



**WIRE ROPE,  
CHAIN, AND  
STEEL FITTINGS**

FOR LIFTING, PULLING, AND ANCHORING



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## Your Premier Supplier for Wire Rope, Chain, and Steel Components

A leading wholesaler, M&G Industries brings 50 years of expertise, experience, and vision to importing and supplying top-quality products for lifting, pulling, and anchoring applications.

With a vast inventory spanning rope, chain, and steel components, and a reputation for integrity and excellence, we have grown to become an industry leader. Operating solely as a wholesaler, we serve a far-reaching group of industries in the fields of automotive, agriculture, construction, marine, and more.

Whatever your needs, we can customize our products to meet them. We supply wire rope fabricators, regional distributors, industry-specific supply houses, and OEMs across North America.

### **50 YEARS STRONG**

Founded in 1974, M&G Industries consistently delivers best-in-class materials at the most competitive prices, while ensuring industry-leading delivery times. A key part of our mission is to help our clients succeed in growing their businesses. We develop strong client relationships, working with each company to find solutions to shipping challenges that may arise. With offices in Rhode Island, Illinois, and California, we are well positioned to provide immediate advice and assistance.

You can confidently choose M&G Industries for all your wire rope, chain, and steel component needs. Join us and experience the difference of working with a premier supplier.

### **WHY M&G INDUSTRIES?**

Our customers choose us time and time again for our competitive prices, prompt shipping, and unparalleled service. Here is what you can expect by collaborating with our team of experts.





All of our material is backed by a 100% “flaw free” guarantee.

### **ALWAYS COMPETITIVE PRICING**

In an evolving market, M&G stays abreast of market trends to ensure exceptional value for our customers. We are renowned for our proactive approach which pairs market insight with carefully vetted global suppliers, so you have access to world-class products at the most competitive prices.

### **FASTEST TO SHIP**

M&G Industries is frequently referred to as the “fastest to ship” within our industry, and it’s a distinction we wear with pride. Our team works hard to ensure that your specific needs are expedited promptly. We consistently update our technology and optimize our distribution network across strategic U.S. locations to guarantee swift order fulfillment.

### **ROBUST INVENTORY**

As a vital supplier for OEM businesses and a range of specific industries, we provide both general-purpose and specialized materials tailored to your needs. From construction needs to recreational marine equipment, safety compliance tools to logging industry essentials, the vast range of products we carry is unmatched. We keep thousands of SKUs and millions of dollars of product on hand, ready to ship to meet your needs. M&G can also supply container load quantities on a direct import basis for any items shown in our catalog, specialty items included.





## QUALITY YOU CAN COUNT ON

At M&G Industries, our commitment to quality is unwavering. All our material is backed by a 100% “flaw free” guarantee. We ensure that every product, whether it’s for automotive control cables or home gym systems, meets our high standards. Using only select suppliers ensures consistent quality for our customers, and we only use ISO certified manufacturers to supply us with our wire ropes and cables. All our products meet or exceed their respective Federal Standards and are rated accordingly.

## UNPARALLELED CUSTOMER SERVICE

We value our relationships and are committed to providing you with exceptional service. We stand by our products and believe you deserve a partner who is knowledgeable, responsive, and easy to deal with from start to finish. In the rare event that we learn a product isn’t meeting expectations, we will be the first to let you know and quick to do the right thing to resolve any issues.

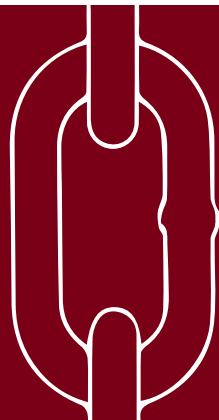
## INDUSTRIES SERVED

M&G Industries is dedicated to amplifying the success of our diverse clientele across various industries:

- AGRICULTURAL
- AUTOMOTIVE
- CONSTRUCTION
- COMMERCIAL MARINE
- RECREATIONAL MARINE
- HIGHWAY CHAIN and LIGHTING
- SAFETY
- SPORTS
- PUSH-PULL TECHNOLOGY
- TOWING
- TELECOMMUNICATIONS



**WIRED FOR  
SUCCESS  
JOIN THE  
M&G FAMILY!**



Experience the M&G difference today and discover why businesses across sectors turn to us for their wire rope, chain, and steel fitting needs.





# OUR LEADERSHIP: SPANNING SUCCESS OVER 50 YEARS



### THE FOUNDATION:

## Marty Rosenthal's Vision

In 1974, working the telephones out of his Rhode Island home, Marty Rosenthal planted the seeds of what would become a successful family-run business, M&G Industries. With a clear vision and boundless determination, Marty created a thriving company and industry leader that stands as a testament to his driven personality. He was among the first wholesalers to utilize the method of consolidating container loads from manufacturers to end consumers, catering to niches like logging and fishing distributors. Marty's hands-on approach fueled the company's growth, propelling it from a public warehouse to a bustling hub in East Providence, and laying the groundwork for the comprehensive supply chain leader M&G is today. The business soon expanded, adding a Chicago branch to its Rhode Island headquarters. Marty's passion and drive remained the cornerstone of the company. Sadly, his journey ended too soon, and his wife, Joan Rosenthal, stepped in to lead M&G, following his brave battle with cancer.



MARTY ROSENTHAL





JOAN ROSENTHAL

**THE TRANSITION:**

## Joan Rosenthal's Leadership and Modernization

Assuming control of the company after Marty's passing, Joan Rosenthal embarked on a transformative journey, for herself and for the company. She merged the Chicago and Rhode Island locations into a unified entity and embraced technology to streamline operations. In 1996, she relocated M&G Industries to Bristol, RI, constructing a new warehouse and implementing plans and procedures to bring M&G into the 21st Century. Joan's tenure was marked by increased functionality, a focus on delegation and making inventory accessible across locations. She nurtured the company's growth, preserving Marty's legacy while carving a path for the next generation of leadership.

**THE EXPANSION:**

## Brian York Ushers in a New Era

Joan's son, Brian York, grew up in the family business and returned to the company in 2001 with fresh perspectives and ambitious goals. In 2005, he spearheaded the opening of a third location in California, seamlessly integrating new and existing staff and ensuring a rapid inventory flow to meet demands. Brian was named President in 2012 while Joan transitioned into a more advisory role. Today, as General Manager of all three locations, Brian is the driving force behind M&G Industries. He oversees the company's strategic focus, product procurement, and technology investment. He is always alert to expansion opportunities that enable M&G to consistently deliver state-of-the-art services to our clients.

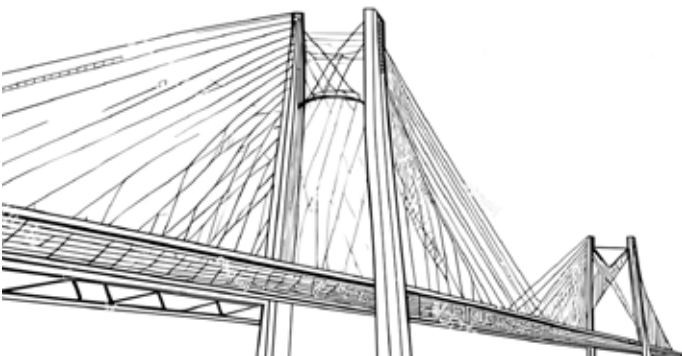


BRIAN YORK

**BRIDGING THE FUTURE:**

## A Legacy Continues

Spanning three generations and numerous transformations, M&G Industries stands as a testament to the power of vision, resilience, and innovation. From Marty's foundational work, Joan's modernization efforts, to Brian's expansive vision and management, each generation has played a pivotal role in shaping the company's journey. Together, they have woven a rich tapestry of success, ensuring that M&G Industries remains at the forefront of supplying essential products and in helping, inspiring, and informing our customers.





# GENERAL PURPOSE WIRE ROPES

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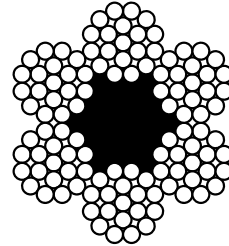
# BRIGHT WIRE ROPE

| SIZE ROPE DIAMETER | FIBER CORE (IPS)                  |                                  | IWRC (EIPS)                       |                                  |
|--------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds |
| 1/4"               | .105                              | 5,480                            | .116                              | 6,800                            |
| 5/16"              | .164                              | 8,520                            | .18                               | 10,540                           |
| 3/8"               | .236                              | 12,200                           | .26                               | 15,100                           |
| 7/16"              | .32                               | 16,540                           | .35                               | 20,400                           |
| 1/2"               | .42                               | 21,400                           | .46                               | 26,600                           |
| 9/16"              | .53                               | 27,000                           | .59                               | 33,600                           |
| 5/8"               | .66                               | 33,400                           | .72                               | 41,200                           |
| 3/4"               | .95                               | 47,600                           | 1.04                              | 58,800                           |
| 7/8"               | 1.29                              | 64,400                           | 1.42                              | 79,600                           |
| 1"                 | 1.68                              | 83,600                           | 1.85                              | 103,400                          |
| 1-1/8"             | 2.13                              | 105,200                          | 2.34                              | 130,000                          |
| 1-1/4"             | 2.63                              | 129,200                          | 2.89                              | 159,800                          |
| 1-3/8"             | 3.18                              | 155,400                          | 3.50                              | 192,000                          |
| 1-1/2"             | 3.78                              | 184,000                          | 4.16                              | 228,000                          |
| 1-5/8"             | 4.44                              | 214,000                          | 4.88                              | 264,000                          |
| 1-3/4"             | 5.15                              | 248,000                          | 5.67                              | 306,000                          |

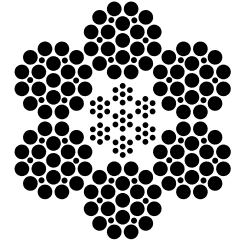
Sizes above 1-3/4 are available on a special-order basis.

| SIZE ROPE DIAMETER | FIBER CORE (IPS)                  |                                  | IWRC (EIPS)                       |                                  |
|--------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds |
| 1/4"               | .105                              | 5,480                            | .116                              | 6,800                            |
| 5/16"              | .164                              | 8,520                            | .18                               | 10,540                           |
| 3/8"               | .236                              | 12,200                           | .26                               | 15,100                           |
| 7/16"              | .32                               | 16,540                           | .35                               | 20,400                           |
| 1/2"               | .42                               | 21,400                           | .46                               | 26,600                           |
| 9/16"              | .53                               | 27,000                           | .59                               | 33,600                           |
| 5/8"               | .66                               | 33,400                           | .72                               | 41,200                           |
| 3/4"               | .95                               | 47,600                           | 1.04                              | 58,800                           |
| 7/8"               | 1.29                              | 64,400                           | 1.42                              | 79,600                           |
| 1"                 | 1.68                              | 83,600                           | 1.85                              | 103,400                          |
| 1-1/8"             | 2.13                              | 105,200                          | 2.34                              | 130,000                          |
| 1-1/4"             | 2.63                              | 129,200                          | 2.89                              | 159,800                          |
| 1-3/8"             | 3.18                              | 155,400                          | 3.50                              | 192,000                          |
| 1-1/2"             | 3.78                              | 184,000                          | 4.16                              | 228,000                          |
| 1-5/8"             | 4.44                              | 214,000                          | 4.88                              | 264,000                          |
| 1-3/4"             | 5.15                              | 248,000                          | 5.67                              | 306,000                          |
| 2"                 | 6.72                              | 320,000                          | 7.39                              | 348,000                          |
| 2-1/4"             | 8.51                              | 400,000                          | 9.36                              | 494,000                          |
| 2-1/2"             | 10.50                             | 488,000                          | 11.60                             | 604,000                          |

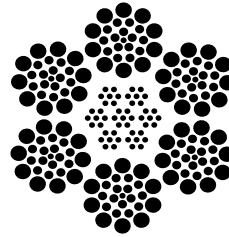
## WIRE ROPE 6X19 CLASS



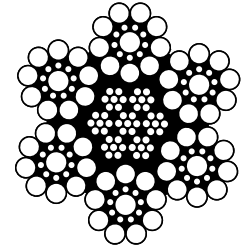
6x25 Filler Wire with Fiber Core



6x25 Filler Wire with IWRC

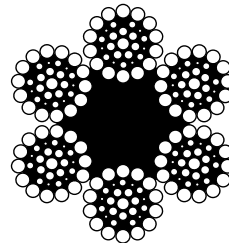


6x26 Warrington Seale with IWRC

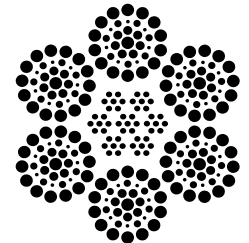


6x19 Warrington Seale with IWRC

## WIRE ROPE 6X37 CLASS



6x36 Warrington Seale with Fiber Core



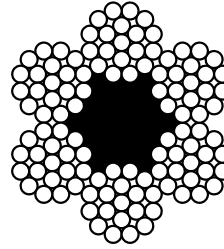
6x37 Warrington Seale with IWRC



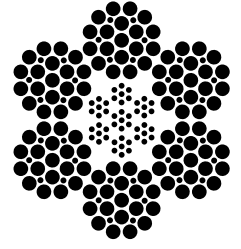
# GALVANIZED WIRE ROPE

| SIZE ROPE DIAMETER | FIBER CORE (IPS)                  |                                  | IWRC (EIPS)                       |                                  |
|--------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds |
| 1/4"               | 0.105                             | 4,940                            | 0.116                             | 6,120                            |
| 5/16"              | 0.164                             | 7,660                            | 0.18                              | 9,480                            |
| 3/8"               | 0.236                             | 10,980                           | 0.26                              | 13,600                           |
| 7/16"              | 0.32                              | 14,880                           | 0.35                              | 18,360                           |
| 1/2"               | 0.42                              | 19,260                           | 0.46                              | 24,000                           |
| 9/16"              | 0.53                              | 24,300                           | 0.59                              | 30,200                           |
| 5/8"               | 0.66                              | 30,000                           | 0.72                              | 37,000                           |
| 3/4"               | 0.95                              | 42,800                           | 1.04                              | 53,000                           |
| 7/8"               | 1.29                              | 48,000                           | 1.42                              | 71,600                           |
| 1"                 | 1.68                              | 75,200                           | 1.85                              | 93,000                           |
| 1-1/8"             | 2.13                              | 94,600                           | 2.34                              | 117,000                          |
| 1-1/4"             | 2.63                              | 116,200                          | 2.89                              | 143,800                          |
| 1-3/8"             | 3.18                              | 139,800                          | 3.50                              | 172,800                          |
| 1-1/2"             | 3.78                              | 165,600                          | 4.16                              | 206,000                          |

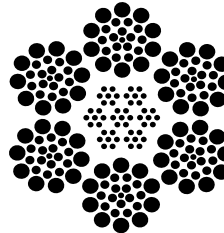
## WIRE ROPE 6X19 CLASS



6x25 Filler Wire with Fiber Core



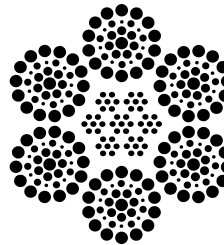
6x25 Filler Wire with IWRC



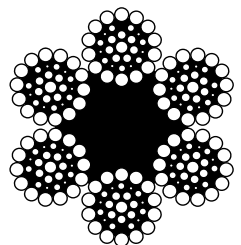
6x26 Warrington Seal with IWRC

| SIZE ROPE DIAMETER | FIBER CORE (IPS)                  |                                  | IWRC (EIPS)                       |                                  |
|--------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds |
| 1/4"               | 0.105                             | 4,940                            | 0.116                             | 6,120                            |
| 5/16"              | 0.164                             | 7,660                            | 0.18                              | 9,480                            |
| 3/8"               | 0.236                             | 10,980                           | 0.26                              | 13,600                           |
| 7/16"              | 0.32                              | 14,880                           | 0.35                              | 18,360                           |
| 1/2"               | 0.42                              | 19,260                           | 0.46                              | 24,000                           |
| 9/16"              | 0.53                              | 24,300                           | 0.59                              | 30,200                           |
| 5/8"               | 0.66                              | 30,000                           | 0.72                              | 37,000                           |
| 3/4"               | 0.95                              | 42,800                           | 1.04                              | 53,000                           |
| 7/8"               | 1.29                              | 48,000                           | 1.42                              | 71,600                           |
| 1"                 | 1.68                              | 75,200                           | 1.85                              | 93,000                           |
| 1-1/8"             | 2.13                              | 94,600                           | 2.34                              | 117,000                          |
| 1-1/4"             | 2.63                              | 116,200                          | 2.89                              | 143,800                          |
| 1-3/8"             | 3.18                              | 139,800                          | 3.50                              | 172,800                          |
| 1-1/2"             | 3.78                              | 165,600                          | 4.16                              | 206,000                          |

## WIRE ROPE 6X37 CLASS



6x36 Warrington Seal with Fiber Core



6x36 Warrington Seal with IWRC

Sizes above 1-1/2 are typically available on a special-order basis.

ALL DRAWN GALVANIZED ROPES meet the Bright Rope MBS on the previous page. All materials produced according to ASTM A1023 and FS RR-W-410 (current), preformed, right regular lay. Read important warnings and information on the inside back cover of this catalog titled Cautions.



# SPECIALTY WIRE ROPES

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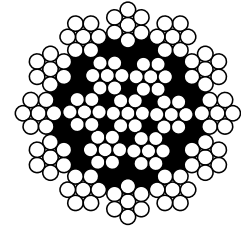


# NON-ROTATING & SPIN RESISTANT

| SIZE ROPE DIAMETER | 19X7 IWRC NR BRT EIPS             |                                  |
|--------------------|-----------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds |
| 1/4"               | 0.133                             | 5,540                            |
| 5/16"              | 0.177                             | 8,600                            |
| 3/8"               | 0.25                              | 12,300                           |
| 7/16"              | 0.35                              | 16,660                           |
| 1/2"               | 0.45                              | 21,600                           |
| 9/16"              | 0.58                              | 27,200                           |
| 5/8"               | 0.71                              | 33,600                           |
| 3/4"               | 1.02                              | 48,000                           |
| 7/8"               | 1.39                              | 65,000                           |

According to ASTM A1023 & FS RR-410(current).  
 Non-Rotating IWRC, BRT, medium lube, preformed, EIPS.  
 Certain sizes available in Galvanized and Stainless Steel

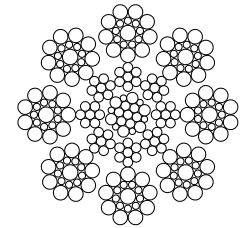
## ROTATION RESISTANT WIRE ROPE



19x7 Non-rotating Wire Strand Core  
 GLV & SS Also Available

| SIZE ROPE DIAMETER | 8X19S IWRC SR BRT EIPS            |                                  |
|--------------------|-----------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds |
| 8 MM               | .1872                             | 10,540                           |
| 9 MM               | .23                               | 11,700                           |
| 11 MM              | .35                               | 17,940                           |
| 12 MM              | .41                               | 20,900                           |
| 12.5 MM            | .0495                             | 23,200                           |
| 14 MM              | .59                               | 29,400                           |

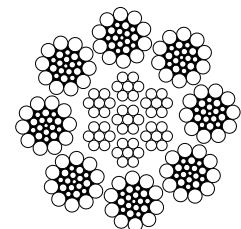
## METRIC SPIN RESISTANT BRT EIPS



8x19(s) SR BRT EIPS

| SIZE ROPE DIAMETER | 8X25 IWRC SR BRT EIPS             |                                  |
|--------------------|-----------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds |
| 3/8"               | .281                              | 13,200                           |
| 7/16"              | .36                               | 18,000                           |
| 1/2"               | .502                              | 23,200                           |
| 9/16"              | .61                               | 29,400                           |

## IMPERIAL SPIN RESISTANT BRT EIPS



8x25 SR BRT EIPS

These wire ropes are specially designed for use when rotation must be kept to a minimum. Strict adherence to breaking-in procedures and proper handling during use are extremely important with these ropes.

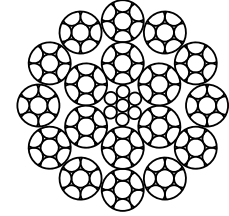


# COMPACTED STRAND



| SIZE ROPE DIAMETER | 19X7 IWRC CS BRT NON-ROTATING 2160KN EEIPS |                                  |
|--------------------|--|----------------------------------|
|                    | Approx. Weight per Foot in Pounds          | Min. Breaking Strength in Pounds |
| 5/16"              | .27  | 12,760                           |
| 3/8"               | .31  | 16,600                           |
| 7/16"              | .44  | 22,400                           |
| 1/2"               | .55  | 29,200                           |

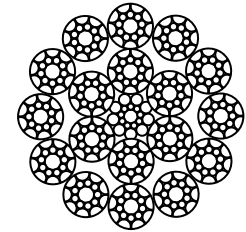
## ROTATION RESISTANT COMPACTED 7 STRAND



19x7 CS

| SIZE ROPE DIAMETER | 19X19 WSC CS BRT NON-ROTATING     |                                  |         |
|--------------------|-----------------------------------|----------------------------------|---------|
|                    | Approx. Weight per Foot in pounds | Min. Breaking Strength in Pounds |         |
|                    |                                   | EIPS                             | EEIPS   |
| 1/2"               | .52                               | 26,600                           | 29,200  |
| 9/16"              | .61                               | 33,600                           | 37,000  |
| 5/8"               | .797                              | 41,200                           | 45,400  |
| 3/4"               | 1.12                              | 58,800                           | 64,800  |
| 7/8"               | 1.50                              | 79,600                           | 87,600  |
| 1"                 | 2.10                              | 103,400                          | 113,800 |

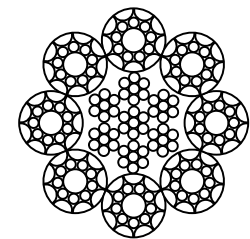
## ROTATION RESISTANT COMPACTED 19 STRAND



19x19 CS

| SIZE ROPE DIAMETER | 8X19 WSC CS BRT NON-ROTATING      |                                  |         |
|--------------------|-----------------------------------|----------------------------------|---------|
|                    | Approx. Weight per Foot in pounds | Min. Breaking Strength in Pounds |         |
|                    |                                   | EIPS                             | EEIPS   |
| 1/2"               | .52                               | 26,600                           | 29,200  |
| 9/16"              | .61                               | 33,600                           | 37,000  |
| 5/8"               | .797                              | 41,200                           | 45,400  |
| 3/4"               | 1.12                              | 58,800                           | 64,800  |
| 7/8"               | 1.50                              | 79,600                           | 87,600  |
| 1"                 | 2.10                              | 103,400                          | 113,800 |

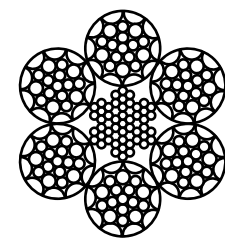
## ROTATION RESISTANT COMPACTED 8 STRAND



8x19 CS

| SIZE ROPE DIAMETER | 6X26/31/36 IWRC COMPACTED STRAND BRT |                                  |         |
|--------------------|--------------------------------------|----------------------------------|---------|
|                    | Approx. Weight per Foot in pounds    | Min. Breaking Strength in Pounds |         |
|                    |                                      | EIPS                             | EEIPS   |
| 1/2"               | .52                                  | 29,200                           | 32,200  |
| 9/16"              | .61                                  | 37,000                           | 40,800  |
| 5/8"               | .797                                 | 45,400                           | 50,000  |
| 3/4"               | 1.12                                 | 64,800                           | 71,200  |
| 7/8"               | 1.50                                 | 87,600                           | 96,400  |
| 1"                 | 2.10                                 | 113,800                          | 125,200 |

## COMPACTED 6 STRAND



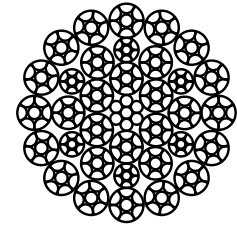
6x26 CS



# COMPACTED STRAND

| SIZE ROPE DIAMETER | 35X7 WSC CS BRT NON-ROTATING EIPS RLL 1960 KN |                                  |
|--------------------|---|----------------------------------|
|                    | Approx. Weight per Foot in Pounds             | Min. Breaking Strength in Pounds |
| 9/16"              | 0.655   | 39,400                           |
| 5/8"               | 0.867   | 50,400                           |
| 3/4"               | 1.2   | 69,000                           |
| 7/8"               | 1.61  | 94,400                           |
| 1"                 | 2.1   | 124,800                          |

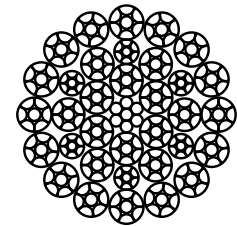
## COMPACTED 35 STRAND



35 X 7 EIPS BRT

| SIZE ROPE DIAMETER | 35X7 WSC CS DGLV NON-ROTATING EEIPS RLL 2160KN |                                  |
|--------------------|--|----------------------------------|
|                    | Approx. Weight per Foot in Pounds              | Min. Breaking Strength in Pounds |
| 16 MM              | 0.85   | 56,427                           |
| 18 MM              | 1.08   | 69,241                           |
| 19 MM              | 1.21   | 77,334                           |
| 22 MM              | 1.62   | 104,761                          |
| 24 MM              | 1.92   | 124,769                          |

## COMPACTED 35 STRAND



35 X 7 EEIPS GALVANIZED

These wire ropes are specially designed for use when rotation must be kept to a minimum. Strict adherence to breaking-in procedures and proper handling during use are extremely important with these ropes.



# CABLE LAID WIRE ROPES

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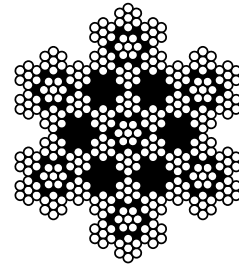




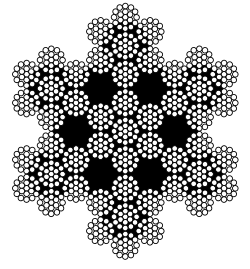
# CABLE-LAID

| SIZE ROPE<br>DIAMETER | CABLE-LAID WIRE ROPE |                                   |                                |
|-----------------------|----------------------|-----------------------------------|--------------------------------|
|                       | Construction         | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Tons |
| 3/8"                  | 7x7x7                | 0.21                              | 5.7                            |
| 1/2"                  | 7x7x7                | 0.37                              | 9.75                           |
| 5/8"                  | 7x7x7                | 0.58                              | 14.6                           |
| 3/4"                  | 7x7x19               | 0.88                              | 21.4                           |
| 7/8"                  | 7x7x19               | 1.19                              | 28.4                           |
| 1"                    | 7x7x19               | 1.56                              | 36.2                           |
| 1-1/8"                | 7x7x19               | 1.94                              | 44.7                           |
| 1-1/4"                | 7x7x19               | 2.39                              | 53.7                           |

## CABLE-LAID WIRE ROPE



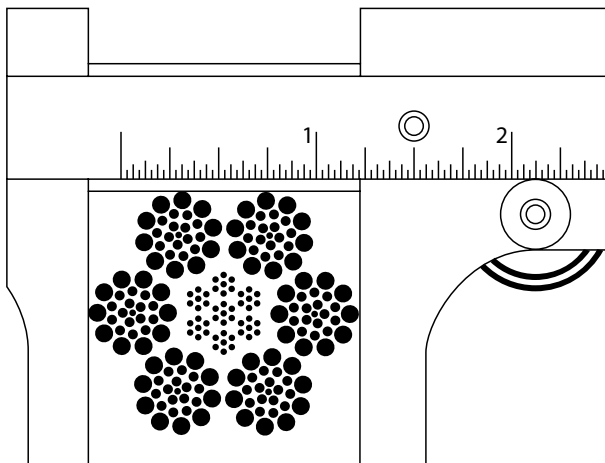
7x7x7



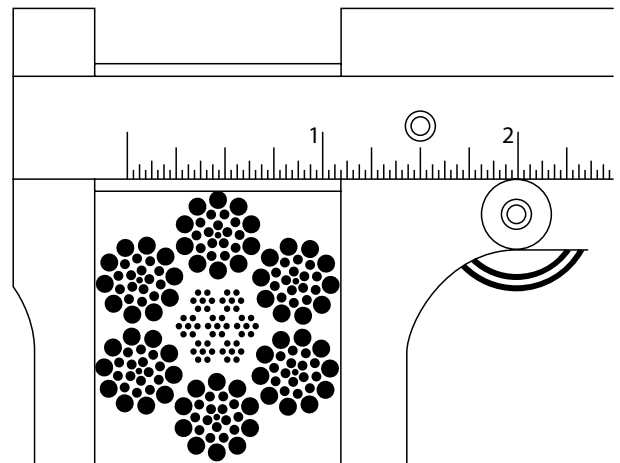
7x7x19

To be used for mechanical swaged slings only.

### Correct



### Incorrect



#### DIAMETER OF WIRE ROPE

The diameter of wire rope is the diameter of the circle which encloses all the wires. When measuring wire rope it is important to take the greatest distance of the outer limits of the "crown" of two opposite strands. A measurement across the valleys will result in incorrect lower readings.



# COMMERCIAL FISHING WIRE ROPES

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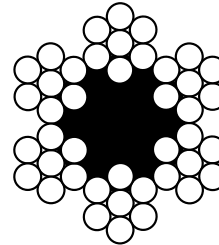


# COMMERCIAL FISHING

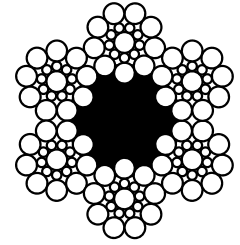
| SIZE ROPE DIAMETER | 6X7 PPC IPS GALVANIZED            |                                  | 6X19/26 PPC IPS/EIPS              |                                  |
|--------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds |
| 1/4"               | 0.094                             | 4,760                            | 0.105                             | 4,940                            |
| 5/16"              | 0.15                              | 7,380                            | 0.164                             | 7,660                            |
| 3/8"               | 0.21                              | 10,540                           | 0.236                             | 10,980                           |
| 7/16"              | 0.29                              | 14,280                           | 0.320                             | 14,880                           |
| 1/2"               | 0.38                              | 18,540                           | 0.420                             | 19,260                           |
| 9/16"              | 0.48                              | 23,400                           | 0.530                             | 24,300                           |
| 5/8"               | 0.59                              | 28,600                           | 0.660                             | 30,000                           |
| 11/16"             | -                                 | -                                | 0.810                             | 36,300                           |
| 3/4"               | 0.84                              | 40,800                           | 0.950                             | 42,800                           |
| 13/16"             | -                                 | -                                | 1.110                             | 50,010                           |
| 7/8"               | 1.15                              | 53,800                           | 1.290                             | 58,000                           |
| 1"                 | 1.50                              | 69,600                           | 1.680                             | 75,200                           |
| 1-1/8"             | 1.90                              | 87,400                           | 2.130                             | 94,600                           |

## TRAWLMASTER

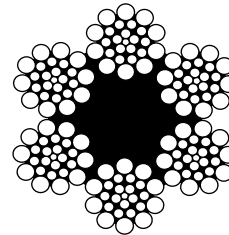
"The brand fishermen ask for by name."



6x7 PPC IPS Galvanized



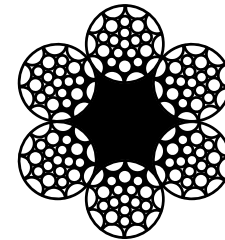
6x19S IPS Galvanized



6x26 WS PPC EIPS Galvanized

| SIZE ROPE DIAMETER | 6X19S COMPACTED STRAND PPC GALVANIZED |                                  |
|--------------------|---------------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds     | Min. Breaking Strength in Pounds |
| 10 MM              | 0.40                                  | 15,400                           |
| 12 MM              | 0.45                                  | 22,100                           |
| 13 MM              | 0.53                                  | 25,800                           |
| 14 MM              | 0.58                                  | 30,600                           |
| 16 MM              | 0.723                                 | 39,500                           |
| 18 MM              | 0.915                                 | 49,800                           |
| 20 MM              | 1.11                                  | 61,500                           |
| 22 MM              | 1.26                                  | 74,500                           |
| 24 MM              | 1.56                                  | 88,600                           |
| 26 MM              | 1.76                                  | 102,500                          |
| 28 MM              | 2.04                                  | 122,600                          |

## BLUEMASTER COMPACTED STRAND

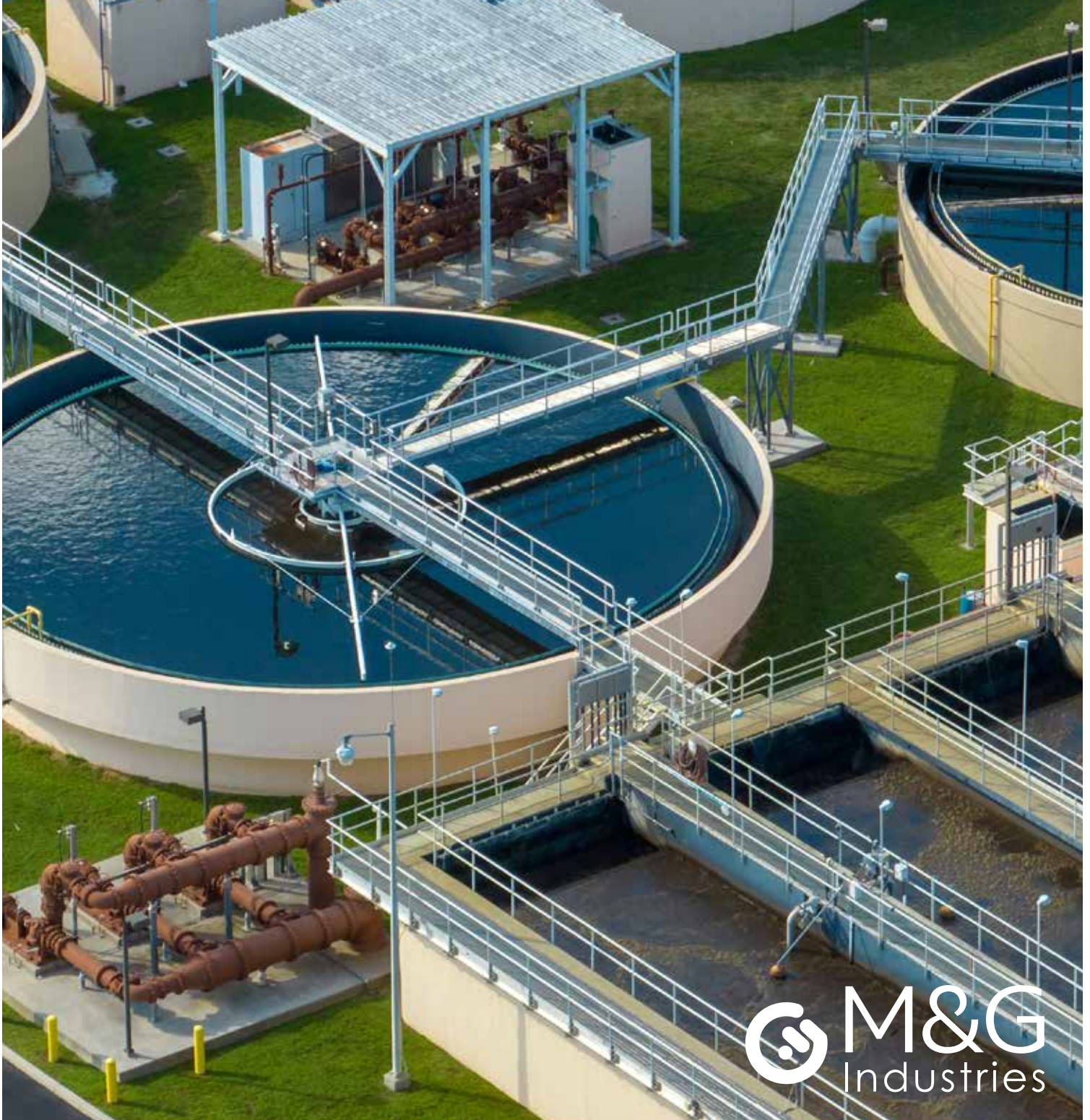


6x19S Compacted Strand PPC Galvanized



# STAINLESS STEEL WIRE ROPES

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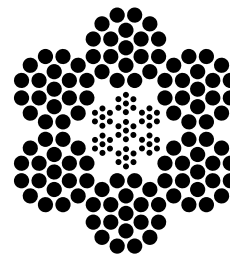




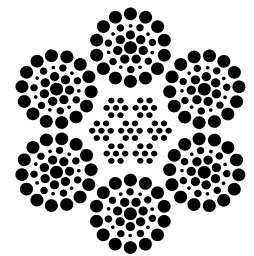


| SIZE ROPE DIAMETER | 6X19/25 STAINLESS STEEL WIRE ROPE - TYPE 304 |                                  | 6X36 STAINLESS STEEL WIRE ROPE - TYPE 304 |                                  |
|--------------------|--|----------------------------------|---|----------------------------------|
|                    | Approx. Weight per Feet in Pounds            | Min. Breaking Strength in Pounds | Approx. Weight per Feet in Pounds         | Min. Breaking Strength in Pounds |
| .030"              | 0.7  | 110                              | -   | -                                |
| 3/64"              | 4.2  | 270                              | -   | -                                |
| 1/16"              | 7.5  | 480                              | 7.5                                       | 480                              |
| 5/64"              | 11.0   | 650                              | 11.0                                      | 650                              |
| 3/32"              | 16.0   | 920                              | 17.0                                      | 920                              |
| 1/8"               | 28.0   | 1,760                            | 29.0                                      | 1,760                            |
| 5/32"              | 43.0   | 2,400                            | 45.0                                      | 2,400                            |
| 3/16"              | 62.0   | 3,700                            | 65.0                                      | 3,700                            |
| 7/32"              | 86.0   | 5,000                            | 86.0                                      | 5,000                            |
| 1/4"               | 106.0  | 6,400                            | 110.0                                     | 6,400                            |
| 9/32"              | -  | -                                | 150.0                                     | 7,800                            |
| 5/16"              | 173.0  | 9,000                            | 173.0                                     | 9,000                            |
| 3/8"               | 243.0  | 12,000                           | 243.0                                     | 12,000                           |

## TYPE 304 WIRE ROPE / STAINLESS STEEL



6x19/25 Stainless Steel Wire Rope



6x36 Stainless Steel Wire Rope

According to Federal Specifications RR-W-410(current).  
 All material produced to according to ASTM standards A492  
 Read important warnings and information on the inside back cover of  
 this catalog titled Cautions.



Our stainless steel has added corrosion resistance. This characteristic makes stainless steel perfect for high moisture and acidic environments, such as in marine rigging applications or job sites with harsh chemicals like chlorine.



# GALVANIZED CABLE

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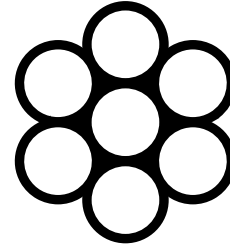


# GALVANIZED CABLE

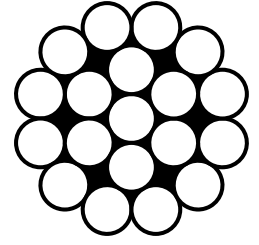


## 1X7/1X19 GALVANIZED CABLE

| SIZE ROPE DIAMETER | 1X7 GALVANIZED CABLE  |                           | 1X19 GALVANIZED CABLE |                           |
|--------------------|-----------------------|---------------------------|-----------------------|---------------------------|
|                    | Weight per 1000 Ft/lb | Min. Breaking Strength/lb | Weight per 1000 Ft/lb | Min. Breaking Strength/lb |
| 1/64"              | 0.06                  | 40                        | -                     | -                         |
| 1/23"              | 0.25                  | 185                       | -                     | -                         |
| 3/64"              | 0.55                  | 375                       | -                     | -                         |
| 1/16"              | 0.85                  | 500                       | 0.85                  | 500                       |
| 5/64"              | 14.0                  | 800                       | 14.0                  | -                         |
| 3/32"              | 20.0                  | 1,200                     | 20.0                  | 1,200                     |
| 7/64"              | 27.0                  | 1,600                     | 27.0                  | -                         |
| 1/8"               | 35.0                  | 2,100                     | 35.0                  | 2,100                     |
| 5/32"              | -                     | -                         | 55.0                  | 3,300                     |
| 3/16"              | -                     | -                         | 77.0                  | 4,700                     |
| 1/4"               | -                     | -                         | 135.0                 | 8,200                     |
| 5/16"              | -                     | -                         | 210.0                 | 12,500                    |
| 3/8"               | -                     | -                         | 300.0                 | 18,000                    |



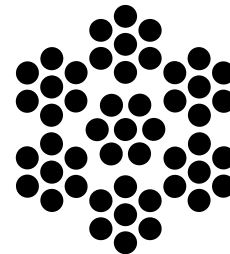
1x7 Galvanized



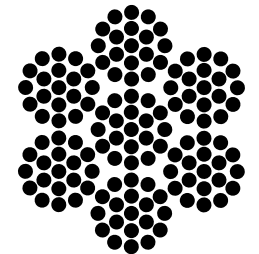
1x19 Galvanized

## 7X7/7X19 GALVANIZED CABLE

| SIZE ROPE DIAMETER | 7X7 GALVANIZED CABLE              |                                  | 7X19 GALVANIZED CABLE             |                                  |
|--------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds | Approx. Weight per Foot in Pounds | Min. Breaking Strength in Pounds |
| 1/16" *            | 7.5                               | 480                              | -                                 | -                                |
| 5/64" *            | 11.0                              | 650                              | -                                 | -                                |
| 3/32" *            | 16.0                              | 920                              | 17.4                              | 1,000                            |
| 1/8"               | 28.5                              | 1,700                            | 29.0                              | 2,000                            |
| 5/32"              | 43.0                              | 2,600                            | 45.0                              | 2,800                            |
| 3/16"              | 62.0                              | 3,700                            | 65.0                              | 4,200                            |
| 7/32" *            | 86.0                              | 4,800                            | 86.0                              | 5,600                            |
| 1/4" *             | 106.0                             | 6,100                            | 110.0                             | 7,000                            |
| 5/16" *            | 167.0                             | 9,200                            | 173.0                             | 9,800                            |
| 3/8" *             | 236.0                             | 13,300                           | 243.0                             | 14,400                           |



7x7 Galvanized



7x19 Galvanized

Minimum Breaking Strength for comparison only. Actual operating loads may vary, but should never exceed recommended design factor or 1/7 of catalog breaking strength.

\* Listed for comparison only. Actual Factors vary between 6:1 and 3:1 depending on application.

Read important warnings and information on the inside back cover of this catalog titled Cautions



# STAINLESS STEEL CABLE

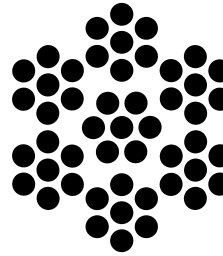
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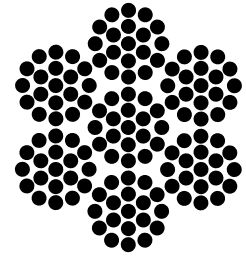
# STAINLESS STEEL CABLE

| SIZE ROPE DIAMETER | 7X7 STAINLESS STEEL CABLE - TYPE 304 |                                  | 7X19 STAINLESS STEEL CABLE - TYPE 304 |                                  |
|--------------------|--------------------------------------|----------------------------------|---------------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds    | Min. Breaking Strength in Pounds | Approx. Weight per Foot in Pounds     | Min. Breaking Strength in Pounds |
| .030"              | 0.7                                  | 110                              | -                                     | -                                |
| 3/64"              | 4.2                                  | 270                              | -                                     | -                                |
| 1/16"              | 7.5                                  | 480                              | 7.5                                   | 480                              |
| 3/32"              | 16.0                                 | 920                              | 17.0                                  | 920                              |
| 1/8"               | 28.0                                 | 1,760                            | 29.0                                  | 1,760                            |
| 5/32"              | 43.0                                 | 2,400                            | 45.0                                  | 2,400                            |
| 3/16"              | 62.0                                 | 3,700                            | 65.0                                  | 3,700                            |
| 7/32"              | 86.0                                 | 5,000                            | 86.0                                  | 5,000                            |
| 1/4"               | 106.0                                | 6,400                            | 110.0                                 | 6,400                            |
| 5/16"              | 173.0                                | 9,000                            | 173.0                                 | 9,000                            |
| 3/8"               | 243.0                                | 12,000                           | 243.0                                 | 12,000                           |

## TYPE 304 STAINLESS STEEL CABLE



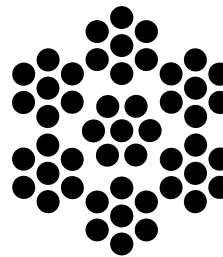
7x7 Stainless Steel



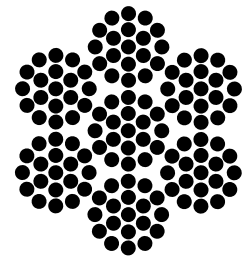
7x19 Stainless Steel

| SIZE ROPE DIAMETER | 7X7 STAINLESS STEEL CABLE - TYPE 316 |                                  | 7X19 STAINLESS STEEL CABLE - TYPE 316 |                                  |
|--------------------|--------------------------------------|----------------------------------|---------------------------------------|----------------------------------|
|                    | Approx. Weight per Foot in Pounds    | Min. Breaking Strength in Pounds | Approx. Weight per Foot in Pounds     | Min. Breaking Strength in Pounds |
| 3/64"              | 4.2                                  | 240                              | -                                     | -                                |
| 1/16"              | 7.5                                  | 427                              | 7.5                                   | 427                              |
| 3/32"              | 16.5                                 | 819                              | 16.5                                  | 819                              |
| 1/8"               | 28.5                                 | 1,566                            | 29.0                                  | 1,566                            |
| 3/16"              | 86.0                                 | 3,293                            | 65.0                                  | 3,293                            |
| 1/4"               | 106.0                                | 5,696                            | 110.0                                 | 5,696                            |
| 9/32"              | 150.0                                | 6,942                            | 150.0                                 | 6,942                            |
| 5/16"              | 173.0                                | 8,010                            | 173.0                                 | 8,010                            |
| 3/8"               | 243.0                                | 10,680                           | 243.0                                 | 11,000                           |
| 7/16"              | 295                                  | 14,507                           | 295                                   | 14,507                           |
| 1/2"               | 425                                  | 18,987                           | 425                                   | 20,292                           |

## TYPE 316 STAINLESS STEEL CABLE



7x7 Stainless Steel



7x19 Stainless Steel

Listed for comparison only. Actual operating loads may vary but should never exceed recommended design factor or 20% of catalog breaking strength.

According to Federal Specifications RR-W-410(current).

All material produced to according to ASTM standards A492

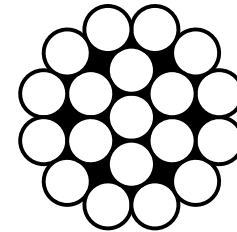
Read important warnings and information on the inside back cover of this catalog titled Cautions.



# STAINLESS STEEL CABLE

## STAINLESS STEEL CABLE

| SIZE ROPE<br>DIAMETER | 1X19 STAINLESS STEEL STRAND          |                                   |          |
|-----------------------|--------------------------------------|-----------------------------------|----------|
|                       | Approx. Weight per<br>Foot in Pounds | Approx. Weight per Foot in Pounds |          |
|                       |                                      | Type 304                          | Type 316 |
| 1/32"                 | 0.7                                  | 150                               | 134      |
| 3/64"                 | 7.2                                  | 375                               | 297      |
| 1/16"                 | 8.5                                  | 500                               | 445      |
| 5/64"                 | 14.0                                 | 800                               | 712      |
| 3/32"                 | 20.0                                 | 1,200                             | 1,068    |
| 1/8"                  | 35.0                                 | 2,100                             | 1,869    |
| 5/32"                 | 55.0                                 | 3,300                             | 2,937    |
| 4 MM                  | 55.0                                 | 3,336                             | 2,965    |
| 3/16"                 | 77.0                                 | 4,700                             | 4,183    |
| 5 MM                  | 80.0                                 | 5,212                             | 4,632    |
| 7/32"                 | 102.0                                | 6,300                             | 5,607    |
| 6 MM                  | 124.0                                | 7,505                             | 6,671    |
| 1/4"                  | 135.0                                | 8,200                             | 7,298    |
| 7 MM                  | 168.0                                | 10,214                            | 9,079    |
| 9/32"                 | 170.0                                | 10,406                            | 9,261    |
| 5/16"                 | 210.0                                | 12,500                            | 11,125   |
| 8 MM                  | 220.0                                | 13,340                            | 11,859   |
| 3/8"                  | 300.0                                | 17,500                            | 15,575   |
| 10 MM                 | 330.0                                | 20,845                            | 18,528   |
| 7/16"                 | 375.0                                | 22,500                            | 20,025   |
| 12 MM                 | 480.0                                | 30,016                            | 26,680   |
| 1/2"                  | 540.0                                | 28,220                            | 25,116   |
| 14 MM                 | 600.0                                | 40,856                            | 36,317   |
| 9/16"                 | 690.0                                | 32,190                            | 28,649   |
| 5/8"                  | 860.0                                | 40,570                            | 36,107   |
| 16 MM                 | 860.0                                | 53,363                            | 45,195   |
| 3/4 1000              | -                                    | 51,717                            | -        |



1x19 Stainless  
Steel Strand

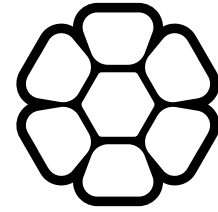
According to Federal Specifications RR-W-410(current).  
 All material produced to according to ASTM standards A492  
 Read important warnings and information on the inside back cover of  
 this catalog titled Cautions.

# STAINLESS STEEL CABLE



| SIZE ROPE DIAMETER | 1X7 STAINLESS STEEL 316 COMPACTED STRAND |                                  |
|--------------------|--|----------------------------------|
|                    | Approx. Weight per 1000 Feet in Pounds   | Min. Breaking Strength in Pounds |
| 2 MM               | 16                                       | 974                              |
| 2.5 MM             | 25                                       | 1,521                            |
| 3 MM               | 37                                       | 2,205                            |
| 4 MM               | 65                                       | 3,924                            |

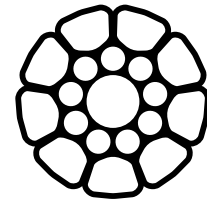
## STAINLESS STEEL COMPACTED STRAND



1x7 Stainless Steel 316  
Compacted Strand

| SIZE ROPE DIAMETER | 1X19 STAINLESS STEEL 316 COMPACTED STRAND |                                  |
|--------------------|---|----------------------------------|
|                    | Approx. Weight per 1000 Feet in Pounds    | Min. Breaking Strength in Pounds |
| 5 MM               | 101                                       | 5,379                            |
| 6 MM               | 147                                       | 7,826                            |
| 7 MM               | 195                                       | 10,825                           |
| 8 MM               | 256                                       | 13,558                           |
| 10 MM              | 402                                       | 21,539                           |
| 12 MM              | 544                                       | 31,747                           |
| 14 MM              | 600                                       | 43,416                           |
| 16 MM              | 850                                       | 45,195                           |
| 19 MM              | 1100                                      | 70,548                           |

## STAINLESS STEEL COMPACTED STRAND



1x19 Stainless Steel 316  
Compacted Strand

Read important warnings and information on the inside back cover of this catalog titled Cautions.

All material produced to according to ASTM A492 standards



# VINYL COATED CABLE

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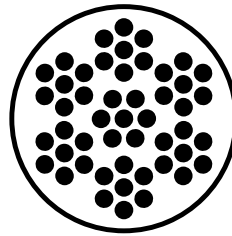


# VINYL COATED CABLE

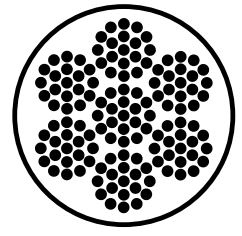


| DIAMETER | VINYL COATED GALVANIZED CABLE |  |                                   |              |
|----------|-------------------------------|--|-----------------------------------|--------------|
|          | Coated to                     | Approx. Weight per 1000 Foot in Pounds | Min. Breaking Strength in Pounds* | Construction |
| 1/16" ** | 3/32                          | 9.3                                    | 480                               | 7x7          |
| 1/16" *  | 1/8                           | 11.8                                   | 480                               | 7x7          |
| 3/32" *  | 1/8                           | 18.5                                   | 920                               | 7x7          |
| 3/32" *  | 3/16                          | 25.8                                   | 920                               | 7x7          |
| 1/8" *   | 3/16                          | 35.2                                   | 1,700                             | 7x7          |
| 3/32" *  | 1/8                           | 19.9                                   | 1,000                             | 7x19         |
| 1/8" *   | 3/16                          | 35.2                                   | 2,000                             | 7x19         |
| 3/16" *  | 1/4                           | 77.5                                   | 4,200                             | 7x19         |
| 1/4" *   | 5/16                          | 123.0                                  | 7,000                             | 7x19         |
| 5/16" *  | 3/8                           | 197.0                                  | 9,800                             | 7x19         |
| 3/8" *   | 7/16                          | 270.0                                  | 14,400                            | 7x19         |

## GALVANIZED VINYL COATED CABLE



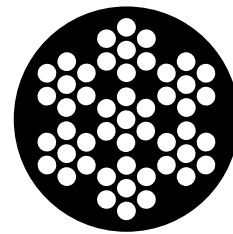
7x7 Galvanized Vinyl



7x19 Galvanized Vinyl

| SIZE ROPE DIAMETER | 7X7 SS 304 LIFE-LINE |  |                              |
|--------------------|----------------------|--|------------------------------|
|                    | Construction         | Approx. Weight per 1000 Foot in Pounds | Breaking Strength in Pounds* |
| 1/16"              | 1/8"                 | 13.0                                   | 480                          |
| 3/32"              | 1/8"                 | 20.0                                   | 920                          |
| 1/8"               | 3/16"                | 39.0                                   | 1,700                        |
| 1/8"               | 7/32"                | 39.0                                   | 1,700                        |
| 1/8"               | 1/4"                 | 51.0                                   | 1,700                        |
| 3/16"              | 1/4"                 | 80.0                                   | 3,700                        |
| 3/16"              | 5/16"                | 91.0                                   | 3,700                        |
| 3/16"              | 3/8"                 | 112.0                                  | 3,700                        |
| 1/4"               | 3/8"                 | 142.0                                  | 6,100                        |

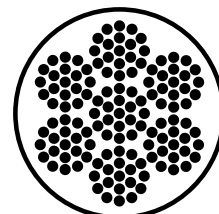
## WHITE JACKETED LIFE-LINE CABLE



7x7 SS 304 Life-

| SIZE ROPE DIAMETER | VINYL COATED STAINLESS CABLE TYPE 304 |  |                             |              |
|--------------------|---------------------------------------|--|-----------------------------|--------------|
|                    | Coated to                             | Approx. Weight per 1000 Foot in Pounds | Breaking Strength in Pounds | Construction |
| 1/8" *             | 3/16                                  | 36.2                                   | 1,760                       | 7x19         |
| 3/16" *            | 1/4                                   | 77.5                                   | 3,700                       | 7x19         |
| 1/4" *             | 5/16                                  | 123.0                                  | 6,400                       | 7x19         |
| 5/16" *            | 3/8                                   | 197.0                                  | 9,000                       | 7x19         |
| 3/8" *             | 7/16                                  | 270.0                                  | 12,000                      | 7x19         |

## VINYL COATED STAINLESS STEEL CABLE



Vinyl Coated Stainless

\* Listed for comparison only. Actual operating loads may vary, but should never exceed recommended design factor or 1/7 of catalog breaking strength. \*\* Listed for comparison only. Actual Factors vary between 6:1 and 3:1 depending on application.



# EXTRA HIGH STRENGTH GALVANIZED STRAND

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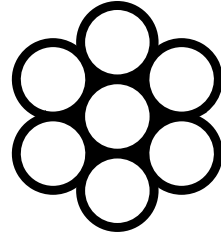




# EXTRA HIGH STRENGTH GALVANIZED STRAND

| SIZE ROPE DIAMETER | 1X7 GALVANIZED GUY STRAND EHS          |                               |
|--------------------|--|-------------------------------|
|                    | Approx. Weight per 1000 Feet in Pounds | Breaking Strength in Pounds** |
| 3/16"              | 73                                     | 3,990                         |
| 1/4"               | 121                                    | 6,650                         |
| 5/16"              | 205                                    | 11,200                        |
| 3/8"               | 273                                    | 15,400                        |
| 1/2"               | 517                                    | 26,900                        |
| 26 MM              | 1.76                                   | 102,500                       |
| 28 MM              | 2.04                                   | 122,600                       |

## GALVANIZED GUY STRAND EHS



1x7 Galvanized Guy Strand EHS

According to ASTM A 475, class "A" coating, left lay regular lay, extra high strength



All of our material is backed by a 100% "flaw free" guarantee.



# DECK LASHING

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# DECK LASHING

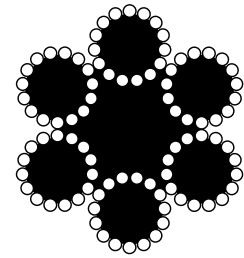
| SIZE ROPE DIAMETER | 6X15 + 7 FIBER CORE LASHING WIRE ROPE |                                   |
|--------------------|---------------------------------------|-----------------------------------|
|                    | Breaking Strength in Pounds*          | Approx. Weight per Foot in Pounds |
| 1/2"               | 12,500                                | .32                               |
| 5/8"               | 19,100                                | .45                               |

Listed for comparison only. Actual operating loads may vary but should never exceed recommended design factor or 1/7 of catalog breaking strength.

Listed for comparison only. Actual Factors vary between 6:1 and 3:1 depending on application.

Read important warnings and information on the inside back cover of this catalog titled Cautions

## FIBER CORE LASHING WIRE ROPE



**6x15 + 7 Fiber Core Lashing Wire Rope**





# CHAIN & LINKS

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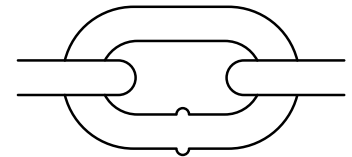


# CHAIN



| TRADE SIZE | PROOF COIL CHAIN / GRADE 30  |               |                   |                         |                              |                                     | INNER LINK DIMENSIONS |              |
|------------|------------------------------|---------------|-------------------|-------------------------|------------------------------|-------------------------------------|-----------------------|--------------|
|            | Working Load Limit in Pounds | Feet per Drum | Feet per 1/2 Drum | Minimum Weight per Foot | Maximum Length per 100 Links | Minimum Breaking Strength in Pounds | Inside Length         | Inside Width |
| 3/16"      | 800                          | 1,600         | 800               | .33                     | 96.4"                        | 3,200                               | 0.98"                 | 0.30"        |
| 1/4"       | 1,300                        | 800           | 400               | .63                     | 124.0"                       | 5,200                               | 1.24"                 | 0.38"        |
| 5/16"      | 1,900                        | 550           | 275               | .856                    | 129.1"                       | 7,600                               | 1.29"                 | 0.44"        |
| 3/8"       | 2,650                        | 400           | 200               | 1.41                    | 137.8"                       | 10,600                              | 1.38"                 | 0.55"        |
| 1/2"       | 4,500                        | 200           | 100               | 2.40                    | 179.1"                       | 18,000                              | 1.79"                 | 0.72"        |
| 5/8"       | 6,900                        | 150           | 75                | 3.58                    | 220.5"                       | 27,600                              | 2.20"                 | 0.79"        |
| 3/4"       | 10,600                       | 100           | 50                | 5.48                    | 275.6"                       | 42,400                              | 2.76"                 | 0.98"        |
| 7/8"       | 12,800                       | 75            | 35                | 7.31                    | 258.7"                       | 51,200                              | 3.03"                 | 1.08"        |
| 1"         | 17,900                       | 60            | 30                | 9.41                    | 278.8"                       | 71,600                              | 3.58"                 | 1.25"        |

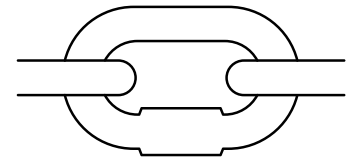
## PROOF COIL CHAIN



Grade 30 / Self Colored, Zinc Plated & Hot Dip Galvanized

| TRADE SIZE | HIGH TEST CHAIN / GRADE 43   |               |                   |                         |                              |                                     | INNER LINK DIMENSIONS |              |
|------------|------------------------------|---------------|-------------------|-------------------------|------------------------------|-------------------------------------|-----------------------|--------------|
|            | Working Load Limit in Pounds | Feet per Drum | Feet per 1/2 Drum | Minimum Weight per Foot | Maximum Length per 100 Links | Minimum Breaking Strength in Pounds | Inside Length         | Inside Width |
| 1/4"       | 2,600                        | 800           | 400               | 0.63                    | 124.0"                       | 7,800                               | 1.24"                 | 0.38"        |
| 5/16"      | 3,900                        | 550           | 275               | 0.93                    | 129.1"                       | 11,700                              | 1.29"                 | 0.44"        |
| 3/8"       | 5,400                        | 400           | 200               | 1.41                    | 167.8"                       | 16,200                              | 1.38"                 | 0.55"        |
| 1/2"       | 9,200                        | 200           | 100               | 2.40                    | 179.1"                       | 27,600                              | 1.79"                 | 0.72"        |
| 5/8"       | 13,000                       | 150           | 75                | 3.58                    | 220.5"                       | 39,000                              | 2.20"                 | 0.79"        |
| 3/4"       | 20,200                       | 100           | 50                | 5.48                    | 275.6"                       | 60,600                              | 2.76"                 | 0.98"        |

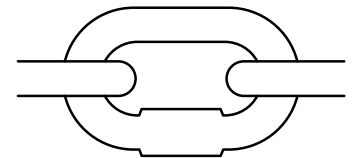
## HIGH TEST CHAIN



Grade 43 / Self Colored, Zinc Plated & Hot Dip Galvanized

| TRADE SIZE | TRANSPORT CHAIN / GRADE 70 YELLOW CHROMATED |               |                   |                         |                              |                                     | INNER LINK DIMENSIONS |              |
|------------|---|---------------|-------------------|-------------------------|------------------------------|-------------------------------------|-----------------------|--------------|
|            | Working Load Limit in Pounds                | Feet per Drum | Feet per 1/2 Drum | Minimum Weight per Foot | Maximum Length per 100 Links | Minimum Breaking Strength in Pounds | Inside Length         | Inside Width |
| 1/4"       | 3,150                                       | 800           | 400               | 0.63                    | 124.0"                       | 12,600                              | 1.24"                 | 0.38"        |
| 5/16"      | 4,700                                       | 550           | 275               | 0.93                    | 129.1"                       | 18,800                              | 1.29"                 | 0.44"        |
| 3/8"       | 6,600                                       | 400           | 200               | 1.41                    | 137.8"                       | 26,400                              | 1.38"                 | 0.55"        |
| 1/2"       | 11,300                                      | 200           | 100               | 2.40                    | 179.0"                       | 45,200                              | 1.79"                 | 0.72"        |

## TRANSPORT CHAIN



Grade 70 / Yellow Chromated

Grade 70 Transportation Binder Chain Assemblies also available with clevis grab hooks on each end.

All chains comply with NACM standards

Read important warnings and information on the inside back cover of this catalog titled Cautions.



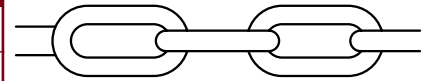


# CHAIN



| TRADE SIZE | LONG LINK GALVANIZED MOORING CHAIN / GRADE 43 |                         |                              | Minimum Breaking Strength in Pounds | INNER LINK DIMENSIONS |              |
|------------|---|-------------------------|------------------------------|-------------------------------------|-----------------------|--------------|
|            | Feet per Drum                                 | Minimum Weight per Foot | Working Load Limit in Pounds |                                     | Inside Length         | Inside Width |
| 3/8"       | 400   | 1.31                    | 5,400                        | 16,200                              | 1.65"                 | 0.65"        |
| 1/2"       | 200   | 2.39                    | 9,200                        | 27,600                              | 1.97"                 | 0.87"        |
| 5/8"       | 150   | 3.38                    | 13,000                       | 39,000                              | 2.53"                 | 0.92"        |
| 3/4"       | 100   | 5.27                    | 20,200                       | 60,600                              | 2.99"                 | 1.04"        |
| 1"         | 100   | 8.31                    | 30,865                       | 92,595                              | 4.13"                 | 3.34"        |

## LONG LINK MOORING CHAIN

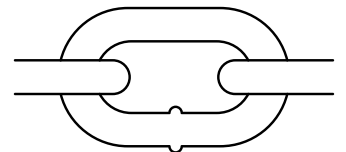


Grade 43 / Hot Dip Galvanized

ALL Mooring Chain has a 3:1 Design Factor

| TRADE SIZE | STAINLESS STEEL CHAIN / T316 |               |                           | Minimum Breaking Strength in Pounds | INNER LINK DIMENSIONS |              |
|------------|------------------------------|---------------|---------------------------|-------------------------------------|-----------------------|--------------|
|            | Working Load Limit in Pounds | Feet per Drum | Weight per Foot in Pounds |                                     | Inside Length         | Inside Width |
| 1/8"       | 375                          | 1,000         | 0.25                      | 1,500                               | 0.88"                 | 0.29"        |
| 3/16"      | 930                          | 1,000         | 0.45                      | 3,720                               | 0.98"                 | 0.40"        |
| 1/4"       | 1,570                        | 400           | 0.60                      | 6,240                               | 1.14"                 | 0.47"        |
| 7 MM       | 1,600                        | 400           | 0.62                      | 6400                                | 1.15"                 | 0.48"        |
| 5/16"      | 1,900                        | 275           | 0.88                      | 9,600                               | 1.28"                 | 0.54"        |
| 3/8"       | 3,550                        | 200           | 1.40                      | 14,200                              | 1.38"                 | 0.60"        |
| 1/2"       | 6,500                        | 200           | 2.40                      | 26,000                              | 1.78"                 | 0.75"        |
| 5/8"       | 9,800                        | 150           | 3.58                      | 39,200                              | 2.15"                 | 0.79"        |

## STAINLESS STEEL CHAIN



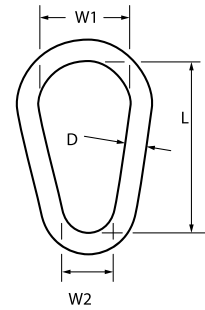
AISI Type 316 / PC Strength

All of our material is backed by a 100% "flaw free" guarantee.

# SLING LINKS

| SIZE   | PEAR SHAPED SLING LINKS, HIGH TEST       |                               |               |              |        |
|--------|--|-------------------------------|---------------|--------------|--------|
| D      | Working Load Limit in Lbs. (Single Pull) | Approx. Weight Each in Pounds | Inside Length | Inside Width |        |
|        |  |                               | L             | W1           | W2     |
| 1/2"   | 3,600                                    | 0.51                          | 3.0"          | 1.00"        | 2.00"  |
| 5/8"   | 6,250                                    | 1.10                          | 3.75"         | 1.25"        | 2.50"  |
| 3/4"   | 9,000                                    | 1.50                          | 4.5"          | 1.50"        | 2.75"  |
| 7/8"   | 11,400                                   | 2.70                          | 5.25"         | 1.75"        | 3.00"  |
| 1"     | 16,000                                   | 3.25                          | 6.0"          | 2.00"        | 3.50"  |
| 1-1/4" | 25,650                                   | 4.0                           | 7.75"         | 2.50"        | 4.375" |

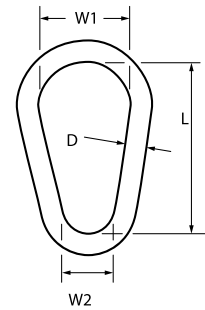
## PEAR SLING CARBON LINKS HIGH TEST / GRADE 43



Heat Treated, Self-Colored & Painted

| SIZE   | PEAR SHAPED SLING LINKS, ALLOY           |                               |               |              |        |
|--------|--|-------------------------------|---------------|--------------|--------|
| D      | Working Load Limit in Lbs. (Single Pull) | Approx. Weight Each in Pounds | Inside Length | Inside Width |        |
|        |  |                               | L             | W1           | W2     |
| 1/2"   | 3,600                                    | 0.51                          | 3.0"          | 1.00"        | 2.00"  |
| 5/8"   | 6,250                                    | 1.10                          | 3.75"         | 1.25"        | 2.50"  |
| 3/4"   | 9,000                                    | 1.50                          | 4.5"          | 1.50"        | 2.75"  |
| 7/8"   | 11,400                                   | 2.70                          | 5.25"         | 1.75"        | 3.00"  |
| 1"     | 16,000                                   | 3.25                          | 6.0"          | 2.00"        | 3.50"  |
| 1-1/4" | 25,650                                   | 4.0                           | 7.75"         | 2.50"        | 4.375" |

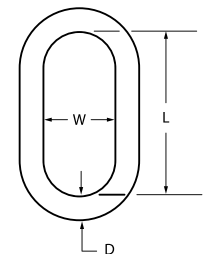
## PEAR SLING ALLOY LINKS GRADE 80



Heat Treated, Self-Colored & Painted

| SIZE   | OBLONG MASTER LINKS, GRADE 80 ALLOY      |                               |               |              |
|--------|--|-------------------------------|---------------|--------------|
| D      | Working Load Limit in Lbs. (Single Pull) | Approx. Weight Each in Pounds | Inside Length | Inside Width |
|        |  |                               | L             | W            |
| 1/2"   | 4,100                                    | 0.84                          | 5.00"         | 2.25"        |
| 5/8"   | 5,500                                    | 1.6                           | 6.00"         | 3.00"        |
| 3/4"   | 8,600                                    | 2.2                           | 6.00"         | 3.00"        |
| 1"     | 20,300                                   | 5.0                           | 8.00"         | 4.00"        |
| 1.1/4" | 29,300                                   | 10.5                          | 9.00"         | 5.00"        |
| 1.1/2" | 39,900                                   | 16.5                          | 11.00"        | 6.00"        |
| 1.3/4" | 52,100                                   | 28.2                          | 12.00"        | 6.75"        |

## OBLONG MASTER LINKS ALLOY GRADE 80



Heat Treated, Self-Colored & Painted



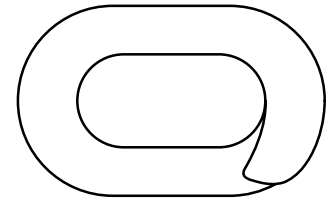


# LINKS



| SIZE<br>INCH  | LAP LINKS, ZINC PLATED |               |
|---------------|------------------------|---------------|
|               | OL MM                  | NW KG/100 PCS |
| 1/8 X 3/4"    | 19 MM                  | 0.60          |
| 3/16 X 1"     | 25 MM                  | 1.40          |
| 7/32 X 1-1/4" | 32 MM                  | 2.30          |
| 1/4 X 1-1/4"  | 32 MM                  | 3.00          |
| 1/4 X 1-1/2"  | 38 MM                  | 3.60          |
| 5/16 X 1-1/2" | 38 MM                  | 6.00          |
| 3/8 X 1-5/8"  | 42 MM                  | 10.00         |
| 3/8 X 2"      | 50 MM                  | 11.00         |
| 1/2 X 2-1/2"  | 64 MM                  | 25.00         |

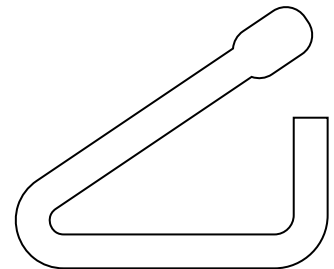
## LAP LINKS



Zinc Plated

| SIZE<br>DIAMETER | COLD SHUTS, ZINC PLATED |       |       |
|------------------|-------------------------|-------|-------|
|                  | A                       | L     | F     |
| 3/16 MM          | 5.0 MM                  | 25 MM | 10 MM |
| 1/4 MM           | 6.0 MM                  | 30 MM | 12 MM |
| 5/16 MM          | 8.0 MM                  | 35 MM | 12 MM |
| 3/8 MM           | 9.5 MM                  | 38 MM | 14 MM |
| 1/2 MM           | 12.0 MM                 | 48 MM | 27 MM |

## COLD SHUT



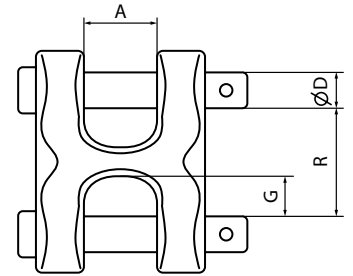
Zinc Plated

# LINKS



| SIZE        | WLL POUNDS | TWIN CLEVIS LINKS |      |      |      | WEIGHT POUNDS |
|-------------|------------|-------------------|------|------|------|---------------|
|             |            | A                 | D    | G    | R    |               |
| 1/4 - 5/16" | 4,700      | 0.47              | 0.38 | 0.43 | 1.18 | 0.32          |
| 3/8"        | 6,600      | 0.53              | 0.47 | 0.48 | 1.34 | 0.44          |
| 7/16-1/2"   | 11,250     | 0.65              | 0.56 | 0.63 | 1.75 | 1.00          |
| 5/8"        | 16,500     | 0.78              | 0.69 | 0.75 | 2.12 | 1.32          |

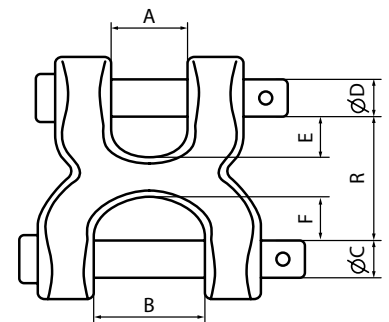
## TWIN CLEVIS LINKS



Hot Dip Galvanized  
Drop Forged

| SIZE      | WLL POUNDS | DOUBLE CLEVIS LINKS |      |      |      |      |      |      | WEIGHT POUNDS |
|-----------|------------|---------------------|------|------|------|------|------|------|---------------|
|           |            | A                   | B    | C    | D    | E    | F    | R    |               |
| 1/4"      | 2,600      | 0.50                | 0.75 | 0.50 | 0.31 | 0.38 | 0.75 | 1.50 | 0.44          |
| 5/16-3/8" | 5,400      | 0.56                | 1.00 | 0.63 | 0.44 | 0.47 | 1.00 | 1.81 | 0.81          |
| 7/16"     | 7,000      | 0.69                | 1.13 | 0.69 | 0.56 | 0.59 | 1.09 | 2.19 | 1.28          |
| 1/2"      | 9,200      | 0.81                | 1.25 | 0.75 | 0.63 | 0.66 | 1.25 | 2.47 | 1.68          |
| 5/8"      | 17,500     | 0.78                | 1.63 | 1.00 | 0.75 | 0.83 | 1.51 | 3.03 | 2.91          |

## DOUBLE CLEVIS LINKS



Hot Dip Galvanized  
Drop Forged

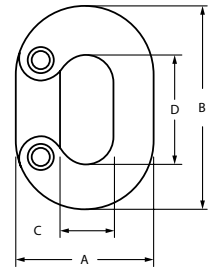


# LINKS



| SIZE  | WORKING LOAD LIMIT<br>IN POUNDS | APPROXIMATE WEIGHT<br>EACH IN POUNDS | CONNECTING LINKS |      |     |      |
|-------|---------------------------------|--------------------------------------|------------------|------|-----|------|
|       |                                 |                                      | A                | B    | C   | D    |
| 3/16" | 750                             | .03                                  | .81              | 1.19 | .31 | .69  |
| 1/4"  | 1,250                           | .06                                  | 1.00             | 1.50 | .44 | .84  |
| 5/16" | 1,900                           | .10                                  | 1.19             | 1.69 | .47 | .94  |
| 3/8"  | 2,650                           | .17                                  | 1.44             | 2.09 | .56 | 1.19 |
| 1/2"  | 4,500                           | .36                                  | 1.75             | 2.63 | .66 | 1.44 |

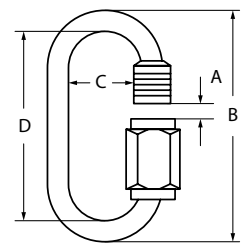
## CONNECTING LINKS/MISSING LINKS



Forged Steel, Heat Treated,  
Electro Galvanized

| SIZE  | WORKING LOAD LIMIT<br>IN POUNDS | APPROXIMATE WEIGHT<br>EACH IN POUNDS | QUICK LINKS / RAPID LINKS |      |     |      |
|-------|---------------------------------|--------------------------------------|---------------------------|------|-----|------|
|       |                                 |                                      | A                         | B    | C   | D    |
| 1/8"  | 400                             | .02                                  | .19                       | 1.45 | .39 | 1.19 |
| 3/16" | 660                             | .05                                  | .25                       | 2.06 | .50 | 1.69 |
| 1/4"  | 880                             | .08                                  | .31                       | 2.38 | .56 | 1.88 |
| 5/16" | 1,760                           | .18                                  | .38                       | 2.94 | .69 | 2.31 |
| 3/8"  | 2,200                           | .23                                  | .44                       | 3.19 | .69 | 2.44 |
| 1/2"  | 3,300                           | .52                                  | .56                       | 4.25 | .94 | 3.25 |

## QUICK LINKS/ RAPID LINKS



Electro Galvanized

# HOOKS

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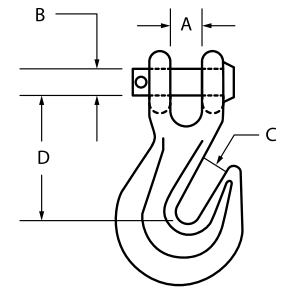


# HOOKS



| SIZE  | WORKING LOAD LIMIT<br>IN POUNDS | APPROXIMATE WEIGHT<br>EACH IN POUNDS | HIGH TEST CLEVIS GRAB<br>HOOKS / GRADE 43 |     |     |      |
|-------|---------------------------------|--------------------------------------|---|-----|-----|------|
|       |                                 |                                      | A   | B   | C   | D    |
| 1/4"  | 2,600                           | 0.43                                 | .38                                       | .38 | .34 | 1.94 |
| 5/16" | 3,900                           | 0.72                                 | .44                                       | .44 | .41 | 2.38 |
| 3/8"  | 5,400                           | 1.15                                 | .56                                       | .47 | .50 | 2.63 |
| 1/2"  | 9,200                           | 2.35                                 | .69                                       | .63 | .66 | 3.50 |
| 5/8"  | 12,750                          | 4.10                                 | .81                                       | .63 | .81 | 4.19 |

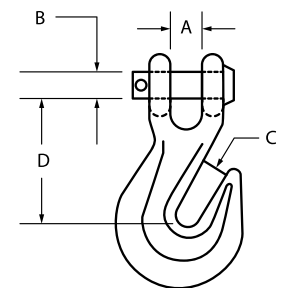
## HIGH TEST CLEVIS GRAB



Grade 43 / Self Colored, Zinc Plated, Hot Galvanized

| SIZE  | WORKING LOAD LIMIT<br>IN POUNDS | APPROXIMATE WEIGHT<br>EACH IN POUNDS | ALLOY CLEVIS GRAB HOOKS /<br>GRADE 70 |     |     |      |
|-------|---------------------------------|--------------------------------------|---------------------------------------|-----|-----|------|
|       |                                 |                                      | A                                     | B   | C   | D    |
| 1/4"  | 3,600                           | 0.43                                 | .38                                   | .38 | .34 | 1.94 |
| 5/16" | 5,400                           | 0.72                                 | .44                                   | .44 | .41 | 2.38 |
| 3/8"  | 7,500                           | 1.15                                 | .56                                   | .47 | .50 | 2.63 |
| 1/2"  | 12,750                          | 2.35                                 | .69                                   | .63 | .66 | 3.50 |

## ALLOY G70 CLEVIS GRAB



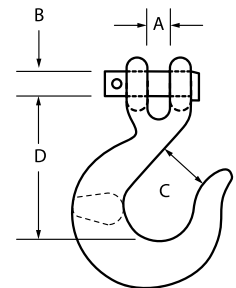
Grade 70 / Self Colored, Zinc Plated, Hot Galvanized, Yellow Chromated

# HOOKS



| SIZE  | WORKING LOAD LIMIT<br>IN POUNDS | APPROXIMATE WEIGHT<br>EACH IN POUNDS | HIGH TEST CLEVIS SLIP<br>HOOKS / GRADE 43 |     |      |      |
|-------|---------------------------------|--------------------------------------|---|-----|------|------|
|       |                                 |                                      | A   | B   | C    | D    |
| 1/4"  | 1,950                           | 0.58                                 | .38                                       | .38 | .88  | 2.56 |
| 5/16" | 2,875                           | 0.86                                 | .44                                       | .44 | 1.00 | 2.81 |
| 3/8"  | 4,000                           | 1.40                                 | .56                                       | .47 | 1.28 | 3.25 |
| 1/2"  | 6,500                           | 2.20                                 | .63                                       | .56 | 1.38 | 4.00 |

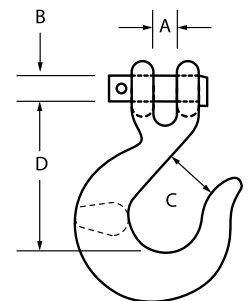
## HIGH TEST CLEVIS SLIP



Grade 43 / Forged Steel,  
Heated Treated, Painted  
with or without latch

| SIZE  | WORKING LOAD LIMIT<br>IN POUNDS | APPROXIMATE WEIGHT<br>EACH IN POUNDS | ALLOY CLEVIS SLIP HOOKS /<br>GRADE 70 |     |     |      |
|-------|---------------------------------|--------------------------------------|---------------------------------------|-----|-----|------|
|       |                                 |                                      | A                                     | B   | C   | D    |
| 1/4"  | 2,750                           | 0.50                                 | .38                                   | .38 | .34 | 1.94 |
| 5/16" | 4,300                           | 0.75                                 | .44                                   | .44 | .41 | 2.38 |
| 3/8"  | 5,250                           | 1.20                                 | .56                                   | .47 | .50 | 2.63 |
| 1/2"  | 9,000                           | 2.80                                 | .69                                   | .63 | .66 | 3.50 |

## ALLOY G70 CLEVIS SLIP



Grade 70/Self Colored, Zinc  
Plated, Hot Galvanized,  
Yellow Chromated  
with or without latch

Clevis Hook Fitting Minimum Breaking Strength = 4 x W.L.L.  
Read important warnings and information on the inside back cover of this  
catalog titled Cautions.



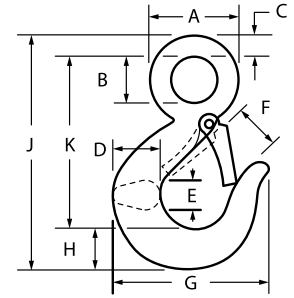
# HOOKS



| SIZE (WLL)<br>IN TONS |       | EYE HOIST HOOKS/CARBON OR ALLOY STEEL |      |      |      |      |      |      |      |       | WT. WITH<br>LATCH<br>IN LBS. |       |
|-----------------------|-------|---------------------------------------|------|------|------|------|------|------|------|-------|------------------------------|-------|
| Carbon                | Alloy | A                                     | B    | C    | D    | E    | F    | G    | H    | J     | K                            |       |
| 3/4 ton               | 1 ton | 1.50                                  | 0.75 | 0.38 | 0.88 | 0.63 | 0.94 | 2.88 | 0.75 | 4.38  | 3.25                         | 0.60  |
| 1                     | 1-1/2 | 1.75                                  | 0.88 | 0.44 | 1.00 | 0.69 | 1.06 | 3.13 | 0.81 | 4.88  | 3.63                         | 0.82  |
| 1-1/2                 | 2     | 2.00                                  | 1.13 | 0.44 | 1.19 | 0.81 | 1.06 | 3.50 | 1.00 | 5.50  | 4.13                         | 1.44  |
| 2                     | 3     | 2.38                                  | 1.25 | 0.59 | 1.38 | 0.94 | 1.22 | 3.94 | 1.19 | 6.31  | 4.56                         | 1.94  |
| 3                     | 4-1/2 | 3.00                                  | 1.56 | 0.69 | 1.63 | 1.19 | 1.50 | 5.00 | 1.50 | 7.94  | 5.75                         | 3.94  |
| 5                     | 7     | 3.81                                  | 2.00 | 0.88 | 2.06 | 1.50 | 1.88 | 6.25 | 1.75 | 10.00 | 7.38                         | 7.75  |
| 7-1/2                 | 11    | 4.69                                  | 2.44 | 1.13 | 2.63 | 1.63 | 2.25 | 7.56 | 2.25 | 12.44 | 9.06                         | 13.00 |

Eye Hoist Hook Minimum Breaking Strength = 5 x WLL.

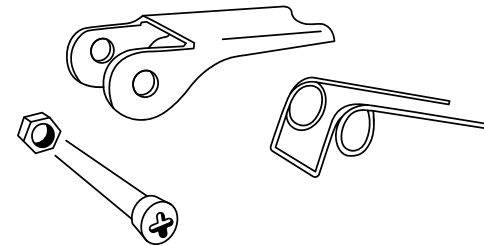
## EYE HOIST HOOKS



Carbon or Alloy Steel  
with or without latch

| HOOK SIZE<br>IN TONS |       | STAINLESS LATCH KIT               |
|----------------------|-------|-----------------------------------|
| Carbon               | Alloy | Approximate Weight Each in Pounds |
| 3/4 ton              | 1 ton | .02                               |
| 1                    | 1-1/2 | .02                               |
| 1-1/2                | 2     | .03                               |
| 2                    | 3     | .03                               |
| 3                    | 4-1/2 | .05                               |
| 5                    | 7     | .09                               |
| 7-1/2                | 11    | .17                               |

## LATCH KIT



Stainless Steel

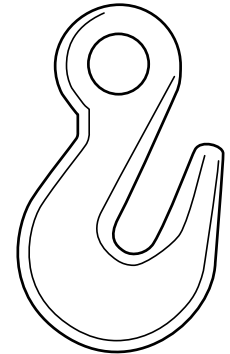
# HOOKS



| SIZE  | WORKING LOAD LIMIT<br>IN POUNDS | APPROXIMATE WEIGHT<br>EACH IN POUNDS | HIGH TEST EYE GRAB HOOKS /<br>GRADE 43 |     |      |   |
|-------|---------------------------------|--------------------------------------|--|-----|------|---|
|       |                                 |                                      | A                                      | B   | C    | D |
| 1/4"  | 2,600                           | 0.30                                 | .50                                    | .31 | 1.88 | - |
| 5/16" | 3,900                           | 0.57                                 | .56                                    | .44 | 2.25 | - |
| 3/8"  | 5,400                           | 0.95                                 | .69                                    | .50 | 2.56 | - |
| 1/2"  | 9,200                           | 2.14                                 | .88                                    | .59 | 3.50 | - |

Eye Slip Hook and Grab Hook Minimum Breaking Strength = 4 x W.L.L.  
Read important warnings and information on the inside back cover of this catalog titled Cautions.

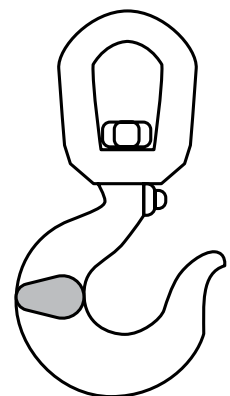
## HIGH TEST EYE GRAB



Grade 43/Forged Steel,  
Heated Treated, Painted Red

| ALLOY SWIVEL HOOKS  |                                      |                                 |
|---------------------|--------------------------------------|---------------------------------|
| SIZE/WLL<br>IN TONS | APPROXIMATE WEIGHT<br>EACH IN POUNDS | WORKING LOAD<br>LIMIT IN POUNDS |
| 1.5                 | 1.26                                 | 3,000                           |
| 2                   | 2.25                                 | 4,000                           |
| 3                   | 2.57                                 | 6,000                           |
| 5                   | 4.75                                 | 10,000                          |
| 7                   | 10.29                                | 14,000                          |
| 11                  | 17.50                                | 22,000                          |
| 15                  | 23.25                                | 30,000                          |

## SWIVEL HOOKS



Alloy Swivel Hooks, Painted  
& Yellow Chromated

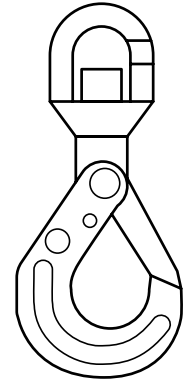


# HOOKS



| ALLOY SWIVEL HOOKS / SELF LOCKING |                                   |                              |
|-----------------------------------|-----------------------------------|------------------------------|
| SIZE                              | APPROXIMATE WEIGHT EACH IN POUNDS | WORKING LOAD LIMIT IN POUNDS |
| 1/4" (6 MM)                       | 1.50                              | 2,470                        |
| 5/16"                             | 2.64                              | 4,400                        |
| 3/8"                              | 5.26                              | 7,055                        |
| 1/2"                              | 11.22                             | 10,600                       |
| 5/8"                              | 18.00                             | 18,078                       |

## ALLOY SWIVEL HOOK SELF-LOCKING

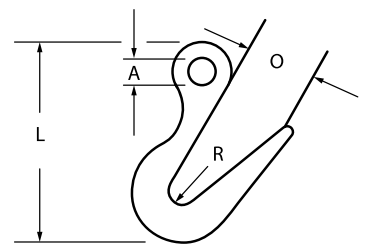


Grade 80

| SORTING HOOK / FORGED ALLOY STEEL, HEATED TREATED |           |
|---|-----------|
| Working Load Limit 2.1/2" from Tip                | 2 Ton     |
| Working Load Limit, at Bottom                     | 7-1/2 Ton |
| Approximate Weight Each                           | 6.75 lb   |
| Overall Length L                                  | 9.69"     |
| I.D. of Eye A                                     | 1.38"     |

Sorting Hooks Minimum Breaking Strength = 5 x W.L.L.

## SORTING HOOKS



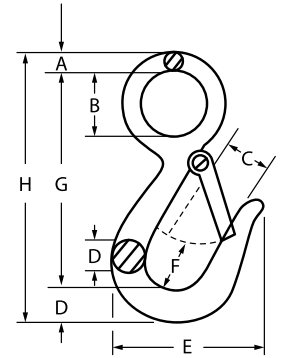
Forged Alloy Steel, Heat Treated

# HOOKS



| SIZE  | WORKING LOAD LIMIT IN POUNDS | SNAP HOOK / FORGED STEEL, ELECTRO GALVANIZED |     |     |     |      |     |      |      | APPROXIMATE WEIGHT EACH IN POUNDS |
|-------|------------------------------|--|-----|-----|-----|------|-----|------|------|-----------------------------------|
|       |                              | A  | B   | C   | D   | E    | F   | G    | H    |                                   |
| 7/16" | 750                          | .31  | .69 | .56 | .63 | 2.25 | .81 | 3.09 | 4.00 | .38                               |

## SAFETY SNAP HOOKS

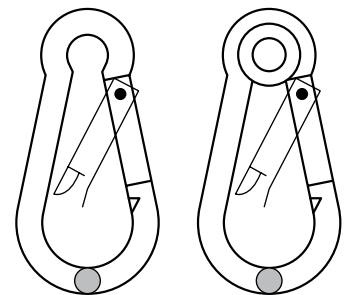


Forged Steel, Electro Galvanized with latch

| CARABINER STYLE SNAP HOOKS / CARBON STEEL, ZINC PLATED |                                   | STAMPED |
|--|-----------------------------------|---------|
| HOOK SIZE  | APPROXIMATE WEIGHT EACH IN POUNDS | WLL     |
| 3/16"  | 0.032                             | 220     |
| 1/4"   | 0.062                             | 260     |
| 5/16"  | 0.138                             | 500     |
| 3/8"   | 0.199                             | 550     |
| 7/16"  | 0.40                              | 990     |
| 1/2"   | 0.60                              | 1200    |

\*Available with and without Eyelets

## CARABINER STYLE SNAP HOOKS



Carbon Steel, Zinc Plated with or without eyelet



# LOAD BINDERS



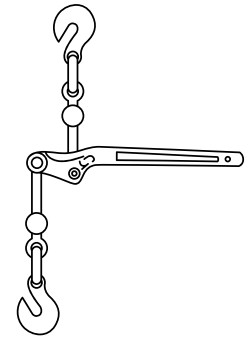
# LOAD BINDERS



| SIZE           | STANDARD LOAD BINDERS LEVER TYPE |                      |                               |         |
|----------------|----------------------------------|----------------------|-------------------------------|---------|
|                | Working Load Limit in Pounds     | Proof Load in Pounds | Approx. Weight Each in Pounds | Take-up |
| 1/4-5/16"      | 3,150                            | 9,200                | 3.75                          | 2.1/2"  |
| 5/16-3/8" G70  | 5,400                            | 10,800               | 6.70                          | 3.3/4"  |
| 5/16-3/8" G100 | 6,600                            | 13,200               | 6.70                          | 3.3/4"  |
| 3/8-1/2"       | 9,200                            | 18,400               | 11.50                         | 4.1/4"  |

## LOAD BINDERS LEVER TYPE, G70

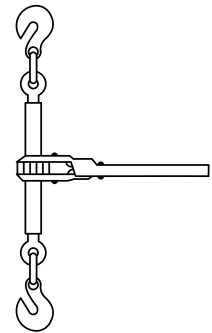
Forged Steel, Heated Treated, Painted



| SIZE       | LOAD BINDERS RATCHET TYPE, G70 |                      |                               |         |
|------------|--------------------------------|----------------------|-------------------------------|---------|
|            | Working Load Limit in Pounds   | Proof Load in Pounds | Approx. Weight Each in Pounds | Take-up |
| 1/4-5/16"  | 3,150                          | 6,300                | 4.00                          | 6"      |
| 5/16"-3/8" | 6600                           | 13,200               | 10.50                         | 8"      |
| 3/8-1/2"   | 9,200                          | 18,400               | 12.90                         | 8"      |
| 1/2-5/8"   | 13,000                         | 26,000               | 14.55                         | 8"      |

## LOAD BINDERS RATCHET TYPE, G70

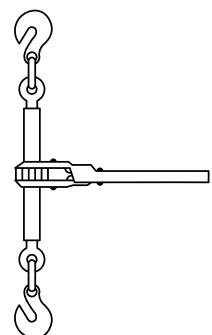
Forged Steel, Heated Treated, Painted



| SIZE     | LOAD BINDERS RATCHET TYPE, G100 |                      |                               |         |
|----------|---------------------------------|----------------------|-------------------------------|---------|
|          | Working Load Limit in Pounds    | Proof Load in Pounds | Approx. Weight Each in Pounds | Take-up |
| 3/8-1/2" | 15,000                          | 30,000               | 12.90                         | 8"      |
| 1/2-5/8" | 16,000                          | 32,000               | 14.55                         | 8"      |

## LOAD BINDERS RATCHET TYPE, G100

Forged Steel, Heated Treated, Painted



Read important warnings and information on the inside back cover of this catalog titled Cautions.



# WIRE ROPE THIMBLES

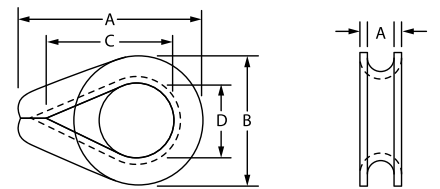
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# WIRE ROPE THIMBLES

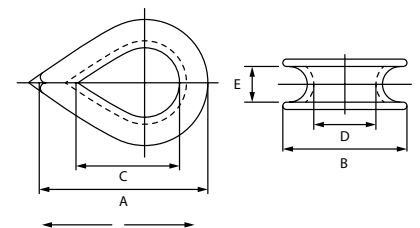
| TRADE SIZE   | APPROX. WEIGHT EACH IN POUNDS | HEAVY DUTY WIRE ROPE THIMBLE / GALVANIZED |       |       |      |      |
|--------------|-------------------------------|---|-------|-------|------|------|
|              |                               | A   | B     | C     | D    | E    |
| 1/4"         | 0.075                         | 2.19                                      | 1.50  | 1.63  | 0.88 | 0.41 |
| 5/16"        | 0.14                          | 2.50                                      | 1.81  | 1.88  | 1.06 | 0.50 |
| 3/8"         | 0.25                          | 2.88                                      | 2.13  | 2.13  | 1.13 | 0.66 |
| 7/16"        | 0.36                          | 3.25                                      | 2.25  | 2.38  | 1.25 | 0.75 |
| 1/2-9/16"    | 0.51                          | 3.63                                      | 2.56  | 2.75  | 1.50 | 0.84 |
| 5/8"         | 0.75                          | 4.25                                      | 3.00  | 3.25  | 1.75 | 1.00 |
| 3/4"         | 1.47                          | 5.00                                      | 3.50  | 3.75  | 2.00 | 1.25 |
| 7/8"         | 1.85                          | 5.50                                      | 4.00  | 4.25  | 2.25 | 1.38 |
| 1"           | 3.00                          | 6.13                                      | 4.38  | 4.50  | 2.50 | 1.56 |
| 1-1/8-1-1/4" | 3.80                          | 7.00                                      | 5.63  | 5.13  | 2.88 | 1.88 |
| 1-1/4-1-3/8" | 8.60                          | 9.06                                      | 6.75  | 6.50  | 3.50 | 2.25 |
| 1-3/8-1-1/2" | 11.00                         | 9.06                                      | 7.00  | 6.50  | 3.50 | 2.63 |
| 1-5/8"       | 11.80                         | 11.25                                     | 8.13  | 8.00  | 4.00 | 2.72 |
| 1-3/4"       | 17.90                         | 12.19                                     | 8.25  | 9.00  | 4.50 | 2.88 |
| 1-7/8-2"     | 25.00                         | 15.13                                     | 10.25 | 12.00 | 6.00 | 3.13 |
| 2-1/4"       | 45.00                         | 17.13                                     | 11.88 | 14.00 | 7.00 | 3.63 |
| 2-1/2"       | 63.50                         | 22.25                                     | 12.75 | 17.50 | 8.00 | 4.38 |

## HEAVY DUTY WIRE ROPE THIMBLE



| TRADE SIZE | APPROX. WEIGHT EACH IN POUNDS | STANDARD DUTY WIRE ROPE THIMBLE/ZINC PLATED |      |      |      |      |
|------------|-------------------------------|---|------|------|------|------|
|            |                               | A   | B    | C    | D    | E    |
| 1/8"       | 0.02                          | 1.88  | 1.06 | 1.25 | 0.69 | 0.16 |
| 3/16"      | 0.023                         | 1.88  | 1.06 | 1.25 | 0.69 | 0.22 |
| 1/4"       | 0.05                          | 1.94  | 1.06 | 1.31 | 0.69 | 0.28 |
| 5/16"      | 0.054                         | 2.13  | 1.25 | 1.50 | 0.81 | 0.38 |
| 3/8"       | 0.062                         | 2.38  | 1.47 | 1.63 | 0.94 | 0.44 |
| 1/2"       | 0.13                          | 2.75  | 1.75 | 1.88 | 1.13 | 0.56 |
| 5/8"       | 0.22                          | 3.50  | 2.38 | 2.25 | 1.38 | 0.69 |
| 3/4"       | 0.50                          | 3.75  | 2.69 | 2.50 | 1.63 | 0.81 |
| 7/8"       | 0.85                          | 5.00  | 3.19 | 3.50 | 1.88 | 0.94 |
| 1"         | 1.00                          | 5.69  | 3.75 | 4.25 | 2.50 | 1.06 |

## STANDARD DUTY WIRE ROPE THIMBLE





# SWAGE FITTINGS

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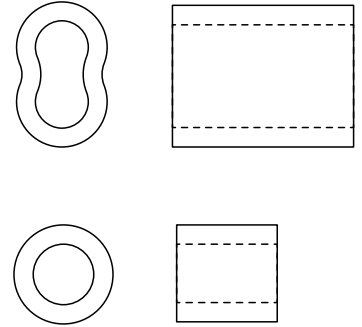




# SWAGE FITTINGS

| CABLE SIZE | DUPLEX SLEEVES                     |                                  |                                  | DUPLEX STOPS                       |                                  |
|------------|------------------------------------|----------------------------------|----------------------------------|------------------------------------|----------------------------------|
|            | Aluminum Weight 1000 Pieces/Pounds | Copper Weight 1000 Pieces/Pounds | Stainless Weight 1000 Pieces/lbs | Aluminum Weight 1000 Pieces/Pounds | Copper Weight 1000 Pieces/Pounds |
| 1/32"      | -                                  | 1.0                              | 0.5                              | -                                  | 0.75                             |
| 3/64"      | 0.7                                | 2.0                              | 1.5                              | -                                  | 1.5                              |
| 1/16"      | 1.0                                | 3.0                              | 1.5                              | 0.83                               | 2.0                              |
| 5/64"      | 2.0                                | -                                | -                                | -                                  | -                                |
| 3/32"      | 3.0                                | 5.0                              | 2.3                              | 3.0                                | 8.0                              |
| 1/8"       | 6.0                                | 17.0                             | 3.8                              | 3.0                                | 10.0                             |
| 1/8-3/16"  | 5.2                                | -                                | -                                | -                                  | -                                |
| 5/32"      | 9.5                                | 23.0                             | 14.0                             | 4.8                                | 13.0                             |
| 3/16"      | 16.0                               | 49.0                             | 21.0                             | 5.0                                | 12.0                             |
| 7/32"      | 21.0                               | 50.0                             | 31.0                             | -                                  | 20.0                             |
| 1/4"       | 27.0                               | 78.0                             | 44.0                             | 21.0                               | 60.0                             |
| 5/16"      | 48.0                               | 114.0                            | 57.0                             | 25.0                               | 65.0                             |
| 3/8"       | 65.0                               | 153.0                            | -                                | 28.0                               | 75.0                             |
| 7/16"      | 115.0                              | 302.0                            | -                                |                                    |                                  |
| 1/2"       | 172.0                              | 410.0                            | -                                |                                    |                                  |
| 9/16"      | -                                  | 551.0                            | -                                |                                    |                                  |
| 5/8"       | -                                  | 802.0                            | -                                |                                    |                                  |

## DUPLEX SLEEVES AND STOPS - DOMESTIC

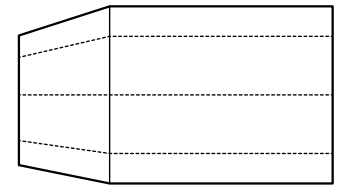


Aluminum, Copper, (Plain, Zinc-plated, Tin-plated) & Stainless Steel (Type 304)

Read important warnings and information on the inside back cover of this catalog titled Cautions.

| SIZE | FLEMISH EYE SWAGING SLEEVE DIMENSION (INCH) |      |      |      |      | MAX. AFTER SWAGE DIMENSIONS INCH | WEIGHT KGS/100 PCS |
|------|---|------|------|------|------|----------------------------------|--------------------|
|      | A   | B    | D    | E    | C    |                                  |                    |
| 3/8" | 1.50  | 0.91 | 0.47 | 0.39 | 0.66 | 0.75                             | 6.36               |
| 1/2" | 2.00  | 1.22 | 0.63 | 0.56 | 0.91 | 1.01                             | 13.00              |
| 5/8" | 2.75  | 1.47 | 0.75 | 0.63 | 1.09 | 1.24                             | 26.00              |
| 3/4" | 3.19  | 1.72 | 0.91 | 0.84 | 1.28 | 1.46                             | 40.00              |
| 7/8" | 3.56  | 2.03 | 1.03 | 1.00 | 1.53 | 1.68                             | 60.00              |
| 1"   | 4.00  | 2.28 | 1.16 | 1.13 | 1.72 | 1.93                             | 89.00              |

## FLEMISH EYE SWAGING SLEEVE



Self Colored



# SWIVELS

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 **M&G**  
Industries

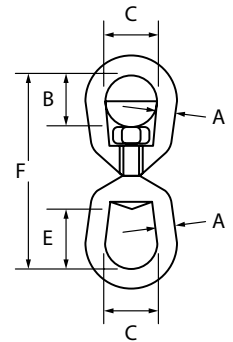
# SWIVELS



| SIZE (A) | WORKING LOAD LIMIT IN POUNDS | APPROXIMATE WEIGHT EACH IN POUNDS | EYE & EYE SWIVELS HOT GALVANIZED |      |      |       |
|----------|------------------------------|-----------------------------------|----------------------------------|------|------|-------|
|          |                              |                                   | B                                | C    | E    | F     |
| 1/4"     | 850                          | 0.20                              | 0.69                             | 0.75 | 0.94 | 2.88  |
| 5/16"    | 1,250                        | 0.38                              | 0.75                             | 1.00 | 1.13 | 3.63  |
| 3/8"     | 2,250                        | 0.68                              | 0.94                             | 1.25 | 1.38 | 4.25  |
| 1/2"     | 3,600                        | 1.4                               | 1.38                             | 1.50 | 1.94 | 5.63  |
| 5/8"     | 5,200                        | 2.5                               | 1.63                             | 1.75 | 2.31 | 6.63  |
| 3/4"     | 7,200                        | 3.9                               | 1.81                             | 2.00 | 2.56 | 7.25  |
| 7/8"     | 10,000                       | 6.25                              | 2.06                             | 2.25 | 3.06 | 8.38  |
| 1"       | 12,500                       | 9.00                              | 2.31                             | 2.50 | 3.50 | 9.00  |
| 1-1/8"   | 15,200                       | 12.46                             | 2.38                             | 2.75 | 3.75 | 10.38 |
| 1-1/4"   | 18,000                       | 16.37                             | 2.69                             | 3.13 | 4.00 | 11.13 |
| 1-1/2"   | 45,200                       | 49.06                             | 4.19                             | 4.00 | 4.19 | 17.13 |

## EYE & EYE SWIVELS

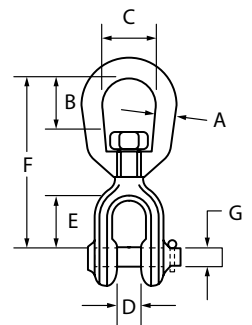
Hot Galvanized



| SIZE (A) | WORKING LOAD LIMIT IN POUNDS | APPROXIMATE WEIGHT EACH IN POUNDS | JAW & EYE SWIVELS HOT GALVANIZED |      |      |      |       |      |
|----------|------------------------------|-----------------------------------|----------------------------------|------|------|------|-------|------|
|          |                              |                                   | B                                | C    | D    | E    | F     | G    |
| 1/4"     | 850                          | 0.22                              | 0.69                             | 0.75 | 0.38 | 0.88 | 2.69  | 0.25 |
| 5/16"    | 1,250                        | 0.39                              | 0.88                             | 1.00 | 0.50 | 0.88 | 2.88  | 0.31 |
| 3/8"     | 2,250                        | 0.71                              | 0.94                             | 1.25 | 0.63 | 1.00 | 3.50  | 0.38 |
| 1/2"     | 3,600                        | 1.4                               | 1.38                             | 1.50 | 0.81 | 1.31 | 4.50  | 0.50 |
| 5/8"     | 5,200                        | 2.3                               | 1.63                             | 1.75 | 1.00 | 1.50 | 5.31  | 0.63 |
| 3/4"     | 7,200                        | 3.5                               | 1.75                             | 2.00 | 1.19 | 1.75 | 6.06  | 0.75 |
| 7/8"     | 10,000                       | 5.75                              | 2.06                             | 2.25 | 1.19 | 2.06 | 7.00  | .88  |
| 1"       | 12,500                       | 10.25                             | 2.21                             | 2.50 | 1.75 | 2.81 | 8.56  | 1.13 |
| 1-1/8"   | 15,200                       | 12.48                             | 2.38                             | 2.75 | 1.75 | 2.81 | 8.94  | 1.13 |
| 1-1/4"   | 18,200                       | 15.75                             | 2.69                             | 3.13 | 2.06 | 2.81 | 9.44  | 1.38 |
| 1-1/2"   | 45,200                       | 54.74                             | 4.19                             | 4.00 | 2.88 | 4.44 | 14.75 | 2.25 |

## JAW & EYE SWIVELS

Hot Galvanized



Read important warnings and information on the inside back cover of this catalog titled Cautions.



# WIRE ROPE CLIPS

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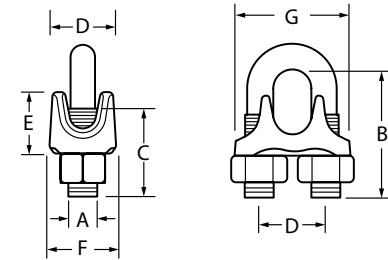


# WIRE ROPE CLIPS

| SIZE ROPE | MINIMUM CLIPS REQUIRED | AMT. WIRE ROPE TO TURN BACK | TORQUE IN POUNDS FOOT | APPROX. WEIGHT IN POUNDS | MALLEABLE WIRE ROPE CLIPS |      |      |      |      |      |      |
|-----------|------------------------|-----------------------------|-----------------------|--------------------------|---------------------------|------|------|------|------|------|------|
|           |                        |                             |                       |                          | A                         | B    | C    | D    | E    | F    | G    |
| 1/16"     | 3                      | 4"                          | --                    | .03                      | .15                       | .65  | .45  | .38  | .38  | .45  | .69  |
| 1/8"      | 3                      | 4.3/4"                      | --                    | .04                      | .18                       | .81  | .50  | .50  | .50  | .56  | .94  |
| 3/16"     | 3                      | 5.1/2"                      | 2.6                   | .063                     | .25                       | .94  | .56  | .56  | .56  | .63  | 1.06 |
| 1/4"      | 3                      | 7"                          | 12                    | .13                      | .31                       | 1.19 | .75  | .75  | .69  | .75  | 1.31 |
| 5/16"     | 3                      | 7.3/4"                      | 12                    | .15                      | .31                       | 1.31 | .84  | .75  | .75  | .75  | 1.44 |
| 3/8"      | 3                      | 9.1/2"                      | 18.5                  | .21                      | .38                       | 1.63 | 1.00 | .88  | .84  | .88  | 1.63 |
| 7/16"     | 4                      | 10.1/4"                     | 18.5                  | .37                      | .44                       | 2.00 | 1.19 | 1.06 | 1.00 | 1.06 | 1.88 |
| 1/2"      | 4                      | 15.1/4"                     | 25                    | .37                      | .44                       | 2.00 | 1.19 | 1.06 | 1.00 | 1.06 | 1.88 |
| 9/16"     | 4                      | 16"                         | 35                    | .59                      | .50                       | 2.31 | 1.38 | 1.25 | 1.25 | 1.28 | 2.09 |
| 5/8"      | 4                      | 16"                         | 35                    | .59                      | .50                       | 2.31 | 1.38 | 1.25 | 1.25 | 1.28 | 2.09 |
| 3/4"      | 5                      | 22.1/4"                     | 50                    | .84                      | .56                       | 2.56 | 1.56 | 1.31 | 1.44 | 1.56 | 2.38 |
| 7/8"      | 5                      | 23.1/2"                     | 100                   | 1.25                     | .63                       | 3.06 | 1.81 | 1.63 | 1.75 | 1.81 | 2.88 |
| 1"        | 6                      | 31"                         | 100                   | 1.66                     | .63                       | 3.44 | 2.00 | 1.88 | 2.06 | 2.00 | 3.00 |
| 1.1/8"    | 7                      | 39"                         | 140                   | 2.43                     | .75                       | 4.00 | 2.75 | 2.00 | 2.19 | 2.06 | 3.38 |

## MALLEABLE WIRE ROPE CLIPS

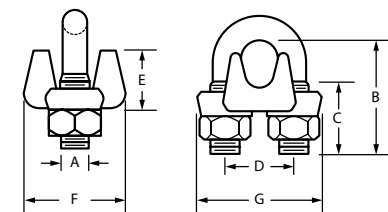
Electro-Galvanized



| SIZE ROPE | MINIMUM CLIPS REQUIRED | AMT. WIRE ROPE TO TURN BACK | TORQUE IN POUNDS FOOT | APPROX. WEIGHT IN POUNDS | DROP FORGED WIRE ROPE CLIPS |      |      |      |      |      |      |
|-----------|------------------------|-----------------------------|-----------------------|--------------------------|-----------------------------|------|------|------|------|------|------|
|           |                        |                             |                       |                          | A                           | B    | C    | D    | E    | F    | G    |
| 1/8"*     | 2                      | 3.1/4"                      | 2.83                  | .05                      | .19                         | .75  | .44  | .44  | .38  | .81  | .94  |
| 3/16"     | 2                      | 3.3/4"                      | 5.5                   | .10                      | .25                         | .94  | .56  | .56  | .50  | .94  | 1.19 |
| 1/4"      | 2                      | 4.3/4"                      | 12                    | .18                      | .31                         | 1.06 | .56  | .75  | .63  | 1.19 | 1.50 |
| 5/16"     | 2                      | 5.1/4"                      | 18.5                  | .31                      | .38                         | 1.44 | .75  | .75  | .75  | 1.31 | 1.69 |
| 3/8"      | 2                      | 6.1/2"                      | 25                    | .46                      | .44                         | 1.50 | .75  | .88  | .88  | 1.56 | 1.94 |
| 7/16"     | 3                      | 7"                          | 35                    | .73                      | .50                         | 1.88 | 1.00 | 1.06 | 1.00 | 1.81 | 2.31 |
| 1/2"      | 3                      | 11.1/2"                     | 35                    | .73                      | .50                         | 1.88 | 1.00 | 1.19 | 1.06 | 1.81 | 2.31 |
| 9/16"     | 3                      | 12"                         | 50                    | .96                      | .56                         | 2.38 | 1.25 | 1.19 | 1.13 | 2.06 | 2.50 |
| 5/8"      | 3                      | 12"                         | 50                    | 1.00                     | .56                         | 2.38 | 1.25 | 1.31 | 1.25 | 2.06 | 2.50 |
| 3/4"      | 4                      | 18"                         | 100                   | 1.50                     | .63                         | 2.75 | 1.38 | 1.31 | 1.38 | 2.31 | 2.75 |
| 7/8"      | 4                      | 19"                         | 140                   | 2.44                     | .75                         | 3.19 | 1.44 | 1.50 | 1.69 | 2.63 | 3.31 |
| 1"        | 5                      | 26"                         | 140                   | 2.7                      | .75                         | 3.63 | 1.75 | 1.88 | 1.75 | 2.63 | 3.47 |
| 1.1/8"    | 6                      | 34"                         | 140                   | 3.1                      | .75                         | 4.00 | 2.00 | 2.00 | 1.88 | 2.81 | 3.56 |
| 1.1/4"    | 7                      | 44"                         | 275                   | 4.6                      | .88                         | 4.38 | 2.25 | 2.31 | 2.06 | 3.25 | 4.06 |
| 1.3/8"    | 7                      | 44"                         | 275                   | 5.2                      | .88                         | 4.63 | 2.31 | 2.38 | 2.25 | 3.44 | 4.25 |
| 1.1/2"    | 8                      | 54"                         | 275                   | 5.9                      | .88                         | 4.94 | 2.38 | 2.63 | 2.50 | 3.50 | 4.38 |
| 1.3/4"    | 8                      | 61"                         | 590                   | 9.8                      | 1.13                        | 5.88 | 2.75 | 3.06 | 2.88 | 3.75 | 5.25 |
| 2"        | 8                      | 71"                         | 750                   | 13.75                    | 1.25                        | 6.50 | 3.00 | 3.31 | 3.38 | 4.44 | 5.81 |
| 2.1/4"    | 8                      | 73"                         | 750                   | 15.7                     | 1.25                        | 7.13 | 3.31 | 3.88 | 3.81 | 4.50 | 6.31 |

## DROP FORGED WIRE ROPE CLIPS

Hot Dip Galvanized





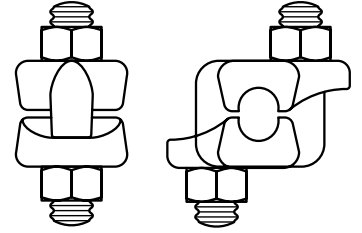
# WIRE ROPE CLIPS



| DROP FORGED FIST GRIP CLIPS |                       |                         |
|-----------------------------|-----------------------|-------------------------|
| SIZE ROPE                   | TORQUE IN POUNDS FOOT | APPROX WEIGHT IN POUNDS |
| 3/16-1/4"                   | 12                    | .23                     |
| 5/16"                       | 18.5                  | .28                     |
| 3/8"                        | 25                    | .40                     |
| 7/16-1/2"                   | 43                    | .62                     |
| 9/16-5/8"                   | 75                    | 1.03                    |
| 3/4"                        | 100                   | 1.75                    |
| 7/8"                        | 140                   | 2.25                    |
| 1"                          | 190                   | 3.00                    |
| 1.1/8"                      | 220                   | 4.00                    |

## DROP FORGED FIST GRIP CLIPS

Hot Dip Galvanized



# SHACKLES

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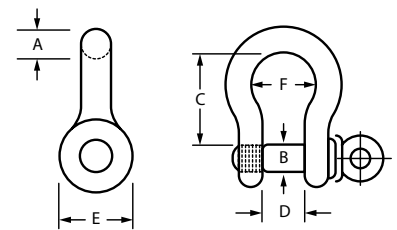
# SHACKLES



| SIZE (A) | WORKING LOAD LIMIT IN TONS | PIN DIAMETER IN INCHES (B) | APPROX. WEIGHT EACH IN POUNDS | ANCHOR SHACKLE SCREW PIN/ GALVANIZED |      |      |      |
|----------|----------------------------|----------------------------|-------------------------------|--------------------------------------|------|------|------|
|          |                            |                            |                               | C                                    | D    | E    | F    |
| 3/16"    | 1/3                        | 1/4                        | 0.05                          | 0.88                                 | 0.38 | 0.56 | 0.63 |
| 1/4"     | 1/2                        | 5/16                       | 0.13                          | 1.06                                 | 0.47 | 0.66 | 0.75 |
| 5/16"    | 3/4                        | 3/8                        | 0.21                          | 1.25                                 | 0.53 | 0.81 | 0.84 |
| 3/8"     | 1                          | 7/16                       | 0.33                          | 1.44                                 | 0.63 | 0.97 | 1.00 |
| 7/16"    | 1-1/2                      | 1/2                        | 0.47                          | 1.69                                 | 0.75 | 1.06 | 1.13 |
| 1/2"     | 2                          | 5/8                        | 0.76                          | 1.88                                 | 0.81 | 1.31 | 1.25 |
| 5/8"     | 3-1/4                      | 3/4                        | 1.44                          | 2.44                                 | 1.06 | 1.56 | 1.69 |
| 3/4"     | 4-3/4                      | 7/8                        | 2.3                           | 2.88                                 | 1.19 | 1.88 | 1.94 |
| 7/8"     | 6-1/2                      | 1                          | 3.5                           | 3.38                                 | 1.44 | 2.13 | 2.19 |
| 1"       | 8-1/2                      | 1-1/8                      | 5.0                           | 3.81                                 | 1.69 | 2.38 | 2.63 |
| 1-1/8"   | 9-1/2                      | 1-1/4                      | 7.0                           | 4.25                                 | 1.75 | 2.63 | 2.88 |
| 1-1/4"   | 12                         | 1-3/8                      | 9.5                           | 4.69                                 | 2.00 | 3.00 | 3.13 |
| 1-3/8"   | 13-1/2                     | 1-1/2                      | 13.0                          | 5.31                                 | 2.13 | 3.25 | 3.50 |
| 1-1/2"   | 17                         | 1-5/8                      | 16.5                          | 5.69                                 | 2.31 | 3.50 | 3.75 |
| 1-3/4"   | 25                         | 2                          | 29.0                          | 7.06                                 | 2.88 | 4.25 | 4.88 |
| 2"       | 35                         | 2-1/4                      | 43.0                          | 7.75                                 | 3.31 | 4.88 | 5.44 |
| 2-1/4"   | 45                         | 2-1/2                      | 59.4                          | 9.25                                 | 3.63 | 5.25 | 5.50 |
| 2-1/2"   | 55                         | 2-3/4                      | 86.0                          | 10.75                                | 4.13 | 5.88 | 7.25 |
| 3"       | 85                         | 3-1/4                      | 119.5                         | 13.75                                | 4.88 | 6.75 | 7.63 |

## ANCHOR SHACKLES SCREW PIN

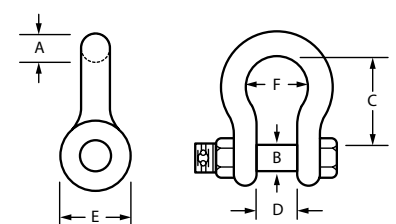
Galvanized, Alloy Steel Pin, Available in Commercial Grade



| SIZE (A) | WORKING LOAD LIMIT IN TONS | PIN DIAMETER IN INCHES (B) | APPROX. WEIGHT EACH IN POUNDS | ANCHOR SHACKLE SAFETY BOLT GALVANIZED |      |      |      |
|----------|----------------------------|----------------------------|-------------------------------|---------------------------------------|------|------|------|
|          |                            |                            |                               | C                                     | D    | E    | F    |
| 1/4"     | 1/2                        | 5/16                       | 0.13                          | 1.06                                  | 0.47 | 0.66 | 0.75 |
| 5/16"    | 3/4                        | 3/8                        | 0.21                          | 1.25                                  | 0.53 | 0.81 | 0.84 |
| 3/8"     | 1                          | 7/16                       | 0.33                          | 1.44                                  | 0.63 | 0.97 | 1.00 |
| 7/16"    | 1-1/2                      | 1/2                        | 0.47                          | 1.69                                  | 0.75 | 1.06 | 1.13 |
| 1/2"     | 2                          | 5/8                        | 0.76                          | 1.88                                  | 0.81 | 1.31 | 1.25 |
| 5/8"     | 3-1/4                      | 3/4                        | 1.44                          | 2.44                                  | 1.06 | 1.56 | 1.69 |

## ANCHOR SHACKLES SAFETY BOLT TYPE

Galvanized Alloy Steel Bolt & Nut



Read important warnings and information on the inside back cover of this catalog titled Cautions.

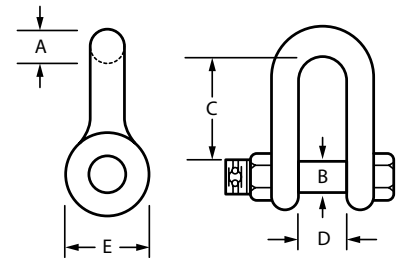
# SHACKLES



| SIZE (A) | WORK LOAD LIMIT IN TONS | BOLT DIAMETER IN INCHES (B) | APPROX. WEIGHT EACH IN POUNDS | CHAIN SHACKLES BOLT TYPE / GALVANIZED |      |      |
|----------|-------------------------|-----------------------------|-------------------------------|---------------------------------------|------|------|
|          |                         |                             |                               | C                                     | D    | E    |
| 1/2"     | 2                       | 5/8                         | 0.91                          | 1.69                                  | .81  | 1.25 |
| 5/8"     | 3-1/4                   | 3/4                         | 1.72                          | 2.09                                  | 1.09 | 1.53 |
| 3/4"     | 4-3/4                   | 7/8                         | 2.7                           | 2.44                                  | 1.28 | 1.81 |
| 7/8"     | 6-1/2                   | 1                           | 3.94                          | 2.94                                  | 1.47 | 2.13 |
| 1"       | 8-1/2                   | 1-1/8                       | 5.75                          | 3.25                                  | 1.69 | 2.38 |
| 1-1/8"   | 9-1/2                   | 1-1/4                       | 8.0                           | 3.56                                  | 1.84 | 2.69 |
| 1-1/4"   | 12                      | 1-3/8                       | 10.5                          | 3.94                                  | 2.00 | 2.94 |
| 1-3/8"   | 13-1/2                  | 1-1/2                       | 13.1                          | 4.50                                  | 2.25 | 3.34 |
| 1-1/2"   | 17                      | 1-5/8                       | 18.3                          | 5.00                                  | 2.31 | 3.63 |
| 1-3/4"   | 25                      | 2                           | 29.3                          | 6.00                                  | 2.88 | 4.13 |
| 2"       | 35                      | 2-1/4                       | 44.3                          | 7.00                                  | 3.25 | 4.75 |
| 2-1/2"   | 55                      | 2-3/4                       | 94.0                          | 8.50                                  | 4.25 | 5.75 |
| 3"       | 85                      | 3-1/4                       | 160.0                         | 9.44                                  | 4.88 | 6.38 |
| 3-1/2"   | 120                     | 3-3/4                       | 250.0                         | 5.50                                  | 5.50 | 7.75 |

## CHAIN SHACKLES BOLT TYPE

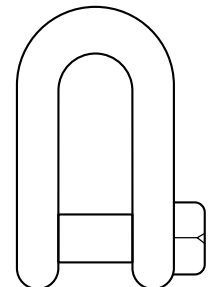
Galvanized



| SIZE (A) | WORK LOAD LIMIT IN TONS | BOLT DIAMETER IN INCHES (B) | APPROX. WEIGHT EACH IN POUNDS | CHAIN SHACKLES SQUARE HEAD |      |      |
|----------|-------------------------|-----------------------------|-------------------------------|----------------------------|------|------|
|          |                         |                             |                               | C                          | D    | E    |
| 1/2"     | 2                       | 5/8                         | 0.91                          | 1.69                       | 0.81 | 1.25 |
| 5/8"     | 3-1/4                   | 3/4                         | 1.72                          | 2.09                       | 1.09 | 1.53 |
| 3/4"     | 4-3/4                   | 7/8                         | 2.7                           | 2.44                       | 1.28 | 1.81 |
| 7/8"     | 6-1/2                   | 1                           | 3.94                          | 2.94                       | 1.47 | 2.13 |
| 1"       | 8-1/2                   | 1-1/8                       | 5.75                          | 3.25                       | 1.69 | 2.38 |
| 1-1/8"   | 9-1/2                   | 1-1/4                       | 8.0                           | 3.56                       | 1.84 | 2.69 |
| 1-1/4"   | 12                      | 1-3/8                       | 10.5                          | 3.94                       | 2.00 | 2.94 |
| 1-3/8"   | 13-1/2                  | 1-1/2                       | 13.1                          | 4.50                       | 2.25 | 3.34 |
| 1-1/2"   | 17                      | 1-5/8                       | 18.3                          | 5.00                       | 2.31 | 3.63 |
| 1-3/4"   | 25                      | 2                           | 29.3                          | 6.00                       | 2.88 | 4.13 |

## TRAWL CHAIN SHACKLES SQUARE HEAD

Self Color





# HAMMER LOCKS

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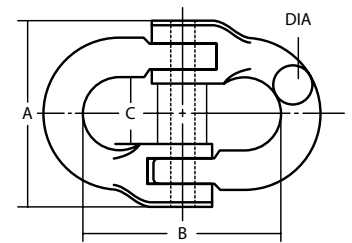


# HAMMER LOCKS

| DIAMETER | WORK LOAD LIMIT IN TONS | APPROX. WEIGHT EACH IN POUNDS | HAMMER LOCKS |      |      |
|----------|-------------------------|-------------------------------|--------------|------|------|
|          |                         |                               | A            | B    | C    |
| 3/8"     | 3                       | 0.44                          | 2.28         | 2.36 | 0.83 |
| 1/2"     | 4                       | 0.66                          | 2.52         | 2.76 | 0.89 |
| 5/8"     | 5                       | 1.17                          | 3.03         | 3.35 | 1.12 |
| 3/4"     | 8                       | 2.20                          | 3.66         | 4.13 | 1.30 |
| 7/8"     | 13                      | 3.37                          | 4.29         | 4.88 | 1.57 |
| 1"       | 15                      | 5.41                          | 4.96         | 5.51 | 1.81 |

## HAMMER LOCKS

Grade 80



All of our material is backed by a 100% "flaw free" guarantee.

# WELDABLE GRAB HOOKS & D-RINGS



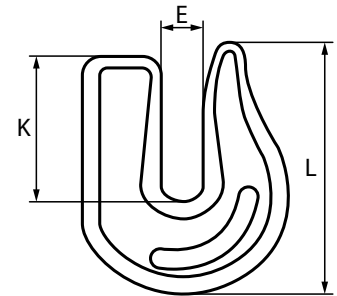


# WELDABLE GRAB HOOKS & D-RINGS

| SIZE ROPE DIAMETER | WELDABLE GRAB HOOK |                       |                            |                  |
|--------------------|--------------------|-----------------------|----------------------------|------------------|
|                    | Rockwell Hardness  | Yield Point in Pounds | Ultimate Failure in Pounds | Weight in Pounds |
| 5/16"              | 95.0               | 9,500-10,000          | 12,000                     | 0.375            |
| 3/8"               | -                  | -                     | -                          | -                |
| 1/2"               | upon request       | upon request          | 32,800                     | 1.39             |
| 5/8"               | -                  | -                     | -                          | -                |

Read important warnings and information on the inside back cover of this catalog titled Cautions.

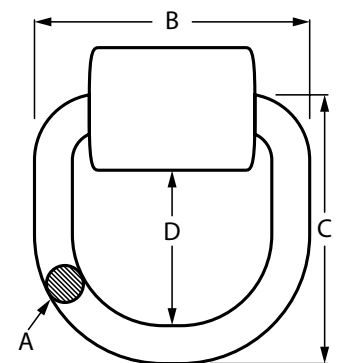
## WELDABLE GRAB HOOK



Carbon Steel Self Colored

| SIZE (A) | WELD ON D-RINGS |      |      |            |                   |                    |
|----------|-----------------|------|------|------------|-------------------|--------------------|
|          | Dimensions      |      |      | WLL        | Breaking Strength | Weight Each (lbs.) |
|          | B               | C    | D    |            |                   |                    |
| 1/2"     | 3.37            | 3.50 | 2.50 | 4,100 Lbs  | 20,500 Lbs        | 1.09               |
| 5/8"     | 4.25            | 4.25 | 3.00 | 8,800 Lbs  | 44,000 Lbs        | 1.78               |
| 3/4"     | 4.50            | 4.50 | 3.00 | 10,600 Lbs | 53,000 Lbs        | 2.26               |
| 1"       | 5.00            | 6.00 | 4.00 | 17,000 Lbs | 85,000 Lbs        | 4.83               |

## WELD ON D-RINGS



Carbon Steel Self Colored



# CLEATS

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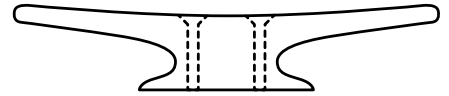
# CLEATS



| LENGTH | OPEN BASED CLEAT / GALVANIZED IRON |           | WEIGHT IN POUNDS |
|--------|------------------------------------|-----------|------------------|
|        | BOLT SIZE                          |           |                  |
| 4"     | #10                                | FH        | 0.24             |
| 5"     | #10                                | FH or HEX | 0.30             |
| 6"     | 1/4"                               | HEX       | 0.38             |
| 8"     | 5/16"                              | HEX       | 1.46             |
| 10"    | 3/8"                               | HEX       | 2.12             |
| 12"    | 3/8"                               | HEX       | 3.50             |
| 14"    | 1/2"                               | HEX       | 5.88             |
| 18"    | 5/8"                               | HEX       | 11.00            |

## STANDARD DUTY OPEN BASE CLEATS

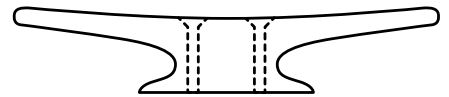
Galvanized Iron



| LENGTH | OPEN BASED CLEAT / GALVANIZED IRON |     | WEIGHT IN POUNDS |
|--------|------------------------------------|-----|------------------|
|        | BOLT SIZE                          |     |                  |
| 8"     | 5/16"                              | HEX | 2.6              |
| 10"    | 3/8"                               | HEX | 5.2              |
| 12"    | 3/8"                               | HEX | 9.33             |
| 15"    | 1/2"                               | HEX | 13.23            |
| 18"    | 5/8"                               | HEX | 18.74            |

## HEAVY DUTY OPEN BASE CLEATS

Galvanized Iron



Read important warnings and information on the inside back cover of this catalog titled Cautions.



# TURNBUCKLES



 **M&G**  
Industries



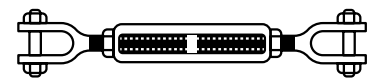


# TURNBUCKLES

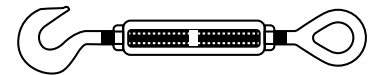
| SIZE (DIA. X TAKE-UP) | TURNBUCKLES / HOT GALVANIZED, DROP FORGED |                     |                            |                         |                      |   |
|-----------------------|---|---------------------|----------------------------|-------------------------|----------------------|---|
|                       | APPROXIMATE WEIGHT EACH IN POUNDS         |                     | WORKING LOAD LIMIT IN LBS. |                         |                      | Avg. Overall Length, with Ends in Closed Pos. |
|                       | Approximate Weight Each in Pounds         | Eyes and / or Hooks | Jaw & Eye                  | Hook & Hook, Hook & Eye | Eye & Eye, Jaw & Jaw |   |
| 1/4 x 4"              | 0.3                                       | 0.3                 | 0.4                        | 400                     | 500                  | 8.25  |
| 5/16 x 4-1/2"         | 0.5                                       | 0.53                | 0.58                       | 700                     | 800                  | 9.56  |
| 3/8 x 6"              | 0.75                                      | 0.82                | 0.93                       | 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   |
| 5/8x 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                                     | 12.0                | 12.88                      | 5,000                   | 10,000               | 26.63   |
| 1 x 18"               | 14.0                                      | 14.75               | 16.1                       | 5,000                   | 10,000               | 32.63   |
| 1 x 24"               | 17.0                                      | 17.75               | 18.6                       | 5,000                   | 10,000               | 38.63   |
| 1-1/4 x 12"           | 19.0                                      | 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"           | 25.0                                      | 28.7                | 31.2                       | 5,000                   | 15,200               | 41.88   |
| 1-1/2 x 12"           | 27.0                                      | 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"           | 53.0                                      | 57.5                | 62.0                       | -                       | 28,000               | 41.38   |
| 1-3/4 x 24"           | 58.0                                      | 60.0                | 64.0                       | -                       | 28,000               | 47.75   |
| 2 x 24"               | 90.0                                      | 102.0               | 115.0                      | -                       | 37,000               | 51.75   |
| 2-1/2 x 24"           | 163.0                                     | 180.0               | 200.0                      | -                       | 60,000               | 58.50   |
| 2-3/4 x 24"           | 180.0                                     | 214.0               | 248.0                      | -                       | 75,000               | 61.50   |

## TURNBUCKLES

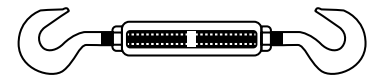
Hot Galvanized, Drop Forged



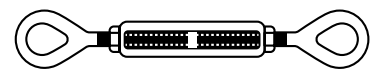
Jaw & Jaw



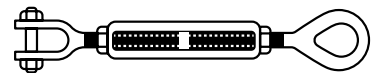
Hook & Eye



Hook & Hook



Eye & Eye



Jaw & Eye

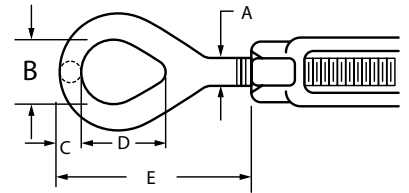
All turnbuckles available with lock nuts upon request.



# TURNBUCKLES

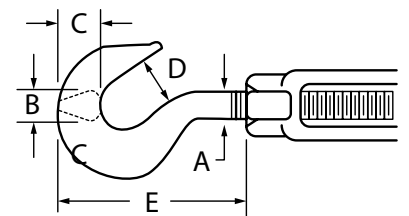
| TURNBUCKLES / HOOK DIMENSIONS |      |      |      |       |
|-------------------------------|------|------|------|-------|
| A                             | B    | C    | D    | E     |
| 1/4"                          | 0.34 | 0.22 | 0.78 | 1.78  |
| 5/16"                         | 0.44 | 0.28 | 0.94 | 2.19  |
| 3/8"                          | 0.53 | 0.34 | 1.13 | 2.56  |
| 1/2"                          | 0.72 | 0.44 | 1.44 | 3.22  |
| 5/8"                          | 0.88 | 0.50 | 1.75 | 3.88  |
| 3/4"                          | 1.00 | 0.63 | 2.13 | 4.69  |
| 7/8"                          | 1.25 | 0.75 | 2.38 | 5.25  |
| 1"                            | 1.44 | 0.88 | 3.00 | 6.38  |
| 1-1/4"                        | 1.81 | 1.13 | 3.56 | 7.75  |
| 1-1/2"                        | 2.13 | 1.25 | 4.13 | 8.63  |
| 1-3/4"                        | 2.38 | 1.50 | 4.69 | 10.00 |
| 2"                            | 2.69 | 1.75 | 5.75 | 12.13 |
| 2-1/2"                        | 3.13 | 2.00 | 6.50 | 13.56 |
| 2-3/4"                        | 3.25 | 2.25 | 7.00 | 15.00 |

## TURNBUCKLES/HOOK



| TURNBUCKLES / EYE DIMENSIONS |      |      |      |      |
|------------------------------|------|------|------|------|
| A                            | B    | C    | D    | E    |
| 1/4"                         | 0.25 | 0.41 | 0.45 | 1.66 |
| 5/16"                        | 0.31 | 0.44 | 0.50 | 1.91 |
| 3/8"                         | 0.38 | 0.53 | 0.56 | 2.28 |
| 1/2"                         | 0.50 | 0.69 | 0.66 | 2.84 |
| 5/8"                         | 0.63 | 0.84 | 0.84 | 3.53 |
| 3/4"                         | 0.75 | 1.00 | 0.97 | 4.31 |
| 7/8"                         | 0.88 | 1.19 | 1.13 | 5.00 |
| 1"                           | 1.00 | 1.38 | 1.25 | 5.69 |
| 1-1/4"                       | 1.06 | 1.50 | 1.50 | 6.91 |
| 1-1/2"                       | 1.31 | 1.75 | 1.88 | 8.68 |

## TURNBUCKLES/EYE



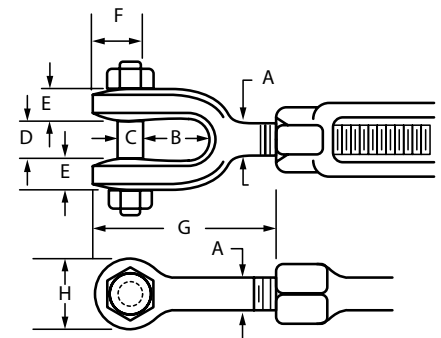




# TURNBUCKLES

| TURNBUCKLES / JAW DIMENSIONS |      |      |      |      |      |       |      |
|------------------------------|------|------|------|------|------|-------|------|
| A                            | B    | C    | D    | E    | F    | G     | H    |
| 1/4"                         | 0.63 | 0.25 | 0.41 | 0.28 | 0.50 | 1.63  | 0.63 |
| 5/16"                        | 0.88 | 0.25 | 0.47 | 0.28 | 0.50 | 2.00  | 0.69 |
| 3/8"                         | 0.88 | 0.31 | 0.50 | 0.31 | 0.59 | 2.19  | 0.81 |
| 1/2"                         | 1.06 | 0.38 | 0.63 | 0.41 | 0.75 | 2.75  | 1.00 |
| 5/8"                         | 1.31 | 0.50 | 0.75 | 0.50 | 1.03 | 3.50  | 1.31 |
| 3/4"                         | 1.50 | 0.63 | 0.94 | 0.56 | 1.28 | 4.13  | 1.63 |
| 7/8"                         | 1.75 | 0.75 | 1.13 | 0.69 | 1.47 | 4.84  | 1.88 |
| 1"                           | 2.06 | 0.88 | 1.19 | 0.78 | 1.66 | 5.53  | 2.13 |
| 1-1/4"                       | 2.81 | 1.13 | 1.75 | 1.00 | 2.09 | 7.19  | 2.63 |
| 1-1/2"                       | 2.81 | 1.38 | 2.06 | 1.06 | 2.47 | 7.88  | 3.13 |
| 1-3/4"                       | 3.38 | 1.63 | 2.38 | 1.25 | 2.91 | 9.38  | 3.50 |
| 2"                           | 3.75 | 2.00 | 2.50 | 1.56 | 3.53 | 10.88 | 4.19 |
| 2-1/2"                       | 4.19 | 2.25 | 2.88 | 1.56 | 4.63 | 13.34 | 5.63 |
| 2-3/4"                       | 4.44 | 2.75 | 3.50 | 1.63 | 5.38 | 15.00 | -    |

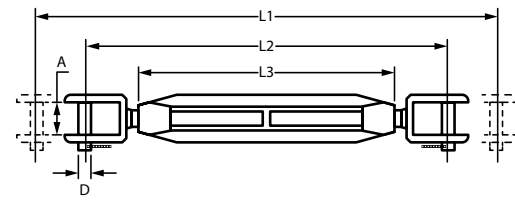
## TURNBUCKLES/JAW



| SIZE  | LASHING TURNBUCKLE WELDED FORKS |                  |     |     |       |       |      |
|-------|---------------------------------|------------------|-----|-----|-------|-------|------|
|       | BREAKING LOAD IN POUNDS         | WEIGHT IN POUNDS | A   | D   | L1    | L2    | L3   |
| 3/16" | 1,800                           | 0.12             | .25 | .19 | 7.50  | 5.00  | 3.13 |
| 1/4"  | 2,400                           | 0.22             | .28 | .25 | 8.50  | 5.50  | 3.50 |
| 5/16" | 4,500                           | 0.35             | .31 | .31 | 9.50  | 6.50  | 4.00 |
| 3/8"  | 6,500                           | 0.55             | .38 | .38 | 10.75 | 7.25  | 4.50 |
| 1/2"  | 11,000                          | 1.10             | .50 | .50 | 14.25 | 9.50  | 6.00 |
| 9/16" | 16,000                          | 1.80             | .56 | .56 | 15.25 | 10.25 | 7.00 |
| 5/8"  | 20,000                          | 2.70             | .63 | .63 | 18.00 | 12.00 | 8.00 |

## LASHING TURNBUCKLES WELDED FORKS & EYES

Self Color



# EYE BOLTS & EYE NUTS

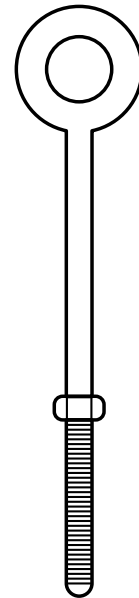




# EYE BOLTS & EYE NUTS

## REGULAR NUT EYE BOLT

Hot galvanized, forged steel



| REGULAR NUT EYE BOLT |         |                     |                  |                    |
|----------------------|---------|---------------------|------------------|--------------------|
| SIZE INCH            | WLL LBS | THREAD LENGTHS INCH | I.D. IF EYE INCH | N.W. LBS / 100 PCS |
| 1/4 x 2              | 650     | 1.5                 | 0.50             | 6.00               |
| 1/4 x 4              | 650     | 2.5                 | 0.50             | 13.50              |
| 5/16 x 2-1/4         | 1,200   | 1.5                 | 0.62             | 18.75              |
| 5/16 x 4-1/4         | 1,200   | 2.5                 | 0.62             | 25.00              |
| 3/8 x 2-1/2          | 1,550   | 1.5                 | 0.75             | 24.33              |
| 3/8 x 4-1/2          | 1,550   | 2.5                 | 0.75             | 37.50              |
| 3/8 x 6              | 1,550   | 2.5                 | 0.75             | 43.75              |
| 1/2 x 3-1/4          | 2,600   | 1.5                 | 1.00             | 50.00              |
| 1/2 x 6              | 2,600   | 3.0                 | 1.00             | 62.50              |
| 1/2 x 8              | 2,600   | 3.0                 | 1.00             | 75.00              |
| 1/2 x 10             | 2,600   | 3.0                 | 1.00             | 88.00              |
| 1/2 x 12             | 2,600   | 3.0                 | 1.00             | 100.00             |
| 5/8 x 4              | 5,200   | 2.0                 | 1.25             | 101.25             |
| 5/8 x 6              | 5,200   | 3.0                 | 1.25             | 120.00             |
| 5/8 x 8              | 5,200   | 3.0                 | 1.25             | 131.00             |
| 5/8 x 10             | 5,200   | 3.0                 | 1.25             | 162.50             |
| 5/8 x 12             | 5,200   | 4.0                 | 1.25             | 175.00             |
| 3/4 x 4-1/2          | 7,200   | 2.0                 | 1.50             | 185.90             |
| 3/4 x 6              | 7,200   | 3.0                 | 1.50             | 180.00             |
| 3/4 x 8              | 7,200   | 3.0                 | 1.50             | 200.00             |
| 3/4 x 10             | 7,200   | 3.0                 | 1.50             | 237.50             |
| 3/4 x 12             | 7,200   | 4.0                 | 1.50             | 251.94             |
| 3/4 x 15             | 7,200   | 5.0                 | 1.50             | 300.00             |
| 7/8 x 5              | 10,600  | 2.5                 | 1.75             | 275.00             |
| 7/8 x 8              | 10,600  | 4.0                 | 1.75             | 325.00             |
| 7/8 x 12             | 10,600  | 4.0                 | 1.75             | 400.00             |
| 1 x 6                | 13,300  | 3.0                 | 2.00             | 425.00             |
| 1 x 9                | 13,300  | 4.0                 | 2.00             | 452.00             |
| 1 x 12               | 13,300  | 4.0                 | 2.00             | 550.00             |
| 1 x 18               | 13,300  | 7.0                 | 2.00             | 650.00             |
| 1-1/4 x 8            | 21,000  | 4.0                 | 2.50             | 750.00             |
| 1-1/4 x 12           | 21,000  | 4.0                 | 2.50             | 900.00             |
| 1-1/4 x 20           | 21,000  | 6.0                 | 2.50             | 1,150.00           |

# EYE BOLTS & EYE NUTS

| SHOULDER NUT EYE BOLT |            |                     |                  |                    |
|-----------------------|------------|---------------------|------------------|--------------------|
| SIZE INCH             | W.L.L. LBS | THREAD LENGTHS INCH | I.D. IF EYE INCH | N.W. LBS / 100 PCS |
| 1/4 x 2               | 650        | 1.5                 | 0.50             | 6.61               |
| 1/4 x 4               | 650        | 2.5                 | 0.50             | 8.61               |
| 5/16 x 2-1/4          | 1,200      | 1.5                 | 0.62             | 12.50              |
| 5/16 x 4-1/4          | 1,200      | 2.5                 | 0.62             | 18.75              |
| 3/8 x 2-1/2           | 1,550      | 1.5                 | 0.75             | 19.00              |
| 3/8 x 4-1/2           | 1,550      | 2.5                 | 0.75             | 31.58              |
| 1/2 x 3-1/4           | 2,600      | 1.5                 | 1.00             | 37.50              |
| 1/2 x 6               | 2,600      | 3.0                 | 1.00             | 56.25              |
| 5/8 x 4               | 5,200      | 2.0                 | 1.25             | 75.00              |
| 5/8 x 6               | 5,200      | 3.0                 | 1.25             | 100.25             |
| 3/4 x 4-1/2           | 7,200      | 2.0                 | 1.50             | 125.00             |
| 3/4 x 6               | 7,200      | 3.0                 | 1.50             | 150.00             |
| 7/8 x 5               | 10,000     | 2.5                 | 1.75             | 225.00             |
| 1 x 6                 | 13,300     | 3.0                 | 2.00             | 375.00             |
| 1 x 9                 | 13,300     | 4.0                 | 2.00             | 429.00             |
| 1-1/4 x 8             | 21,000     | 4.0                 | 2.50             | 650.00             |
| 1-1/4 x 12            | 21,000     | 4.0                 | 2.50             | 775.00             |
| 1-1/4 x 15            | 24,000     | 6.0                 | 3.00             | 1,425.00           |

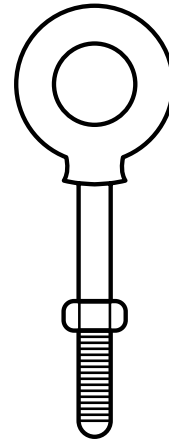
M.B.S. is 5 times of W.L.L.

| SHOULDER MACHINERY EYE BOLT |            |                     |                  |                    |
|-----------------------------|------------|---------------------|------------------|--------------------|
| SIZE INCH                   | W.L.L. LBS | THREAD LENGTHS INCH | I.D. IF EYE INCH | N.W. LBS / 100 PCS |
| 1/4 x 1                     | 650        | 1.00                | 0.88             | 3.20               |
| 5/16 x 1-1/8                | 1,200      | 1.13                | 1.12             | 6.20               |
| 3/8 x 1-1/4                 | 1,550      | 1.25                | 1.38             | 12.50              |
| 1/2 x 1-1/2                 | 2,600      | 1.50                | 1.75             | 25.00              |
| 5/8 x 1-3/4                 | 5,200      | 1.75                | 2.25             | 50.00              |
| 3/4 x 2                     | 7,200      | 2.00                | 2.75             | 87.50              |
| 7/8 x 2-1/4                 | 10,600     | 2.25                | 3.25             | 150.00             |
| 1 x 2-1/2                   | 13,300     | 2.50                | 3.75             | 218.00             |
| 1-1/4 x 3                   | 21,000     | 3.00                | 4.50             | 380.00             |
| 1-1/2 x 3-1/2               | 24,000     | 3.50                | 5.50             | 700.00             |

M.B.S. is 5 times of W.L.L.

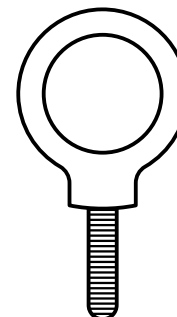
## SHOULDER NUT EYE BOLT

Hot galvanized, forged steel



## SHOULDER MACHINERY EYE BOLT

Hot galvanized, forged steel

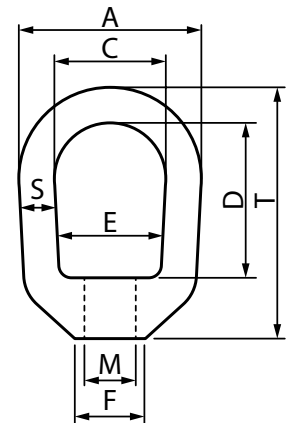


# EYE BOLTS & EYE NUTS

| STD. LAP SIZE INCH | EYE NUTS FORGED STEEL DIMENSIONS (INCH) |       |         |        |       |         | MAX LAP SIZE POSSIBLE | W.L.L. LBS | WEIGHT LBS |
|--------------------|---|-------|---------|--------|-------|---------|-----------------------|------------|------------|
|                    | A                                       | C     | E       | F      | S     | T       |                       |            |            |
| 1/4"               | 1-1/4                                   | 3/4   | 21/32   | 1/2    | 1/4   | 1-11/16 | 3/8                   | 520        | 0.09       |
| 5/16"              | 1-1/4                                   | 3/4   | 21/32   | 1/2    | 1/4   | 1-11/16 | 3/8                   | 850        | 0.09       |
| 3/8"               | 1-5/8                                   | 1     | 3/4     | 9/16   | 5/16  | 2-1/16  | 7/16                  | 1,250      | 0.18       |
| 7/16"              | 2                                       | 1-1/4 | 1       | 13/16  | 3/8   | 2-1/2   | 1/2                   | 1,700      | 0.29       |
| 1/2"               | 2                                       | 1-1/4 | 1       | 13/16  | 3/8   | 2-1/2   | -                     | 2,250      | 0.29       |
| 5/8"               | 2-1/2                                   | 1-1/2 | 1-3/16  | 1      | 1/2   | 3-3/16  | 3/4                   | 3,600      | 0.58       |
| 3/4"               | 3                                       | 1-3/4 | 1-3/8   | 1-1/8  | 5/8   | 3-7/8   | 7/8                   | 5,200      | 1.00       |
| 7/8"               | 3-1/2                                   | 2     | 1-5/8   | 1-5/16 | 3/4   | 4-5/16  | 1                     | 7,200      | 1.70       |
| 1"                 | 4                                       | 2-1/4 | 1-7/8   | 1-9/16 | 7/8   | 5       | 1-1/4                 | 10,000     | 2.75       |
| 1-1/8"             | 4                                       | 2-1/4 | 1-7/8   | 1-9/16 | 7/8   | 5       | 1-1/4                 | 12,300     | 2.75       |
| 1-1/4"             | 4-1/2                                   | 2-1/2 | 1-15/16 | 1-7/8  | 1     | 5-3/4   | 1-1/2                 | 15,500     | 3.85       |
| 1-3/8"             | 5                                       | 2-3/4 | 2       | 2      | 1-1/8 | 6-1/4   | 1-1/2                 | 18,500     | 5.00       |
| 1-1/2"             | 5-5/8                                   | 3-1/8 | 2-3/8   | 2-1/4  | 1-1/4 | 6-3/4   | 1-3/4                 | 22,500     | 6.70       |
| 2                  | 7                                       | 4     | 4       | 3-3/8  | 1-1/2 | 10      | 2-3/4                 | 40,000     | 18.70      |

## EYE NUTS

Forged steel



Read important warnings and information on the inside back cover of this catalog titled Cautions.



# BLOCKS

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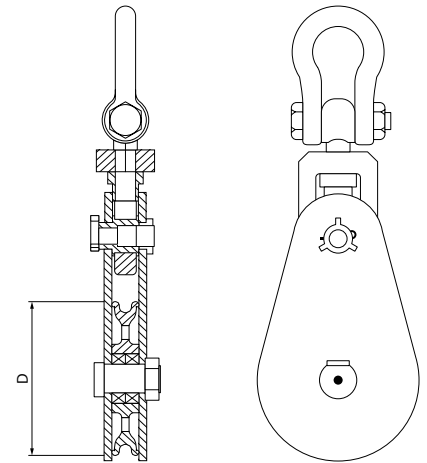


# BLOCKS



| SIZE (INCH) | S.W.L (TON) | DIAMETER | N.W. (KGS) |
|-------------|-------------|----------|------------|
| 3           | 1.5         | 4-6 MM   | 1.50       |
| 4           | 3.0         | 6-9 MM   | 2.30       |
| 5           | 4.5         | 8-12 MM  | 4.14       |
| 6           | 6.0         | 10-14 MM | 6.60       |
| 8           | 8.0         | 14-18 MM | 13.50      |

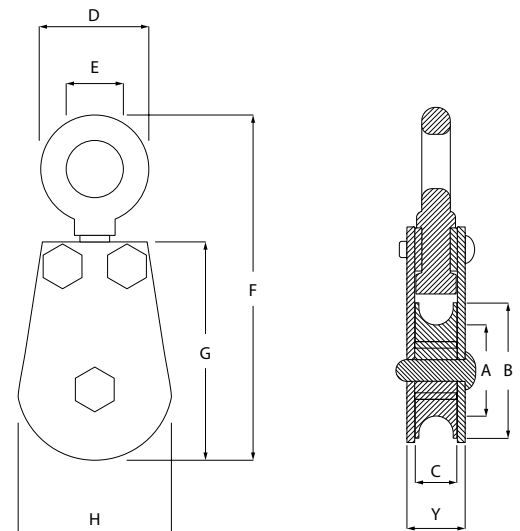
## SNATCH BLOCK WITH SHACKLE



| SIZE (INCH) | S.W.L (TON) | DIAMETER | N.W. (KGS) |
|-------------|-------------|----------|------------|
| 3           | 1.5         | 4-6 MM   | 1.65       |
| 4           | 3.0         | 6-9 MM   | 2.90       |
| 5           | 4.5         | 8-12 MM  | 5.40       |
| 6           | 6.0         | 10-14 MM | 7.95       |
| 8           | 8.0         | 14-18 MM | 18.05      |

## SNATCH BLOCK WITH EYE

Single



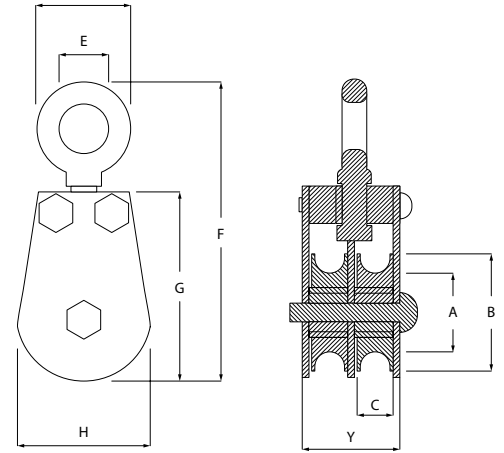


# BLOCKS

| SIZE (INCH) | S.W.L (TON) | DIAMETER | N.W. (KGS) |
|-------------|-------------|----------|------------|
| 3           | 1.5         | 4-6 MM   | 1.65       |
| 4           | 3.0         | 6-9 MM   | 2.90       |
| 5           | 4.5         | 8-12 MM  | 5.40       |
| 6           | 6.0         | 10-14 MM | 7.95       |
| 8           | 8.0         | 14-18 MM | 18.05      |

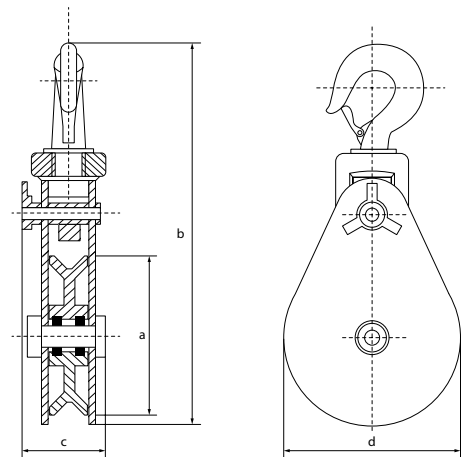
## SNATCH BLOCK WITH EYE

Double



| SIZE (INCH) | S.W.L (TON) | DIAMETER | N.W. (KGS) |
|-------------|-------------|----------|------------|
| 3           | 2           | 3/8      | 2.30       |
| 4-1/2       | 4           | 1/2      | 5.74       |
| 6           | 8           | 3/4      | 11.50      |
| 8           | 8           | 3/4      | 15.75      |
| 10          | 8           | 3/4      | 21.90      |
| 12          | 8           | 3/4      | 30.00      |
| 14          | 8           | 3/4      | 36.00      |
| 16          | 15          | 7/8      | 99.00      |
| 18          | 15          | 1        | 112.50     |

## SNATCH BLOCK WITH HOOK





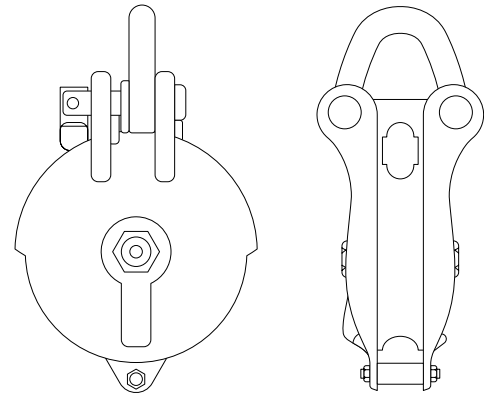


# BLOCKS



| SIZE (INCH) | S.W.L (TON) | DIAMETER | N.W. (KGS) |
|-------------|-------------|----------|------------|
| 3           | 2           | 3/8      | 2.24       |
| 4-1/2       | 4           | 1/2      | 5.74       |
| 6           | 8           | 3/4      | 12.50      |
| 8           | 8           | 3/4      | 16.50      |
| 10          | 8           | 3/4      | 22.00      |
| 12          | 8           | 3/4      | 29.50      |
| 14          | 8           | 3/4      | 35.60      |
| 16          | 15          | 7/8      | 102.00     |
| 18          | 15          | 1        | 118.00     |

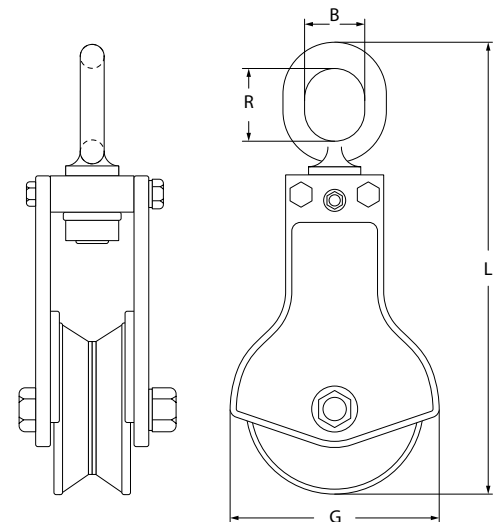
## YARDING SNATCH BLOCK WITH BAIL



| SIZE (INCH) | S.W.L (TON) | N.W. (POUNDS) |
|-------------|-------------|---------------|
| 6           | 5           | 23            |

## TRAWL BLOCK

F501 Galvanized



# STAINLESS STEEL FITTINGS





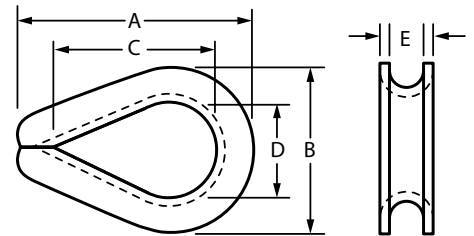
# STAINLESS STEEL FITTINGS



| SIZE           | APPROX. WEIGHT EACH IN POUNDS | HEAVY DUTY WIRE ROPE THIMBLE / STAINLESS STEEL TYPE 304 |      |      |      |      |
|----------------|-------------------------------|---|------|------|------|------|
|                |                               | A   | B    | C    | D    | E    |
| 1/4"           | 0.08                          | 2.19  | 1.50 | 1.63 | .88  | .41  |
| 5/16"          | 0.10                          | 2.50  | 1.88 | 1.88 | 1.13 | .50  |
| 3/8"           | 0.25                          | 2.88  | 2.09 | 2.09 | 1.13 | .66  |
| 1/2"           | 0.45                          | 3.63  | 2.63 | 2.75 | 1.50 | .88  |
| 5/8"           | 0.68                          | 4.25  | 3.09 | 3.25 | 1.75 | 1.00 |
| 3/4"           | 1.20                          | 5.00  | 3.50 | 3.75 | 2.00 | 1.25 |
| 7/8"           | 1.85                          | 5.66  | 4.19 | 4.31 | 2.25 | 1.50 |
| 1"             | 2.20                          | 6.13  | 4.63 | 5.00 | 2.50 | 1.56 |
| 1-1/8 - 1-1/4" | 3.80                          | 7.13  | 5.33 | 5.38 | 2.88 | 1.88 |
| 1-1/4 - 1-3/8" | 8.60                          | 8.38  | 6.67 | 6.50 | 3.50 | 2.25 |

## HEAVY DUTY WIRE ROPE THIMBLE

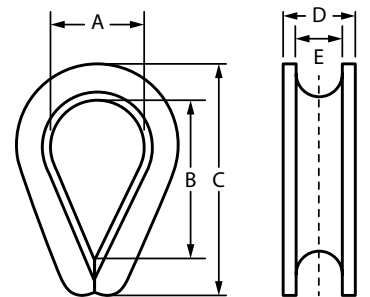
Stainless Steel Type 304 & Type 316



| SIZE  | APPROX. WEIGHT EACH IN POUNDS | STANDARD DUTY WIRE ROPE THIMBLE / STAINLESS STEEL TYPE 304 |    |     |      |    |
|-------|-------------------------------|--|----|-----|------|----|
|       |                               | A  | B  | C   | D    | E  |
| 3/32" | 0.4                           | 7.0  | 12 | 21  | 5.0  | 3  |
| 1/8"  | 0.5                           | 9.0  | 14 | 23  | 6.0  | 4  |
| 5/32" | 0.6                           | 11.0   | 16 | 27  | 7.0  | 5  |
| 3/16" | 0.8                           | 14.5   | 21 | 21  | 8.0  | 6  |
| 1/4"  | 1.0                           | 16.0   | 26 | 39  | 9.5  | 7  |
| 7/32" | 1.2                           | 18.5   | 29 | 42  | 10.0 | 8  |
| 5/16" | 2.2                           | 21.0   | 35 | 50  | 12.0 | 9  |
| 9/32" | 3.0                           | 26.0   | 42 | 59  | 14.0 | 11 |
| 1/2"  | 4.8                           | 31.0   | 48 | 70  | 17.5 | 14 |
| 9/16" | 6.2                           | 34.0   | 55 | 76  | 20.0 | 16 |
| 5/8"  | 8.2                           | 39.0   | 63 | 85  | 21.0 | 17 |
| 1/16" | 12.0                          | 41.0   | 68 | 93  | 23.0 | 19 |
| 3/8"  | 15.5                          | 45.0   | 73 | 103 | 26.0 | 22 |
| 7/8"  | 17.2                          | 50.0   | 82 | 112 | 32.0 | 24 |
| 1"    | 21.2                          | 54.0   | 92 | 125 | 34.0 | 26 |

## STANDARD DUTY WIRE ROPE THIMBLES

Stainless Steel Type 304 Forged



Read important warnings and information on the inside cover of this catalog titled Cautions.

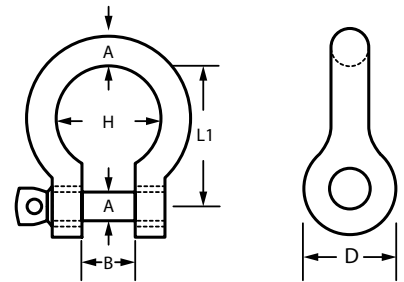


# STAINLESS STEEL FITTINGS

| SIZE (A)<br>(INCHES) | ANCHOR SHACKLE / STAINLESS STEEL 316, SCREW PIN |            |           |        |        |        |        |
|----------------------|---|------------|-----------|--------|--------|--------|--------|
|                      | BREAKING<br>LOAD                                | WEIGHT     |           | B (MM) | B (MM) | B (MM) | B (MM) |
|                      |   | Body (kgs) | Pin (kgs) |        |        |        |        |
| 5/32"                | 750   | 0.009      | 0.003     | 8      | 14     | 8      | 16     |
| 3/16"                | 1,300   | 0.014      | 0.004     | 10     | 17     | 10     | 20     |
| 1/4"                 | 1,800   | 0.022      | 0.006     | 12     | 21     | 12     | 24     |
| 5/16"                | 3,500   | 0.048      | 0.016     | 16     | 28     | 16     | 32     |
| 13/32"               | 5,400   | 0.120      | 0.030     | 20     | 34     | 20     | 40     |
| 15/32"               | 7,200   | 0.168      | 0.055     | 24     | 42     | 24     | 48     |
| 1/2"                 | 11,200  | 0.228      | 0.070     | 26     | 45     | 26     | 52     |
| 9/16"                | 12,000  | 0.305      | 0.105     | 28     | 50     | 28     | 56     |
| 5/8"                 | 13,500  | 0.420      | 0.130     | 32     | 56     | 32     | 64     |
| 3/4"                 | 18,200  | 0.756      | 0.210     | 38     | 66     | 38     | 76     |
| 7/8"                 | 21,000  | 1.125      | 0.330     | 44     | 77     | 44     | 88     |
| 1"                   | 24,000  | 1.620      | 0.490     | 50     | 87     | 50     | -      |

## EUROPEAN & U.S. STAINLESS STEEL ANCHOR SHACKLES

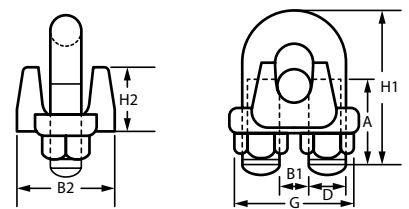
Stainless Steel Type 316  
Forged



| SIZE | APPROX. WEIGHT EACH<br>IN POUNDS | WIRE ROPE CLIPS / STAINLESS STEEL TYPE 316 |         |         |         |        |         |        |
|------|----------------------------------|--|---------|---------|---------|--------|---------|--------|
|      |                                  | A (MM)                                     | B1 (MM) | B2 (MM) | B2 (MM) | D (MM) | H2 (MM) | 1 (MM) |
| 2"   | .01                              | 10   | 4       | 14      | M3      | 18     | 11      | 14     |
| 3"   | .017                             | 12   | 5       | 16      | M4      | 24     | 12      | 17     |
| 4"   | .02                              | 13   | 6       | 18      | M4      | 24     | 14      | 19     |
| 5"   | .035                             | 15   | 7       | 20      | M6      | 33     | 16      | 24     |
| 6"   | .04                              | 15   | 8       | 22      | M6      | 33     | 18      | 28     |
| 8"   | .08                              | 20   | 10      | 28      | M8      | 40     | 21      | 34     |
| 10"  | .14                              | 28   | 12      | 35      | M10     | 50     | 24      | 45     |
| 12"  | .22                              | 35   | 14      | 39      | M12     | 60     | 28      | 51     |
| 14"  | .27                              | 40   | 16      | 45      | M12     | 65     | 33      | 53     |
| 16"  | .38                              | 45   | 18      | 48      | M14     | 75     | 38      | 60     |
| 19"  | .44                              | 50   | 20      | 53      | M14     | 80     | 40      | 62     |

## WIRE ROPE CLIPS

Stainless Steel Type 316



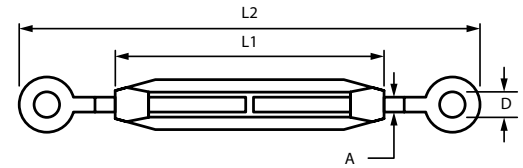
Read important warnings and information on the inside back cover of this catalog titled Cautions.



# STAINLESS STEEL TURNBUCKLES

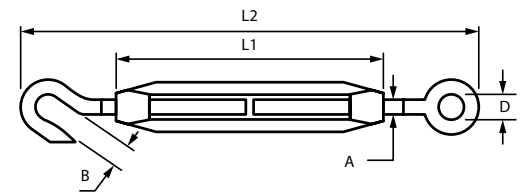
| SIZE  | TURNBUCKLE WELDED FORKS / STAINLESS STEEL 316 FORGED |                  |     |     |       |       |
|-------|--|------------------|-----|-----|-------|-------|
|       | BREAKING LOAD IN POUNDS                              | WEIGHT IN POUNDS | A   | D   | L1    | L2    |
| 3/16" | 1,650  | 0.10             | .19 | .31 | 2.75  | 4.75  |
| 1/4"  | 2,200  | 0.20             | .25 | .38 | 3.38  | 6.38  |
| 5/16" | 4,200  | 0.30             | .31 | .56 | 4.75  | 8.00  |
| 3/8"  | 6,300  | 0.50             | .38 | .63 | 6.00  | 9.50  |
| 1/2"  | 10,000   | 1.00             | .50 | .61 | 8.00  | 12.00 |
| 5/8"  | 15,000   | 1.80             | .63 | .75 | 10.00 | 15.50 |

## STAINLESS STEEL TURNBUCKLES EYE & EYE



| SIZE  | TURNBUCKLE WELDED FORKS / STAINLESS STEEL 316 FORGED |                  |     |     |      |       |       |
|-------|--|------------------|-----|-----|------|-------|-------|
|       | BREAKING LOAD IN POUNDS                              | WEIGHT IN POUNDS | A   | D   | L1   | L2    | L3    |
| 3/16" | 1,650  | 0.10             | .19 | .36 | 0.31 | 2.75  | 4.75  |
| 1/4"  | 2,200  | 0.20             | .25 | .38 | 0.38 | 3.38  | 6.38  |
| 5/16" | 4,200  | 0.30             | .31 | .44 | 0.56 | 4.75  | 8.00  |
| 3/8"  | 6,300  | 0.50             | .38 | .50 | 0.63 | 6.00  | 9.50  |
| 1/2"  | 10,000   | 1.00             | .50 | .56 | 6.10 | 8.00  | 12.00 |
| 5/8"  | 15,000   | 1.80             | .63 | .63 | 0.75 | 10.00 | 15.50 |

## STAINLESS STEEL TURNBUCKLES HOOK & EYE

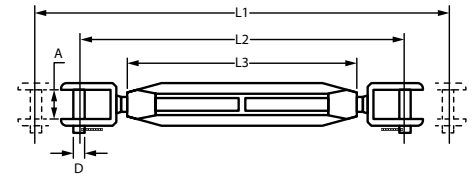


Read important warnings and information on the inside back cover of this catalog titled Cautions.

# STAINLESS STEEL TURNBUCKLES

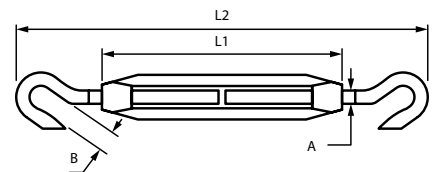
| SIZE  | TURNBUCKLE WELDED FORKS / STAINLESS STEEL 316 FORGED |                  |     |     |       |       |      |
|-------|--|------------------|-----|-----|-------|-------|------|
|       | BREAKING LOAD IN POUNDS                              | WEIGHT IN POUNDS | A   | D   | L1    | L2    | L3   |
| 3/16" | 1,800  | 0.12             | .25 | .19 | 7.50  | 5.00  | 3.13 |
| 1/4"  | 2,400  | 0.22             | .28 | .25 | 8.50  | 5.50  | 3.50 |
| 5/16" | 4,500  | 0.35             | .31 | .31 | 9.50  | 6.50  | 4.00 |
| 3/8"  | 6,500  | 0.55             | .38 | .38 | 10.75 | 7.25  | 4.50 |
| 1/2"  | 11,000   | 1.10             | .50 | .50 | 14.25 | 9.50  | 6.00 |
| 9/16" | 16,000   | 1.80             | .56 | .56 | 15.25 | 10.25 | 7.00 |
| 5/8"  | 20,000   | 2.70             | .63 | .63 | 18.00 | 12.00 | 8.00 |

## STAINLESS STEEL TURNBUCKLES JAW & JAW



| SIZE  | TURNBUCKLE WELDED FORKS / STAINLESS STEEL 316 FORGED |                  |     |     |       |       |
|-------|--|------------------|-----|-----|-------|-------|
|       | BREAKING LOAD IN POUNDS                              | WEIGHT IN POUNDS | A   | D   | L1    | L2    |
| 3/16" | 1,650  | 0.10             | .19 | .36 | 2.75  | 4.75  |
| 1/4"  | 2,200  | 0.20             | .25 | .38 | 3.38  | 6.38  |
| 5/16" | 4,200  | 0.30             | .31 | .44 | 4.75  | 8.00  |
| 3/8"  | 6,300  | 0.50             | .38 | .50 | 6.00  | 9.50  |
| 1/2"  | 10,000   | 1.00             | .50 | .56 | 8.00  | 12.00 |
| 5/8"  | 15,000   | 1.80             | .63 | .75 | 10.00 | -     |

## STAINLESS STEEL TURNBUCKLES HOOK & HOOK





# CABLE & WIRE CUTTERS

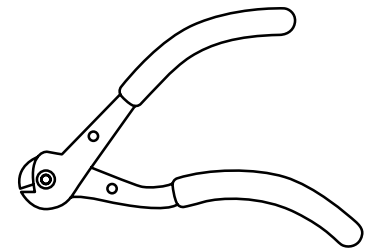


# CABLE & WIRE CUTTERS

## 316 - WIRE ROPE CUTTERS FOR 3/16" MAXIMUM DIAMETER CABLE

Note: not for use on heat treated spring wire or music wire.

| TOOL NO. | LENGTH | WIRE ROPE | PIANO WIRE | STEEL WIRE | ACSR CABLE | WEIGHT |
|----------|--------|-----------|------------|------------|------------|--------|
| 316 CC   | 8"     | 3/16"     | -          | -          | -          | 9 oz.  |



## HWC 6 - WIRE ROPE CUTTERS HEAVY DUTY

Designed for cutting of all soft and hard steel cable or wire rope up to capacity shown.

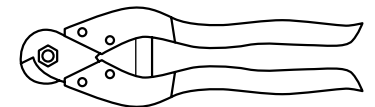
| TOOL NO. | LENGTH | WIRE ROPE | PIANO WIRE | STEEL WIRE | ACSR CABLE | WEIGHT |
|----------|--------|-----------|------------|------------|------------|--------|
| HWC 6    | 190 MM | 6 MM      | 2.5 MM     | 4 MM       | -          | 250    |



## HWC 9, HWC 12, HWC 16 - WIRE ROPE CUTTERS FELCO TYPE HEAVY DUTY

Designed for cutting of all soft and hard steel cable or wire rope up to capacity shown.

| TOOL NO. | LENGTH | WIRE ROPE | PIANO WIRE | STEEL WIRE | ACSR CABLE | WEIGHT |
|----------|--------|-----------|------------|------------|------------|--------|
| HWC 9    | 335 MM | 9 MM      | 4.0 MM     | 6 MM       | 25         | 710H   |
| HWC 12   | 520 MM | 12 MM     | 4.5 MM     | 7 MM       | 58         | 1,500  |
| HWC 16   | 650 MM | 15 MM     | 5.0 MM     | 9 MM       | 120        | 2,500  |



## RC 450 - WIRE ROPE CUTTERS HEAVY DUTY

Designed for cutting of all soft and hard steel cable or wire rope up to capacity shown.

| TOOL NO. | LENGTH | WIRE ROPE | PIANO WIRE | STEEL WIRE | ACSR CABLE | WEIGHT |
|----------|--------|-----------|------------|------------|------------|--------|
| RC 450   | 18"    | 3/8"      | -          | -          | 3/8"       | 3 lbs  |



# SWAGING TOOLS

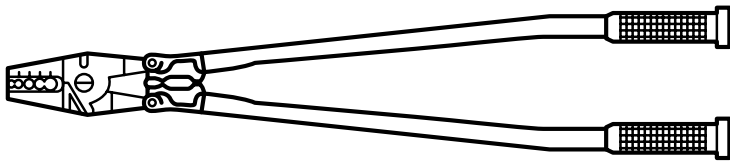




# SWAGING TOOLS

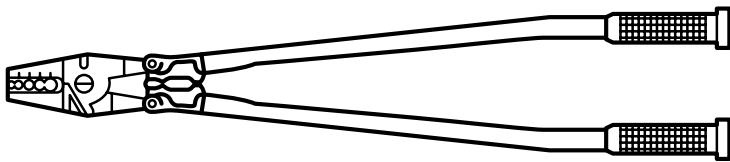
## HSC 350 - HAND HELD 5 CAVITY TOOL WITH CUTTER

Designed for Swaging of all cable or wire rope fittings from 1/16" - 1/8"



## HSC 600 - HAND HELD 5 CAVITY TOOL WITH CUTTER

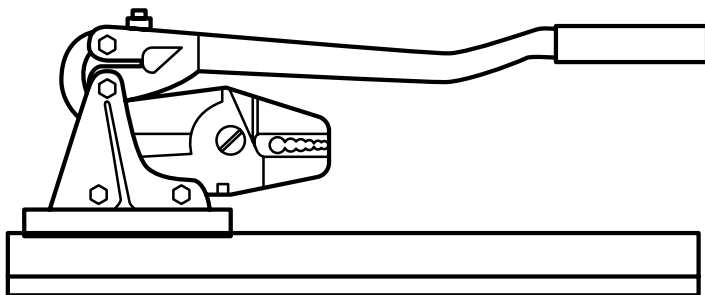
Designed for Swaging of all cable or wire rope fittings from 1/16" - 3/16"



## HSC 600B - BENCH TYPE 5 CAVITY TOOL WITH CUTTER

Designed for Swaging of all cable or wire rope fittings from 1/16" - 3/16" Available in 1 cavity sizes 1/16" - 5/16"

Read important warnings and information on the inside back cover of this catalog titled Cautions.



# WARNING

## IMPORTANT:

READ WARNINGS BEFORE USING THIS PUBLICATION

It is of the utmost importance that anyone using this publication read and understand all warnings and other information listed below and/or adjacent to the product description and preceding each product section.

All Products are sold with the understanding that the purchaser is familiar with the correct application and safe use. Use all products properly, in safe manner and for the application for which they are intended. M&G assumes no responsibility for the use or misapplication of any product sold by this firm. Responsibility for design and use decisions rest with the user.

### IMPORTANT WARNINGS

Remember: any product will break if abused, misused, or overused. Any well-designed and well-built product can become hazardous in the hands of a careless user. Therefore:

- Never exceed the working load limit
- Match components properly
- Keep out from under a raised load
- Avoid shock loads
- Inspect products regularly

### WORKING LOAD LIMITS

Never exceed the working load limit (WLL), safe working load (SWL) rated capacity. The working load limit is the maximum load which should never be applied to the product, even when the product is new and when the load is uniformly applied- straight line pull only. Avoid side loading. All catalog ratings are based upon usual environmental conditions, and consideration must be given to unusual conditions such as high or low temperatures, chemical solutions or vapors, prolonged immersion in salt water, etc. Such conditions or high-risk applications may necessitate reducing the working load capacity. Working load limit will not apply if product has been welded or otherwise modified.

### MATCHING OF COMPONENTS

Components must match. Make certain that components such as hooks, links of shackles, etc., used with wire rope (or chain or cordage) are of suitable material and strength to provide adequate safety protection. Attachments must be properly installed and must have a working load limit at least equal to the products with which they are used. Remember: any chain is only as strong as its weakest link.

### RAISED LOAD

Keep out from under a raised load. Take notice of the recommendation from the National Safety Council Accident Prevention Manual concerning all lifting operations:

“All employees working at cranes or hoist or assisting in hooking or arranging a load should be instructed to keep out from under the load. From a safety standpoint, one factor is paramount: Conduct all lifting operations in such a manner, that if there were an equipment failure, no personnel would be injured. This means keep out from under a raised load and keep out of the line of force of any load.”



### SHOCK LOADS

Avoid impacting, jerking or swinging of load – Working Load Limit will not apply. A shock load is generally significantly greater than the static load. Avoid shock loads.

### REGULAR INSPECTION

Inspect products regularly for visible damage, cracks, wear, elongation, rust, etc. Protect all products from corrosion. The need for periodic inspection cannot be overemphasized. No product can keep operating at its rated capacity indefinitely. Periodic inspections help determine when to replace a product and reduce rigging hazards. Keep inspection records to help pinpoint problems and to insure periodic inspection intervals.

Due to the diversity of the products involved and uses to which they can be put, it would be counterproductive to make blanket recommendations for inspection procedures and frequency. Best results will be achieved when qualified personnel base their decisions on information from rigging and engineering manuals and on experience from actual use in the field.

Frequency of inspection will depend on environmental conditions, application, storage of product prior to use, frequency of use, whether or not life, limb or valuable property are at risk, etc. When in doubt, inspect products prior to each use. Carefully check each item for wear, deformation, cracks or elongation, a sure sign of imminent failure. Immediately withdraw such items from service.

Rust damage is another potential hazard. When in doubt about the extent of corrosion or other damage, withdraw the items from service.

Destroy, rather than discard, items that have been judged defective. They might be used by someone not aware of the hazard of the defect.



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