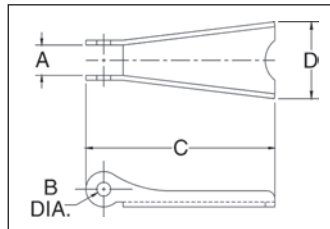


| Hook Size (t) |       |        | Hook ID Code | S-4320 Stock No. | Weight Each (lbs.) | Dimensions (in.) |     |      |
|---------------|-------|--------|--------------|------------------|--------------------|------------------|-----|------|
| Carbon        | Alloy | Bronze |              |                  |                    | B                | D   | E    |
| 3/4           | 1     | .5     | D            | 1096325          | .03                | .50              | .15 | 1.44 |
| 1             | 1-1/2 | .6     | F            | 1096374          | .04                | .54              | .17 | 1.56 |
| 1-1/2         | 2     | 1      | G            | 1096421          | .04                | .63              | .17 | 1.66 |
| 2             | 3     | 1.4    | H            | 1096468          | .06                | .66              | .17 | 1.91 |
| 3             | 5     | 2      | I            | 1096515          | .10                | .83              | .20 | 2.31 |
| 5             | 7     | 3.5    | J            | 1096562          | .15                | 1.04             | .20 | 2.88 |
| 7-1/2         | 11    | 5      | K            | 1096609          | .28                | 1.25             | .27 | 3.56 |
| 10            | 15    | 6.5    | L            | 1096657          | .33                | 1.35             | .27 | 3.81 |
| 15            | 22    | 10     | N            | 1096704          | .84                | 1.66             | .39 | 5.18 |

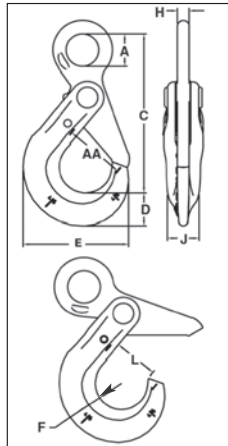


## SS-4055 REPLACEMENT LATCH KITS

- Stainless steel construction with cadmium plated steel nuts.
- Shipped packaged and unassembled.
- Instructions included for easy field assembly.



| Hook Size (t) |         |           | Hook ID Code | SS-4055 Stock No. | Weight Each (lbs.) | Dimensions (in.) |     |      |      |
|---------------|---------|-----------|--------------|-------------------|--------------------|------------------|-----|------|------|
| Carbon        | Alloy   | Bronze    |              |                   |                    | A                | B   | C    | D    |
| 3/4           | 1       | .5        | D            | 1090027           | .02                | .38              | .16 | 1.44 | .59  |
| 1             | 1-1/2   | .6        | F            | 1090045           | .02                | .38              | .16 | 1.60 | .59  |
| 1-1/2 - 2     | 2 - 3   | 1.0 - 1.4 | G / H        | 1090063           | .03                | .47              | .19 | 1.84 | .82  |
| 3             | 4-1/2   | 2.0       | I            | 1090081           | .06                | .56              | .17 | 2.41 | 1.00 |
| 5             | 7       | 3.5       | J            | 1090107           | .11                | .58              | .20 | 2.97 | 1.21 |
| 7-1/2 - 10    | 11 - 15 | 5.0 - 6.5 | K / L        | 1090125           | .17                | .59              | .27 | 3.66 | 1.50 |
| 15            | 22      | 10.0      | N            | 1090143           | .39                | .83              | .39 | 4.94 | 1.90 |
| 20            | 30      | --        | O            | 1090161           | .63                | .94              | .52 | 5.88 | 2.56 |
| 25 - 30       | 37 - 45 | --        | P / S        | 1090189           | 1.12               | 2.19             | .39 | 6.50 | 3.84 |
| 40            | 60      | --        | T            | 1090205           | 1.77               | 3.31             | .52 | 7.88 | 4.12 |

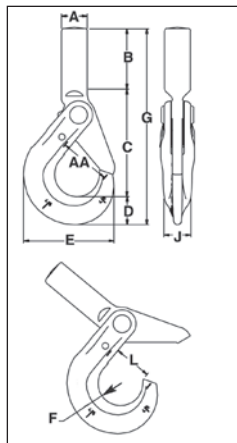


**Crosby**

## S-1316 EYE SHUR-LOC HOOK

- All SHUR-LOC® hooks have the following features:
  - Forged Alloy Steel - Quenched and Tempered.
  - Recessed trigger design is flush with the hook body, protecting the trigger from potential damage.
  - Easy to operate with enlarged thumb access.
  - Positive Lock Latch is Self-Locking when hook is loaded.
- The SHUR-LOC® hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g)(1)(i)(A) and 1926.1501(g)(4)(iv)(B).
- Eye Style incorporates these added features:
  - Individually Proof Tested to 2-1/2 times the 4:1 Working Load Limit with certification.
  - S-1316 meets the performance requirements of EN1677-3:2001
  - 25% stronger than Grade 80.
  - Suitable for use with Grade 100 and Grade 80 chain.
  - Designed with "Engineered Flat" to connect to S-1325 chain coupler.
  - Fatigue Rated

| Chain Size |       | Frame code | Grade 100 Alloy Chain Working Load Limit (lbs.)* 4:1 | Working Load Limit (lbs.) 5:1 | S-1316 Stock No. | Weight Each (lbs.) | Dimensions (in.) |       |      |      |      |      |      |      |      | AA** |
|------------|-------|------------|------------------------------------------------------|-------------------------------|------------------|--------------------|------------------|-------|------|------|------|------|------|------|------|------|
| (in.)      | (mm)  |            |                                                      |                               |                  |                    | A                | C     | D    | E    | F    | H    | J    | L    |      |      |
| -          | 6     | D          | 3200                                                 | 2560                          | 1022896          | .85                | .78              | 3.95  | .79  | 2.60 | .67  | .31  | .63  | 1.14 | 1.50 |      |
| 1/4-5/16   | 7-8   | G          | 5700                                                 | 4560                          | 1022914          | 1.80               | 1.08             | 5.31  | 1.10 | 3.50 | .87  | .39  | .81  | 1.48 | 2.00 |      |
| 3/8        | 10    | H          | 8800                                                 | 7040                          | 1022923          | 3.40               | 1.30             | 6.57  | 1.17 | 4.39 | 1.10 | .51  | .94  | 1.83 | 2.50 |      |
| 1/2        | 13    | I          | 15000                                                | 12000                         | 1022932          | 6.00               | 1.65             | 8.23  | 1.67 | 5.45 | 1.26 | .67  | 1.16 | 2.22 | 3.00 |      |
| 5/8        | 16    | J          | 22600                                                | 18000                         | 1022941          | 15.1               | 2.20             | 10.06 | 2.04 | 6.56 | 1.50 | .87  | 1.50 | 2.65 | 3.50 |      |
| 3/4        | 18-20 | -          | 35300                                                | 28240                         | 1022942          | 19.0               | 2.60             | 10.77 | 2.22 | 7.76 | 2.01 | .87  | 2.03 | 3.52 | 5.00 |      |
| 7/8        | 22    | -          | 42700                                                | 34160                         | 1022943          | 28.0               | 2.87             | 12.49 | 2.45 | 8.75 | 2.27 | .98  | 2.20 | 3.83 | 6.00 |      |
| 1          | 26    | -          | 59700                                                | 47,760                        | 1022944          | 49.5               | 3.15             | 14.60 | 3.21 | 9.87 | 2.46 | 1.26 | 2.68 | 4.09 | 6.50 |      |



**Crosby**

## S-1318A SHUR-LOC SHANK HOOK

- All SHUR-LOC® hooks have the following features:
  - Forged Alloy Steel - Quenched and Tempered.
  - Recessed trigger design is flush with the hook body, protecting the trigger from potential damage.
  - Easy to operate with enlarged thumb access.
  - Positive Lock Latch is Self-Locking when hook is loaded.
- The SHUR-LOC® hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g)(1)(i)(A) and 1926.1501(g)(4)(iv)(B).

| Chain Size |      | S-1318A Stock No. | Frame code | Grade 100 Alloy Chain Working Load Limit (lbs.) | Dimensions (in.) |      |      |      |      |      |       |      |      |      | Weight Each (lbs.) |
|------------|------|-------------------|------------|-------------------------------------------------|------------------|------|------|------|------|------|-------|------|------|------|--------------------|
| (in.)      | (mm) |                   |            |                                                 | A†               | B    | C    | D    | E    | F    | G     | J    | L    | AA** |                    |
| -          | 6    | 1098200           | D          | 3200                                            | .79              | 2.16 | 3.31 | .79  | 2.60 | .67  | 6.26  | .63  | 1.16 | 1.50 | 1.00               |
| 1/4-5/16   | 7-8  | 1098209           | G          | 5700                                            | 1.00             | 2.40 | 4.16 | 1.10 | 3.51 | .87  | 7.66  | .81  | 1.48 | 2.00 | 1.99               |
| 3/8        | 10   | 1098218           | H          | 8800                                            | 1.14             | 2.95 | 5.14 | 1.17 | 4.39 | 1.10 | 9.26  | .94  | 1.83 | 2.50 | 3.56               |
| 1/2        | 13   | 1098227           | I          | 15000                                           | 1.34             | 3.35 | 6.31 | 1.67 | 5.49 | 1.26 | 11.33 | 1.16 | 2.22 | 3.00 | 7.00               |

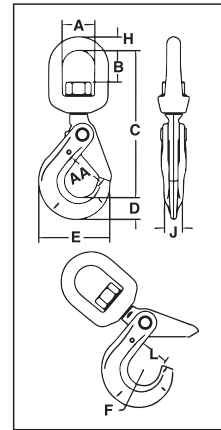
\* Ultimate Load is 4 times the Working Load Limit based on Grade 100 chain. \*\* Deformation Indicators. † Dimension before machining (as forged).





## S-1326 SWIVEL HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested at 2-1/2 times the 4:1 Working Load Limit with certification.
- Recessed trigger design is flush with the hook body, protecting the trigger from potential damage.
- Easy to operate with enlarged thumb access.
- Positive Lock Latch is Self-Locking when hook is loaded.
- Rated for both Wire Rope and use with Grade 80/100 Chain.
- G-414 Heavy Thimble should be used with wire rope slings.
- Trigger Repair Kit available (S-4316). Consists of spring, roll pin and trigger.
- S-13326 Swivel Hook utilizes anti-friction bearing design which allows hook to rotate freely under load.
- Fatigue rated.
- The SHUR-LOC® hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g)(1)(i)(A) and 1926.1501(g)(4)(iv)(B).
- "Look for the Platinum Color – Crosby Grade 100 Alloy Products."

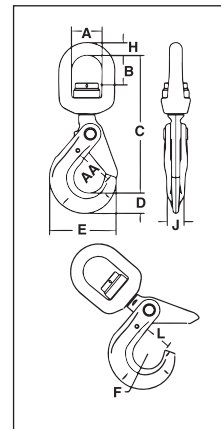


| Chain Size |         | Frame code | Grade 100 Alloy Chain Working Load Limit (lbs.)* 4:1 | Working Load Limit (lbs.) 5:1 | S-1326 Stock No. | Weight Each (lbs.) | Dimensions (in.) |      |       |      |      |      |      |      |      |      |
|------------|---------|------------|------------------------------------------------------|-------------------------------|------------------|--------------------|------------------|------|-------|------|------|------|------|------|------|------|
| (in.)      | (mm)    |            |                                                      |                               |                  |                    | A                | B    | C     | D    | E    | F    | H    | J    | L    | AA** |
| -          | 6       | D          | 3200                                                 | 2560                          | 1004304          | 1.26               | 1.50             | 1.32 | 6.13  | .79  | 2.60 | .67  | .50  | .63  | 1.13 | 1.50 |
| 1/4 - 5/16 | 7-8     | G          | 5700                                                 | 4560                          | 1004313          | 2.62               | 1.75             | 1.59 | 7.60  | 1.10 | 3.50 | .87  | .63  | .81  | 1.38 | 2.00 |
| 3/8        | 10      | H          | 8800                                                 | 7040                          | 1004322          | 4.70               | 2.00             | 1.73 | 8.83  | 1.17 | 4.39 | 1.10 | .75  | .94  | 1.75 | 2.50 |
| 1/2        | 13      | I          | 15000                                                | 12000                         | 1004331          | 8.64               | 2.50             | 2.38 | 11.20 | 1.67 | 5.45 | 1.26 | 1.00 | 1.16 | 2.11 | 3.00 |
| 5/8        | 16      | -          | 22600                                                | 18000                         | 1004340          | 17.00              | 2.75             | 2.70 | 12.90 | 2.05 | 6.56 | 1.50 | 1.13 | 1.50 | 2.49 | 3.50 |
| 3/4        | 18 - 20 | -          | 35300                                                | 28240                         | 1004349          | 24.00              | 2.83             | 2.52 | 14.10 | 2.22 | 7.76 | 2.01 | 1.10 | 2.03 | 3.52 | 5.00 |
| 7/8        | 22      | -          | 42700                                                | 34160                         | 1004358          | 29.00              | 3.44             | 3.19 | 16.40 | 2.45 | 8.75 | 2.26 | 1.30 | 2.20 | 3.83 | 6.00 |

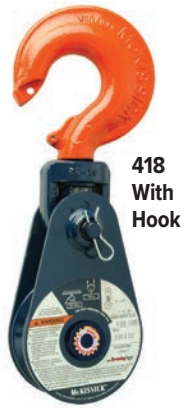


## S-13326 SHUR-LOC SWIVEL HOOK WITH BEARING

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested at 2-1/2 times the 4:1 Working Load Limit with certification.
- Recessed trigger design is flush with the hook body, protecting the trigger from potential damage.
- Easy to operate with enlarged thumb access.
- Positive Lock Latch is Self-Locking when hook is loaded.
- Rated for both Wire Rope and use with Grade 80/100 Chain.
- G-414 Heavy Thimble should be used with wire rope slings.
- Trigger Repair Kit available (S-4316). Consists of spring, roll pin and trigger.
- S-13326 Swivel Hook utilizes anti-friction bearing design which allows hook to rotate freely under load.
- Fatigue rated.
- The SHUR-LOC® hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g)(1)(i)(A) and 1926.1501(g)(4)(iv)(B).
- "Look for the Platinum Color – Crosby Grade 100 Alloy Products."



| Chain Size |      | Frame code | Grade 100 Alloy Chain Working Load Limit (lbs.)* 4:1 | Working Load Limit (lbs.) 5:1 | S-13326 Stock No. | Weight Each (lbs.) | Dimensions (in) |      |       |      |      |      |      |      |      |      |
|------------|------|------------|------------------------------------------------------|-------------------------------|-------------------|--------------------|-----------------|------|-------|------|------|------|------|------|------|------|
| (in.)      | (mm) |            |                                                      |                               |                   |                    | A               | B    | C     | D    | E    | F    | H    | J    | L    | AA** |
| -          | 6    | D          | 3200                                                 | 2560                          | 1004404           | 1.50               | 1.50            | 1.14 | 6.17  | .79  | 2.60 | .67  | .50  | .63  | 1.13 | 1.50 |
| 1/4 - 5/16 | 7-8  | G          | 5700                                                 | 4560                          | 1004413           | 3.10               | 1.75            | 1.52 | 7.54  | 1.10 | 3.50 | .87  | .63  | .81  | 1.44 | 2.00 |
| 3/8        | 10   | H          | 8800                                                 | 7040                          | 1004422           | 5.26               | 2.00            | 1.61 | 8.88  | 1.16 | 4.35 | 1.10 | .75  | .94  | 1.83 | 2.50 |
| 1/2        | 13   | I          | 15000                                                | 12000                         | 1004431           | 11.22              | 2.50            | 2.03 | 11.11 | 1.66 | 5.45 | 1.26 | 1.00 | 1.16 | 2.19 | 3.00 |
| 5/8        | 16   | -          | 22600                                                | 18000                         | 1004440           | 17.32              | 2.75            | 2.25 | 12.90 | 2.05 | 6.56 | 1.50 | 1.13 | 1.50 | 2.61 | 3.50 |



**418  
With  
Hook**



**419  
With  
Shackle**



**404  
Tail  
Board**

## Crosby

### MCKISSICK LIGHT CHAMPION SNATCH BLOCKS

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



**NOTE:** When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing, and Wireline size.  
**NOTE:** Tail Board does not contain the spool that is required with the hook (418) and shackle (419) snatch blocks.

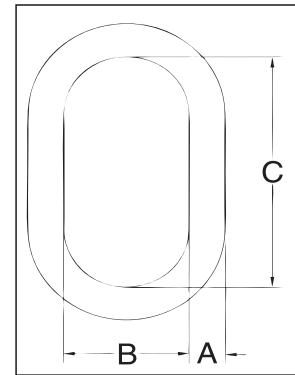
| Sheave Diameter<br>(in.) | Bearing<br>Code | Stock No.        |                     |                   | Wire<br>Rope Size<br>(in.) ‡ | Working<br>Load Limit<br>(t)* | Weight Each (lbs.) |                     |                   | Rep. Sheave<br>Stock No. | Rep. Latch<br>Stock No. |
|--------------------------|-----------------|------------------|---------------------|-------------------|------------------------------|-------------------------------|--------------------|---------------------|-------------------|--------------------------|-------------------------|
|                          |                 | 418 with<br>Hook | 419 with<br>Shackle | 404 Tail<br>Board |                              |                               | 418 with<br>Hook   | 419 with<br>Shackle | 404 Tail<br>Board |                          |                         |
| ** 3                     | BB              | -                | 109091              | -                 | 5/16 - 3/8                   | 2                             | -                  | 4                   | -                 | 460147                   | -                       |
| ** 3                     | BB              | 108038           | 109037 †            | 102016            | 5/16 - 3/8                   | 2                             | 5                  | 4                   | 3                 | 460147                   | 1096421                 |
| **4-1/2                  | BB              | 108065           | 109064              | 102025            | 3/8 - 1/2                    | 4                             | 12                 | 12                  | 7                 | 2000232                  | 1096468                 |
| 6                        | BB              | 108127           | 109126              | 102098            | 5/8 - 3/4                    | 8                             | 27                 | 28                  | 15                | 460815                   | 1096562                 |
| 6                        | RB              | 108154           | 109153              | 102114            | 5/8 - 3/4                    | 8                             | 27                 | 28                  | 15                | 472688                   | 1096562                 |
| 8                        | BB              | 108225           | 109224              | 102169            | 5/8 - 3/4                    | 8                             | 33                 | 34                  | 21                | 461164                   | 1096562                 |
| 8                        | RB              | 108252           | 109251              | 102187            | 5/8 - 3/4                    | 8                             | 33                 | 34                  | 21                | 473277                   | 1096562                 |
| 10                       | BB              | 108323           | 109322              | 102230            | 5/8 - 3/4                    | 8                             | 41                 | 42                  | 29                | 461805                   | 1096562                 |
| 10                       | RB              | 108350           | 109359              | 102258            | 5/8 - 3/4                    | 8                             | 41                 | 42                  | 29                | 473776                   | 1096562                 |
| 12                       | BB              | 169169           | 202961              | 178890            | 5/8                          | 8                             | 48                 | 49                  | 36                | 462270                   | 1096562                 |
| 12                       | RB              | 199911           | 169347              | 178934            | 5/8                          | 8                             | 48                 | 49                  | 36                | 474141                   | 1096562                 |
| 12                       | BB              | 108421           | 109420              | 102301            | 3/4                          | 8                             | 48                 | 49                  | 36                | 462289                   | 1096562                 |
| 12                       | RB              | 108458           | 109457              | 102329            | 3/4                          | 8                             | 48                 | 49                  | 36                | 474150                   | 1096562                 |
| 14                       | BB              | 194920           | 169356              | -                 | 5/8                          | 8                             | 55                 | 56                  | -                 | 463625                   | 1096562                 |
| 14                       | RB              | 199948           | 167857              | -                 | 5/8                          | 8                             | 55                 | 56                  | -                 | 474766                   | 1096562                 |
| 14                       | BB              | 108528           | 109527              | -                 | 3/4                          | 8                             | 55                 | 56                  | -                 | 463634                   | 1096562                 |
| 14                       | RB              | 108546           | 109545              | -                 | 3/4                          | 8                             | 55                 | 56                  | -                 | 474775                   | 1096562                 |
| 16                       | BB              | 199975           | 203041              | -                 | 3/4                          | 15                            | 130                | 135                 | -                 | 4100056                  | 1096609                 |
| 16                       | RB              | 200008           | 203087              | -                 | 3/4                          | 15                            | 130                | 135                 | -                 | 4200028                  | 1096609                 |
| 16                       | BB              | 108608           | 109607              | -                 | 7/8                          | 15                            | 130                | 135                 | -                 | 4100065                  | 1096609                 |
| 16                       | RB              | 108626           | 109625              | -                 | 7/8                          | 15                            | 130                | 135                 | -                 | 4200037                  | 1096609                 |
| 18                       | BB              | 200099           | 203130              | -                 | 7/8                          | 15                            | 150                | 155                 | -                 | 464571                   | 1096609                 |
| 18                       | RB              | 200151           | 203176              | -                 | 7/8                          | 15                            | 150                | 155                 | -                 | 475792                   | 1096609                 |
| 18                       | BB              | 108644           | 109643              | -                 | 1                            | 15                            | 150                | 155                 | -                 | 4104640                  | 1096609                 |
| 18                       | RB              | 108662           | 109661              | -                 | 1                            | 15                            | 150                | 155                 | -                 | 6000000                  | 1096609                 |

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



## A-342 ALLOY MASTER LINKS

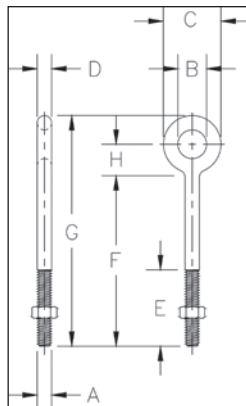
- Alloy Steel — Quenched and Tempered.
- Individually Proof Tested to values shown, with certification.
- Proof Tested with 60% inside width special fixtures sized to prevent localized point loading per ASME A-952, reference page 276.
- Forgings have a Product Identification Code (PIC) for material traceability, along with the size, the name Crosby and USA in raised lettering.
- Selected sizes designated with “W” in the size column have enlarged inside dimensions to allow additional room for sling hardware and crane hook.
- Crosby 1 1/4” to 2” 342/345 master links are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby master links are 100% proof tested, MPI and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request. Refer to page 164 for Crosby COLD TUFF® master links that meet the additional requirements of DNV rules for certification of lifting appliances - Loose Gear.
- Incorporates patented **QUIC-CHECK®** deformation indicators.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



| Size     |        | A-342<br>Stock No | Weight Each<br>(lbs.) | Working Load<br>Limit (lbs.)* | Proof Load<br>(lbs.)** | Dimensions (in.) |       |       |                       |
|----------|--------|-------------------|-----------------------|-------------------------------|------------------------|------------------|-------|-------|-----------------------|
| (in.)    | (mm)   |                   |                       |                               |                        | A                | B     | C     | Deformation Indicator |
| 1/2W     | 13W    | 1014266           | 1.3                   | 7400                          | 17200                  | .62              | 2.80  | 5.00  | 3.50                  |
| 5/8      | 16     | 1014280           | 1.5                   | 9000                          | 18000                  | .62              | 3.00  | 6.00  | 3.50                  |
| 3/4W     | 19W    | 1014285           | 2.0                   | 12300                         | 28400                  | .73              | 3.20  | 6.00  | 4.00                  |
| 7/8W     | 22W    | 1014319           | 3.3                   | 15200                         | 35200                  | .88              | 3.75  | 6.38  | 4.50                  |
| 1W       | 26W    | 1014331           | 6.1                   | 26000                         | 60000                  | 1.10             | 4.30  | 7.50  | 5.50                  |
| 1-1/4W   | 32W    | 1014348           | 12.0                  | 39100                         | 90400                  | 1.33             | 5.50  | 9.50  | 7.00                  |
| † 1-1/4W | † 32W  | 1262505           | 9.2                   | † 36200                       | 90500                  | 1.25             | 4.38  | 8.75  | 5.50                  |
| 1-1/2W   | 38W    | 1014365           | 18.6                  | † 61100                       | 141200                 | 1.61             | 5.90  | 10.50 | 6.50                  |
| † 1-1/2W | † 38W  | 1262514           | 15.9                  | 54300                         | 135750                 | 1.50             | 5.25  | 10.50 | 7.50                  |
| 1-3/4    | 44     | 1014388           | 25.2                  | 84900                         | 212250                 | 1.75             | 6.00  | 12.00 | 7.50                  |
| † 1-3/4  | † 44   | 1262523           | 24.8                  | † 84900                       | 212250                 | 1.75             | 6.00  | 12.00 | 7.50                  |
| 2        | 51     | 1014404           | 37.0                  | 102600                        | 256500                 | 2.00             | 7.00  | 14.00 | 9.00                  |
| † 2      | † 51   | 1262532           | 37.7                  | † 102600                      | 256500                 | 2.00             | 7.00  | 14.00 | 9.00                  |
| 2-1/4    | 57     | 1014422           | 54.1                  | 143100                        | 289200                 | 2.25             | 8.00  | 16.00 | 10.00                 |
| 2-1/2    | 63     | 1014468           | 68.5                  | 160000                        | 320000                 | 2.50             | 8.38  | 16.00 | 11.00                 |
| 2-3/4    | 70     | 1014440           | 94.0                  | 216900                        | 433800                 | 2.75             | 9.88  | 18.00 | 12.50                 |
| 3        | 76     | 1014486           | 115                   | 228000                        | 456000                 | 3.00             | 9.88  | 18.00 | 13.00                 |
| 3-1/4    | 83     | 1014501           | 145                   | 262200                        | 524400                 | 3.25             | 10.00 | 20.00 | 13.50                 |
| 3-1/2    | 89     | 1014529           | 200                   | 279000                        | 558000                 | 3.50             | 12.00 | 24.00 | 15.50                 |
| 3-3/4    | 95     | 1015051           | 198                   | 336000                        | 672000                 | 3.75             | 10.00 | 20.00 | 13.50                 |
| 4        | 102    | 1015060           | 264                   | 373000                        | 746000                 | 4.00             | 12.00 | 24.00 | 16.00                 |
| †† 4-1/4 | †† 108 | 1015067           | 302                   | 354000                        | 708000                 | 4.25             | 12.00 | 24.00 | -                     |
| †† 4-1/2 | †† 114 | 1015079           | 345                   | 360000                        | 720000                 | 4.50             | 14.00 | 28.00 | -                     |
| †† 4-3/4 | †† 121 | 1015088           | 436                   | 389000                        | 778000                 | 4.75             | 14.00 | 28.00 | -                     |
| †† 5     | †† 127 | 1015094           | 516                   | 395000                        | 790000                 | 5.00             | 15.00 | 30.00 | -                     |

\*Ultimate Load is 5 times the Working Load Limit. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees. Applications with wire rope and synthetic sling generally require a design factor of 5. \*\*Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9.

†Ultimate Load is 4 times the Working Load Limit for Offshore Container Master Links. †Offshore Container Master Links Proof Tested to 2.5 times the Working Load Limit with 70 percent fixtures.



## Crosby

### G-291 REGULAR NUT EYE BOLTS

- Forged Steel - Quenched and Tempered.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- All Bolts Hot Dip galvanized after threading (UNC).
- Furnished with standard Hot Dip galvanized hex nuts.
- Recommended for in-line pull.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these bolts meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

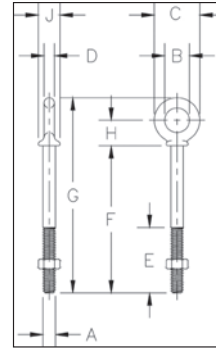
| Shank Dia. & Length (in.) | G-291 Stock No. | Working Load Limit (lbs.)* | Weight Per 100 (lbs.) | Dimensions (in.) |      |      |      |      |       |       |      |
|---------------------------|-----------------|----------------------------|-----------------------|------------------|------|------|------|------|-------|-------|------|
|                           |                 |                            |                       | A                | B    | C    | D    | E    | F     | G     | H    |
| 3/8 x 4-1/2               | 1043338         | 1550                       | 29.50                 | .38              | .75  | 1.50 | .38  | 2.50 | 4.50  | 6.12  | .88  |
| 1/2 x 3-1/4               | 1043374         | 2600                       | 50.30                 | .50              | 1.00 | 2.00 | .50  | 1.50 | 3.25  | 5.38  | 1.12 |
| 1/2 x 6                   | 1043392         | 2600                       | 66.10                 | .50              | 1.00 | 2.00 | .50  | 3.00 | 6.00  | 8.12  | 1.12 |
| 1/2 x 8                   | 1043418         | 2600                       | 82.00                 | .50              | 1.00 | 2.00 | .50  | 3.00 | 8.00  | 10.12 | 1.12 |
| 1/2 x 10                  | 1043436         | 2600                       | 88.00                 | .50              | 1.00 | 2.00 | .50  | 3.00 | 10.00 | 12.12 | 1.12 |
| 1/2 x 12                  | 1043454         | 2600                       | 114.20                | .50              | 1.00 | 2.00 | .50  | 3.00 | 12.00 | 14.12 | 1.12 |
| 5/8 x 4                   | 1043472         | 5200                       | 103.10                | .62              | 1.25 | 2.50 | .62  | 2.00 | 4.00  | 6.69  | 1.44 |
| 5/8 x 6                   | 1043490         | 5200                       | 118.20                | .62              | 1.25 | 2.50 | .62  | 3.00 | 6.00  | 8.69  | 1.44 |
| 5/8 x 8                   | 1043515         | 5200                       | 135.10                | .62              | 1.25 | 2.50 | .62  | 3.00 | 8.00  | 10.69 | 1.44 |
| 5/8 x 10                  | 1043533         | 5200                       | 153.60                | .62              | 1.25 | 2.50 | .62  | 3.00 | 10.00 | 12.69 | 1.44 |
| 5/8 x 12                  | 1043551         | 5200                       | 167.10                | .62              | 1.25 | 2.50 | .62  | 4.00 | 12.00 | 14.69 | 1.44 |
| 3/4 x 4-1/2               | 1043579         | 7200                       | 168.60                | .75              | 1.50 | 3.00 | .75  | 2.00 | 4.50  | 7.69  | 1.69 |
| 3/4 x 6                   | 1043597         | 7200                       | 184.50                | .75              | 1.50 | 3.00 | .75  | 3.00 | 6.00  | 9.19  | 1.69 |
| 3/4 x 8                   | 1043613         | 7200                       | 207.90                | .75              | 1.50 | 3.00 | .75  | 3.00 | 8.00  | 11.19 | 1.69 |
| 3/4 x 10                  | 1043631         | 7200                       | 235.00                | .75              | 1.50 | 3.00 | .75  | 3.00 | 10.00 | 13.19 | 1.69 |
| 3/4 x 12                  | 1043659         | 7200                       | 257.50                | .75              | 1.50 | 3.00 | .75  | 4.00 | 12.00 | 15.19 | 1.69 |
| 3/4 x 15                  | 1043677         | 7200                       | 298.00                | .75              | 1.50 | 3.00 | .75  | 5.00 | 15.00 | 18.19 | 1.69 |
| 7/8 x 5                   | 1043695         | 10600                      | 270.00                | .88              | 1.75 | 3.50 | .88  | 2.50 | 5.00  | 8.75  | 2.00 |
| 7/8 x 8                   | 1043711         | 10600                      | 308.00                | .88              | 1.75 | 3.50 | .88  | 4.00 | 8.00  | 11.75 | 2.00 |
| 7/8 x 12                  | 1043739         | 10600                      | 400.00                | .88              | 1.75 | 3.50 | .88  | 4.00 | 12.00 | 15.75 | 2.00 |
| 1 x 6                     | 1043757         | 13300                      | 421.00                | 1.00             | 2.00 | 4.00 | 1.00 | 3.00 | 6.00  | 10.31 | 2.31 |
| 1 x 9                     | 1043775         | 13300                      | 468.50                | 1.00             | 2.00 | 4.00 | 1.00 | 4.00 | 9.00  | 13.31 | 2.31 |
| 1 x 12                    | 1043793         | 13300                      | 540.00                | 1.00             | 2.00 | 4.00 | 1.00 | 4.00 | 12.00 | 16.31 | 2.31 |
| 1 x 18                    | 1043819         | 13300                      | 650.00                | 1.00             | 2.00 | 4.00 | 1.00 | 7.00 | 18.00 | 22.31 | 2.31 |
| 1-1/4 x 8                 | 1043837         | 21000                      | 750.00                | 1.25             | 2.50 | 5.00 | 1.25 | 4.00 | 8.00  | 13.38 | 2.88 |
| 1-1/4 x 12                | 1043855         | 21000                      | 900.00                | 1.25             | 2.50 | 5.00 | 1.25 | 4.00 | 12.00 | 17.38 | 2.88 |
| 1-1/4 x 20                | 1043873         | 21000                      | 1210.00               | 1.25             | 2.50 | 5.00 | 1.25 | 6.00 | 20.00 | 25.38 | 2.88 |

\*Ultimate Load is 5 times the Working Load Limit. Working Load Limit shown is for in-line pull. Maximum Proof Load is 2 times the Working Load Limit.



## G-277 SHOULDER NUT EYE BOLTS

- Forged Steel - Quenched and Tempered.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Working Load Limits shown are for in-line pull. For angle loading, see page 200.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these bolts meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- All Bolts Hot Dip galvanized after threading (UNC).
- Furnished with standard Hot Dip galvanized, heavy hex nuts.

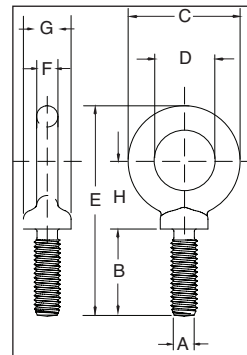


| Shank Diameter & Length (in.) | G-277 Stock No. | Working Load Limit (lbs.)* | Weight Per 100 (lbs.) | Dimensions (in.) |      |      |      |      |       |       |      |      |  |
|-------------------------------|-----------------|----------------------------|-----------------------|------------------|------|------|------|------|-------|-------|------|------|--|
|                               |                 |                            |                       | A                | B    | C    | D    | E    | F     | G     | H    | J    |  |
| 3/8 x 4-1/2                   | 1045112         | 1550                       | 25.30                 | .38              | .75  | 1.38 | .31  | 2.50 | 4.50  | 5.97  | .78  | .66  |  |
| 1/2 x 3-1/4                   | 1045130         | 2600                       | 42.60                 | .50              | 1.00 | 1.75 | .38  | 1.50 | 3.25  | 5.12  | 1.00 | .91  |  |
| 1/2 x 6                       | 1045158         | 2600                       | 56.80                 | .50              | 1.00 | 1.75 | .38  | 3.00 | 6.00  | 7.88  | 1.00 | .91  |  |
| 5/8 x 4                       | 1045176         | 5200                       | 68.60                 | .62              | 1.25 | 2.25 | .50  | 2.00 | 4.00  | 6.44  | 1.31 | 1.12 |  |
| 5/8 x 6                       | 1045194         | 5200                       | 102.40                | .62              | 1.25 | 2.25 | .50  | 3.00 | 6.00  | 8.44  | 1.31 | 1.12 |  |
| 3/4 x 4-1/2                   | 1045210         | 7200                       | 144.50                | .75              | 1.50 | 2.75 | .62  | 2.00 | 4.50  | 7.44  | 1.56 | 1.38 |  |
| 3/4 x 6                       | 1045238         | 7200                       | 167.50                | .75              | 1.50 | 2.75 | .62  | 3.00 | 6.00  | 8.94  | 1.56 | 1.38 |  |
| 7/8 x 5                       | 1045256         | 10600                      | 225.00                | .88              | 1.75 | 3.25 | .75  | 2.50 | 5.00  | 8.46  | 1.84 | 1.56 |  |
| 1 x 6                         | 1045292         | 13300                      | 366.30                | 1.00             | 2.00 | 3.75 | .88  | 3.00 | 6.00  | 9.97  | 2.09 | 1.81 |  |
| 1 x 9                         | 1045318         | 13300                      | 422.50                | 1.00             | 2.00 | 3.75 | .88  | 4.00 | 9.00  | 12.97 | 2.09 | 1.81 |  |
| 1-1/4 x 8                     | 1045336         | 21000                      | 650.00                | 1.25             | 2.50 | 4.50 | 1.00 | 4.00 | 8.00  | 12.72 | 2.47 | 2.28 |  |
| 1-1/4 x 12                    | 1045354         | 21000                      | 795.00                | 1.25             | 2.50 | 4.50 | 1.00 | 4.00 | 12.00 | 16.72 | 2.47 | 2.28 |  |
| 1-1/2 x 15                    | 1045372         | 24000                      | 1425.00               | 1.50             | 3.00 | 5.50 | 1.25 | 6.00 | 15.00 | 20.75 | 3.00 | 2.75 |  |



## S-279 UNC SHOULDER TYPE MACHINERY EYE BOLTS

- Forged Steel - Quenched & Tempered.
- Working Load Limits shown are for in-line pull. For angle loading, see page 200.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Recommended for in-line pull.
- S-279 threaded UNC.
- M-279 metric threaded.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these bolts meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



| Size (in.)    | S-279 Stock No. | Working Load Limit (lbs.)* | Weight Per 100 (lbs.) | Dimensions (in.) |      |      |      |       |      |      |      |
|---------------|-----------------|----------------------------|-----------------------|------------------|------|------|------|-------|------|------|------|
|               |                 |                            |                       | A** Thread       | B    | C    | D    | E     | F    | G    | H    |
| 1/4 x 1       | 9900182         | 650                        | 5.00                  | 1/4 - 20         | 1.02 | 1.13 | .75  | 2.29  | .19  | .53  | .77  |
| 5/16 x 1-1/8  | 9900191         | 1200                       | 9.00                  | 5/16 - 18        | 1.15 | 1.38 | .88  | 2.74  | .25  | .59  | .95  |
| 3/8 x 1-1/4   | 9900208         | 1550                       | 15.00                 | 3/8 - 16         | 1.27 | 1.62 | 1.00 | 3.07  | .31  | .69  | 1.05 |
| 1/2 x 1-1/2   | 9900217         | 2600                       | 28.00                 | 1/2 - 13         | 1.53 | 1.95 | 1.19 | 3.70  | .38  | .91  | 1.27 |
| 5/8 x 1-3/4   | 9900226         | 5200                       | 55.00                 | 5/8 - 11         | 1.79 | 2.38 | 1.38 | 4.45  | .50  | 1.13 | 1.53 |
| 3/4 x 2       | 9900235         | 7200                       | 96.00                 | 3/4 - 10         | 2.05 | 2.76 | 1.50 | 5.07  | .63  | 1.38 | 1.71 |
| 7/8 x 2-1/4   | 9900244         | 10600                      | 154.00                | 7/8 - 9          | 2.31 | 3.25 | 1.75 | 5.87  | .75  | 1.56 | 2.00 |
| 1 x 2-1/2     | 9900253         | 13300                      | 238.00                | 1 - 8            | 2.57 | 3.76 | 2.00 | 6.66  | .88  | 1.81 | 2.30 |
| 1-1/8 x 2-3/4 | 9900257         | 15000                      | 320.00                | 1-1/8 - 7        | 2.75 | 4.19 | 2.25 | 7.20  | .97  | 2.06 | 2.35 |
| 1-1/4 x 3     | 9900262         | 21000                      | 399.00                | 1-1/4 - 7        | 3.09 | 4.50 | 2.50 | 7.95  | 1.00 | 2.28 | 2.73 |
| 1-1/2 x 3-1/2 | 9900271         | 24000                      | 720.00                | 1-1/2 - 6        | 3.60 | 5.50 | 3.00 | 9.49  | 1.25 | 2.75 | 3.28 |
| 1-3/4 x 3-3/4 | 9900280         | 34000                      | 1040.00               | 1-3/4 - 5        | 3.75 | 6.26 | 3.50 | 10.48 | 1.38 | 3.00 | 3.60 |
| 2 x 4         | 9900289         | 42000                      | 1880.00               | 2 - 4 1/2        | 4.00 | 7.62 | 4.00 | 12.31 | 1.81 | 3.38 | 4.50 |
| 2-1/2 x 5     | 9900298         | 65000                      | 3250.00               | 2-1/2 - 4        | 5.00 | 8.76 | 4.50 | 14.88 | 2.12 | 4.25 | 5.50 |

## MALLEABLE CLIPS

This design of wire rope clip is available to handle wire rope or strand sizes ranging from 1/16" - 1-1/8". Malleable wire rope clips are used in light duty & general purpose applications while drop forged wire rope clips are recommended for overhead lifting applications. Each malleable wire rope clip is zinc plated according to federal specification FF-C-450 D, TYPE 1, CLASS 2.



| Stock Number | Size in Inches | Minimum Clips Required | Torque in Pounds | Turnback length in Inches |
|--------------|----------------|------------------------|------------------|---------------------------|
| 400-2240     | 1/16           | 3                      | 2                | 3                         |
| 400-2250     | 1/8            | 3                      | 3                | 4 3/4                     |
| 400-2260     | 3/16           | 3                      | 4.5              | 5 1/2                     |
| 400-2270     | 1/4            | 3                      | 15               | 7                         |
| 400-2280     | 5/16           | 3                      | 15               | 7 3/4                     |
| 400-2290     | 3/8            | 3                      | 30               | 9 1/2                     |
| 400-2300     | 7/16           | 4                      | 40               | 10 1/4                    |
| 400-2310     | 1/2            | 4                      | 45               | 15 1/4                    |
| 400-2320     | 9/16           | 4                      | 50               | 16                        |
| 400-2330     | 5/8            | 4                      | 75               | 16                        |
| 400-2340     | 3/4            | 5                      | 75               | 22 1/4                    |
| 400-2350     | 7/8            | 5                      | 130              | 23 1/2                    |
| 400-2360     | 1              | 6                      | 130              | 31                        |
| 400-2370     | 1 1/8          | 7                      | 200              | 39 1/2                    |

## HEAVY DUTY THIMBLES

- Available in sizes from 1/4" - 1 1/8"
- Hot dipped galvanized
- meet the requirements of Federal Specification FF-276b, Type III.



| Stock Number | Size in Inches |
|--------------|----------------|
| 400-310      | 1/4            |
| 400-320      | 5/16           |
| 400-330      | 3/8            |
| 400-340      | 7/16           |
| 400-350      | 1/2            |
| 400-370      | 5/8            |
| 400-380      | 3/4            |
| 400-390      | 7/8            |
| 400-400      | 1              |
| 400-410      | 1 1/8          |

## OVAL SLEEVES

- Grade 100
- Forged Alloy Steel
- Individually Proof Tested



### Aluminum Oval Sleeves

| Stock Number | Rope Diameter in Inches |
|--------------|-------------------------|
| 350-20       | 1/16                    |
| 350-30       | 3/32                    |
| 350-40       | 1/8                     |
| 350-50       | 5/32                    |
| 350-60       | 3/16                    |

### Copper Oval Sleeves

| Stock Number | Rope Diameter in Inches |
|--------------|-------------------------|
| 350-100      | 1/16                    |
| 350-110      | 3/32                    |
| 350-120      | 1/8                     |
| 350-125      | 5/32                    |
| 350-130      | 3/16                    |

## CABLE CUTTER

- Plastic coated handles afford a firm, comfortable grip
- Length of cutting blades will allow user to "capture" cable or wire in cutting motion
- Softer spring allows easy closure of the tool, vastly reducing repetitive motion stress
- Length: 7.5 in./ 190mm
- Weight: 9.05 oz / 270g



| Stock Number | Maximum Cable Size Designed to Cut |
|--------------|------------------------------------|
| 350-140      | 3/16"                              |

## HAND SWAGERS

- For copper and aluminium sleeves only
- Heavy duty metal construction
- Smooth rubber hand grips for comfort in use



| Stock Number | Cable Size Designed to Swage |
|--------------|------------------------------|
| 350-170      | 3/64"                        |
| 350-180      | 1/16"                        |
| 350-210      | 1/16"-3/16"                  |



## GALVANIZED TURNBUCKLES

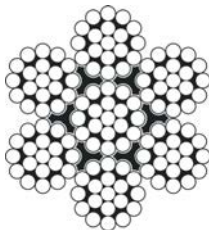
Hot Dip Galvanized & Drop Forged



| Size<br>(Diameter x Take up)<br>in Inches | Approximate Weight each in Pounds |                      |           | Working Load Limit in Pounds |                                     | Average Overall Length with Ends<br>in Closed Position |
|-------------------------------------------|-----------------------------------|----------------------|-----------|------------------------------|-------------------------------------|--------------------------------------------------------|
|                                           | Approx. Weight<br>Each in Pounds  | Eyes and/or<br>Hooks | Jaw & Eye | Hook & Hook<br>Hook & Eye    | Eye & Eye<br>Jaw & Eye<br>Jaw & Jaw |                                                        |
| 1/4 x 4                                   | .3                                | .3                   | .4        | 400                          | 500                                 | 8.25                                                   |
| 5/16 x 4 1/2                              | .5                                | .53                  | .58       | 700                          | 800                                 | 9.56                                                   |
| 3/8 x 6                                   | .75                               | .82                  | .93       | 1,000                        | 1,200                               | 11.88                                                  |
| 1/2 x 6                                   | 1.50                              | 1.62                 | 1.68      | 1,500                        | 2,200                               | 13.31                                                  |
| 1/2 x 9                                   | 1.75                              | 1.82                 | 1.85      | 1,500                        | 2,200                               | 16.31                                                  |
| 1/2 x 12                                  | 2.18                              | 2.19                 | 2.20      | 1,500                        | 2,200                               | 19.31                                                  |
| 5/8 x 6                                   | 2.63                              | 2.69                 | 2.82      | 2,250                        | 3,500                               | 15.50                                                  |
| 5/8 x 9                                   | 3.00                              | 3.01                 | 3.25      | 2,250                        | 3,500                               | 18.50                                                  |
| 5/8 x 12                                  | 3.25                              | 3.50                 | 3.75      | 2,250                        | 3,500                               | 21.50                                                  |
| 3/4 x 6                                   | 3.75                              | 4.25                 | 4.68      | 3,000                        | 5,200                               | 17.00                                                  |
| 3/4 x 9                                   | 4.50                              | 5.00                 | 5.38      | 3,000                        | 5,200                               | 20.00                                                  |
| 3/4 x 12                                  | 5.75                              | 5.75                 | 6.12      | 3,000                        | 5,200                               | 23.00                                                  |
| 3/4 x 18                                  | 7.00                              | 7.25                 | 7.75      | 3,000                        | 5,200                               | 29.00                                                  |
| 7/8 x 12                                  | 8.38                              | 8.88                 | 9.38      | 4,000                        | 7,200                               | 24.63                                                  |
| 7/8 x 18                                  | 10.25                             | 10.60                | 11.44     | 4,000                        | 7,200                               | 30.63                                                  |
| 1 x 6                                     | 10.75                             | 11.10                | 11.80     | 5,000                        | 10,000                              | 20.63                                                  |
| 1 x 12                                    | 11.25                             | 12                   | 12.88     | 5,000                        | 10,000                              | 26.63                                                  |
| 1 x 18                                    | 14                                | 14.75                | 16.1      | 5,000                        | 10,000                              | 32.63                                                  |
| 1 x 24                                    | 17                                | 17.75                | 18.6      | 5,000                        | 10,000                              | 39.63                                                  |
| 1 1/4 x 12                                | 19                                | 21.2                 | 23.6      | 5,000                        | 15,200                              | 29.88                                                  |
| 1 1/4 x 18                                | 24.1                              | 26.0                 | 26.6      | 5,000                        | 15,200                              | 35.88                                                  |
| 1 1/4 x 24                                | 25                                | 28.7                 | 31.2      | 5,000                        | 15,200                              | 41.88                                                  |
| 1 1/2 x 12                                | 27                                | 31.1                 | 35.5      | 7,500                        | 21,400                              | 32.88                                                  |
| 1 1/2 x 18                                | 31.2                              | 36.4                 | 40.7      | 7,500                        | 21,400                              | 38.88                                                  |
| 1 1/2 x 24                                | 38.2                              | 44.2                 | 47.63     | 7,500                        | 21,400                              | 44.38                                                  |
| 1 3/4 x 18                                | 53                                | 57.5                 | 62        | --                           | 28,000                              | 41.38                                                  |
| 1 3/4 x 24                                | 58                                | 60                   | 64        | --                           | 28,000                              | 47.75                                                  |
| 2 x 24                                    | 90                                | 102                  | 115       | --                           | 37,000                              | 51.75                                                  |
| 2 1/2 x 24                                | 163                               | 180                  | 200       | --                           | 60,000                              | 58.50                                                  |
| 2 3/4 x 24                                | 180                               | 214                  | 248       | --                           | 75,000                              | 61.50                                                  |

STAINLESS STEEL AIRCRAFT CABLE  
TYPE 304

This cable features a 7x19 construction and is available in diameters ranging from 3/32" to 3/8". Custom spools are offered, as well as, bulk spools of 5,000 feet. The wire rope is made from grade 304 stainless steel for optimal corrosion resistance and durability.



This cable features a 7x7 construction and is available in diameters ranging from 1/16" to 1/4". Custom spools are offered, as well as, bulk spools of 5,000 feet. The wire rope is made from grade 304 stainless steel for optimal corrosion resistance and durability.



7x19 Construction

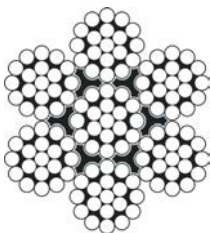
| Stock No. | Rope Diameter in Inches | Approximate Weight Per 1000 Foot in Pounds | Nominal Breaking Strength in Pounds |
|-----------|-------------------------|--------------------------------------------|-------------------------------------|
| 300-200   | 3/32                    | 17.4                                       | 920                                 |
| 300-210   | 1/8                     | 29                                         | 1,760                               |
| 300-220   | 5/32                    | 45                                         | 2,400                               |
| 300-230   | 3/16                    | 65                                         | 3,700                               |
| 300-240   | 1/4                     | 110                                        | 6,400                               |
| 300-250   | 5/16                    | 173                                        | 9,000                               |
| 300-260   | 3/8                     | 243                                        | 12,000                              |

7x7 Construction

| Stock No. | Rope Diameter in Inches | Approximate Weight Per 1000 Foot in Pounds | Nominal Breaking Strength in Pounds |
|-----------|-------------------------|--------------------------------------------|-------------------------------------|
| 300-170   | 1/16                    | 7.5                                        | 480                                 |
| 300-180   | 3/32                    | 16                                         | 920                                 |
| 300-190   | 1/8                     | 28.5                                       | 1,700                               |
| -         | 5/32                    | 43                                         | 2,400                               |
| -         | 3/16                    | 62                                         | 3,700                               |
| -         | 1/4                     | 106                                        | 6,400                               |

STAINLESS STEEL AIRCRAFT CABLE  
TYPE 316

This cable features a 7x19 construction and is available in diameters ranging from 1/8" to 3/8". Custom spools are offered, as well as, bulk spools of 5,000 feet. The wire rope is made from grade 316 stainless steel for maximum corrosion resistance and durability.



This cable features a 7x7 construction and is available in diameters ranging from 1/16" to 1/4". Custom spools are offered, as well as, bulk spools of 5,000 feet. The wire rope is made from grade 316 stainless steel for maximum corrosion resistance and durability.



7x19 Construction

| Stock Number | Rope Diameter in Inches | Approximate Weight Per 1000 Foot in Pounds | Nominal Breaking Strength in Pounds |
|--------------|-------------------------|--------------------------------------------|-------------------------------------|
| 300-215      | 1/8                     | 29                                         | 1,300                               |
| 300-235      | 3/16                    | 65                                         | 2,900                               |
| 300-245      | 1/4                     | 110                                        | 4,900                               |
| 300-255      | 5/16                    | 173                                        | 7,600                               |
| 300-265      | 3/8                     | 243                                        | 11,000                              |

7x7 Construction

| Stock Number | Rope Diameter in Inches | Approximate Weight Per 100 Foot in Pounds | Nominal Breaking Strength in Pounds |
|--------------|-------------------------|-------------------------------------------|-------------------------------------|
| 300-175      | 1/16                    | 1.00                                      | 360                                 |
| 300-185      | 3/32                    | 2.00                                      | 700                                 |
| 300-195      | 1/8                     | 3.00                                      | 1,360                               |
| -            | 5/32                    | 4.00                                      | 2,200                               |
| -            | 3/16                    | 6.00                                      | 3,100                               |
| -            | 1/4                     | 11.00                                     | 5,200                               |

## STAINLESS STEEL THIMBLES

Available in sizes ranging from 1/8" to 5/8" to ensure a perfect fit for every project. This thimble is made from grade 316 stainless steel for maximum corrosion resistance and durability. It is ideal for marine and industrial rigging and wire rope applications.



| Stock Number | Wire Rope Diameter in Inches |
|--------------|------------------------------|
| 400-440      | 1/8                          |
| 400-450      | 3/16                         |
| 440-460      | 1/4                          |
| 400-470      | 5/16                         |
| 400-480      | 3/8                          |
| 400-490      | 1/2                          |
| 400-500      | 5/8                          |

## 316 STAINLESS STEEL CHAIN

The most commonly used chain for marine applications. This chain complies fully with all requirements of the US National Association of Chain Manufacturers' specifications.



| Chain Size (in.) | Working Load Limit (lbs.) | Weight (lbs./ft.) |
|------------------|---------------------------|-------------------|
| 5/32             | 500                       | 0.20              |
| 3/16             | 1,200                     | 0.30              |
| 1/4              | 1,570                     | 0.57              |
| 5/16             | 2,400                     | 0.98              |
| 3/8              | 3,550                     | 1.50              |
| 1/2              | 5,400                     | 2.00              |
| 5/8              | 11,000                    | 3.31              |
| 3/4              | 15,000                    | 5.00              |

## STAINLESS STEEL SCREW PIN ANCHOR SHACKLES

This anchor shackle is made from grade 316 NM stainless steel and features an oversize screw pin. Stainless steel anchor shackles are ideal for salt water applications. The anchor shackle is primarily used to connect the anchor to the chain.



| Stock Number | Rope Diameter in Inches | Work Load Limit in Pounds |
|--------------|-------------------------|---------------------------|
| 600-1980     | 1/4                     | 1,000                     |
| 600-2080     | 5/16                    | 1,500                     |
| 600-2180     | 3/8                     | 2,000                     |
| 600-2380     | 1/2                     | 4,000                     |
| 600-2470     | 5/8                     | 6,000                     |

## STAINLESS STEEL TURNBUCKLES

Made from grade 316 stainless steel for maximum corrosion resistance and durability. They are ideal for marine and industrial applications.



| Eye & Eye Stock Number | Jaw & Jaw Stock Number | Turnbuckle Size | Work Load Limit in Pounds |
|------------------------|------------------------|-----------------|---------------------------|
| 600-27245              | 600-28020              | 3/8" x 6"       | 1,200                     |
| 600-27295              | 600-28070              | 1/2" x 6"       | 2,200                     |
| 600-27420              | 600-28170              | 5/8" x 6"       | 3,500                     |
| 600-27495              | 600-28270              | 3/4" x 6"       | 5,200                     |

## STAINLESS STEEL CLIPS

| Stock Number | Size in Inches | Minimum Clips Required | Turnback length in Inches |
|--------------|----------------|------------------------|---------------------------|
| 400-2110     | 1/6            | 2                      | 2 1/2                     |
| 400-2120     | 1/8            | 2                      | 3 1/4                     |
| 400-2130     | 3/16           | 3                      | 3 3/4                     |
| 440-2140     | 1/4            | 3                      | 4 3/4                     |
| 400-2160     | 5/16           | 3                      | 5 1/4                     |
| 400-2170     | 3/8            | 3                      | 6 1/2                     |
| 400-2180     | 1/2            | 3                      | 11 1/2                    |
| call         | 5/8            | 3                      | 12                        |
| call         | 3/4            | 4                      | 18                        |
| call         | 7/8            | 4                      | 19                        |
| call         | 1              | 5                      | 26                        |



This wire clip is precision cast and made from grade 316 stainless steel for maximum corrosion resistance and durability. It is ideal for marine and industrial rigging applications.

## GRADE 100 ALLOY CHAIN

- Alloy Steel.
- Heat Treated.
- 25% stronger than Grade 80 Alloy Chain.
- Permanently embossed with CG (Crosby Group) and 10 (Grade).
- Finish - Black rust preventative coating.
- Proof Tested at 2 times the Working Load Limit with certification.



| Stock Number | Chain Size (in.) | Working Load Limit (lbs.) | Approximate Weight Per 100 Ft. (lbs.) |
|--------------|------------------|---------------------------|---------------------------------------|
| 1600-2110    | 9/32 (1/4)       | 4,300                     | 75                                    |
| 1600-2210    | 3/8              | 8,800                     | 148                                   |
| 1600-2310    | 1/2              | 15,000                    | 249                                   |
| 1600-2410    | 5/8              | 22,600                    | 378                                   |
| 1600-2510    | 3/4              | 35,300                    | 590                                   |

## A-342 MASTER LINK

- Alloy Steel — Quenched and Tempered.
- Individually Proof Tested to values shown, with certification.
- Proof Tested with special fixtures sized to prevent localized point loading.



| Stock Number | Crosby Part Number | Size (in.) | Working Load Limit in Pounds | Weight Each (lbs.) |
|--------------|--------------------|------------|------------------------------|--------------------|
| 600-20       | 1014266            | 1/2        | 7,400                        | 1.3                |
| 600-110      | 1014280            | 5/8        | 9,000                        | 1.5                |
| 600-210      | 1014285            | 3/4        | 12,300                       | 2.0                |
| 600-275      | 3522213            | 7/8        | 15,200                       | 3.3                |
| 600-315      | 3522214            | 1          | 26,000                       | 6.1                |
| 600-415      | 3522215            | 1 1/4      | 39,100                       | 12.0               |
| 600-515      | 3522216            | 1 1/2      | 61,100                       | 18.6               |
| 600-610      | 3522217            | 1 3/4      | 84,900                       | 25.2               |
| 600-710      | 3522218            | 2          | 102,600                      | 37.0               |

## LOK-A-LOY 10 ALLOY CONNECTING LINKS

- Suitable for use with both Grade 80 and Grade 100 chain.
- Individually Proof Tested at 2-1/2 times Working Load Limit with certification.
- Locking system that provides for simple assembly and disassembly - no special tools needed.
- Meets ASTM A-952-02 standards for Grade 100 chain fittings.
- Forged Alloy Steel - Quenched and Tempered.



| Stock Number | Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|--------------------|----------------|---------------------------|--------------------|
| 1700-1445    | 1015104            | 9/32 (1/4)     | 4,300                     | .26                |
| 1700-1458    | 1015122            | 3/8            | 8,800                     | .75                |
| 1700-1465    | 1015136            | 1/2            | 15,000                    | 1.60               |
| 1700-1482    | 1015145            | 5/8            | 22,600                    | 2.68               |
| 1700-1490    | 1015154            | 3/4            | 35,300                    | 5.00               |

## A-1358 CLEVIS GRAB HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.



| Stock Number | Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|--------------------|----------------|---------------------------|--------------------|
| 1700-962     | 1049610            | 9/32 (1/4)     | 4,300                     | 1.00               |
| 1700-972     | 1049629            | 3/8            | 8,800                     | 1.80               |
| 1700-1002    | 1049647            | 1/2            | 15,000                    | 3.92               |
| 1700-1023    | 1049656            | 5/8            | 22,600                    | 7.00               |

## A-1338 CLEVIS CRADLE GRAB HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification
- The use of A-1338 Cradle Grab Hook will allow 100 percent of the chain sling capacity. When used to hook back to chain leg to form a choker, the angle of the choke must be 120 degrees or greater. When used as a chain shortener, minimize twist of chain and ensure chain is fully engaged in hook.



| Stock Number | Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|--------------------|----------------|---------------------------|--------------------|
| 1700-965     | 1049417            | 9/32 (1/4)     | 4,300                     | .45                |
| -            | 1049426            | 5/16           | 5700                      | .99                |
| 1700-974     | 1049435            | 3/8            | 8,800                     | 1.80               |
| 1700-1004    | 1049444            | 1/2            | 15,000                    | 3.92               |
| 1700-1025    | 1049453            | 5/8            | 22,600                    | 7.00               |

## A-1328 EYE GRAB HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.



| Stock Number | Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|--------------------|----------------|---------------------------|--------------------|
| 1700-905     | 1026169            | 1/4 - 5/16     | 5,700                     | 0.98               |
| 1700-915     | 1026187            | 3/8            | 8,800                     | 1.60               |
| 1700-925     | 1026196            | 1/2            | 15,000                    | 3.30               |
| 1700-935     | 1026205            | 5/8            | 22,600                    | 6.00               |
| 1700-945     | 1026214            | 3/4            | 35,300                    | 10.00              |

### A-1339 CLEVIS SLING HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby & U.S.A. in raised letters.
- Low profile hook tip.
- New integrated latch (S-4320/S-4339) meets the world standard for lifting.



| Stock Number | Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|--------------------|----------------|---------------------------|--------------------|
| 1700-1140    | 1049112            | 9/32 (1/4)     | 4,300                     | 1.58               |
| 1700-1182    | 1049130            | 3/8            | 8,800                     | 2.58               |
| 1700-1252    | 1049149            | 1/2            | 15,000                    | 5.28               |
| 1700-1285    | 1049158            | 5/8            | 22,600                    | 9.81               |
| 1700-1300    | 1049167            | 3/4            | 35,300                    | 18.3               |

### S-1327 EYE SLING HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby & U.S.A. in raised letters.
- Low profile hook tip.
- New integrated latch (S-4320/S-4339) meets the world standard for lifting.



| Stock Number | Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|--------------------|----------------|---------------------------|--------------------|
| 1700-1090    | 1025869            | 1/4 (5/16)     | 5,700                     | 1.3                |
| 1700-1100    | 1025878            | 3/8            | 8,800                     | 2.3                |
| 1700-1110    | 1025887            | 1/2            | 15,000                    | 4.5                |
| 1700-1120    | 1025896            | 5/8            | 22,600                    | 8.4                |
| 1700-1130    | 1025915            | 3/4            | 35,300                    | 15.0               |

### A-1359 CLEVIS FOUNDRY HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Hook can be tip loaded at the reduced Working Load Limit. Operator must ensure the load is retained properly in the hook.



| Stock Number | Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|--------------------|----------------|---------------------------|--------------------|
| 1700-1340    | 1049907            | 9/32 (1/4)     | 4,300                     | 2.10               |
| 1700-1350    | 1049916            | 3/8            | 8,800                     | 4.29               |
| 1700-1360    | 1049925            | 1/2            | 15,000                    | 7.93               |
| 1700-1365    | 1049934            | 5/8            | 22,600                    | 14.2               |
| -            | 1049943            | 3/4            | 35,300                    | 24.7               |

### A-1329 EYE FOUNDRY HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Hook can be tip loaded at the reduced Working Load Limit. Operator must ensure the load is retained properly in the hook.



| Stock Number | Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|--------------------|----------------|---------------------------|--------------------|
| 1700-1370    | 1026280            | 9/32 (1/4)     | 4,300                     | 2.40               |
| 1700-1380    | 1026289            | 3/8            | 8,800                     | 4.50               |
| 1700-1390    | 1026297            | 1/2            | 15,000                    | 7.10               |
| 1700-1400    | 1026306            | 5/8            | 22,600                    | 12.20              |
| 1700-1405    | 1026315            | 3/4            | 35,300                    | 19.30              |

### S-1325A GRADE 100 CHAIN COUPLER

- Designed to connect Grade 100 chain fittings produced with "Engineered Flat" to Grade 100 chain.
- Forged Alloy Steel - Quenched and Tempered.
- Suitable for use with Grade 100 and Grade 80 chain.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification.
- Locking system that provides for simple assembly and disassembly – no special tools required.



| Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------------|----------------|---------------------------|--------------------|
| 1098500            | 9/32 (1/4)     | 4,300                     | .26                |
| 1098508            | 3/8            | 8,800                     | .75                |
| 1098512            | 1/2            | 15,000                    | 1.60               |
| 1098516            | 5/8            | 22,600                    | 2.68               |

### A-1355 CHAIN CHOKER HOOK

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested with certification.
- Rated for Grade 100 chain in choker applications.
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby & U.S.A. in raised letters.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- For use with S-1325 Chain Coupler Link.



| Crosby Part Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------------|----------------|---------------------------|--------------------|
| 1015204            | 1/4            | 5,700                     | .77                |
| 1015213            | 3/8            | 8,800                     | 1.65               |
| 1015222            | 1/2            | 15,000                    | 3.14               |
| 1015231            | 5/8            | 22,600                    | 6.97               |

## GRABIQ GRADE 100 ALLOY CHAIN

- Each link calibrated & pull tested to 2 ½ times working load limit
- Minimum elongation of 20%
- Fully hardened & tempered alloy steel
- Distinctive blue powder coat finish
- Links embossed with grade and traceability code



| Model     | Chain Size (in.) | Working Load Limit (lbs.) | Approximate Weight Per 100 Ft. (lbs.) |
|-----------|------------------|---------------------------|---------------------------------------|
| KLA-8-10  | 5/16             | 5,700                     | 97                                    |
| KLA-10-10 | 3/8              | 8,800                     | 151                                   |
| KLA-13-10 | 1/2              | 15,000                    | 253                                   |
| KLA-16-10 | 5/8              | 22,600                    | 394                                   |

## MF OBLONG MASTER LINK

- Wide master link to fit most standard hooks.
- Engineered flat to help match with correct connecting link
- Product identification code for full traceability
- Proof tested to 2 ½ times working load limit



| Model      | Trade Size (in.) | Working Load Limit (lbs.) |              |                | Weight Each (lbs.) |
|------------|------------------|---------------------------|--------------|----------------|--------------------|
|            |                  | 1 Leg Slings              | 2 Leg Slings | 3/4 Leg Slings |                    |
| MF-86-10   | 1/2"             | 5,700                     | -            | -              | 0.9                |
| MF-108-10  | 5/8"             | 8,800                     | 9,900        | -              | 1.8                |
| MF-1310-10 | 7/8"             | 15,000                    | 15,200       | 14,800         | 3.3                |
| MF-1613-10 | 1"               | 22,600                    | 26,000       | 22,900         | 4.8                |
| MF-2016-10 | 1 3/8"           | -                         | 39,100       | 39,000         | 11.5               |
| MF-2220-10 | 1 1/2"           | -                         | -            | 58,700         | 16.1               |

## MFH OBLONG MASTER LINK

- The MFH GrabiQ Master Link is oversized for large crane hooks. It is used to fabricate 1-Leg and 2-Leg chain slings using C-Connectors.
- Oversized master link to fit most large crane hooks.
- Engineered flat to help match with correct connecting link
- Product identification code for full traceability
- Proof tested to 2 ½ times working load limit



| Model       | Trade Size (in.) | Working Load Limit (lbs.) |              | Weight Each (lbs.) |
|-------------|------------------|---------------------------|--------------|--------------------|
|             |                  | 1 Leg Slings              | 2 Leg Slings |                    |
| MFH-108-10  | 1                | 5,700                     | -            | 8.2                |
| MFH-108-10  | 1                | 8,800                     | 9,900        | 8.2                |
| MFH-1310-10 | 1 1/8            | 15,000                    | 15,200       | 10.4               |
| MFH-1613-10 | 1 3/8            | 22,600                    | 26,000       | 15.6               |
| MFH-2016-10 | 1 1/2            | -                         | 39,100       | 18.7               |

## MFH OBLONG MASTER LINK

- Designed for use with CL, CLD, CG and CGD. 3- and 4-leg chain slings require CLD / CGD.
- Grade 100
- Forged Alloy Steel
- Individually Proof Tested



| Model       | Trade Size (in.) | Working Load Limit (lbs.) |              |                | Weight Each (lbs.) |
|-------------|------------------|---------------------------|--------------|----------------|--------------------|
|             |                  | 1 Leg Slings              | 2 Leg Slings | 3/4 Leg Slings |                    |
| MFH-1310-10 | 7/8              | 5,700                     | -            | -              | 4.2                |
| MFH-1310-10 | 7/8              | 8,800                     | 9,900        | -              | 4.2                |
| MFH-1310-10 | 7/8              | 15,000                    | 15,200       | 14,800         | 4.2                |
| MFH-1613-10 | 1                | 22,600                    | 26,000       | 22,900         | 7.1                |
| MFH-2016-10 | 1 1/4            | -                         | 39,100       | 39,000         | 10.1               |
| MFH-2220-10 | 1 1/2            | -                         | -            | 58,700         | 19.0               |

## MASTER GRAB TYPE MG

- Fully self-contained top assembly for 1-leg, adjustable sling
- Integrated cradle chain pocket for shortening leg
- Product Information Code for full traceability
- Forged model number includes fitting size and grade
- Proof tested to 2 ½ times Working Load Limit



| Model    | Chain Size (in.) | Working Load Limit (lbs.) | Weight Each (lbs.) |
|----------|------------------|---------------------------|--------------------|
| MG-8-10  | 5/16             | 5,700                     | 2.0                |
| MG-10-10 | 3/8              | 8,800                     | 4.0                |
| MG-13-10 | 1/2              | 15,000                    | 7.7                |
| MG-16-10 | 5/8              | 22,600                    | 13.4               |

## MASTER GRAB TYPE MGD

- Fully self-contained top assembly for 2-leg, adjustable sling
- Integrated cradle chain pocket for shortening leg
- Product Information Code for full traceability
- Forged model number includes fitting size and grade
- Proof tested to 2 ½ times Working Load Limit
- Chain shortening pockets are 100% efficient



| Model     | Chain Size (in.) | Working Load Limit (lbs.) | Weight Each (lbs.) |
|-----------|------------------|---------------------------|--------------------|
| MGD-8-10  | 5/16             | 9,900                     | 2.9                |
| MGD-10-10 | 3/8              | 15,200                    | 5.1                |
| MGD-13-10 | 1/2              | 26,000                    | 11.5               |
| MGD-16-10 | 5/8              | 39,100                    | 17.4               |



**C-GRAB TYPE CG**

- Includes integrated chain pocket for shortening
- Chain is cradled so working load limit is not reduced when shortening chain leg
- Product identification code for full traceability
- Proof tested to 2 ½ times working load limit



| Model    | Chain Size (in.) | Working Load Limit (lbs.) | Weight Each (lbs.) |
|----------|------------------|---------------------------|--------------------|
| CG-8-10  | 5/16             | 5,700                     | 1.5                |
| CG-10-10 | 3/8              | 8,800                     | 3.3                |
| CG-13-10 | 1/2              | 15,000                    | 7.1                |
| CG-16-10 | 5/8              | 22,600                    | 13.4               |

**C-GRAB TYPE CGD**

- Includes integrated chain pocket to adjust each leg
- Chain is cradled so working load limit is not reduced when shortening chain leg
- Product identification code for full traceability
- Proof tested to 2 ½ times working load limit



| Model     | Chain Size (in.) | Working Load Limit (lbs.) | Weight Each (lbs.) |
|-----------|------------------|---------------------------|--------------------|
| CGD-8-10  | 5/16             | 5,700                     | 2.4                |
| CGD-10-10 | 3/8              | 8,800                     | 4.8                |
| CGD-13-10 | 1/2              | 15,000                    | 11.9               |
| CGD-16-10 | 5/8              | 22,600                    | 20.1               |

**GG GRAB HOOK (CLEVIS CRADLE TYPE)**

- No reduction in Working Load Limit due to supporting cross bar in saddle of hook
- Deep chain pocket
- Full traceability
- Proof tested and certified



| Model    | Chain Size (in.) | Working Load Limit (lbs.) | Weight Each (lbs.) |
|----------|------------------|---------------------------|--------------------|
| GG-8-10  | 5/16             | 5,700                     | 0.88               |
| GG-10-10 | 3/8              | 8,800                     | 2.0                |
| GG-13-10 | 1/2              | 15,000                    | 4.0                |
| GG-16-10 | 5/8              | 22,600                    | 6.8                |

**EGKN SLING HOOK**

- Wide throat opening for easy rigging
- Hood forged in hook protect latch top
- Latch spring is stainless steel
- Heavy duty tip interlocks with hook body
- Replacement latch can be installed in the field
- Full traceability
- Proof tested and certified



| Model      | Chain Size (in.) | Working Load Limit (lbs.) | Weight Each (lbs.) |
|------------|------------------|---------------------------|--------------------|
| EGKN-8-10  | 5/16             | 5,700                     | 1.1                |
| EGKN-10-10 | 3/8              | 8,800                     | 2.2                |
| EGKN-13-10 | 1/2              | 15,000                    | 5.1                |
| EGKN-16-10 | 5/8              | 22,600                    | 8.4                |

**GBK SELF LOCKING HOOK**

- Hook latch & bowl interlock for more stability from inadvertent side impact
- Stainless steel spring release trigger will only operate when hook is unloaded
- Full traceability
- Proof tested to 2 ½ times working load limit



| Model     | Chain Size (in.) | Working Load Limit (lbs.) | Weight Each (lbs.) |
|-----------|------------------|---------------------------|--------------------|
| GBK-8-10  | 5/16             | 5,700                     | 1.8                |
| GBK-10-10 | 3/8              | 8,800                     | 3.1                |
| GBK-13-10 | 1/2              | 15,000                    | 6.0                |
| GBK-16-10 | 5/8              | 22,600                    | 9.7                |

**LKBK SWIVEL HOOK WITH BEARING**

- Ball bearing allows hook to swivel under load
- Hook latch & bowl interlock for more stability from inadvertent side impact
- Bail allows attachment to chain, wire rope, or synthetic slings
- Stainless steel spring release trigger will only operate when hook is unloaded
- Full traceability
- Proof tested to 2 ½ times working load limit



| Model      | Chain Size (in.) | Working Load Limit (lbs.) | Weight Each (lbs.) |
|------------|------------------|---------------------------|--------------------|
| LKBK-8-10  | 5/16             | 5,700                     | 1.8                |
| LKBK-10-10 | 3/8              | 8,800                     | 4.0                |
| LKBK-13-10 | 1/2              | 15,000                    | 8.4                |
| LKBK-16-10 | 5/8              | 22,600                    | 13.2               |

## GRADE 70 TRANSPORT CHAIN

- **Do not use for overhead lifting**
- High-carbon steel, heat treated
- Zinc plated with gold chromate finish
- Thermal heat treated using advanced technology
- Heat treated for superior wear and toughness
- Design factor 4:1



| Stock No. | Chain Size In Inches | Feet for Half of a Drum | Approx. Weight Per 100 Feet (lbs.) | Working Load Limit in Pounds |
|-----------|----------------------|-------------------------|------------------------------------|------------------------------|
| 1600-1710 | 1/4                  | 400                     | 75                                 | 3,150                        |
| 1600-1810 | 5/16                 | 275                     | 111                                | 4,700                        |
| 1600-1910 | 3/8                  | 200                     | 157                                | 6,600                        |
| 1600-2010 | 1/2                  | 100                     | 274                                | 11,300                       |

## GRADE 70 CLEVIS GRAB HOOK

Clevis Hooks are not designed for overhead lifting, but instead are most often used for load securement with tie-down chains. These feature a U-shaped attachment point with a pin to secure chain or other rigging attachments

- **Do not use for overhead lifting**
- Designed specifically for transport Grade 70 chain
- 4:1 design factor
- Yellow chromate finish



| Stock No. | Size in Inches | Work Load Limit in Pounds | Unit Weight in Pounds |
|-----------|----------------|---------------------------|-----------------------|
| 1700-750  | 5/16"          | 4,700                     | .70                   |
| 1700-760  | 3/8"           | 6,600                     | 1.06                  |
| 1700-780  | 1/2"           | 11,300                    | 2.31                  |

## GRADE 70 EYE GRAB HOOK

Standard Eye Hooks are not designed for overhead lifting, but instead are most often used for load securement with tie-down chains. Eye hooks feature a simple circular attachment point for rigging chain or other attachments.

- **Do not use for overhead lifting**
- Designed specifically for transport Grade 70 chain
- 4:1 design factor
- Self-colored finish



| Stock No. | Size in Inches | Work Load Limit in Pounds | Unit Weight in Pounds |
|-----------|----------------|---------------------------|-----------------------|
| 1700-750  | 5/16"          | 4,700                     | .70                   |
| 1700-760  | 3/8"           | 6,600                     | 1.06                  |
| 1700-780  | 1/2"           | 11,300                    | 2.31                  |

## GRADE 70 CLEVIS SLIP HOOK

Clevis Hooks are not designed for overhead lifting, but instead are most often used for load securement with tie-down chains. These feature a U-shaped attachment point with a pin to secure chain or other rigging attachments.

- **Do not use for overhead lifting**
- Designed specifically for transport Grade 70 chain
- 4:1 design factor
- Hook embossed with trace code providing traceability throughout the manufacturing and testing process to heat of steel
- Durable orange powder coated finish



| Stock Number | Size in Inches | Work Load Limit in Pounds | Unit Weight in Pounds |
|--------------|----------------|---------------------------|-----------------------|
| 1700-830     | 5/16"          | 4,700                     | .94                   |
| 1700-840     | 3/8"           | 6,600                     | 1.44                  |
| 1700-860     | 1/2"           | 11,300                    | 2.86                  |
| 1700-870     | 5/8"           | 15,800                    | 3.8                   |

## GRADE 70 CLEVIS SLIP HOOK W/LATCH

Clevis Hooks are not designed for overhead lifting, but instead are most often used for load securement with tie-down chains. These feature a U-shaped attachment point with a pin to secure chain or other rigging attachments.

- **Do not use for overhead lifting**
- Designed specifically for transport Grade 70 chain
- 4:1 design factor
- Galvanized Finish



| Stock No. | Size in Inches | Work Load Limit in Pounds | Unit Weight in Pounds |
|-----------|----------------|---------------------------|-----------------------|
| 1700-835  | 5/16"          | 4,700                     | .95                   |
| 1700-845  | 3/8"           | 6,600                     | 1.46                  |
| 1700-865  | 1/2"           | 11,300                    | 2.88                  |

## GRADE 70 BINDER CHAINS

- Do not use for overhead lifting
- Meets all Department of Transportation requirements and is required in most state by the D.O.T
- Custom lengths available

| Stock Number | Chain Size and Length | Work Load Limit in Pounds | Breaking Strength in Pounds | Unit Weight in Pounds |
|--------------|-----------------------|---------------------------|-----------------------------|-----------------------|
| 1800-275     | 5/16" x 10'           | 4,700                     | 18,800                      | 11                    |
| 1800-300     | 5/16" x 14'           | 4,700                     | 18,800                      | 15                    |
| 1800-310     | 5/16" x 16'           | 4,700                     | 18,800                      | 17                    |
| 1800-410     | 5/16" x 20'           | 4,700                     | 18,800                      | 21                    |
| 1800-510     | 5/16" x 25'           | 4,700                     | 18,800                      | 26                    |
| 1800-560     | 3/8" x 10'            | 6,600                     | 26,400                      | 17                    |
| 1800-600     | 3/8" x 14'            | 6,600                     | 26,400                      | 21                    |
| 1800-610     | 3/8" x 16'            | 6,600                     | 26,400                      | 24                    |
| 1800-710     | 3/8" x 20'            | 6,600                     | 26,400                      | 30                    |
| 1800-810     | 3/8" x 25'            | 6,600                     | 26,400                      | 37                    |



## HEAVY DUTY RATCHET BINDER - PRO-BIND SERIES

This Durabilt Ratchet Load Binder is the professional way to anchor and tie down large loads. Big handles and carbon steel construction for maximum leverage and greater strength. Ratchet makes load tightening faster and easier and permits quicker tightening if load shifts. Great for securing heavy equipment, cargo and more.

| Stock Number | Chain Size Min. to Max           | Work Load Limit in Pounds | Maximum Take Up | Unit Weight in Pounds |
|--------------|----------------------------------|---------------------------|-----------------|-----------------------|
| 1700-1870    | 3/16" to 1/4"                    | 2,600                     | 4"              | 3.5                   |
| 1700-1880    | 5/16" to 3/8"                    | 7,300                     | 8"              | 12.5                  |
| 1700-1910    | 3/8" to 1/2"                     | 12,000                    | 8"              | 12.9                  |
| 1700-1930    | 1/2" to 5/8"                     | 13,000                    | 8"              | 15                    |
| 1700-1935    | 1/2" to 5/8" with 5/8" Slip Hook | 13,000                    | 8"              | 16.3                  |



## LEVER TYPE LOAD BINDERS

- Designed for quick and secure loading
- Forged handle snaps the binders easily in place
- Features a grab hook on each end
- 5" take up for secure chain tensioning
- Meets all CVSA and DOT requirements



| Stock Number | Chain Size Min. to Max | Work Load Limit in Pounds | Maximum Take Up | Unit Weight in Pounds |
|--------------|------------------------|---------------------------|-----------------|-----------------------|
| 1700-1790    | 3/16" to 1/4"          | 2,600                     | 3 3/4"          | 3                     |
| 1700-1800    | 5/16" to 3/8"          | 5,400                     | 4 1/2"          | 8                     |
| 1700-1820    | 3/8" to 1/2"           | 9,200                     | 4 1/2"          | 10                    |

### GRADE 30 SELF COLORED CHAIN

Grade 30 chain, commonly called Proof Coil, is manufactured to meet ASTM & NACM specifications. Typical uses include barrier chains, trailer safety chains, light construction, marine industry, etc. **It should not be used for overhead lifting.**



| Stock Number | Chain Size in Inches | Feet for Half of a Drum | Approximate Weight Per 100 Feet (lbs.) | Working Load Limit in Pounds |
|--------------|----------------------|-------------------------|----------------------------------------|------------------------------|
| 1600-10      | 3/16                 | 500                     | 40                                     | 750                          |
| 1600-310     | 1/4                  | 400                     | 71                                     | 1,250                        |
| 1600-610     | 5/16                 | 275                     | 109                                    | 1,900                        |
| 1600-910     | 3/8                  | 200                     | 159                                    | 2,650                        |

### GRADE 30 ZINC PLATED CHAIN

Grade 30 chain, commonly called Proof Coil, is manufactured to meet ASTM & NACM specifications. Typical uses include barrier chains, trailer safety chains, light construction, marine industry, etc. **It should not be used for overhead lifting.**



| Stock Number | Chain Size in Inches | Feet for Half of a Drum | Approximate Weight Per 100 Feet (lbs.) | Working Load Limit in Pounds |
|--------------|----------------------|-------------------------|----------------------------------------|------------------------------|
| 1600-110     | 3/16                 | 500                     | 40                                     | 750                          |
| 1600-410     | 1/4                  | 400                     | 71                                     | 1,250                        |
| 1600-710     | 5/16                 | 275                     | 109                                    | 1,900                        |
| 1600-1010    | 3/8                  | 200                     | 159                                    | 2,650                        |

### GRADE 30 HOT DIP GALVANIZED CHAIN

Grade 30 chain, commonly called Proof Coil, is manufactured to meet ASTM & NACM specifications. Typical uses include barrier chains, trailer safety chains, light construction, marine industry, etc. **It should not be used for overhead lifting.**



| Stock Number | Chain Size in Inches | Feet for Half of a Drum | Approximate Weight Per 100 Feet (lbs.) | Working Load Limit in Pounds |
|--------------|----------------------|-------------------------|----------------------------------------|------------------------------|
| 1600-210     | 3/16                 | 500                     | 40                                     | 750                          |
| 1600-510     | 1/4                  | 400                     | 71                                     | 1,250                        |
| 1600-810     | 5/16                 | 275                     | 109                                    | 1,900                        |
| 1600-1110    | 3/8                  | 200                     | 159                                    | 2,650                        |

### GRADE 43 HIGH TEST CHAIN

Grade 43 chain, commonly called High Test, is manufactured to meet ASTM and NACM specifications. Typical uses include container securement, logging, towing, and marine industry. Grade 43 chain is available in many finishes and package configurations. **It should not be used for overhead lifting.**



| Stock Number | Chain Size in Inches | Feet for Half of a Drum | Approximate Weight Per 100 Feet (lbs.) | Working Load Limit in Pounds |
|--------------|----------------------|-------------------------|----------------------------------------|------------------------------|
| 1600-1210    | 1/4                  | 400                     | 75                                     | 2,600                        |
| 1600-1310    | 5/16                 | 275                     | 111                                    | 3,900                        |
| 1600-1410    | 3/8                  | 200                     | 157                                    | 5,400                        |
| 1600-1510    | 1/2                  | 100                     | 274                                    | 9,200                        |

## GRADE 43 CLEVIS SLIP HOOK

- Hooks are heat treated and tempered
- Design factor 4:1 when used with Grade 30
- Design factor 3:1 when used with Grade 43
- When using these hooks with Grade 30 chain, the assembly must be rated to the working load limit of the chain.
- Hook embossed with trace code providing traceability through manufacturing and testing process to heat of steel
- Zinc plated finish
- **Not to be used for overhead lifting**



| Stock Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|----------------|---------------------------|--------------------|
| 1700-580     | 1/4            | 2,600                     | 0.35               |
| 1700-600     | 5/16           | 3,900                     | 0.63               |
| 1700-620     | 3/8            | 5,400                     | 1.02               |
| 1700-650     | 1/2            | 9,200                     | 2.27               |
| 1700-665     | 5/8            | 13,000                    | 4.00               |

## GRADE 43 EYE SLIP HOOK

- Hooks are heat treated and tempered
- Design factor 4:1 when used with Grade 30
- Design factor 3:1 when used with Grade 43
- When using these hooks with Grade 30 chain, the assembly must be rated to the working load limit of the chain.
- Hook embossed with trace code providing traceability through manufacturing and testing process to heat of steel
- **Not to be used for overhead lifting**



| Stock Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|----------------|---------------------------|--------------------|
| 1700-510     | 1/4            | 2,600                     | 0.38               |
| 1700-520     | 5/16           | 3,900                     | 0.57               |
| 1700-530     | 3/8            | 5,400                     | 0.83               |
| 1700-550     | 1/2            | 9,200                     | 1.95               |
| 1700-560     | 5/8            | 13,000                    | 3.72               |

## GRADE 43 CLEVIS GRAB HOOK

- Hooks are heat treated and tempered
- Design factor 4:1 when used with Grade 30
- Design factor 3:1 when used with Grade 43
- When using these hooks with Grade 30 chain, the assembly must be rated to the working load limit of the chain.
- Hook embossed with trace code providing traceability through manufacturing and testing process to heat of steel
- **Not to be used for overhead lifting**



| Stock Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|----------------|---------------------------|--------------------|
| 1700-450     | 1/4            | 2,600                     | 0.37               |
| 1700-460     | 5/16           | 3,900                     | 0.63               |
| 1700-470     | 3/8            | 5,400                     | 1.10               |
| 1700-480     | 7/16           | 7,200                     | 1.60               |
| 1700-490     | 1/2            | 9,200                     | 2.42               |
| 1700-500     | 5/8            | 13,000                    | 3.61               |

## GRADE 43 EYE GRAB HOOK

- Hooks are heat treated and tempered
- Design factor 4:1 when used with Grade 30
- Design factor 3:1 when used with Grade 43
- When using these hooks with Grade 30 chain, the assembly must be rated to the working load limit of the chain.
- Hook embossed with trace code providing traceability through manufacturing and testing process to heat of steel
- Zinc plated finish
- **Not to be used for overhead lifting**



| Stock Number | Size in Inches | Working Load Limit (lbs.) | Weight Each (lbs.) |
|--------------|----------------|---------------------------|--------------------|
| 1700-390     | 1/4            | 2,600                     | 0.30               |
| 1700-400     | 5/16           | 3,900                     | 0.56               |
| 1700-410     | 3/8            | 5,400                     | 0.87               |
| 1700-430     | 1/2            | 9,200                     | 2.17               |
| 1700-440     | 5/8            | 13,000                    | 3.89               |

## S-237 DOUBLE CLEVIS LINK

- All pins alloy steel - Quenched and tempered
- Body is forged and heat treated carbon steel
- designed for linking all popular sizes of grade 30 and 40 chain to rings, end links, eye hooks, pad eyes, tractor eye bolts, etc.
- Features quick and easy assembly
- **Not to be used for overhead lifting**



| Stock Number | Crosby Part Number | Size (in.)   | Weight Each (lbs.) |
|--------------|--------------------|--------------|--------------------|
| 1700-10      | 1013021            | 1/4"         | .38                |
| 1700-20      | 1013049            | 5/16" - 3/8" | .81                |
| 1700-30      | 1013067            | 7/16"        | 1.25               |
| 1700-40      | 1013085            | 1/2"         | 1.56               |

## S-249 TWIN CLEVIS LINK

- All pins alloy steel - Quenched and tempered
- Body is forged and heat treated carbon steel
- Twin clevis design provides a variety of uses and can be used with grade 30, grade 40 and grade 70 chain
- Features quick and easy assembly
- **Not to be used for overhead lifting**



| Stock Number | Crosby Part Number | Size (in.)   | Weight Each (lbs.) |
|--------------|--------------------|--------------|--------------------|
| 1700-50      | 1012861            | 1/4" - 5/16" | .31                |
| 1700-60      | 1012889            | 3/8"         | .44                |
| 1700-70      | 1012905            | 7/16" - 1/2" | .98                |





CROSBY IP10

The **IP10** vertical lifting clamp is used for the lifting, turning, moving or vertical transfer of sheet, plates, or fabrications from horizontal to vertical and down to horizontal (180°) as needed. Usually used as a single point pick or when used with a spreader beam with multiple vertical drop lines.

| Crosby Part Number | Work Load Limit in Tons | Jaw Opening in Inches | Unit Weight in Pounds |
|--------------------|-------------------------|-----------------------|-----------------------|
| 2701674            | 1/2                     | 0-5/8                 | 4.0                   |
| 2701662            | 1                       | 0-3/4                 | 4.4                   |
| 2701676            | 2                       | 0-1 3/8               | 15.0                  |
| 2701664            | 3                       | 0-1 5/8               | 30.4                  |



CROSBY IPU10

The **IPU10** vertical lifting clamp is used for the lifting, turning, moving or vertical transfer of sheet, plates, or fabrications from horizontal to vertical and down to horizontal (180°) as needed. The hinged hoisting eye allows for the clamp to place and lift the load from any direction, or with a multiple leg sling without damaging the clamp.

| Part Number | Work Load Limit in Tons | Jaw Opening in Inches | Unit Weight in Pounds |
|-------------|-------------------------|-----------------------|-----------------------|
| 2701675     | 1/2                     | 0-5/8                 | 4.2                   |
| 2701663     | 1                       | 0-3/4                 | 4.6                   |
| 2701667     | 2                       | 0-1 3/8               | 16.8                  |
| 2701665     | 3                       | 0-1 5/8               | 32.6                  |



CROSBY IPH10

**IPH10** clamps are made for the horizontal lifting and transfer of non-sagging material. These clamps should always be used in pairs (a minimum of two clamps per lift), and the Working Load Limits shown below are based on one pair of clamps, not per piece. And with the exception of the two smallest sizes, these clamps feature two great updates: 1) Magnets ensure the clamps remain in the proper position on the plate and 2) A handle and torsion spring that combine to make the placing of the clamp onto the plate quick, easy and safe.

| Part Number | Work Load Limit in Tons | Jaw Opening in Inches | Unit Weight in Pounds |
|-------------|-------------------------|-----------------------|-----------------------|
| 2703297     | 1/2                     | 0-3/4                 | 3.97                  |
| 2703298     | 1                       | 0-1 3/8               | 5.5                   |
| 2703522     | 2                       | 0-2 3/8               | 12.1                  |
| 2703523     | 3                       | 0-2 3/8               | 16.5                  |
| 2703524     | 4 1/2                   | 0-2 3/8               | 23.1                  |



## J.C. RENFROE MODEL LA

**Model LA** is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180 degree arc. It incorporates a push button auxiliary lock.

The “Lock Open – Lock Closed” feature facilitates attaching and removing the clamp from the plate.

| Rated Capacity<br>in Tons | Plate Thickness<br>in Inches | Unit Weight<br>in Pounds |
|---------------------------|------------------------------|--------------------------|
| 1/2                       | 0-5/8                        | 4.13                     |
| 1                         | 0-3/4                        | 5.13                     |
| 2                         | 0-1                          | 16.88                    |
| 3                         | 0-1                          | 32                       |



## J.C. RENFROE MODEL LPA

**Model LPA** is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180 degree arc. It incorporates an auxiliary push button lock. Permits side loading of lifting shackle to 90 degrees by de-rating of clamp's capacity. Refer to FIGURE 1 for de-rated capacities. The “Lock Open – Lock Closed” feature facilitates attaching and removing the clamp from the plate.

The **Model LPA** incorporates a pivoting shackle that permits side loading of the lifting shackle at 100 percent of rated capacity from vertical to 30 degrees, 75 percent of rated capacity between 30 and 45 degrees, and 50 percent of rated capacity between 45 and 90 degrees.

| Rated Capacity<br>in Tons | Plate Thickness<br>in Inches | Unit Weight<br>in Pounds |
|---------------------------|------------------------------|--------------------------|
| 1/2                       | 0-5/8                        | 4.13                     |
| 1                         | 0-3/4                        | 5.13                     |
| 2                         | 0-1                          | 16.88                    |
| 3                         | 0-1                          | 32                       |



## J.C. RENFROE MODEL LHC

**LHC Model** is a horizontal lifting clamp intended to be used in pairs, sets of pairs or in a tripod arrangement for transporting steel plates horizontally. The clamp is designed to lift individual sheets horizontally. Cam operations ensure a tight grip on the load. Serrated gripping cam bites into load for positive grip. Clamps rest in position on edge of plate until tension is applied to the load sling. Clamps must be used in single pairs (2), double pairs (4), or tripod (3) configuration with a lifting sling.

| Rated Capacity<br>in Tons | Jaw Opening<br>in Inches | Unit Weight<br>in Pounds |
|---------------------------|--------------------------|--------------------------|
| 1/4                       | 0-1                      | 3                        |
| 1/2                       | 0-2                      | 14                       |
| 3/4                       | 0-2                      | 19                       |
| 1 1/2                     | 0-2                      | 26                       |
| 3                         | 0-2                      | 24                       |
| 4                         | 0-3                      | 48                       |





3.7

1t

0-20mm  
0-3/4"

Exoset 1-4V0  
2002422

## EXOSET UNIVERSIAL VERTICAL SAFETY LIFTING CLAMPS

Spanset, the market leader in webbing based products confirms once again its innovative power with the introduction of a series of universal vertical safety lifting clamps.

The Exoset safety lifting clamps are improved in many ways compared to the currently available lifting clamps. When starting development of the Exoset lifting clamps the main tasks were; improvement of safety on the work floor and improve handling of the clamps. We have realized both tasks in the development of the Exoset clamps and this is rewarded in the award of a DNV-GL certificate.

**Exoset safety lifting clamps are the only lifting clamps in the world certified by DNV.**

- DNV Type Approval – ST – 0378
- European Norm EN 13155
- USA Norm ASME B30.20, Design category C, Service class 4
- USA Norm ASME BTH – 1
- Australian Norm 4991
- European Machine Directive 2006/42/EC.



### Improved Safety

We added a maximum W.L.L. indicator, located clearly visible in the hoisting eye and the grip. This Indicator makes it easy for the user to recognize for which maximum weight the lifting clamp can be used. Additionally we improved safety by applying a special coating on the cam segment and pivot. The coating works as wear indicator. When 50% of the coating has worn off, the parts has to be replaced. Both innovations improve safety on the work floor!

### Easier Handling

The grip is developed to give the user a better grip on the clamp while attaching the clamp on the plate. We improved and enlarged the latch design for easier opening and closing. We constructed a very robust and light weight series of clamps. This was possible while we weld our bodies and use the highest quality Naxtra steel.

### Vertical Transport of Plates - Universal

Suitable for lifting, turning (180°), moving and vertical transfer of sheet, plates and constructions. Plates can also be turned from horizontal to vertical and down to horizontal (180°) as needed. Fitted with a locking device for both open- and closed positions, which ensures complete safety. The hinged hoisting eye allows for the clamp to place and lift the load from any direction, or with a multiple leg sling without side loading the clamp.

### Exoset Hoisting Eye Shaft

The Exoset hoisting eye shaft has two flat sides, due to this construction the friction is better distributed and indent in the body can be avoided. This construction distributes the force more evenly, reduces wear and prolongs the service life of the Exoset lifting clamp

### Specification Table (Metric)

| Standard Part Number | Hard Materials Part Number | Stainless Steel Part Number | Work Load Limit (t) | Jaw Opening (mm) | Unit Weight (kg) |
|----------------------|----------------------------|-----------------------------|---------------------|------------------|------------------|
| 2002421              | 2012561                    | 2012567                     | 1/2                 | 0-16             | 1.9              |
| 2002422              | 2012562                    | 2012568                     | 1                   | 0-20             | 2.1              |
| 2002423              | 2012563                    | 2012569                     | 2                   | 0-35             | 7.6              |
| 2002424              | 2012564                    | 2012570                     | 3                   | 0-40             | 14.8             |
| 2002425              | 2012565                    | 2012571                     | 5                   | 0-40             | 16.0             |
| 2002426              | 2012566                    | 2012572                     | 6                   | 0-50             | 24.0             |





LINCOLN STANDARD CABLE RATCHET WINCH HOIST

For over 60 years these hoists have set the standard for cable ratchet winch hoists. The Standard Series feature models from 1000 to 6000 lb capacity.

- Oiled for life bearings
- Highly flexible aircraft cable
- Hydraulically crimped copper sleeve for more uniform hold
- Reversible handle bends on overload
- Cable shield protects cable and promotes even winding
- USA forged steel hooks

| Model Number | Cable Diamter (in.) | Handle Length (in.) | Single Line     |                     | Double Line     |                     | Hoist Weight (lbs.) |
|--------------|---------------------|---------------------|-----------------|---------------------|-----------------|---------------------|---------------------|
|              |                     |                     | Capacity (lbs.) | Lift Distance (ft.) | Capacity (lbs.) | Lift Distance (ft.) |                     |
| LH 1000-15   | 3/16                | 17-1/2              | 1,000           | 15                  | x               | x                   | 7                   |
| LH 1500-25   | 5/32                | 15                  | 1,500           | 10                  | 3,000           | 5                   | 8.5                 |
| LH 2250-15   | 3/16                | 17-1/2              | 1,500           | 30                  | 3,000           | 15                  | 8.75                |
| LH3000-10    | 7/32                | 20                  | 2,000           | 20                  | 4,000           | 10                  | 9                   |
| LH4000-20    | 1/4                 | 30                  | 3,000           | 15                  | 6,000           | 7 1/2               | 15.5                |



LINCOLN STANDARD WEB RATCHET WINCH HOIST

For over 40 years these web strap pullers have been the choice of the electric utility industry. These hoists meet the ASME B30.21 spec. and go further with our stress link overload warning system and RFID tracking. The Standard Series feature models from 2000 to 4000 lb capacity.

- Oiled for life bearings
- Synthetic web strap
- 1.25" OD fiberglass handle for extra stiffness
- Reversible handle with 2 spare stress links
- Double flanged drum - keeps web strap from coming in contact with ratchet teeth
- USA forged steel hooks

| Model Number | Handle Length (in.) | Single Line     |                     | Double Line     |                     | Hoist Weight (Lbs.) |
|--------------|---------------------|-----------------|---------------------|-----------------|---------------------|---------------------|
|              |                     | Capacity (lbs.) | Lift Distance (ft.) | Capacity (lbs.) | Lift Distance (ft.) |                     |
| 2W10         | 30                  | 1,000           | 9                   | 2,000           | 4.5                 | 10.25               |
| 2W10S        | 20                  | 1,000           | 9                   | 2,000           | 4.5                 | 10.25               |
| 3W08         | 30                  | 1,500           | 7                   | 3,000           | 3.5                 | 10.25               |
| 3W08S        | 20                  | 1,500           | 7                   | 3,000           | 3.5                 | 10.25               |
| 3W15         | 30                  | 1,500           | 14                  | 3,000           | 6.25                | 14                  |
| 4W12         | 36                  | 2,000           | 10                  | 4,000           | 5                   | 14.75               |



## UBC UNIVERSAL BEAM CLAMP

Harrington's UBC Universal Beam Clamp is the perfect accessory when a temporary or semi-permanent hoist anchor point is required. Additionally used as a below-the-hook lifting attachment, this adjustable beam clamp offers an efficient, cost-effective method for most workholding and positioning applications. Available in capacities of 1, 2, 3, 5 and 10 Tons.



- Meets ASME BTH-1, ASME B30.20 and complies with portions of ASME B30.16 for use with manual and powered hoists
- Design factor minimum of 5:1 per ASME B30.16 requirements
- Lock nut feature resists loosening to improve secure clamping
- Built-in suspension pin for low headroom
- Metric rated capacity
- Each Universal Beam Clamp is individually serialized and load tested
- (test certificates included)
- Made in the USA

| Part Number | Capacity in Tons | Flange Range (in.) | Max Beam Flange Thickness (in.) | Net Weight (lbs.) | Shipping Weight Approx (lbs.) |
|-------------|------------------|--------------------|---------------------------------|-------------------|-------------------------------|
| UBC010      | 1                | 3.00 to 7.50       | 0.83                            | 8                 | 10                            |
| UBC020      | 2                |                    |                                 | 9                 | 11                            |
| UBC030      | 3                | 4.00 to 12.00      | 1.00                            | 19                | 22                            |
| UBC050      | 5                |                    |                                 | 22                | 25                            |
| UBC0100     | 10               | 6.00 to 13.25      | 1.75                            | 55                | 60                            |



## PT/GT MANUAL TROLLEYS

Harrington's PT push trolleys and GT geared trolleys are versatile and durable and are the economical choice for adding mobility to our hoists. Maintenance-free sealed ball bearings provide smooth operation and long efficient service.

- Capacities of PT push trolleys from ½ Ton through 10 Ton
- Capacities of GT geared trolleys from ½ Ton through 20 Ton
- Contoured wheels fit on tapered and flat flanged beams
- Lightweight and compact for easy installation
- Fully adjustable to fit any flange width

*\*\*For GT geared trolley inquiries, please contact us for more information*



| Part Number | Capacity (Tons) | Minimum Radius for Curve (in.) | Flange Width Adjustability (in.) | Net Weight (lbs.) | Shipping Weight (lbs.) |
|-------------|-----------------|--------------------------------|----------------------------------|-------------------|------------------------|
| PTF2005     | 1/2             | 13.8                           | 2.28 to 4.00                     | 9                 | 9                      |
| PTF2010     | 1               | 17.7                           | 2.28 to 5.00                     | 15                | 16                     |
| PTF2020     | 1 1/2 - 2       | 21.7                           | 3.23 to 6.02                     | 29                | 30                     |
| PTF2030     | 2 1/2 - 3       | 25.6                           |                                  | 46                | 47                     |
| PTF2050     | 5               | 78.7                           | 4.92 to 7.02                     | 95                | 98                     |
| PT080       | 8               | 118.1                          | 8.67 to 12.00                    | 212               | 254                    |
| PT100       | 10              |                                |                                  |                   |                        |



## LB LEVER HOIST

The LB Series of lever hoists offers a low headroom, compact design that is perfect for use in tight quarters. Regarded as the best lever hoist in the industry, our LB is recommended for use in heavy-duty construction work, mining, manufacturing, shipbuilding and day-to-day maintenance and repair.

### Many Benefits From More Features:

- Rugged, all-steel construction that actually weighs less than comparable aluminum models.
- Get positive braking action with Weston-style load brake incorporating two moisture-resistant brake pads with four braking surfaces. Includes two brake pawls for additional reliability.
- Enjoy protection against dirt and moisture with a totally enclosed brake mechanism.
- Ensure long life with machined, heat-treated, split load double reduction gears.
- Operate in close quarters with short steel handle and 15-degree recovery strokes.
- Patented spring-loaded freewheel mechanism permits easy adjustment of the load chain and safeguards against accidental freewheeling under load.
- Equipped with standard rubber grip for non-slip operation.

### Capabilities To Count On:

- 5-foot lift is standard, 10-, 15- and 20-foot lifts also stocked; nonstandard lifts available as well.
- Grade 100 heat-treated load chain is nickel plated for corrosion resistance.
- Forged and heat-treated alloy steel hooks open slowly without fracturing under excessive loads. Top and bottom hooks rotate 360.°
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.21 requirements.



| Capacity (tons) | Product Code | Headroom C (in) | Std. Lift (ft) | Pull to Lift Load* (lbs) | Load Chain Dia. (mm) x Chain Fall Lines | Net Weight (lbs) | Weight for Additional One Foot of Lift (lbs) |
|-----------------|--------------|-----------------|----------------|--------------------------|-----------------------------------------|------------------|----------------------------------------------|
| 3/4             | LB008        | 11.0            | 5              | 54 (36)                  | 5.6 x 1                                 | 13               | 0.5                                          |
| 1               | LB010        | 11.8            |                | 72 (46)                  |                                         | 13               |                                              |
| 1 1/2           | LB015        | 13.2            |                | 64 (45)                  | 7.1 x 1                                 | 18               | 0.7                                          |
| 2               | LB020        | 14.8            |                | 59 (42)                  | 8.8 x 1                                 | 25               | 1.1                                          |
| 2 3/4           | LB028        |                 |                | 81 (57)                  |                                         |                  |                                              |
| 3               | LB030        | 15.6            |                | 69                       | 10.0 x 1                                | 33               | 1.5                                          |
| 6               | LB060        | 21.3            |                | 72                       | 10.0 x 2                                | 57               | 3.2                                          |
| 9               | LB090        | 26.8            |                | 78                       | 10.0 x 3                                | 88               | 4.7                                          |





## CF HAND CHAIN HOIST

Harrington CF hand chain hoists give you a practical alternative thanks to an economical design using fewer parts for trouble-free service. Outstanding durability is due to a die-cast aluminum body and high-strength, heat-treated main pinion shaft and load gear. Pre-lubricated ball bearings, precision machined gears, and Weston-style load brake make lifting smooth and easy while allowing long service and low maintenance.

### Many Benefits From More Features:

- Experience exceptional strength with a thick die-cast aluminum body.
- Handle tough demands with high-strength, heat-treated main pinion shaft and load gear.
- Get positive braking action with Weston-style load brake incorporating two moisture-resistant brake pads with four braking surfaces.
- Minimize manual effort thanks to smooth running, pre-lubricated ball bearings, and precision machined drive train components.
- Simplify maintenance with fewer parts and an easy-to-work-on design.

### Capabilities To Count On:

- 10-foot lift is standard, 15- and 20-foot lifts are also stocked; nonstandard lifts and hand chain drops available as well.
- Grade 100 heat-treated manganese alloy load chain resists abrasion and wear while minimizing chain weight.
- Forged and heat-treated alloy steel hooks are designed to open slowly and not fracture under excessive loads.
- Test certificate verifies that every hoist has been factory load tested to 125% of rated capacity, in accordance with ASME B30.16 requirements.

### Options:

- Chain Container
- Corrosion-resistant chain
- Inspection Hook



| Cap (tons) | Lift (ft) | Model No. | Headroom C (in) | Pull to Lift Load* (lbs) | Load Chain Diameter (mm) x Chain Fall Lines | Net Weight (lbs) | Shipping Weight Approx. (lbs) |
|------------|-----------|-----------|-----------------|--------------------------|---------------------------------------------|------------------|-------------------------------|
| .5         | 10        | CF005-10  | 12.8            | 60                       | 5.0 x 1                                     | 24               | 26                            |
|            | 15        | CF005-15  |                 |                          |                                             | 29               | 31                            |
|            | 20        | CF005-20  |                 |                          |                                             | 34               | 36                            |
| 1          | 10        | CF010-10  | 14.6            | 72                       | 6.3 x 1                                     | 29               | 31                            |
|            | 15        | CF010-15  |                 |                          |                                             | 35               | 37                            |
|            | 20        | CF010-20  |                 |                          |                                             | 40               | 43                            |
| 1.5        | 10        | CF015-10  | 17.3            | 84                       | 7.1 x 1                                     | 40               | 42                            |
|            | 15        | CF015-15  |                 |                          |                                             | 47               | 49                            |
|            | 20        | CF015-20  |                 |                          |                                             | 54               | 57                            |
| 2          | 10        | CF020-10  | 20.1            | 80                       | 6.3 x 2                                     | 47               | 49                            |
|            | 15        | CF020-15  |                 |                          |                                             | 56               | 58                            |
|            | 20        | CF020-20  |                 |                          |                                             | 65               | 68                            |
| 3          | 10        | CF030-10  | 23.2            | 92                       | 7.1 x 2                                     | 62               | 66                            |
|            | 20        | CF030-20  |                 |                          |                                             | 72               | 75                            |
| 5          | 10        | CF050-10  | 24.4            |                          | 7.1 x 3                                     | 82               | 86                            |



## HSDLB STANDARD DUTY LIFTING BEAM

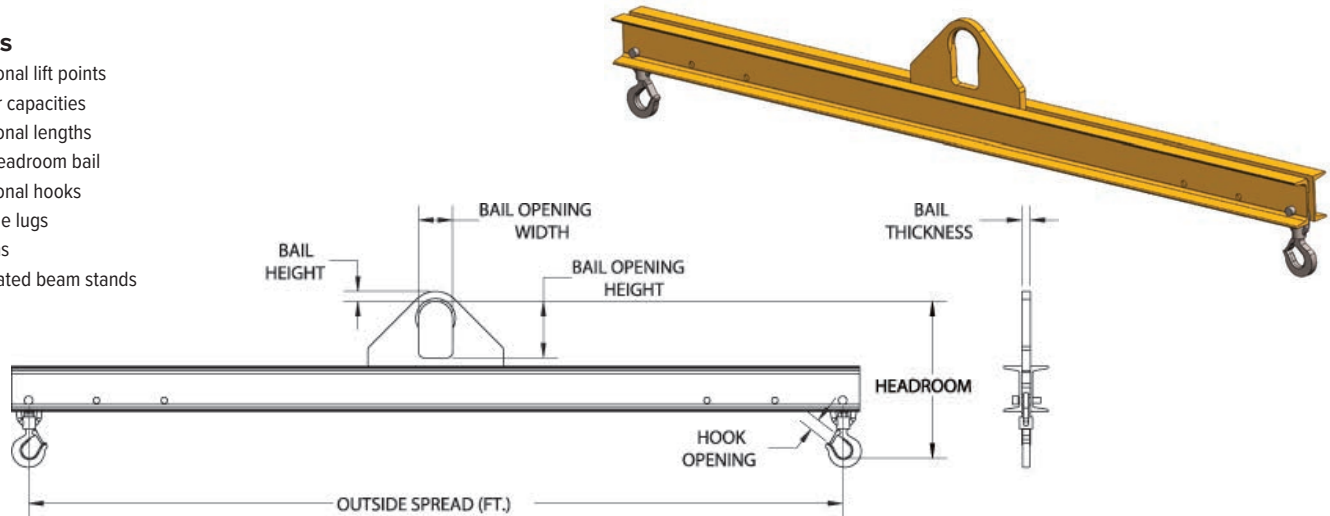
Channel Design Beams Ranging from 1-40 tons

### Features

- This style of lifting beam can be utilized where headroom is limited and comes with a pair of swivel hooks and three standard spreads (3' and 4' beams have two standard spreads).
- Three standard lift points for load adjustment: outside lift point, middle lift point (outside less 1'), inside lift point (middle less 1').
- Engineered and manufactured to ASME B30.20 & BTH-1 Design Category B Service Class 2.
- 100% of ALL lifting beams are Proof-Tested to 125% capacity and certificates supplied at No Additional Charge.
- Made in USA.

### Options

- Additional lift points
- Higher capacities
- Additional lengths
- Low headroom bail
- Additional hooks
- Shackle lugs
- Faspins
- Integrated beam stands



HSDLB Standard Duty Lifting Beam

| Model #     | Capacity (US Tons) | Outside Spread | Dimensions (Inches) |             |                    |                     |                |              | Weight (lbs.) |
|-------------|--------------------|----------------|---------------------|-------------|--------------------|---------------------|----------------|--------------|---------------|
|             |                    |                | Headroom            | Bail Height | Bail Opening Width | Bail Opening Height | Bail Thickness | Hook Opening |               |
| HSDLB-1-4   | 1                  | 4              | 13                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 50            |
| HSDLB-1-6   | 1                  | 6              | 14                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 80            |
| HSDLB-1-8   | 1                  | 8              | 14                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 105           |
| HSDLB-1-10  | 1                  | 10             | 15                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 150           |
| HSDLB-1-12  | 1                  | 12             | 16                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 275           |
| HSDLB-2-4   | 2                  | 4              | 14                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 60            |
| HSDLB-2-6   | 2                  | 6              | 15                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 95            |
| HSDLB-2-8   | 2                  | 8              | 16                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 150           |
| HSDLB-2-10  | 2                  | 10             | 17                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 265           |
| HSDLB-2-12  | 2                  | 12             | 18                  | 0.88        | 3                  | 5                   | 0.75           | 0.91         | 295           |
| HSDLB-5-4   | 5                  | 4              | 19                  | 2           | 4                  | 7                   | 1.25           | 1.36         | 145           |
| HSDLB-5-6   | 5                  | 6              | 20                  | 2           | 4                  | 7                   | 1.25           | 1.36         | 210           |
| HSDLB-5-8   | 5                  | 8              | 22                  | 2           | 4                  | 7                   | 1.25           | 1.36         | 280           |
| HSDLB-5-10  | 5                  | 10             | 24                  | 2           | 4                  | 7                   | 1.25           | 1.36         | 380           |
| HSDLB-5-12  | 5                  | 12             | 25                  | 2           | 4                  | 7                   | 1.25           | 1.36         | 570           |
| HSDLB-10-4  | 10                 | 4              | 23                  | 2           | 4                  | 7                   | 1.25           | 1.61         | 165           |
| HSDLB-10-6  | 10                 | 6              | 25                  | 2           | 4                  | 7                   | 1.25           | 1.61         | 260           |
| HSDLB-10-8  | 10                 | 8              | 27                  | 2           | 4                  | 7                   | 1.25           | 1.61         | 410           |
| HSDLB-10-10 | 10                 | 10             | 30                  | 2           | 4                  | 7                   | 1.25           | 1.61         | 770           |
| HSDLB-10-12 | 10                 | 12             | 30                  | 2           | 4                  | 7                   | 1.25           | 1.61         | 910           |

Please Note: For beams ranging between 15-40 ton capacities, please contact us at 215-721-9333 or email us at [sales@nelsonwire.com](mailto:sales@nelsonwire.com)



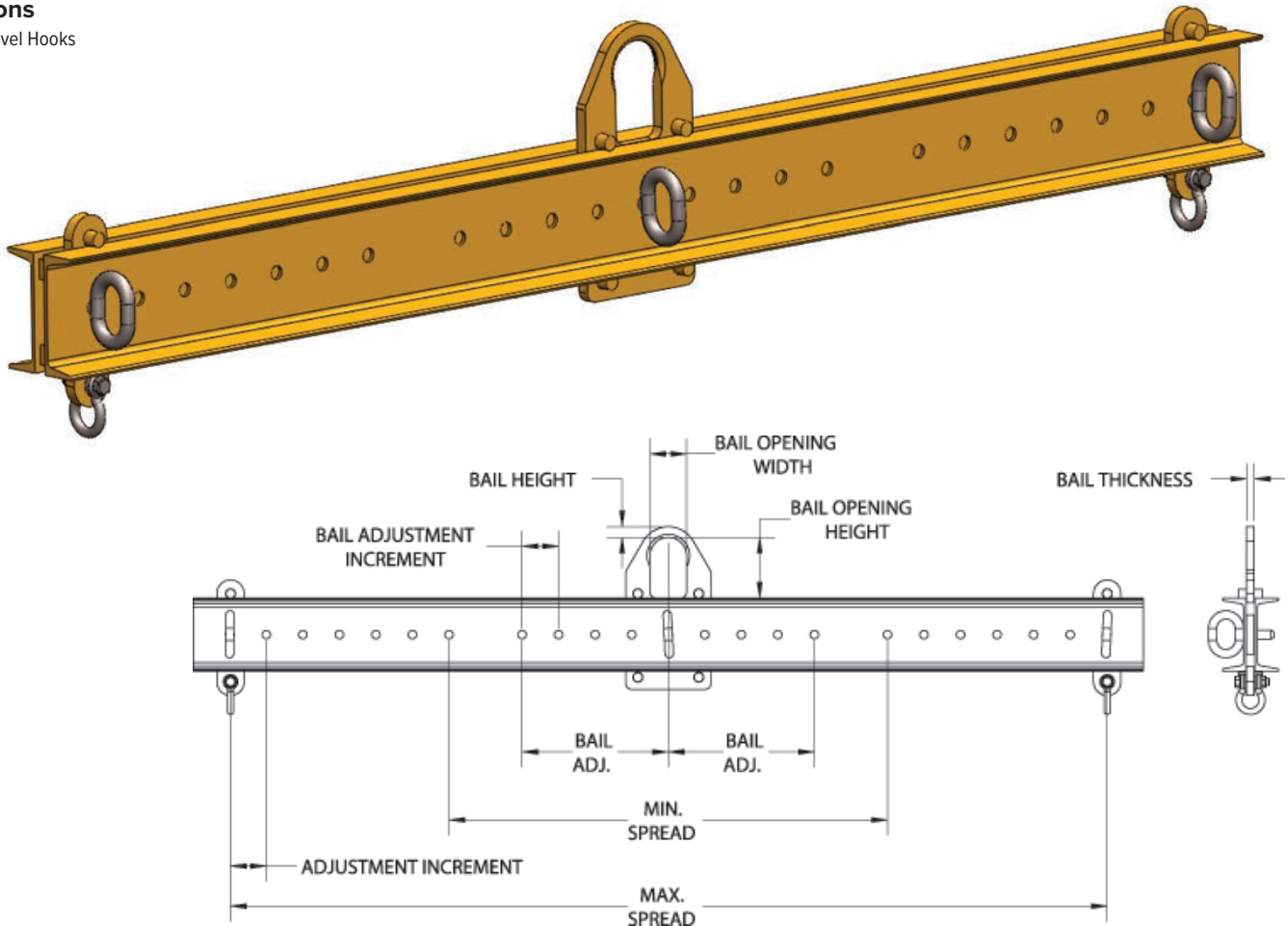
## HALB ADJUSTABLE LIFTING BEAM

### Features

- This style of lifting beam can lift off center loads easily by adjusting the bail prior to the lift.
- This lifter can be used where headroom is limited, & comes with multiple spreads that are adjustable to accommodate various load sizes at 6" adjustable increments.
- Supplied with two lower shackles.
- Engineered and manufactured to ASME B30.20 & BTH-1 Design Category B Service Class 2.
- 100% of ALL lifting beams are Proof-Tested to 125% capacity and certificates supplied at No Additional Charge.
- Made in USA.

### Options

- Swivel Hooks



HALB Adjustable Lifting Beam

| Model #     | Capacity (US Tons) | Max Spread (Ft.) | Min. Spread (Ft.) | Dimensions (Inches) |             |                    |                     |                |                            |                              |                     | Weight (lbs.) |
|-------------|--------------------|------------------|-------------------|---------------------|-------------|--------------------|---------------------|----------------|----------------------------|------------------------------|---------------------|---------------|
|             |                    |                  |                   | Head-room           | Bail Height | Bail Opening Width | Bail Opening Height | Bail Thickness | Bail Adjustment Increments | Bail Travel (Half of Center) | Shackle Size (Tons) |               |
| HALB-1.25-6 | 1.25               | 6                | 3                 | 13.5                | 1           | 3                  | 5                   | 0.63           | 3                          | 12                           | 2                   | 120           |
| HALB-2-6    | 2                  | 6                | 3                 | 14.5                | 1           | 3                  | 5                   | 0.63           | 3                          | 12                           | 2                   | 140           |
| HALB-4-8    | 4                  | 8                | 4.5               | 20                  | 1.5         | 4                  | 7                   | 0.75           | 6                          | 18                           | 3.25                | 315           |
| HALB-5-10   | 5                  | 10               | 5                 | 22                  | 1.5         | 4                  | 7                   | 1.00           | 6                          | 18                           | 4.75                | 440           |



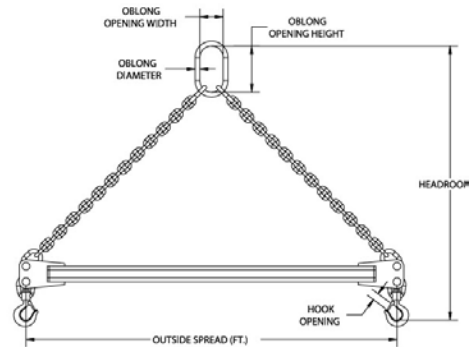
## HSDSB STANDARD DUTY SPREADER BEAM

### Features

- This style of lifter is utilized with upper rigging spread between two lift points that adds extra stability to the lift.
- This spreader beam should be utilized where headroom is not limited and comes standard with a pair of swivel hooks.
- Can be supplied with optional chain or wire rope top rigging.
- Engineered and manufactured to ASME B30.20 & BTH-1 Design Category B Service Class 2.
- 100% of ALL spreader beams are Proof-Tested to 125% capacity and certificates supplied at No Additional Charge.
- Made in USA.

### Options

- Higher capacities
- Additional lengths
- Upper and lower shackle design
- Chain top rigging
- Wire rope top rigging



### HSDSB Standard Duty Spreader Beam

| Model #     | Capacity (US Tons) | Outside Spread (ft.) | Dimensions (Inches) |                    |                         |                          |              | Weight (Lbs.) |
|-------------|--------------------|----------------------|---------------------|--------------------|-------------------------|--------------------------|--------------|---------------|
|             |                    |                      | Headroom            | Oblong ML Diameter | Oblong ML Opening Width | Oblong ML Opening Height | Hook Opening |               |
| HSDSB-2-4   | 2                  | 4                    | 36                  | 0.63               | 3                       | 6                        | 0.91         | 45            |
| HSDSB-2-6   | 2                  | 6                    | 48                  | 0.63               | 3                       | 6                        | 0.91         | 60            |
| HSDSB-2-8   | 2                  | 8                    | 61                  | 0.63               | 3                       | 6                        | 0.91         | 82            |
| HSDSB-2-10  | 2                  | 10                   | 74                  | 0.63               | 3                       | 6                        | 0.91         | 95            |
| HSDSB-2-12  | 2                  | 12                   | 86                  | 0.63               | 3                       | 6                        | 0.91         | 115           |
| HSDSB-2-16  | 2                  | 16                   | 111                 | 0.63               | 3                       | 6                        | 0.91         | 225           |
| HSDSB-2-20  | 2                  | 20                   | 139                 | 0.63               | 3                       | 6                        | 0.91         | 408           |
| HSDSB-2-24  | 2                  | 24                   | 164                 | 0.63               | 3                       | 6                        | 0.91         | 445           |
| HSDSB-5-4   | 5                  | 4                    | 39                  | 1                  | 3.5                     | 7                        | 1.36         | 62            |
| HSDSB-5-6   | 5                  | 6                    | 51                  | 1                  | 3.5                     | 7                        | 1.36         | 78            |
| HSDSB-5-8   | 5                  | 8                    | 64                  | 1                  | 3.5                     | 7                        | 1.36         | 100           |
| HSDSB-5-10  | 5                  | 10                   | 77                  | 1                  | 3.5                     | 7                        | 1.36         | 117           |
| HSDSB-5-12  | 5                  | 12                   | 87                  | 1                  | 3.5                     | 7                        | 1.36         | 168           |
| HSDSB-5-16  | 5                  | 16                   | 116                 | 1                  | 3.5                     | 7                        | 1.36         | 305           |
| HSDSB-5-20  | 5                  | 20                   | 141                 | 1                  | 3.5                     | 7                        | 1.36         | 435           |
| HSDSB-5-24  | 5                  | 24                   | 166                 | 1                  | 3.5                     | 7                        | 1.36         | 661           |
| HSDSB-10-4  | 10                 | 4                    | 43                  | 1.25               | 4.38                    | 8.75                     | 1.61         | 100           |
| HSDSB-10-6  | 10                 | 6                    | 56                  | 1.25               | 4.38                    | 8.75                     | 1.61         | 122           |
| HSDSB-10-8  | 10                 | 8                    | 67                  | 1.25               | 4.38                    | 8.75                     | 1.61         | 156           |
| HSDSB-10-10 | 10                 | 10                   | 81                  | 1.25               | 4.38                    | 8.75                     | 1.61         | 180           |
| HSDSB-10-12 | 10                 | 12                   | 90                  | 1.25               | 4.38                    | 8.75                     | 1.61         | 240           |
| HSDSB-10-16 | 10                 | 16                   | 119                 | 1.25               | 4.38                    | 8.75                     | 1.61         | 380           |
| HSDSB-10-20 | 10                 | 20                   | 145                 | 1.25               | 4.38                    | 8.75                     | 1.61         | 532           |
| HSDSB-10-24 | 10                 | 24                   | 171                 | 1.25               | 4.38                    | 8.75                     | 1.61         | 915           |



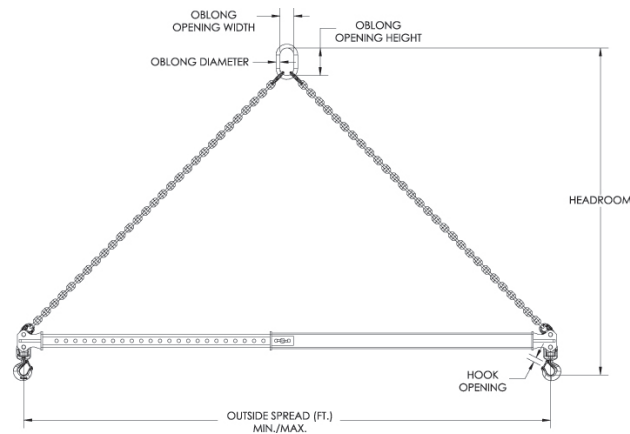
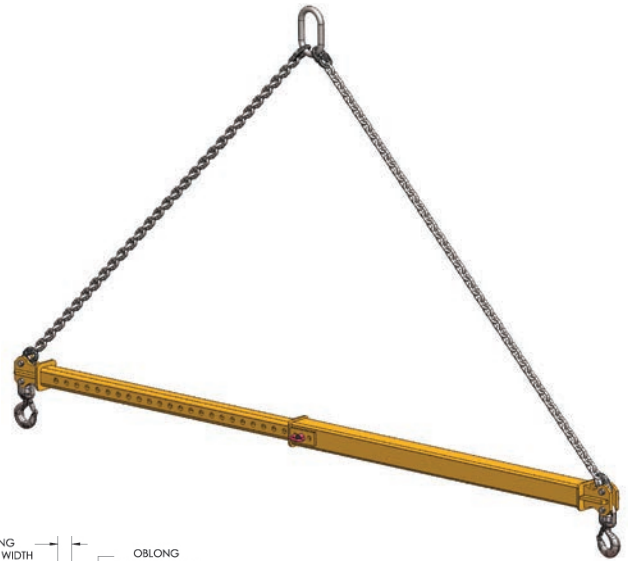
## HALB ADJUSTABLE TELESCOPIC SPREADER BEAM

### Features

- This style of spreader beam is telescopic to accommodate various load sizes – 2 through 15 ton capacities, adjustable increments at 1" and 20 through 40 ton capacities, adjustable increments at 12".
- This style of lifter is utilized with upper rigging spread between two lift points that adds extra stability to the lift.
- This spreader beam should be utilized where headroom is not limited and comes standard with a pair of swivel hooks.
- Can be supplied with optional chain or wire rope top rigging.
- Engineered and manufactured to ASME B30.20 & BTH-1 Design Category B Service Class 2.
- 100% of ALL spreader beams are Proof- Tested to 125% capacity and certificates supplied at No Additional Charge.
- Made in USA

### Options

- Higher capacities
- Additional lengths
- Upper and lower shackle design
- Chain top rigging
- Wire rope top rigging



## HATSB Adjustable Telescopic Spreader Beam

| Model #        | Capacity (US Tons) | Outside Spread Min/Max (ft.) | Dimensions (Inches) |                    |                         |                          |              |                           | Chain Rigging Weight (Lbs.) |
|----------------|--------------------|------------------------------|---------------------|--------------------|-------------------------|--------------------------|--------------|---------------------------|-----------------------------|
|                |                    |                              | Headroom Min/Max    | Oblong ML Diameter | Oblong ML Opening Width | Oblong ML Opening Height | Hook Opening | Beam & Hook Weight (Lbs.) |                             |
| HATSB-2-4/6    | 2                  | 4/6                          | 50/60               | 0.63               | 3                       | 6                        | 0.91         | 70                        | 9                           |
| HATSB-2-6/10   | 2                  | 6/10                         | 76/92               | 0.63               | 3                       | 6                        | 0.91         | 85                        | 13                          |
| HATSB-2-8/14   | 2                  | 8/14                         | 101/119             | 0.63               | 3                       | 6                        | 0.91         | 175                       | 17                          |
| HATSB-2-12/20  | 2                  | 12/20                        | 139/174             | 0.63               | 3                       | 6                        | 0.91         | 245                       | 23                          |
| HATSB-5-4/6    | 5                  | 4/6                          | 58/67               | 1                  | 3.5                     | 7                        | 1.36         | 105                       | 34                          |
| HATSB-5-6/10   | 5                  | 6/10                         | 83/100              | 1                  | 3.5                     | 7                        | 1.36         | 160                       | 47                          |
| HATSB-5-8/14   | 5                  | 8/14                         | 107/132             | 1                  | 3.5                     | 7                        | 1.36         | 205                       | 61                          |
| HATSB-5-12/20  | 5                  | 12/20                        | 145/181             | 1                  | 3.5                     | 7                        | 1.36         | 670                       | 82                          |
| HATSB-10-4/6   | 10                 | 4/6                          | 63/72               | 1.25               | 4.38                    | 8.75                     | 1.61         | 95                        | 49                          |
| HATSB-10-6/10  | 10                 | 6/10                         | 78/117              | 1.25               | 4.38                    | 8.75                     | 1.61         | 175                       | 69                          |
| HATSB-10-8/14  | 10                 | 8/14                         | 113/139             | 1.25               | 4.38                    | 8.75                     | 1.61         | 460                       | 88                          |
| HATSB-10-12/20 | 10                 | 12/20                        | 151/171             | 1.25               | 4.38                    | 8.75                     | 1.61         | 680                       | 118                         |
| HATSB-15-4/6   | 15                 | 4/6                          | 67/76               | 1.5                | 5.25                    | 10.5                     | 2.08         | 165                       | 78                          |
| HATSB-15-6/10  | 15                 | 6/10                         | 91/109              | 1.5                | 5.25                    | 10.5                     | 2.08         | 365                       | 111                         |
| HATSB-15-8/14  | 15                 | 8/14                         | 117/142             | 1.5                | 5.25                    | 10.5                     | 2.08         | 478                       | 145                         |
| HATSB-15-12/20 | 15                 | 12/20                        | 154/189             | 1.5                | 5.25                    | 10.5                     | 2.08         | 700                       | 194                         |
| HATSB-20-7/11  | 20                 | 7/11                         | 98/112              | 1.75               | 6                       | 12                       | 2.27         | 430                       | 175                         |
| HATSB-20-9/15  | 20                 | 9/15                         | 129/151             | 1.75               | 6                       | 12                       | 2.27         | 540                       | 225                         |
| HATSB-20-12/20 | 20                 | 12/20                        | 159/189             | 1.75               | 6                       | 12                       | 2.27         | 822                       | 275                         |



## RATCHET STRAPS

### KINEDYNE GOLD STANDARD

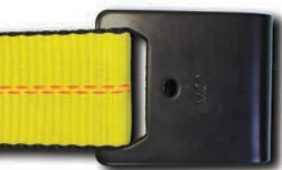
Kinedyne ratchet straps are designed to handle most types of flatbed tie-down requirements. Standard ratchet straps have an 18" fixed end as standard, except for straps with 3705-2 and 3705-3 chain anchors which have a fixed end of 32". Special length fixed ends are available as a special order. All ratchet straps are labeled with their working load limit to meet DOT regulations, WSTDA, CHP and North American Cargo Securement Standards. Straps are stenciled with the Kinedyne name and logo.

### RHINO MAX

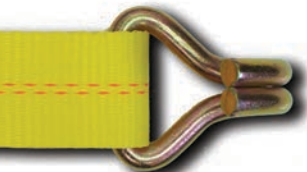
"Rhino Max" is a more durable and abrasion resistant webbing for cargo control tie-down straps. "Rhino Web" yields 30% more tensile strength after severe abrasion and is 30% thicker with a tougher surface. "Rhino Web" will complement and round out Kinedyne's already extensive line of quality webbing. This new, durable webbing is manufactured at the state-of-the-art Kinedyne facility in Alabama. "Rhino Web" is available in both 2" & 4" winch straps and ratchet straps.



#### Flat Hook



#### Wire Hook



#### Chain Extension



#### Standard Ratchet Straps

| End Fittings | Strap Width in Inches | Working Load Limit in Pounds | Assembly Length in Feet | Unit Weight in Pounds | Stock No. |
|--------------|-----------------------|------------------------------|-------------------------|-----------------------|-----------|
| Flat Hook    | 2                     | 3,335                        | 27                      | 6.5                   | 1400-250  |
|              |                       |                              | 30                      | 6.7                   | 1400-400  |
|              | 3                     | 5,400                        | 27                      | 11.8                  | 1400-1300 |
|              |                       |                              | 30                      | 12.1                  | 1400-1450 |
|              | 4                     | 5,400                        | 27                      | 14.7                  | 1400-1575 |
|              |                       |                              | 30                      | 15.2                  | 1400-1580 |
| Wire Hook    | 2                     | 3,335                        | 27                      | 6.3                   | 1400-1050 |
|              |                       |                              | 30                      | 6.5                   | 1400-1175 |
|              | 4                     | 6,670                        | 27                      | 14.1                  | 1400-1600 |
|              |                       |                              | 30                      | 14.6                  | 1400-1650 |
| Chain Anchor | 2                     | 3,335                        | 27                      | 11                    | 1400-500  |
|              |                       |                              | 30                      | 11.2                  | 1400-650  |
|              | 3                     | 5,400                        | 27                      | 15.8                  | 1400-1500 |
|              |                       |                              | 30                      | 16.1                  | 1400-1550 |

#### Rhino Max Ratchet Straps

| End Fittings | Strap Width in Inches | Working Load Limit in Pounds | Assembly Length in Feet | Unit Weight in Pounds | Stock No. |
|--------------|-----------------------|------------------------------|-------------------------|-----------------------|-----------|
| Flat Hook    | 2                     | 4,000                        | 27                      | 2.8                   | 1400-260  |
|              |                       |                              | 30                      | 2.9                   | 1400-410  |





## WINCH STRAPS

### KINEDYNE GOLD STANDARD

Kinedyne ratchet straps are designed to handle most types of flatbed tie-down requirements. Standard ratchet straps have an 18" fixed end as standard, except for straps with 3705-2 and 3705-3 chain anchors which have a fixed end of 32". Special length fixed ends are available as a special order. All ratchet straps are labeled with their working load limit to meet DOT regulations, WSTDA, CHP and North American Cargo Securement Standards. Straps are stenciled with the Kinedyne name and logo.

### RHINO MAX

"Rhino Max" is a more durable and abrasion resistant webbing for cargo control tie-down straps. "Rhino Web" yields 30% more tensile strength after severe abrasion and is 30% thicker with a tougher surface. "Rhino Web" will complement and round out Kinedyne's already extensive line of quality webbing. This new, durable webbing is manufactured at the state-of-the-art Kinedyne facility in Alabama. "Rhino Web" is available in both 2" & 4" winch straps and ratchet straps.



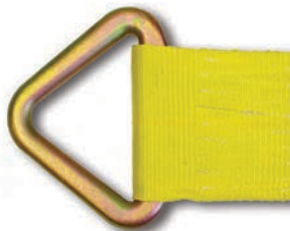
### Standard Winch Straps

| End Fittings    | Strap Width in Inches | Working Load Limit in Pounds | Assembly Length in Feet | Unit Weight in Pounds | Stock No. |
|-----------------|-----------------------|------------------------------|-------------------------|-----------------------|-----------|
| Flat Hook       | 2                     | 3,335                        | 27                      | 3                     | 1400-1790 |
|                 |                       |                              | 30                      | 3.2                   | 1400-1850 |
|                 | 3                     | 5,400                        | 27                      | 4.3                   | 1400-2000 |
|                 |                       |                              | 30                      | 4.7                   | 1400-2050 |
|                 | 4                     | 5,400                        | 27                      | 5.0                   | 1400-2400 |
|                 |                       |                              | 30                      | 5.5                   | 1400-2450 |
| Delta Ring      | 3                     | 5,400                        | 27                      | 4.8                   | 1400-2300 |
|                 |                       |                              | 30                      | 5.2                   | 1400-2350 |
|                 | 4                     | 5,400                        | 27                      | 6.7                   | 1400-2750 |
|                 |                       |                              | 30                      | 7.1                   | 1400-2800 |
| Chain Extension | 4                     | 5,400                        | 27                      | 7.0                   | 1400-2800 |
|                 |                       |                              | 30                      | 7.5                   | 1400-2700 |

Flat Hook



Delta Ring



Chain Extension



### Rhino Max Winch Straps

| End Fittings | Strap Width in Inches | Working Load Limit in Pounds | Assembly Length in Feet | Unit Weight in Pounds | Stock No. |
|--------------|-----------------------|------------------------------|-------------------------|-----------------------|-----------|
| Flat Hook    | 2                     | 3,335                        | 27                      | 2.8                   | 1400-2410 |
|              |                       |                              | 30                      | 2.9                   | 1400-2455 |

## STANDARD WINCHES

- This standard winch can hold up to 24 feet of a 4" winch strap.
- Available in both fixed and sliding styles
- Working Load Limit - 5,500 lbs



| Stock Number | Kinedyne Part Number | Description            | Weight (lbs.) |
|--------------|----------------------|------------------------|---------------|
| 1100-10      | 1820                 | Fixed Standard Winch   | 8.0           |
| 1100-50      | 3820                 | Sliding Standard Winch | 9.2           |

## STORABLE WINCHES

- This storable winch can hold up to 27 feet of a 4" winch strap.
- Available in both fixed and sliding styles
- Working Load Limit - 5,500 lbs



| Stock Number | Kinedyne Part Number | Description | Weight (lbs.) |
|--------------|----------------------|-------------|---------------|
| 1100-20      | 1820S                | Fixed       | 8.8           |
| 1100-70      | 5820                 | Sliding     | 10.1          |

## LOW PROFILE BOTTOM MOUNT WINCHES

- This low profile winch can hold up to 14 feet of a 4" winch strap.
- Available in the fixed style
- Working Load Limit - 5,500 lbs



| Stock Number | Kinedyne Part Number | Description | Weight (lbs.) |
|--------------|----------------------|-------------|---------------|
| 1100-120     | 7820                 | Fixed       | 8.1           |

## PORTABLE WINCH WITH 2 SET SCREWS

- Designed to be Permanently Mounted in a Fixed Position
- Available in both standard and low profile styles
- Working Load Limit - 5,500 lbs



| Stock Number | Kinedyne Part Number | Description | Weight (lbs.) |
|--------------|----------------------|-------------|---------------|
| 1100-40      | 18020P2              | Standard    | 9.2           |
| 1100-125     | 7820P2               | Low Profile | 9.2           |

## FORGED D-RINGS

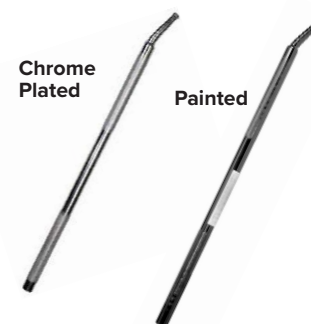
- Includes A-clip for welding on to trailers
- Not to be used for lifting, they are strictly for securing loads
- Made in the USA



| Stock Number | Diameter in Inches | Inside Length And Width | Working Load Limit (lbs) |
|--------------|--------------------|-------------------------|--------------------------|
| 2200-190     | 1/2                | 2-1/4" x 2-1/2"         | 4,000                    |
| 2200-200     | 5/8                | 3" x 3"                 | 6,000                    |
| 2200-205     | 3/4                | 3" x 3"                 | 9,000                    |
| 2200-210     | 1                  | 4" x 4"                 | 15,000                   |

## WINCH BARS

Used to tighten winches. Wind rope or nylon strapping into the Winch with plenty of clearance. The bar's handle has a gripped end for better and safer handling.



| Stock Number | Kinedyne Part No. | Description                     | Length (in.) | Weight (lbs.) |
|--------------|-------------------|---------------------------------|--------------|---------------|
| 1100-160     | 37030             | Standard Bar - Painted          | 35.0"        | 5.2           |
| 1100-170     | 37031             | Standard Bar - Chrome Plated    | 35.0"        | 5.2           |
| 1100-180     | 37033             | Combination Bar - Chrome Plated | 32.0"        | 5.8           |
| 1100-190     | 10032             | Combination Bar - Painted       | 39.5"        | 6.6           |

## KINEDYNE STRAP WINDERS

Designed to wind straps for storage in a toolbox. This is a great tool for all flatbeds equipped with winches. This essential tool easily recoils straps, saves time and gets drivers back on the road quickly.



| Stock Number | Kinedyne Part Number | Weight (lbs.) |
|--------------|----------------------|---------------|
| 1100-195     | 10092                | 1.1           |
| 1100-197     | 10091                | 2.5           |

## OVERSIZE LOAD SIGNS

The Safety Flag Co Oversize Load Sign is designed to keep the road clear for an oversize load escort.

- Printed on 13 oz. vinyl-laminated polyester
- Solid construction with edges hemmed for durability
- Tear and fray resistant
- 1 grommet in each corner with a 5/16 in. inside diameter



| Stock Number | Description                          | Size (in.) |
|--------------|--------------------------------------|------------|
| 700-01930    | Oversize Load Only                   | 12" x 60"  |
| 9126         | Reversable (Wide Load/Oversize Load) | 14" x 72"  |

## WINCH TRACK

### 1/4" x 6' Steel Winch Track

The design of the sliding winch track facilitates self-cleaning for maintenance-free operation. Winch track is for use with Kinedyne sliding winches only (part numbers 3820 and 5820). Track can be capped on ends or cross-bolted for security. Special length track is available.



| Stock Number | Kinedyne Part Number | Weight (lbs.) |
|--------------|----------------------|---------------|
| 1100-140     | 3606                 | 38.5          |

## COIL RACK

Coil Racks, also known as coil chocks or coil bunks, are used in conjunction with hardwood timbers to stabilize metal coils in the load securement process.

- Material: Hot Rolled Steel, 8 Gauge
- Finish: Painted Black
- Size: 33.25" long x 2.75" wide x 2.85" high

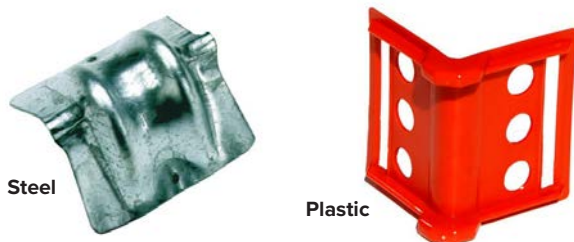


| Stock Number | Kinedyne Part Number | Weight (lbs.) |
|--------------|----------------------|---------------|
| 1700-1775    | 8856                 | 4.9           |

## CORNER PROTECTORS

Designed for winch and ratchet straps in different sizes

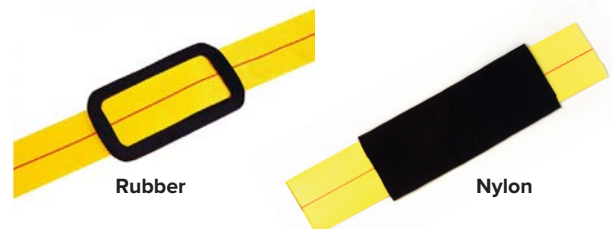
Corner protectors are designed to protect both strap and cargo from damage caused by the load. They are required by law whenever load conditions could cut or abrade the strap. Protectors feature a corner recess to protect cargo edges.



| Stock Number | Kinedyne Part Number | Item Description | Weight Each (lbs.) |
|--------------|----------------------|------------------|--------------------|
| 1100-258     | 1863                 | Steel 2"         | 1.2                |
| 1100-300     | 37025                | Plastic 2"-4"    | 0.2                |

## PROTECTIVE SLEEVES

Protective sleeves are designed to protect both strap and cargo from damage caused by the load. Select styles can also be used on web slings, wire rope slings, and chain slings.



| Stock Number | Kinedyne Part Number | Item Description    | Weight Each (lbs.) |
|--------------|----------------------|---------------------|--------------------|
| 1100-280     | 37022                | Rubber Sleeve 2"-3" | 0.2                |
| 1100-290     | 37024                | Rubber Sleeve 4"    | 0.5                |
| 1100-310     | CS20                 | Nylon Sleeve 2"     | 0.2                |
| 1100-330     | CS40                 | Nylon Sleeve 4"     | 0.5                |

## 2" LOGISTIC STRAPS WITH SPRING FITTINGS

Kinedyne's Logistic Straps are designed to provide solutions to most interior van loading challenges. These versatile straps are offered in several lengths with buckle and end fitting options to fit every job.



Ratchet

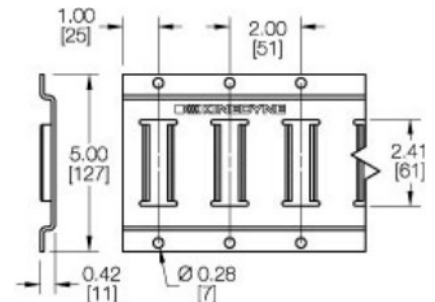


Cam

| Stock Number | Buckle Type | Assembly Length in Feet | Breaking Strength in Pounds | Rated Capacity in Pounds | Unit Weight in Pounds |
|--------------|-------------|-------------------------|-----------------------------|--------------------------|-----------------------|
| 1400-8320    | Ratchet     | 12                      | 3,000                       | 1,000                    | 3.2                   |
| 1400-8330    | Ratchet     | 16                      | 3,000                       | 1,000                    | 3.3                   |
| 1400-8340    | Ratchet     | 20                      | 3,000                       | 1,000                    | 3.4                   |
| 1400-8370    | Cam         | 12                      | 2,500                       | 835                      | 1.6                   |
| 1400-8380    | Cam         | 16                      | 2,500                       | 835                      | 1.7                   |
| 1400-        | Cam         | 20                      | 2,500                       | 835                      | 1.8                   |

## LOGISTIC TRACK

- Material: High strength steel 12 gauge
- Minimum Yield: 50,000 psi.
- Finish: Gray, Powder Coat
- Length: 10 feet., 3 meters.



| Stock Number | Kinedyne Part Number | Item Description  | Unit Weight |
|--------------|----------------------|-------------------|-------------|
| 1100-370     | 43002                | Series E 12GA 10' | 16.2 lbs.   |

## KINEDYNE SAF-T-LOK BARS

Kinedyne's Saf-T-Lok Bars are reliable and easy to operate in all environments. With pivoting rubber feet that won't scuff and remain pliable even at low temperatures. The handle and trigger release are easy to operate even with gloved hands.



| Stock Number | Kinedyne Part Number | Description                | Unit Weight |
|--------------|----------------------|----------------------------|-------------|
| 1100-340     | 10088                | Aluminum (90" - 105")      | 8.5         |
| 1100-345     | 10085                | Steel (90" - 105")         | 11.4        |
| 1100-348     | 80131                | Retract-A-Bar (54" - 107") | 9.0         |

## 1" HEAVY DUTY RATCHET & UTILITY STRAPS

These general purpose utility straps are made from 1" wide webbing and include heavy duty hardware. Common uses include securing cargo, motor sport vehicles, wood, furniture, and more. Several end-fittings are available including wire hooks, vinyl coated wire hooks, and vinyl coated s-hooks.

### Features

- Durable webbing
- Heavy duty hardware
- Strong and smooth ratchet
- Anti-fatigue ratchet handle
- Made in the USA



| Stock Number | Product Description                                    | Working Load Limit (lbs.) |
|--------------|--------------------------------------------------------|---------------------------|
| 1400-50      | Utility Strap with Vinyl S Hooks - 6 ft.               | 400                       |
| 1400-75      | Utility Strap with Vinyl S Hooks - 9 ft.               | 400                       |
| 1400-80      | Utility Strap with Vinyl S Hooks - 15 ft.              | 400                       |
| 1400-90      | Ratchet Strap with PVC Wire hook - 10 ft.              | 800                       |
| 1400-100     | Ratchet Strap with Wire Hooks & D Ring - 16 ft         | 835                       |
| 1400-130     | Ratchet Strap with Vinyl S Hooks - 9 ft. (Blue Strap)  | 500                       |
| 1400-150     | Ratchet Strap with Vinyl S Hooks - 16 ft.              | 800                       |
| 1400-155     | Ratchet Strap with Vinyl S Hooks - 15 ft. (Blue Strap) | 500                       |

## RUBBER TARP TIES

- 100% natural rubber tarp straps
- 9", 15", 21", 31" and 41" strap lengths available
- Uncrimped steel S hooks (can be removed)
- Quantity 50 per box
- Bundles of 10 available upon request
- Made in the USA



| Stock Number | Strap Length in Inches | Overall Length in Inches | Quantity Per Box |
|--------------|------------------------|--------------------------|------------------|
| 1400-3550    | 9                      | 14                       | 50               |
| 1400-3600    | 15                     | 19                       | 50               |
| 1400-3650    | 21                     | 25                       | 50               |
| 1400-3700    | 31                     | 35                       | 50               |
| 1400-3750    | 41                     | 45                       | 50               |

## POLYETHYLENE TARPS

Our tarps are made from the finest materials, and by the finest factories around the world. All of our tarps are UV protected and rot proof for increased durability. Each tarp has rust proof grommets spaced 3 feet apart, perfect for any tie down application. We carry a light duty Blue tarp as well as a heavy duty Green/Black tarp.



| Size in Feet | Regular (Blue) | Heavy Duty (Green & Black) |
|--------------|----------------|----------------------------|
| 10 x 12      | 1400-2850      | 1400-2900                  |
| 10 x 20      | 1400-2950      | 1400-3000                  |
| 15 x 20      | 1400-3050      | 1400-3100                  |
| 15 x 30      | 1400-3150      | 1400-3200                  |
| 20 x 30      | 1400-3250      | 1400-3300                  |
| 20 x 40      | 1400-3350      | 1400-3400                  |
| 30 x 40      | 1400-3450      | 1400-3500                  |



MANILA ROPE



- Natural Fiber Rope made from the finest Philippine Abaca available
- High Abrasion Resistance
- Stretch Resistance
- Meets tensile Fed. Spec. TR605

| Stock Number | Size in Inches | Standard Length in Feet | Weight of Reel in Pounds | Breaking Strength in Pounds | Work Load Limit in Pounds |
|--------------|----------------|-------------------------|--------------------------|-----------------------------|---------------------------|
| 1900-10      | 1/4            | 1,250                   | 25                       | 540                         | 54                        |
| 1900-110     | 5/16           | 850                     | 25                       | 900                         | 90                        |
| 1900-210     | 3/8            | 600                     | 25                       | 1,215                       | 122                       |
| 1900-410     | 1/2            | 600                     | 45                       | 2,385                       | 265                       |
| 1900-610     | 5/8            | 600                     | 83                       | 3,960                       | 495                       |
| 1900-710     | 3/4            | 600                     | 100                      | 4,860                       | 694                       |
| 1900-810     | 1              | 600                     | 162                      | 8,100                       | 1,160                     |

BRAIDED CABLE PULLING ROPE

High force composite double braided rope with hand spliced eyes on both ends.



- Comes on a heavy-duty Amish wood spool for smooth dispensing from a cable pull stand
- Constructed of low-stretch polyester that will not snap back when load is relieved, eliminating the risk of serious injury
- Meets 4 to 1 standard for tensile strength, ensuring safety in high-tension commercial and industrial applications
- Compatible with most pulling machines for increased ease of pulling
- Slick fabric is easy on the hands and slides through rough areas with ease
- Cable lubrication recommended for increased viscosity in high traction areas



| Stock No. | Size in Inches | Standard Length in Feet | Work Load Limit in Pounds | Break Strength in Pounds | Weight in Pounds Per Reel |
|-----------|----------------|-------------------------|---------------------------|--------------------------|---------------------------|
| 1900-5030 | 1/2            | 300                     | 2,510                     | 2,510                    | 22.8                      |
| 1900-5020 | 1/2            | 600                     | 2,510                     | 2,510                    | 45.6                      |
| 1900-5015 | 1/2            | 1,200                   | 2,510                     | 2,510                    | 91.2                      |
| 1900-5050 | 9/16           | 300                     | 3,070                     | 3,070                    | 28.5                      |
| 1900-5040 | 9/16           | 600                     | 3,070                     | 3,070                    | 57.0                      |
| 1900-5035 | 9/16           | 1,200                   | 3,070                     | 3,070                    | 114.0                     |
| 1900-5070 | 5/8            | 300                     | 3,830                     | 3,830                    | 36.0                      |
| 1900-5060 | 5/8            | 600                     | 3,830                     | 3,830                    | 72.0                      |
| 1900-5055 | 5/8            | 1,200                   | 3,830                     | 3,830                    | 144.0                     |
| 1900-5090 | 3/4            | 300                     | 6,430                     | 6,430                    | 50.1                      |
| 1900-5080 | 3/4            | 600                     | 6,430                     | 6,430                    | 100.2                     |
| 1900-5075 | 3/4            | 1,200                   | 6,430                     | 6,430                    | 200.4                     |
| 1900-5110 | 7/8            | 300                     | 7,535                     | 7,535                    | 71.1                      |
| 1900-5100 | 7/8            | 600                     | 7,535                     | 7,535                    | 142.2                     |
| 1900-5095 | 7/8            | 1,200                   | 7,535                     | 7,535                    | 284.4                     |
| 1900-5130 | 1              | 300                     | 10,050                    | 10,050                   | 93.0                      |
| 1900-5120 | 1              | 600                     | 10,050                    | 10,050                   | 186.0                     |
| 1900-5115 | 1              | 1,200                   | 10,050                    | 10,050                   | 372.0                     |
| 1900-5145 | 1 1/8          | 300                     | 12,525                    | 12,525                   | 108.3                     |
| 1900-5140 | 1 1/8          | 600                     | 12,525                    | 12,525                   | 216.6                     |
| 1900-5135 | 1 1/8          | 1,200                   | 12,525                    | 12,525                   | 433.2                     |



## POLYPROPYLENE ROPE

Yellow rope is a floating, resistant to oil, gas and most chemicals. Polypropylene is rot proof, waterproof and has good resistance to abrasion. Poly has little stretch and good recovery rate. Poly is used in marine, industrial, sports, farm and home.

- Used for boating, camping, anchoring, docking, and more
- Floats
- Resistant to chemicals and rot
- UV resistant
- Available in a variety of colors

| Stock Number | Size in Inches | Standard Length in Feet | Weight of Reel in Pounds | Breaking Strength in Pounds | Work Load Limit in Pounds |
|--------------|----------------|-------------------------|--------------------------|-----------------------------|---------------------------|
| 1900-1310    | 1/4            | 600                     | 7                        | 1,250                       | 190                       |
| 1900-1300    | 1/4            | 100                     | 1.5                      | 1,250                       | 190                       |
| 1900-1510    | 5/16           | 600                     | 11                       | 1,900                       | 190                       |
| 1900-1710    | 3/8            | 600                     | 17                       | 2,700                       | 270                       |
| 1900-1700    | 3/8            | 100                     | 2.8                      | 2,700                       | 270                       |
| 1900-1810    | 1/2            | 600                     | 28                       | 4,200                       | 467                       |
| 1900-1790    | 1/2            | 100                     | 4.7                      | 4,200                       | 467                       |
| 1900-2010    | 5/8            | 600                     | 45                       | 6,200                       | 775                       |
| 1900-2210    | 3/4            | 600                     | 64                       | 8,500                       | 1,214                     |
| 1900-2410    | 1              | 600                     | 108                      | 14,000                      | 2,000                     |



## NYLON ROPE

Solid Braided Nylon Rope is provided on an easy to use reel convenient for storage. Solid braided rope strands all travel in the same direction, clockwise or counter clockwise, and alternate between forming the outside and inside of the rope. This construction is popular for general purpose utility rope. As a lock stitch constructed rope with a smooth appearance and small vertical picks, it is extremely strong and cannot be unraveled, even when cut.

- Ideal for universal use
- Flexible, strong and durable
- Resistant to mildew, rot, and chemicals
- High resistance to abrasion

| Stock Number | Size in Inches | Standard Length in Feet | Weight of Reel in Pounds | Breaking Strength in Pounds | Work Load Limit in Pounds |
|--------------|----------------|-------------------------|--------------------------|-----------------------------|---------------------------|
| 1900-2910    | 1/4            | 600                     | 9                        | 1,650                       | 138                       |
| 1900-2900    | 1/4            | 100                     | 1.5                      | 1,650                       | 138                       |
| 1900-3010    | 5/16           | 600                     | 15                       | 2,550                       | 213                       |
| 1900-3110    | 3/8            | 600                     | 21                       | 3,700                       | 308                       |
| 1900-3105    | 3/8            | 100                     | 3.5                      | 3,700                       | 308                       |
| 1900-3210    | 1/2            | 600                     | 39                       | 6,400                       | 582                       |
| 1900-3205    | 1/2            | 100                     | 6.5                      | 6,400                       | 582                       |
| 1900-3410    | 5/8            | 600                     | 63                       | 10,400                      | 1,040                     |
| 1900-3610    | 3/4            | 600                     | 87                       | 14,200                      | 1,578                     |
| 1900-3810    | 1              | 600                     | 158                      | 25,000                      | 2,778                     |



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Resources for lifting and safety use information:

- U.S. Department of Labor O.S.H.A (800)-321-OSHA x6742
- National Safety Council (800)-621-7615
- Commercial Vehicle Safety Association (800)-444-2973
- Web Sling & Tie Down Association (443)-640-1070 x110
- ASME B30.9 (Slings)
- ASME B30.10 (Hooks for lifting)
- ASME B30.20 (Below the hook lifting devices)
- ASME B30.26 (Hardware)

Safe working load, working load limit, and rated capacity, indicate maximum loads. Ratings apply to straight line pull unless otherwise specified. All ratings shown are based on new product used in normal operating conditions. Special considerations must be given to item selection when unusual conditions can be expected. Products are subject to wear, misuse, overloading, and deformation, which may result in a reduction of working load limit. We highly recommend that all products be regularly inspected. Worn or deformed items should be removed from service immediately.

It is the responsibility of the user to determine the suitability of a product for any particular use. Nelson Wire Rope Corporation is not responsible for damages resulting from misuse or misapplication of any product made by Nelson Wire Rope Corporation or distributed by Nelson Wire Rope Corporation.

Refer to all applicable industry, trade association, federal, state, and local regulation. Read all operating instructions and warnings carefully.



**NELSON**  
*wire rope*

|       |      |
|-------|------|
| SIZE  | 5/8  |
| REACH | 6    |
| TYPE  | SLSL |
| GRADE | 100  |
| LBS   | 8800 |
| °/HOR | 90   |



**WIRE ROPE / CHAIN / SYNTHETICS**  
**USA MADE LIFTING SLINGS**  
**RIGGING HARDWARE**  
**LIFTING DEVICES**  
**ON-SITE INSPECTIONS**  
**RIGGING TRAINING**  
**PULL TESTING**

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