



**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.

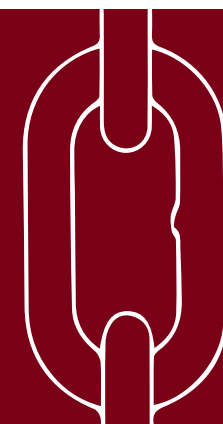
INDUSTRIES SERVED 

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

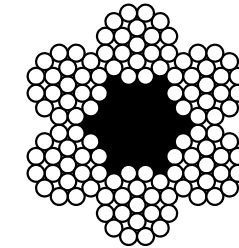


BRIGHT WIRE ROPE

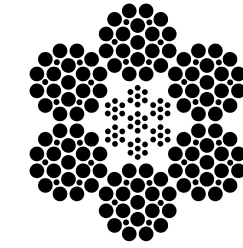
SIZE ROPE DIAMETER	FIBER CORE (IPS)		IWRC (EIPS)	
	Approx. Weight per Foot in Pounds	Min. Breaking Strength in Pounds	Approx. Weight per Foot in Pounds	Min. Breaking Strength in Pounds
1/4"	.105	5,480	.116	6,800
5/16"	.164	8,520	.18	10,540
3/8"	.236	12,200	.26	15,100
7/16"	.32	16,540	.35	20,400
1/2"	.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.

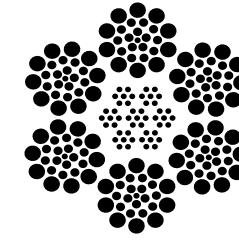
WIRE ROPE 6X19 CLASS



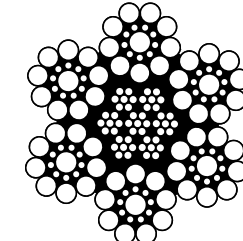
6x25 Filler Wire
with Fiber Core



6x25 Filler Wire
with IWRC



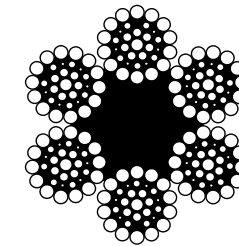
6x26 Warrington Seale
with IWRC



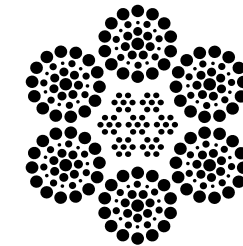
6x19 Warrington Seale
with IWRC

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 6X37 CLASS



6x36 Warrington Seale
with Fiber Core



6x37 Warrington Seale
with IWRC

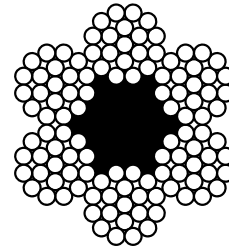
GALVANIZED WIRE ROPE

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

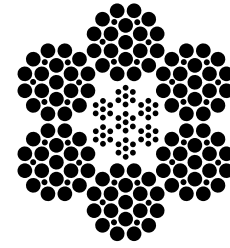
SIZE ROPE DIAMETER	FIBER CORE (IPS)		IWRC (EIPS)	
	Approx. Weight per Foot in Pounds	Min. Breaking Strength in Pounds	Approx. Weight per Foot in Pounds	Min. Breaking Strength in Pounds
1/4"	0.105	4,940	0.116	6,120
5/16"	0.164	7,660	0.18	9,480
3/8"	0.236	10,980	0.26	13,600
7/16"	0.32	14,880	0.35	18,360
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

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

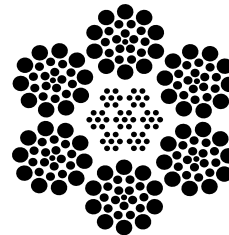
WIRE ROPE 6X19 CLASS



6x25 Filler Wire with Fiber Core

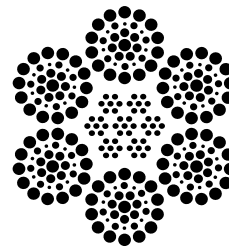


6x25 Filler Wire with IWRC

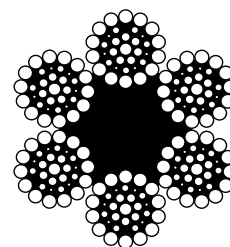


6x26 Warrington Seale with IWRC

WIRE ROPE 6X37 CLASS



6x36 Warrington Seale with Fiber Core



6x36 Warrington Seale with IWRC

SPECIALTY WIRE ROPES



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.



NON-ROTATING & SPIN RESISTANT

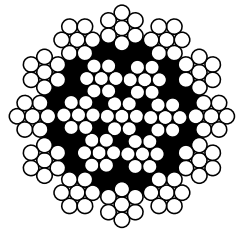
COMPACTED STRAND



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

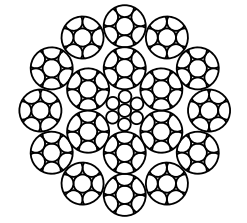
ROTATION RESISTANT WIRE ROPE



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

SIZE ROPE DIAMETER	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

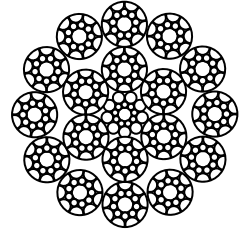
ROTATION RESISTANT COMPACTED 7 STRAND



19x7 CS

SIZE ROPE DIAMETER	Approx. Weight per Foot in pounds	19X19 WSC CS BRT NON-ROTATING	
		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

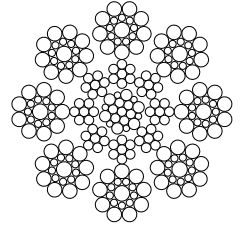
ROTATION RESISTANT COMPACTED 19 STRAND



19x19 CS

SIZE ROPE DIAMETER	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

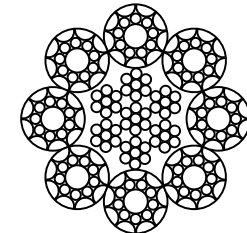
METRIC SPIN RESISTANT BRT EIPS



8x19(s) SR BRT EIPS

SIZE ROPE DIAMETER	Approx. Weight per Foot in pounds	8X19 WSC CS BRT NON-ROTATING	
		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

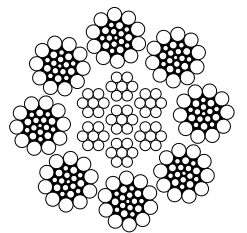
ROTATION RESISTANT COMPACTED 8 STRAND



8x19 CS

SIZE ROPE DIAMETER	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

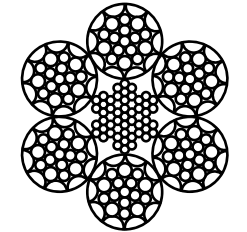
IMPERIAL SPIN RESISTANT BRT EIPS



8x25 SR BRT EIPS

SIZE ROPE DIAMETER	Approx. Weight per Foot in pounds	6X26/31/36 IWRC COMPACTED STRAND BRT	
		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

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.

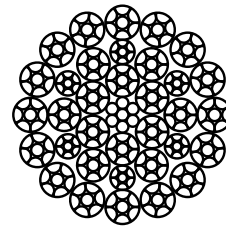


COMPACTED STRAND

CABLE LAID WIRE ROPES

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

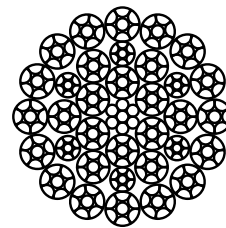
COMPACTED 35 STRAND



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

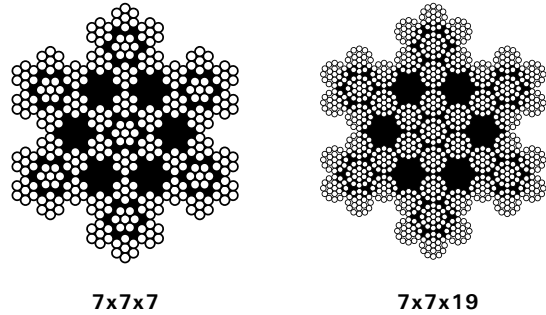


COMMERCIAL FISHING WIRE ROPES

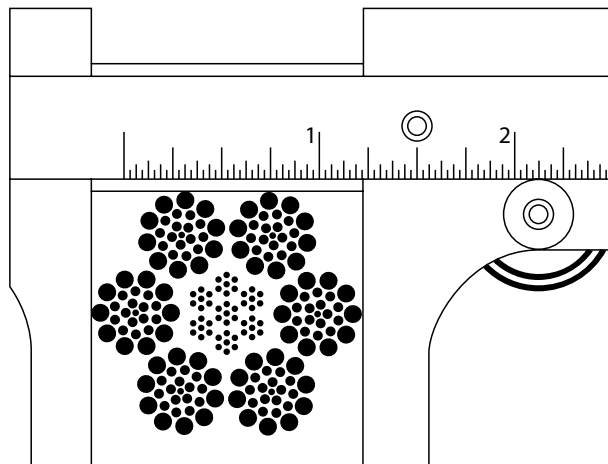
SIZE ROPE DIAMETER	CABLE-LAID WIRE ROPE		
	Construction	Approx. Weight per Foot in Pounds	Min. Breaking Strength in Tons
3/8"	7x7x7	0.21	5.7
1/2"	7x7x7	0.37	9.75
5/8"	7x7x7	0.58	14.6
3/4"	7x7x19	0.88	21.4
7/8"	7x7x19	1.19	28.4
1"	7x7x19	1.56	36.2
1-1/8"	7x7x19	1.94	44.7
1-1/4"	7x7x19	2.39	53.7

To be used for mechanical swaged slings only.

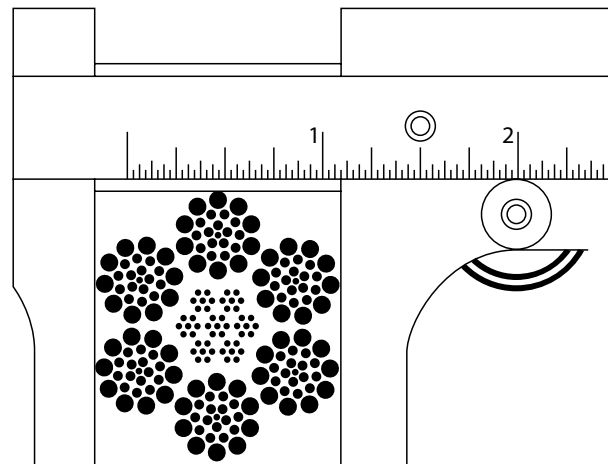
CABLE-LAID WIRE ROPE



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.



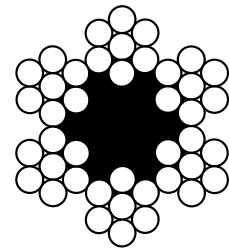


COMMERCIAL FISHING

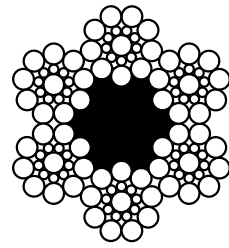
SIZE ROPE DIAMETER	6X7 PPC IPS GALVANIZED		6X19/26 PPC IPS/EIPS	
	Approx. Weight per Foot in Pounds	Min. Breaking Strength in Pounds	Approx. Weight per Foot in Pounds	Min. Breaking Strength in Pounds
1/4"	0.094	4,760	0.105	4,940
5/16"	0.15	7,380	0.164	7,660
3/8"	0.21	10,540	0.236	10,980
7/16"	0.29	14,280	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

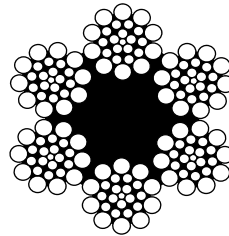
"The brand fishermen ask for by name."



6x7 PPC IPS
Galvanized



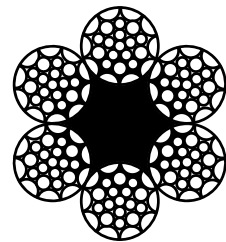
6x19S IPS
Galvanized



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

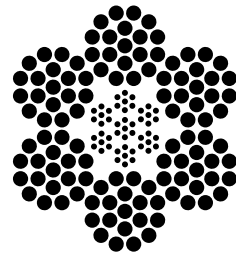




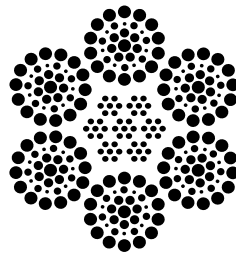
STAINLESS STEEL

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

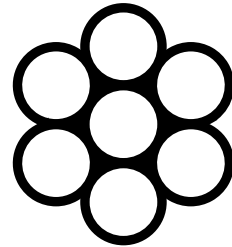




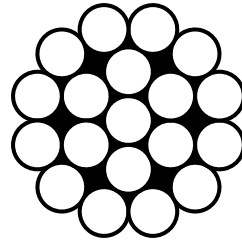
GALVANIZED CABLE

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

1X7/1X19 GALVANIZED CABLE



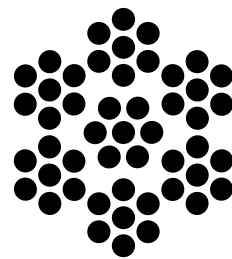
1x7 Galvanized



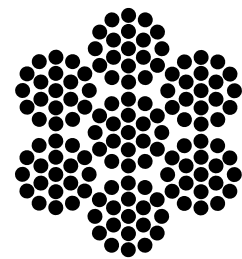
1x19 Galvanized

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

7X7/7X19 GALVANIZED CABLE



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

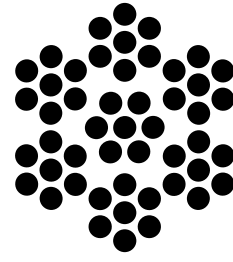


STAINLESS STEEL CABLE

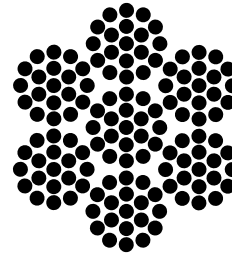
STAINLESS STEEL CABLE

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



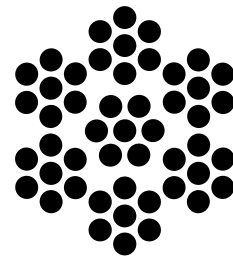
7x7 Stainless Steel



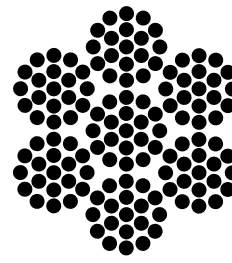
7x19 Stainless Steel

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



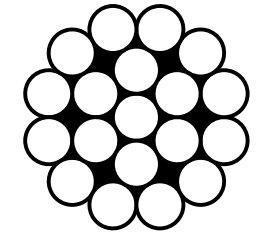
7x7 Stainless Steel



7x19 Stainless Steel

SIZE ROPE DIAMETER	1X19 STAINLESS STEEL STRAND		
	Approx. Weight per 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	-

STAINLESS STEEL CABLE



1x19 Stainless Steel Strand

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.

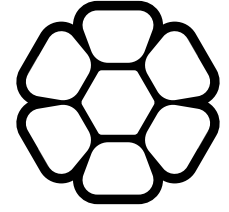
According to Federal Specifications RR-W-410(current).
All material produced to according to ASTM standards A492
Read important warnings and information on the inside back cover of this catalog titled Cautions.



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

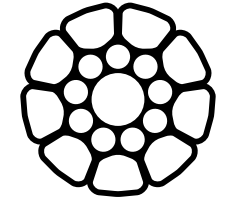
STAINLESS STEEL COMPACTED STRAND



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

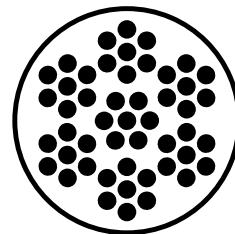




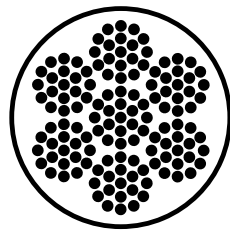
VINYL COATED CABLE

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



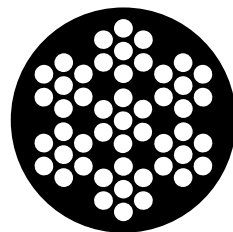
7x7 Galvanized Vinyl



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

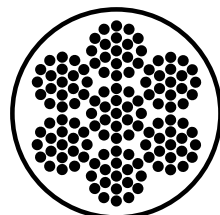
WHITE JACKETED LIFE-LINE CABLE



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

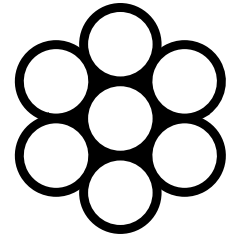




EXTRA HIGH STRENGTH GALVANIZED STRAND

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



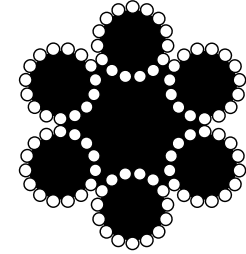


DECK LASHING

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





CHAIN

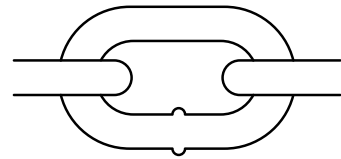


CHAIN



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

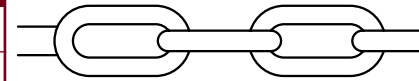


Grade 30 / Self Colored, Zinc Plated & Hot Dip Galvanized

TRADE SIZE	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"

ALL Mooring Chain has a 3:1 Design Factor

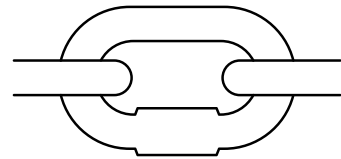
LONG LINK MOORING CHAIN



Grade 43 / 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"

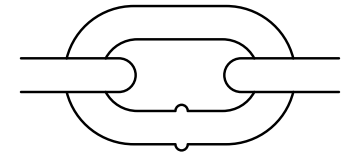
HIGH TEST CHAIN



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

TRADE SIZE	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	6,400	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"

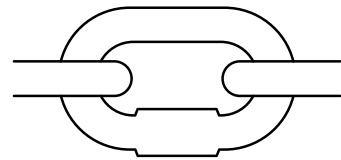
STAINLESS STEEL CHAIN



AISI Type 316 / PC Strength

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

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

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.



SLING LINKS

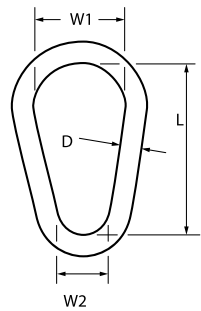


LINKS



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"

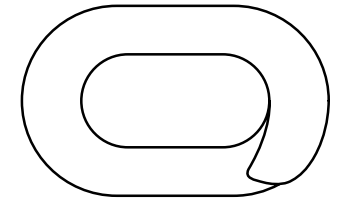
PEAR SLING CARBON LINKS HIGH TEST / GRADE 43



Heat Treated, Self-Colored & Painted

SIZE 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

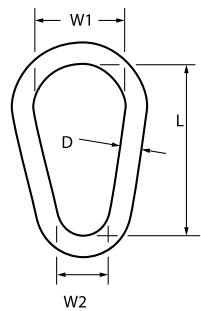
LAP LINKS



Zinc Plated

SIZE	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"

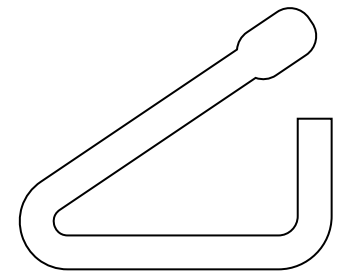
PEAR SLING ALLOY LINKS GRADE 80



Heat Treated, Self-Colored & Painted

SIZE 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

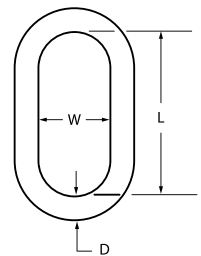
COLD SHUT



Zinc Plated

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

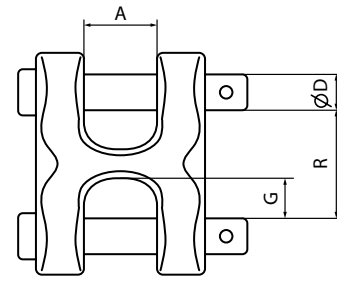


Heat Treated, Self-Colored & Painted



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

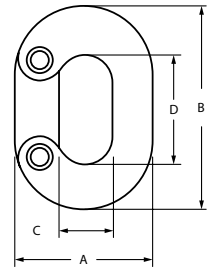
TWIN CLEVIS LINKS



Hot Dip Galvanized
Drop Forged

SIZE	WORKING LOAD LIMIT IN POUNDS	APPROXIMATE WEIGHT 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

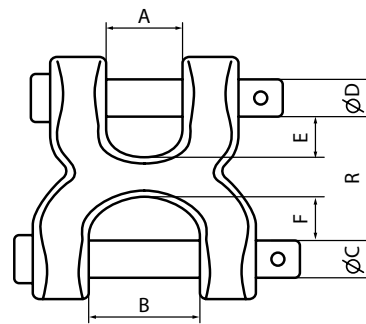
CONNECTING LINKS/MISSING LINKS



Forged Steel, Heat Treated,
Electro Galvanized

SIZE	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

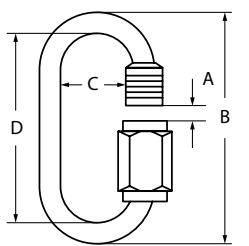
DOUBLE CLEVIS LINKS



Hot Dip Galvanized
Drop Forged

SIZE	WORKING LOAD LIMIT IN POUNDS	APPROXIMATE WEIGHT 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

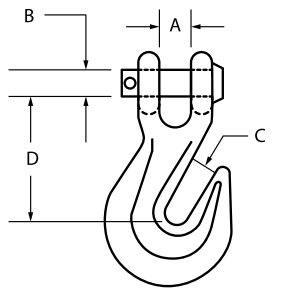
HOOKS



HOOKS

SIZE	WORKING LOAD LIMIT IN POUNDS	APPROXIMATE WEIGHT EACH IN POUNDS	HIGH TEST CLEVIS GRAB 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

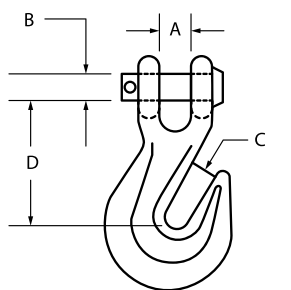
HIGH TEST CLEVIS GRAB



Grade 43 / Self Colored, Zinc Plated, Hot Galvanized

SIZE	WORKING LOAD LIMIT IN POUNDS	APPROXIMATE WEIGHT EACH IN POUNDS	ALLOY CLEVIS GRAB HOOKS / 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

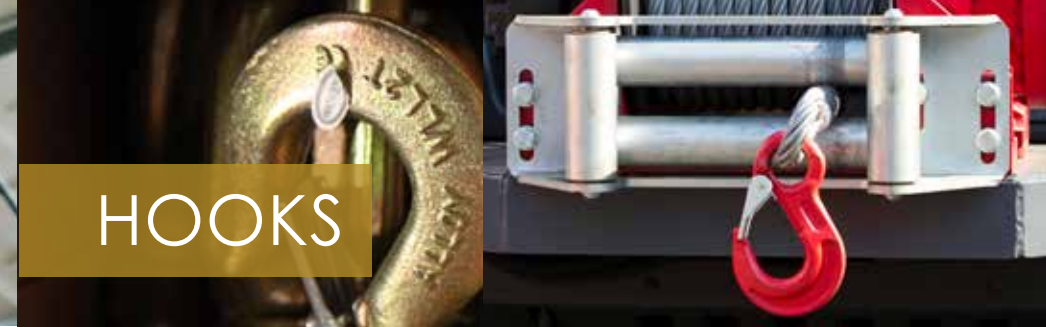
ALLOY G70 CLEVIS GRAB



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



HOOKS

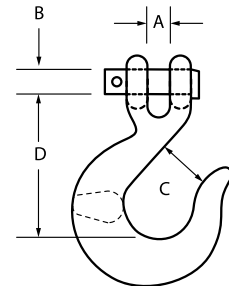


HOOKS



SIZE	WORKING LOAD LIMIT IN POUNDS	APPROXIMATE WEIGHT EACH IN POUNDS	HIGH TEST CLEVIS SLIP 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

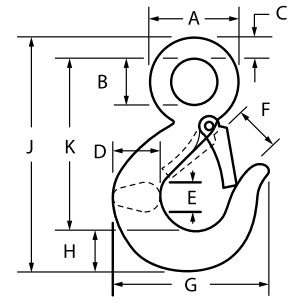


Grade 43 / Forged Steel,
Heated Treated, Painted
with or without latch

SIZE (WLL) IN TONS		EYE HOIST HOOKS/CARBON OR ALLOY STEEL										WT. WITH LATCH 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 W.L.L.

EYE HOIST HOOKS

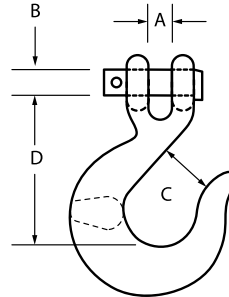


Carbon or Alloy Steel
with or without latch

SIZE	WORKING LOAD LIMIT IN POUNDS	APPROXIMATE WEIGHT EACH IN POUNDS	ALLOY CLEVIS SLIP HOOKS / 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

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.

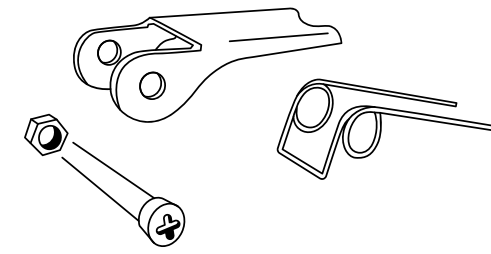
ALLOY G70 CLEVIS SLIP



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

HOOK SIZE 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



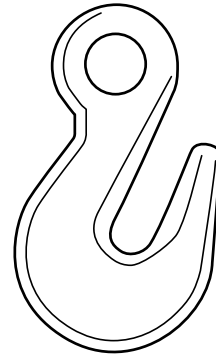
HOOKS



SIZE	WORKING LOAD LIMIT IN POUNDS	APPROXIMATE WEIGHT EACH IN POUNDS	HIGH TEST EYE GRAB HOOKS / 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.

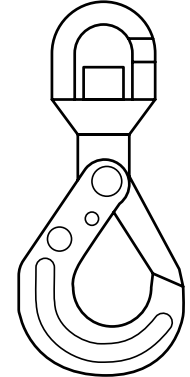
HIGH TEST EYE GRAB



Grade 43/Forged Steel, Heated Treated, Painted Red

ALLOY SWIVEL HOOKS / 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

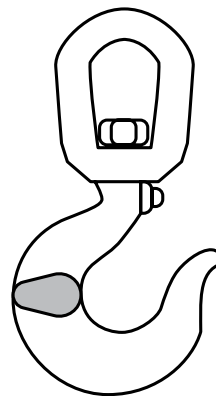
ALLOY SWIVEL HOOK SELF-LOCKING



Grade 80

ALLOY SWIVEL HOOKS		
SIZE/WLL IN TONS	APPROXIMATE WEIGHT EACH IN POUNDS	WORKING LOAD 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

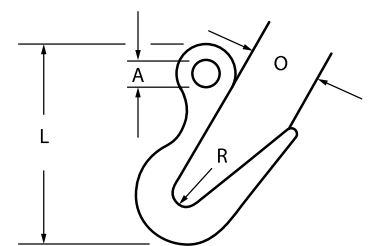


Alloy Swivel Hooks, Painted & Yellow Chromated

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



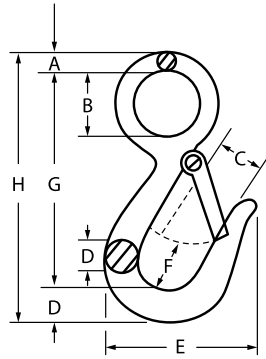
Forged Alloy Steel, Heat Treated



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

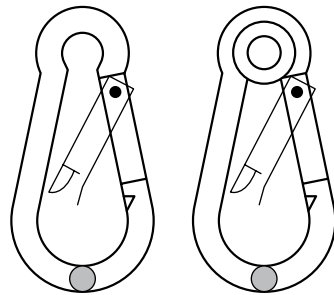


Forged Steel, Electro Galvanized with latch

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



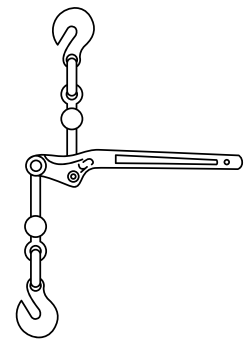
WIRE ROPE THIMBLES



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

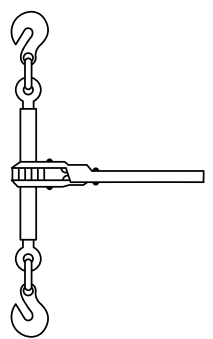
Forged Steel, Heated Treated, Painted



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

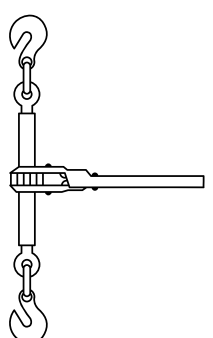
Forged Steel, Heated Treated, Painted



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.

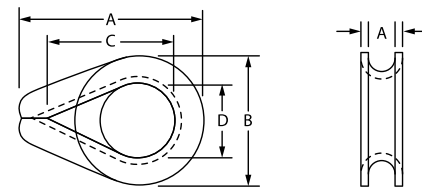




WIRE ROPE THIMBLES

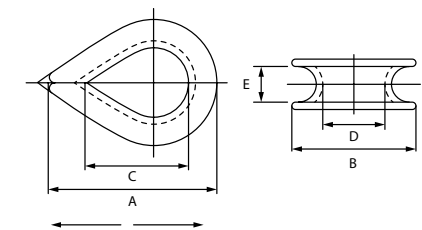
TRADE SIZE	APPROX. WEIGHT EACH IN POUNDS	HEAVY DUTY WIRE ROPE THIMBLE / GALVANIZED				
		A	B	C	D	E
1/4"	0.075	2.19	1.50	1.63	0.88	0.41
5/16"	0.14	2.50	1.81	1.88	1.06	0.50
3/8"	0.25	2.88	2.13	2.13	1.13	0.66
7/16"	0.36	3.25	2.25	2.38	1.25	0.75
1/2-9/16"	0.51	3.63	2.56	2.75	1.50	0.84
5/8"	0.75	4.25	3.00	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



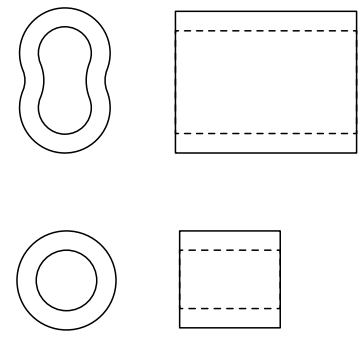


SWAGE FITTINGS

SWIVELS

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

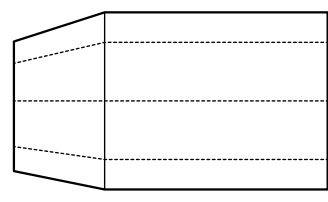


Aluminum, Copper, (Plain, Zinc-plated, Tin-plated) & Stainless Steel (Type 304)

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



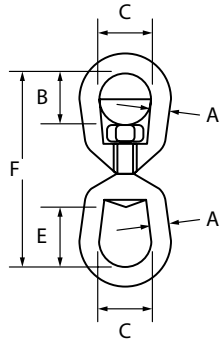
SWIVELS



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

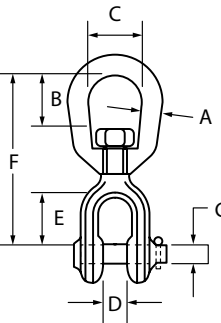
Hot Galvanized



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



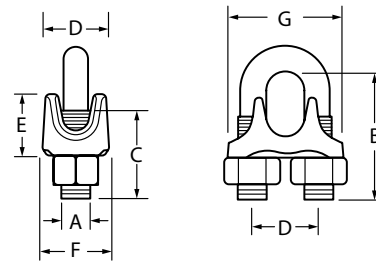
WIRE ROPE CLIPS

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

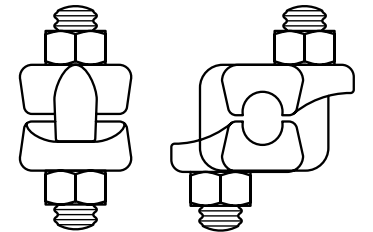
Electro-Galvanized



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

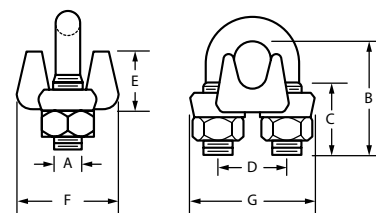
Hot Dip Galvanized



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



SHACKLES



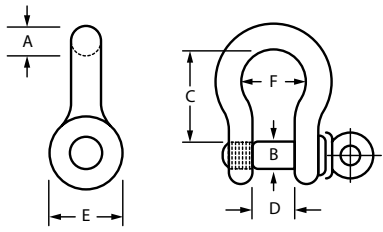
SHACKLES



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

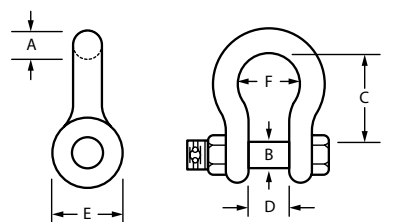
Galvanized, Alloy Steel Pin, Available in Commercial Grade



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.

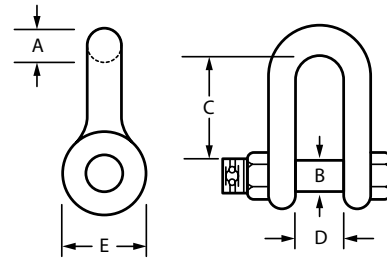


SHACKLES

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

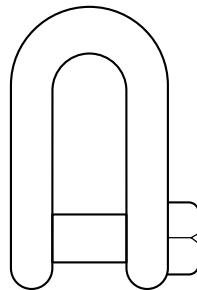
Galvanized



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



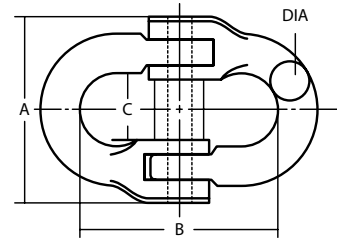


HAMMER LOCKS

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.

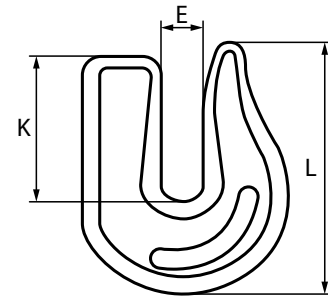


WELDABLE GRAB HOOKS & D-RINGS

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.

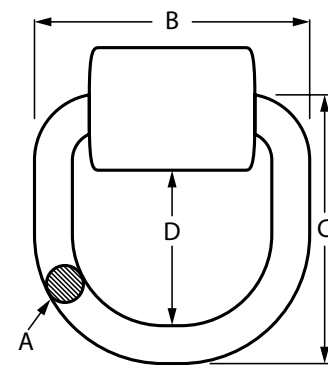
WELDABLE GRAB HOOK



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



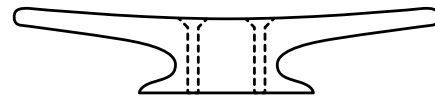


CLEATS

LENGTH	OPEN BASED CLEAT / GALVANIZED IRON		
	BOLT SIZE		WEIGHT IN POUNDS
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

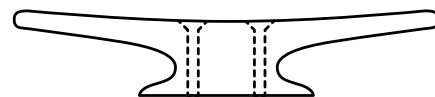
STANDARD DUTY OPEN BASE CLEATS

Galvanized Iron



HEAVY DUTY OPEN BASE CLEATS

Galvanized Iron



LENGTH	OPEN BASED CLEAT / GALVANIZED IRON		
	BOLT SIZE		WEIGHT IN POUNDS
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

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

TURNBUCKLES



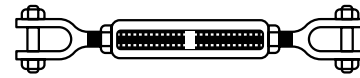
TURNBUCKLES

TURNBUCKLES

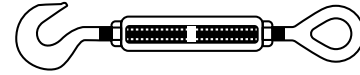
SIZE (DIA. X TAKE-UP)	TURNBUCKLES / HOT GALVANIZED, DROP FORGED					
	APPROXIMATE WEIGHT EACH IN POUNDS		WORKING LOAD LIMIT IN LBS.			Avg. Overall Length, with Ends in Closed Pos.
	Approximate Weight Each in Pounds	Eyes and / or Hooks	Jaw & Eye	Hook & Hook, Hook & Eye	Eye & Eye, Jaw & Jaw	
1/4 x 4"	0.3	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
5/8 x 9"	3.00	3.01	3.25	2,250	3,500	18.50
5/8 x 12"	3.25	3.50	3.75	2,250	3,500	21.50
3/4 x 6"	3.75	4.25	4.68	3,000	5,200	17.00
3/4 x 9"	4.50	5.00	5.38	3,000	5,200	20.00
3/4 x 12"	5.75	5.75	6.12	3,000	5,200	23.00
3/4 x 18"	7.00	7.25	7.75	3,000	5,200	29.00
7/8 x 12"	8.38	8.88	9.38	4,000	7,200	24.63
7/8 x 18"	10.25	10.60	11.44	4,000	7,200	30.63
1 x 6"	10.75	11.10	11.80	5,000	10,000	20.63
1 x 12"	11.25	12.0	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

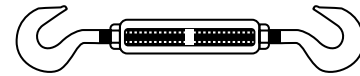
Hot Galvanized, Drop Forged



Jaw & Jaw



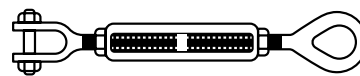
Hook & Eye



Hook & Hook



Eye & Eye



Jaw & Eye

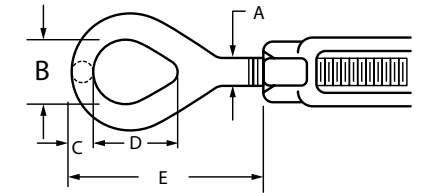
TURNBUCKLES / HOOK DIMENSIONS

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

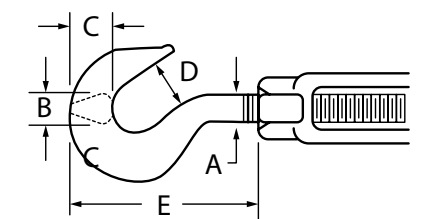
TURNBUCKLES / EYE DIMENSIONS

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/HOOK



TURNBUCKLES/EYE



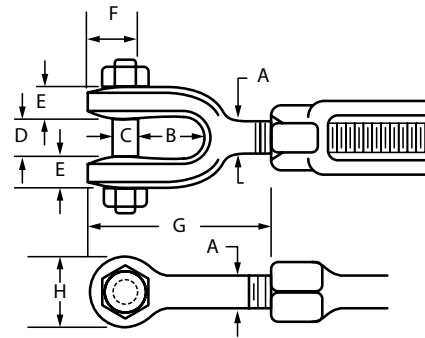
All turnbuckles available with lock nuts upon request.



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	-

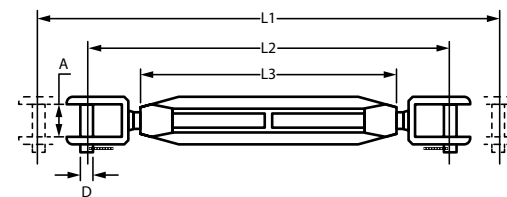
TURNBUCKLES/JAW



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



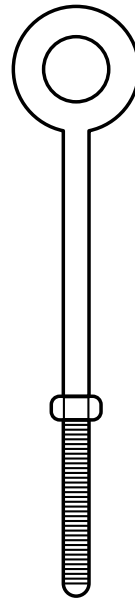
EYE BOLTS & EYE NUTS

EYE BOLTS & EYE NUTS

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

REGULAR NUT EYE BOLT

Hot galvanized, forged steel

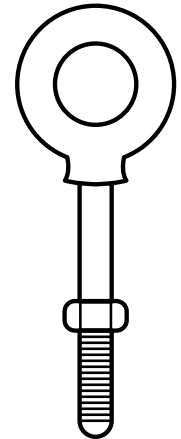


SHOULDER NUT EYE BOLT				
SIZE INCH	W.L.L. LBS	THREAD LENGTHS INCH	I.D. IF EYE INCH	N.W. LBS / 100 PCS
1/4 x 2	650	1.5	0.50	6.61
1/4 x 4	650	2.5	0.50	8.61
5/16 x 2-1/4	1,200	1.5	0.62	12.50
5/16 x 4-1/4	1,200	2.5	0.62	18.75
3/8 x 2-1/2	1,550	1.5	0.75	19.00
3/8 x 4-1/2	1,550	2.5	0.75	31.58
1/2 x 3-1/4	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 NUT EYE BOLT

Hot galvanized, forged steel

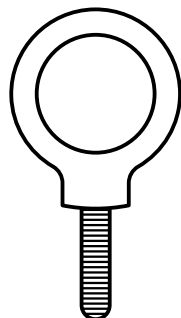


SHOULDER MACHINERY EYE BOLT				
SIZE INCH	W.L.L. LBS	THREAD LENGTHS INCH	I.D. IF EYE INCH	N.W. LBS / 100 PCS
1/4 x 1	650	1.00	0.88	3.20
5/16 x 1-1/8	1,200	1.13	1.12	6.20
3/8 x 1-1/4	1,550	1.25	1.38	12.50
1/2 x 1-1/2	2,600	1.50	1.75	25.00
5/8 x 1-3/4	5,200	1.75	2.25	50.00
3/4 x 2	7,200	2.00	2.75	87.50
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 MACHINERY EYE BOLT

Hot galvanized, forged steel





EYE BOLTS & EYE NUTS

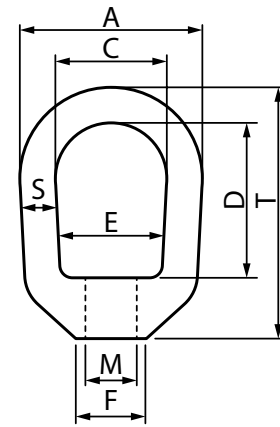
BLOCKS

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

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

EYE NUTS

Forged steel



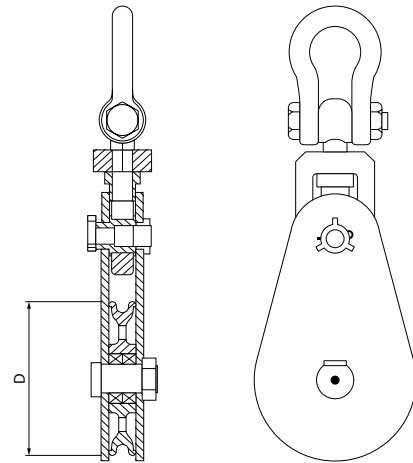


BLOCKS

BLOCKS

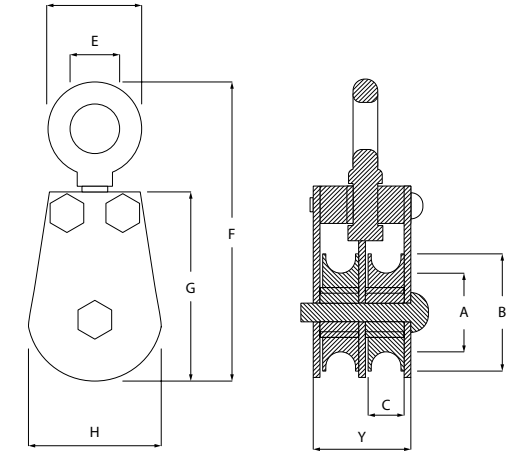
SIZE (INCH)	S.W.L (TON)	DIAMETER	N.W. (KGS)
3	1.5	4-6 MM	1.50
4	3.0	6-9 MM	2.30
5	4.5	8-12 MM	4.14
6	6.0	10-14 MM	6.60
8	8.0	14-18 MM	13.50

SNATCH BLOCK WITH SHACKLE



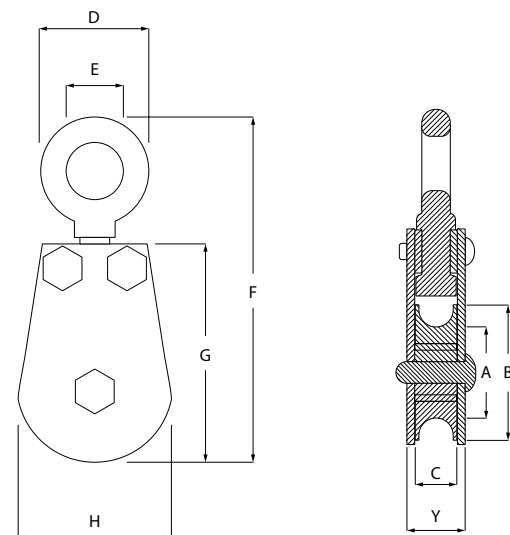
SIZE (INCH)	S.W.L (TON)	DIAMETER	N.W. (KGS)
3	1.5	4-6 MM	1.65
4	3.0	6-9 MM	2.90
5	4.5	8-12 MM	5.40
6	6.0	10-14 MM	7.95
8	8.0	14-18 MM	18.05

SNATCH BLOCK WITH EYE
Double



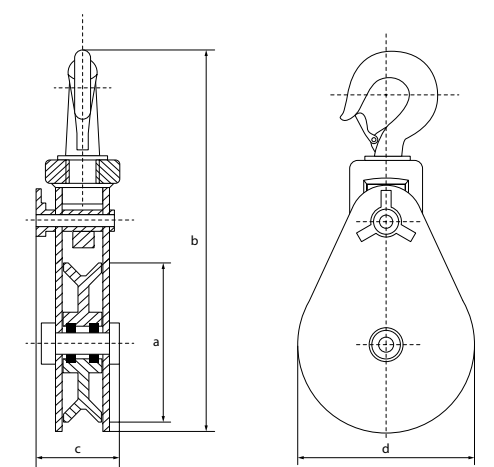
SIZE (INCH)	S.W.L (TON)	DIAMETER	N.W. (KGS)
3	1.5	4-6 MM	1.65
4	3.0	6-9 MM	2.90
5	4.5	8-12 MM	5.40
6	6.0	10-14 MM	7.95
8	8.0	14-18 MM	18.05

SNATCH BLOCK WITH EYE
Single



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

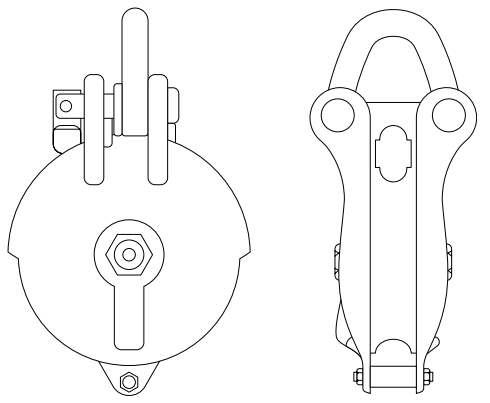




BLOCKS

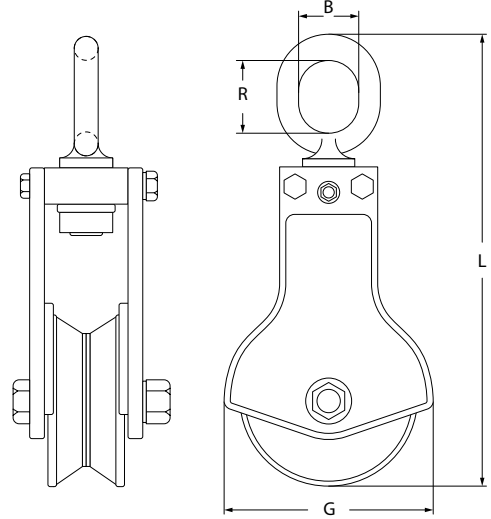
SIZE (INCH)	S.W.L (TON)	DIAMETER	N.W. (KGS)
3	2	3/8	2.24
4-1/2	4	1/2	5.74
6	8	3/4	12.50
8	8	3/4	16.50
10	8	3/4	22.00
12	8	3/4	29.50
14	8	3/4	35.60
16	15	7/8	102.00
18	15	1	118.00

YARDING SNATCH BLOCK WITH BAIL



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

TRAWL BLOCK F501 Galvanized



STAINLESS STEEL FITTINGS



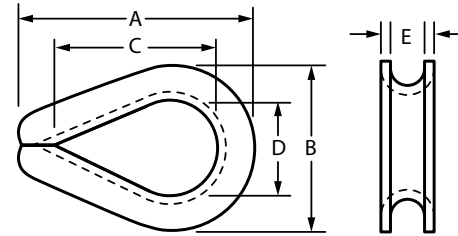
STAINLESS STEEL FITTINGS

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

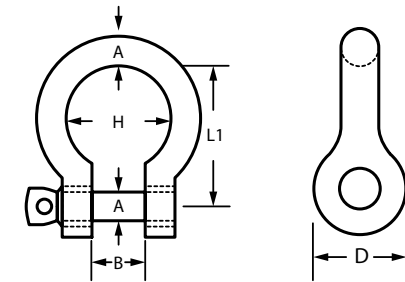
Stainless Steel Type 304 & Type 316



SIZE (A) (INCHES)	ANCHOR SHACKLE / STAINLESS STEEL 316, SCREW PIN						
	BREAKING 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

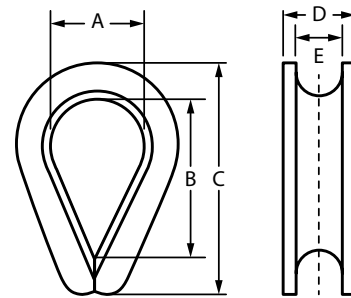
Stainless Steel Type 316 Forged



SIZE	APPROX. WEIGHT EACH 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

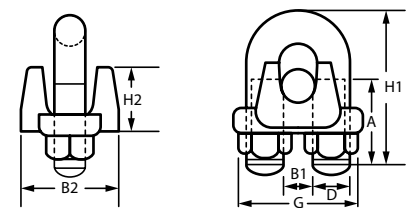
Stainless Steel Type 304 Forged



SIZE	APPROX. WEIGHT EACH 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 cover of this catalog titled Cautions.

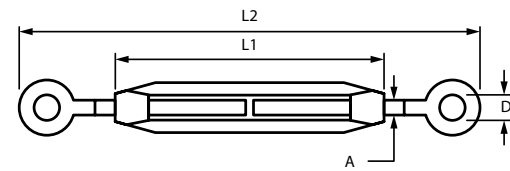
Read important warnings and information on the inside back cover of this catalog titled Cautions.

STAINLESS STEEL TURNBUCKLES

STAINLESS STEEL TURNBUCKLES

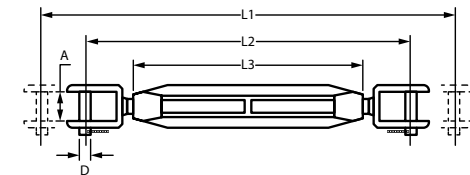
SIZE	TURNBUCKLE WELDED FORKS / STAINLESS STEEL 316 FORGED					
	BREAKING LOAD IN POUNDS	WEIGHT IN POUNDS	A	D	L1	L2
3/16"	1,650	0.10	.19	.31	2.75	4.75
1/4"	2,200	0.20	.25	.38	3.38	6.38
5/16"	4,200	0.30	.31	.56	4.75	8.00
3/8"	6,300	0.50	.38	.63	6.00	9.50
1/2"	10,000	1.00	.50	.61	8.00	12.00
5/8"	15,000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

STAINLESS STEEL TURNBUCKLES EYE & EYE



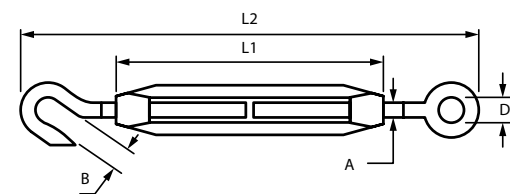
SIZE	TURNBUCKLE WELDED FORKS / STAINLESS STEEL 316 FORGED						
	BREAKING LOAD IN POUNDS	WEIGHT IN POUNDS	A	D	L1	L2	L3
3/16"	1,800	0.12	.25	.19	7.50	5.00	3.13
1/4"	2,400	0.22	.28	.25	8.50	5.50	3.50
5/16"	4,500	0.35	.31	.31	9.50	6.50	4.00
3/8"	6,500	0.55	.38	.38	10.75	7.25	4.50
1/2"	11,000	1.10	.50	.50	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



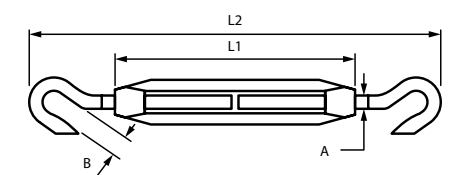
SIZE	TURNBUCKLE WELDED FORKS / STAINLESS STEEL 316 FORGED						
	BREAKING LOAD IN POUNDS	WEIGHT IN POUNDS	A	D	L1	L2	L3
3/16"	1,650	0.10	.19	.36	0.31	2.75	4.75
1/4"	2,200	0.20	.25	.38	0.38	3.38	6.38
5/16"	4,200	0.30	.31	.44	0.56	4.75	8.00
3/8"	6,300	0.50	.38	.50	0.63	6.00	9.50
1/2"	10,000	1.00	.50	.56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



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



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

CABLE & WIRE CUTTERS

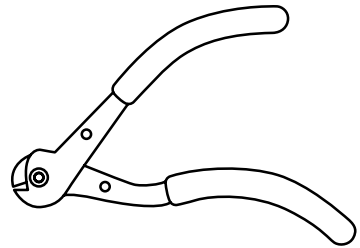


CABLE & WIRE CUTTERS

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.

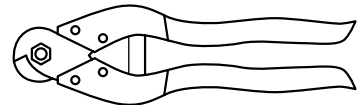
TOOL NO.	LENGTH	WIRE ROPE	PIANO WIRE	STEEL WIRE	ACSR CABLE	WEIGHT
HWC 6	190 MM	6 MM	2.5 MM	4 MM	-	250



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.

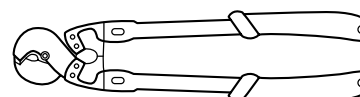
TOOL NO.	LENGTH	WIRE ROPE	PIANO WIRE	STEEL WIRE	ACSR CABLE	WEIGHT
HWC 9	335 MM	9 MM	4.0 MM	6 MM	25	710H
HWC 12	520 MM	12 MM	4.5 MM	7 MM	58	1,500
HWC 16	650 MM	15 MM	5.0 MM	9 MM	120	2,500



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



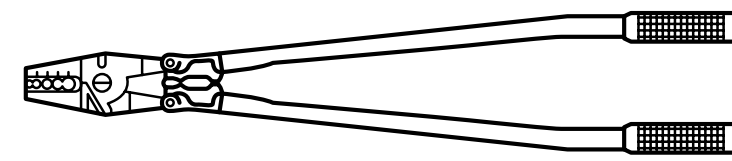
SWAGING TOOLS



SWAGING TOOLS

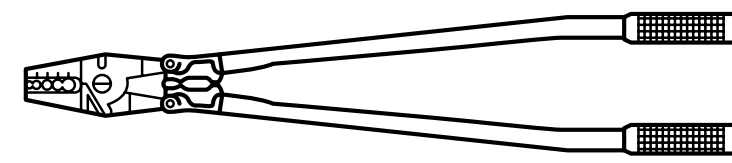
HSC 350 - HAND HELD 5 CAVITY TOOL WITH CUTTER

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



HSC 600 - HAND HELD 5 CAVITY TOOL WITH CUTTER

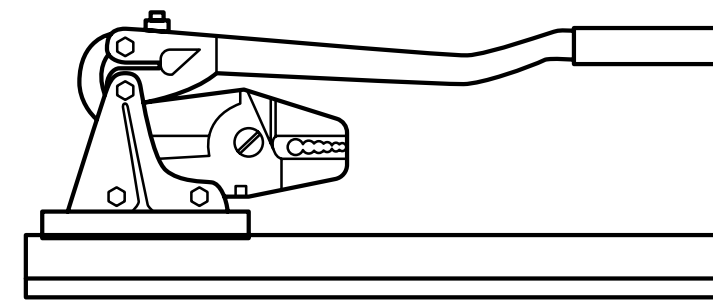
Designed for Swaging of all cable or wire rope fittings from 1/16" - 3/16"



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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