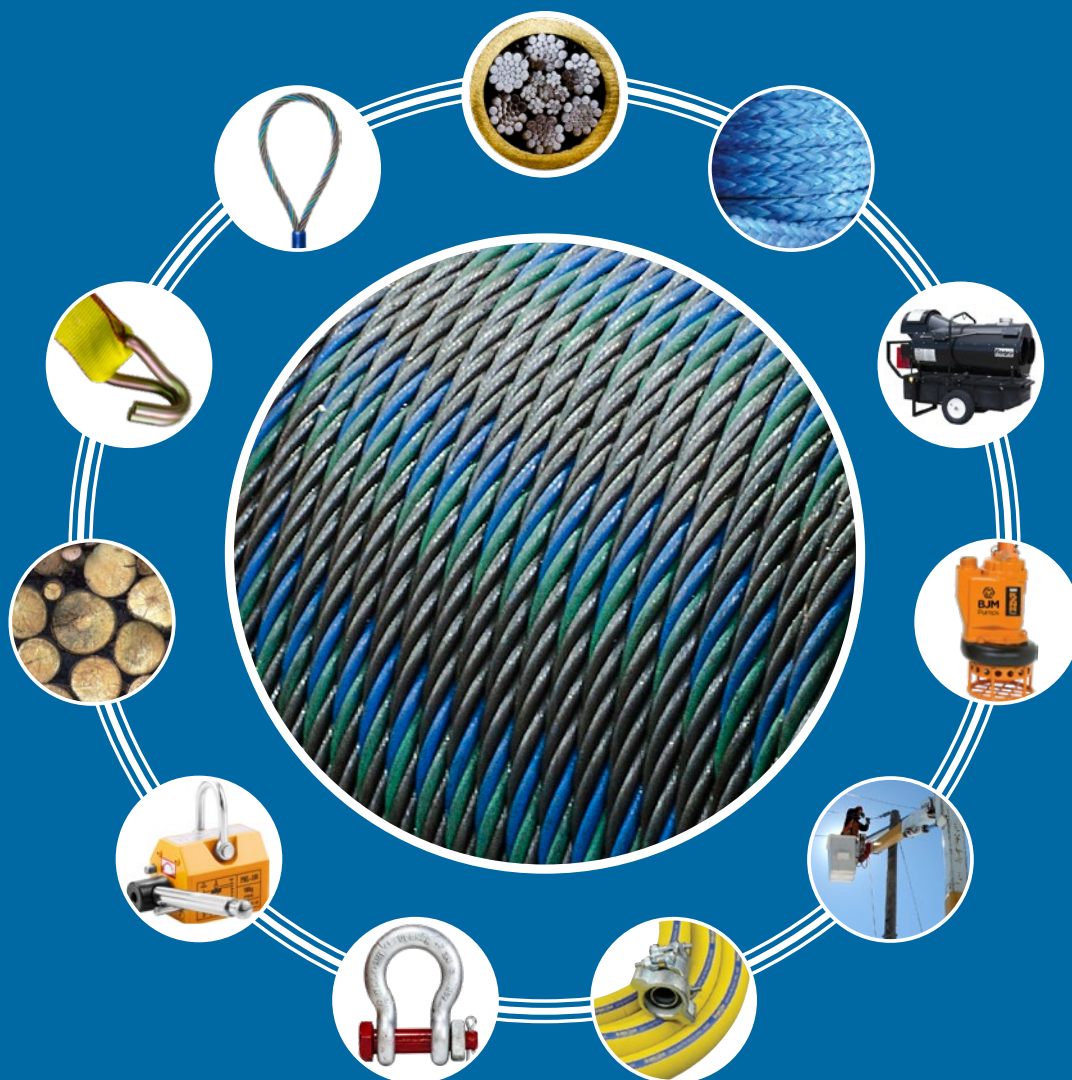


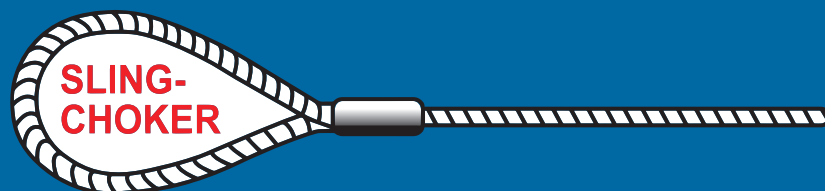
# SLING-CHOKER

MANUFACTURING

GENERAL CATALOGUE



**MORE**  
THAN  
YOU THINK









[slingchoker.com](http://slingchoker.com)

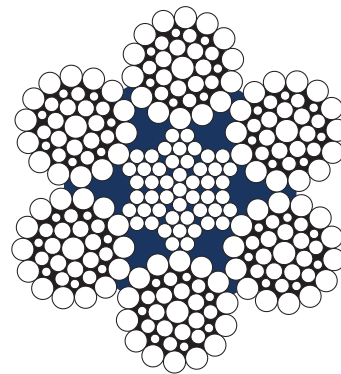
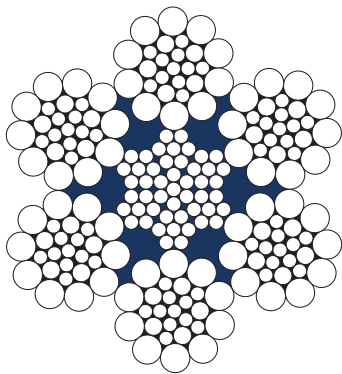


# WirePRO

WirePRO, a Sling-Choker brand, is dedicated to high performance wire rope solutions. Containing a premium selection of domestic and imported wire & crane ropes, WirePRO delivers the tools & equipment that sets the job up right. Additionally, WirePRO offers a complete assortment of wire rope terminations for your specifications.

Performance Series (PS620) 15-26 Wires. Bright EIPS IWRC			
Dia.	MBL tons	Wt.	Item
3/8"	7.55	0.24	WRP62-006
7/16"	10.20	0.33	WRP62-007
1/2"	13.30	0.43	WRP62-008
9/16"	16.80	0.55	WRP62-009
5/8"	20.60	0.69	WRP62-010
3/4"	29.40	0.98	WRP62-012
7/8"	39.80	1.33	WRP62-014
1"	51.70	1.73	WRP62-100
1-1/8"	65.00	2.22	WRP62-102
1-1/4"	79.90	2.75	WRP62-104
1-3/8"	96.00	3.28	WRP62-106
1-1/2"	114.00	3.90	WRP62-108

Performance Series (PS630) 27 to 49 Wires . Bright EIPS IWRC			
Dia.	MBL tons	Wt.	Item
3/8"	7.55	0.24	WRP63-006
7/16"	10.20	0.33	WRP63-007
1/2"	13.30	0.43	WRP63-008
9/16"	16.80	0.55	WRP63-009
5/8"	20.60	0.69	WRP63-010
3/4"	29.40	0.98	WRP63-012
7/8"	39.80	1.33	WRP63-014
1"	51.70	1.73	WRP63-100
1-1/8"	65.00	2.22	WRP63-102
1-1/4"	79.90	2.75	WRP63-104
1-3/8"	96.00	3.28	WRP63-106
1-1/2"	114.00	3.90	WRP63-108



## Performance Series 620

### 6x19 IWRC RH Regular Lay EIPS

Performance Series® 620 steel core ropes provide excellent quality and value and are well proven performers in many general purpose applications.

- Good balance between wear resistance & flexibility
- Specially formulated lubrication for extended life
- Manufactured to ASTM A1023 & API -9A standards

## Performance Series 630

### 6x36 IWRC RH Regular Lay EIPS

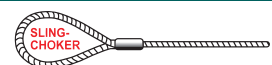
Performance Series® 630 steel core ropes provide greater flexibility and are often selected where improved cycle life and better drum spooling are required.

- Proven durable rope design for a variety of applications
- Improved flexibility relative to PS 620 constructions
- Manufactured to ASTM A1023 and API -9A standards

**MADE IN NORTH AMERICA**

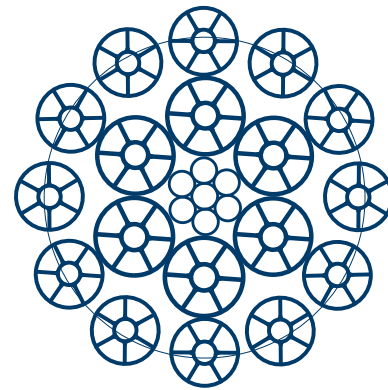
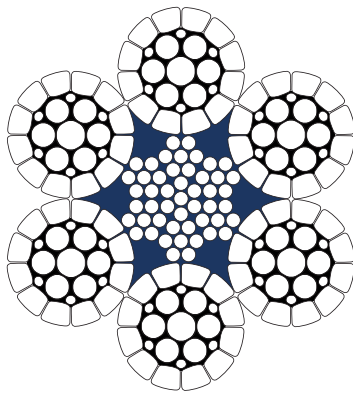


We work to find the most suitable rope for our customer's applications – whether that is high performance rope or aircraft cable. Sling-Choker works with key manufacturers worldwide to find the best solutions for their customers.



DyPac 6 6x19 Compacted. EIPS IWRC				
Dia.	Class	MBL tons	Wt.	Item
3/8	6x19	8.79	0.285	WRD6-006
7/16	6x19	11.90	0.376	WRD6-007
1/2	6x19	15.30	0.497	WRD6-008
9/16	6x19	19.30	0.633	WRD6-009
5/8	6x19	23.60	0.775	WRD6-010
3/4	6x31	32.40	1.10	WRD6-012
7/8	6x31	45.01	1.52	WRD6-014
1	6x31	58.40	1.92	WRD6-100
1 1/8	6x31	76.00	2.54	WRD6-102
1 1/4	6x31	87.90	3.13	WRD6-104
1 3/8	6x31	106.00	3.79	WRD6-106

DyPac 18 18x7 Compacted. EEIPS IWRC				
Dia.	Class	MBL tons	Wt.	Item
3/8	18x7	8.31	0.281	WRD18-006
7/16	18x7	11.20	0.415	WRD18-007
1/2	18x7	14.60	0.542	WRD18-008
9/16	18x7	19.30	0.686	WRD18-009
5/8	18x7	22.70	0.847	WRD18-010
3/4	18x7	32.40	1.22	WRD18-012
7/8	18x7	46.80	1.66	WRD18-014
1	18x7	57.50	2.17	WRD18-100
1 1/8	18x7	71.50	2.74	WRD18-102
1 1/4	18x7	87.90	3.39	WRD18-104



## DyPac 6

### 6x19 - 6x36 Compacted EIPS IWRC

DY-PAC® 6 high performance ropes are designed with compacted strands, which increases cycle life and reduces drum crushing, sheave and drum wear.

- Dy-Pac design for high breaking loads & smooth profile
- Exceptional durability improves productivity
- High crush resistance and enhanced drum spooling

## DyPac 18

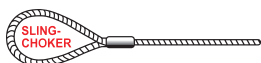
### 6x19 - 6x36 Compacted EEIPS IWRC

DY-PAC® 18, a category 2 rotation resistant rope, provides the load stability and performance needs for critical crane hoisting applications.

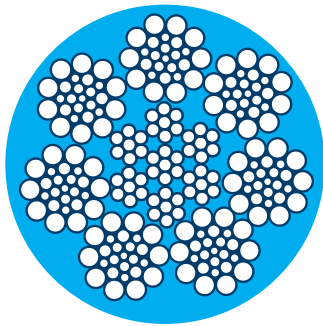
- Good rotation resistance for most applications
- Increased lifting capacity and drum crush resistance
- Smooth profile for efficiency on high speed hoisting lines

**MADE IN NORTH AMERICA**

We work to find the most suitable rope for our customer's applications – whether that is high performance rope or aircraft cable. Sling-Choker works with key manufacturers worldwide to find the best solutions for their customers.



Cushion 7 6x19-6x31 Plastic Impregnated. EIPS IWRC				
Dia.	Class	MBL tons	Wt.	Item
1/2	6x19	13.3	0.46	WRC7-008
5/8	6x19	20.6	0.72	WRC7-010
3/4	6x31	29.4	1.02	WRC7-012
7/8	6x31	39.8	1.40	WRC7-014



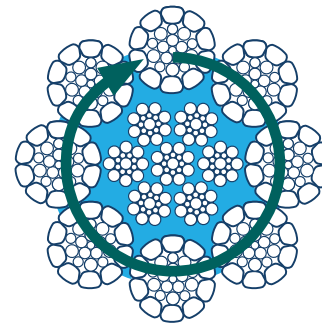
## Cushion 7

### 6x26 - 6x36 Plastic Impregnated EIPS IWRC

CUSHION® 7 fully plasticized ropes incorporate a more flexible design and resilient polymer technology to take on the toughest of applications.

- Resists shock loading & eliminates contaminant penetration
- 7 strand construction improves flexibility & cycle life
- Maximizes contact area & minimizes equipment wear

Cushion Pac 8 Reverse 8x19-8x36 Compacted, Plastic Rev. Core. EIPS IWRC			
Dia.	MBL tons	Wt.	Item
3/8"	9.69	0.306	WRC8R-006
7/16"	12.40	0.391	WRC8R-007
1/2"	16.20	0.505	WRC8R-008
9/16"	20.30	0.646	WRC8R-009
5/8"	25.00	0.825	WRC8R-010
3/4"	35.70	1.190	WRC8R-012
7/8"	48.00	1.530	WRC8R-014
1"	62.80	2.040	WRC8R-100
1-1/8"	81.80	2.680	WRC8R-102
1-1/4"	102.00	3.160	WRC8R-104
1-3/8"	129.00	4.110	WRC8R-106

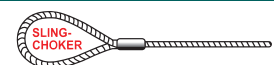


## Cushion Pac 8 RL

### 8x19 - 8x36 Compacted Plastic Reverse Core EIPS IWRC

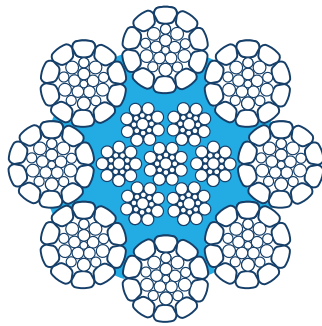
A torque-resistant wire rope for crane applications, Cushion Pac 8 RL significantly increases performance standards while offering:

- Specially designed 8x31 reverse-lay construction that is combined with APT core enhancement (Patent Pending), which increases cycle life in excess of 250%, while providing more than twice the rotation resistance of conventional 6 or 8 strand ropes
- APT core enhancement process that minimizes internal core damage and cross-cutting throughout the life of a rope, which allows for external inspection of operational wear
- DyPac strand compaction that increases the steel area of the individual strands, providing better resistance to crushing, improved drum spooling, and increased lifting capacity
- Greater rope contact area that increases rope life while reducing drum and sheave wear
- Maximum operational cost-effectiveness
- Reduced overall operating costs as a result of significantly increased performance and minimized downtime
- Fewer operational safety concerns as a result of lower torque and improved external inspection ability
- Lower equipment maintenance costs stemming from reduced sheave and drum wear





STEELMASTER 3X36+3X26/3X7			
Dia.	MBL tons	Wt.	Item
1/2	14.6	0.50	WRSM-008
5/8	22.7	0.78	WRSM-010
3/4	32.4	1.10	WRSM-012
7/8	43.8	1.50	WRSM-014
1	56.9	1.90	WRSM-100
1 1/8	71.5	2.40	WRSM-102
1 1/4	87.9	3.10	WRSM-104
1 3/8	106	3.70	WRSM-106
1 1/2	125	4.40	WRSM-108



## STEELMASTER

### 3X36

STEELMASTER® high cycle crane ropes are engineered specially for the extreme conditions found in today's steel industry.

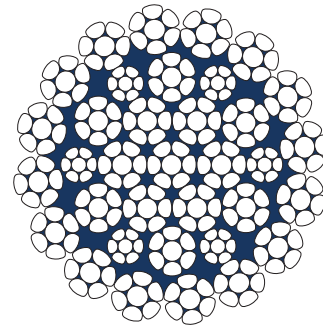
- Superior cycle life based on the optimized rope design
- Torque resistant design for large fleet angle configurations
- Superior high temperature resistant lubricant
- Available in custom operational variations

## WARNING

### DO NOT USE A SWIVEL WITH THESE ROPES

The resulting block twisting or "cabling" will occur when used in excess of certain lifting heights. This will unlay the rope and result in an unsafe condition

Surelift 35 Rotation Resistant Rope 35 x 7 (18 outer compacted strands) G2160				
Dia mm	Dia In.	MBL Lbs.	Wt.	Item
10		11	0.33	WRS35-10
13		18.2	0.56	WRS35-13
14.0	9/16"	20.9	0.67	WRS35-14
15.0		24.0	0.74	WRS35-15
16.0	5/8"	28.5	0.87	WRS35-16
18.0		35.6	1.08	WRS35-18
19.0	3/4"	39.8	1.21	WRS35-19
20.0		43.7	1.34	WRS35-20
21.0		48.4	1.48	WRS35-21
22.0	7/8"	53.9	1.61	WRS35-22
23.0		57.9	1.81	WRS35-23
24.0		63.9	1.95	WRS35-24
25.0		68.7	2.08	WRS35-25.4
25.4	1"	70	2.15	WRS35-25.4
26		74.8	2.28	WRS35-26
28.0		87.0	2.62	WRS35-28
30		96.2	3.02	WRS35-30
32.0	1-1/4"	109.5	3.49	WRS35-32

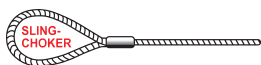


## SureLift 35

### 35 x 7 (18 outer compacted strands) Rotation Resistant Rope

A rotation-resistant wire rope ideal for mobile crane hoist ropes, tower cranes, and overhead crane hoist cables where resistance to rotation is important, Surelift 35 offers:

- Premium flexibility
- Ability to use with or without swivels
- Suitability for single and multi-part reeving
- Superior rotation resistance compared to 18x7 and 18x19 construction ropes
- Lang's Lay for maximum wearability
- Grade 2160 High Strength
- Fully lubricated for added corrosion resistance
- Superior crush resistance
- Compacted strands provide a higher strength rope with better wear inside and out, while reducing wear on sheaves and drums





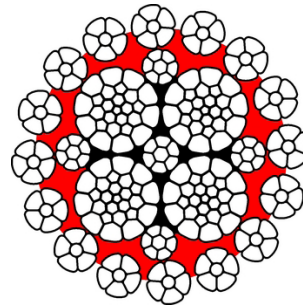
## Casar Eurolift

This rope has a specially designed core that avoids crossover between its strands, which prevents internal rope destruction. Classed as a hoist rope for mobile cranes, electrical hoists, and other applications where rotation-resistant ropes are required. Especially suitable for multi-layer spooling.

- Diameter range: 7/16" to 2-1/4" (10mm to 60mm)
- Standard tolerance on diameter: +0% to +4%
- Temperature range of use: -50°C to 70°C
- Suitable for multi-layer spooling in Lang's Lay
- Available in Ordinary Lay and Lang's Lay, Right or Left Lay
- Available in galvanized and ungalvanized

Nominal Diameter		Wt. lb/ft	Casar Eurolift Minimum Breaking Force	
Inch	mm		1960 N/mm kN	2160 N/mm <sup>2</sup> kN
	10	0.33	89.6	97.4
7/16"	11	0.40	108.8	118.4
	12	0.48	130.8	139.9
1/2"	12.70	0.53	146.4	161.4
	13	0.56	152.7	165.4
	14	0.65	179.1	190.9
	15	0.74	204.0	219.5
5/8"	15.88	0.83	228.5	246.0
	16	0.85	230.6	249.1
	17	0.95	257.9	280.6
	18	1.07	293.9	317.5
3/4"	19	1.19	329.0	352.8
	20	1.33	362.2	391.7
	21	1.46	396.1	430.9
	22	1.60	441.4	472.0
7/8"	22.23	1.63	450.4	481.6
	23	1.75	471.8	513.2
	24	1.91	524.3	564.1
	25	2.04	567.9	609.4
1"	25.40	2.11	586.2	629.0
1 1/8"	28.58	2.69	742.4	797.3

Teufelberger Evolution TKI 6				
Nominal Diameter		Wt. lb/ft	Minimum Breaking Force	
Inch	mm		1960 N/mm kN	2160 N/mm <sup>2</sup> kN
9/16"	14	0.68	181	197
	15	0.78	215	231
5/8"	16	0.89	244	263
	17	1.01	267	290
	18	1.10	309	333
3/4"	19	1.24	345	371
	20	1.40	374	401
	21	1.52	413	444
7/8"	22	1.69	452	487
	24	1.98	535	580
1"	25	2.12	595	639
	26	2.35	627	675
1-1/8"	28.57	2.78	744	814
	30	3.10	830	893
1-1/4"	32	3.52	944	1035
	34	3.96	1061	1141
	36	4.47	1187	1277
1-1/2"	38	4.94	1369	1472
	40	5.29	1458	1568

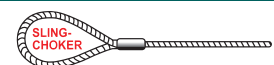


## Teufelberger Evolution TKI 6

Rotation resistant ordinary lay or lang's lay rope. Featuring a revolutionary design, extremely high breaking force and high flexibility, perfect suited as a hoisting rope.

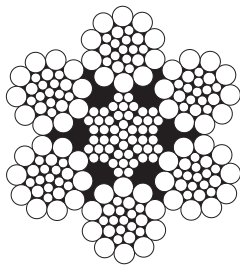
- Diameter range: 5/16" to larger than 1-1/2" (8mm to 42mm)
- Number of outer strands: 16
- Available in Ordinary Lay and Lang's Lay, Right or Left Lay

**Contact our sales team for pricing and availability.**



GS 6x19 Class 15-26 Wires. Bright EIPS IWRC			
Dia.	MBL tons	Wt.	Item
1/4"	3.40	0.108	WRG62-004
5/16"	5.27	0.169	WRG62-005
3/8"	7.55	0.244	WRG62-006
7/16"	10.20	0.332	WRG62-007
1/2"	13.30	0.434	WRG62-008
9/16"	16.80	0.549	WRG62-009
5/8"	20.60	0.688	WRG62-010
3/4"	29.40	0.975	WRG62-012
7/8"	39.80	1.330	WRG62-014
1"	51.70	1.730	WRG62-100
1-1/8"	65.00	2.190	WRG62-102
1-1/4"	79.90	2.750	WRG62-104
1-3/8"	96.00	3.280	WRG62-106
1-1/2"	114.00	3.900	WRG62-108

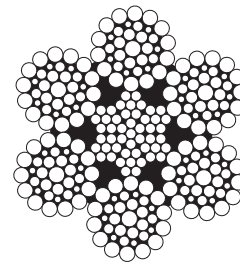
GS 6x36 Class 27 to 49 Wires. Bright EIPS IWRC			
Dia.	MBL tons	Wt.	Item
1/4"	3.40	0.108	WRG63-004
5/16"	5.27	0.169	WRG63-005
3/8"	7.55	0.244	WRG63-006
7/16"	10.20	0.332	WRG63-007
1/2"	13.30	0.434	WRG63-008
9/16"	16.80	0.549	WRG63-009
5/8"	20.60	0.688	WRG63-010
3/4"	29.40	0.975	WRG63-012
7/8"	39.80	1.330	WRG63-014
1"	51.70	1.730	WRG63-100
1-1/8"	65.00	2.190	WRG63-102
1-1/4"	79.90	2.750	WRG63-104
1-3/8"	96.00	3.280	WRG63-106
1-1/2"	114.00	3.900	WRG63-108



### 6x19 620 - G Series

**15-26 Wires, RH Regular Lay, Bright EIPS IWRC**

A basic wire rope used for wire rope slings, barriers, and general purpose applications.



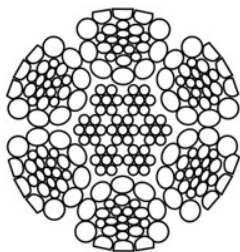
### 6x36 630 - G Series

**27-49 Wires, RH Regular Lay, Bright EIPS IWRC**

A basic wire rope used for general purpose applications that require additional flexibility.

GS Swaged Super 6X26 (WS) IWRC			
Dia.	MBL tons	Wt.	Item
3/8"	10.20	0.35	WRSSW-006
7/16"	13.00	0.46	WRSSW-007
1/2"	17.40	0.72	WRSSW-008
9/16"	21.90	0.87	WRSSW-009
5/8"	27.40	1.04	WRSSW-010
3/4"	38.50	1.85	WRSSW-012
7/8"	52.00	2.09	WRSSW-014
1"	66.50	2.44	WRSSW-100

GS Swaged				
Dia.	Grade	MBL tons	Wt.	Item
3/8"	110/120	9.25	0.35	WRSW-006
7/16"	110/120	12.15	0.46	WRSW-007
1/2"	110/120	15.90	0.60	WRSW-008
9/16"	110/120	19.60	0.75	WRSW-009
5/8"	110/120	24.21	0.93	WRSW-010
3/4"	110/120	35.00	1.11	WRSW-012
7/8"	110/120	47.50	1.83	WRSW-014
1"	110/120	61.50	2.42	WRSW-100

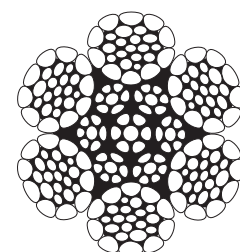


### Super Swaged - G Series

**Crush-Resistant Compacted Strands**

Swaged wire rope, rotary swaged after being closed, higher linear density.

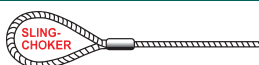
- Longer service life due to its smooth outer layer, less tendency to snag and abrade
- Smooth surface, minimal damage to drum and fairleads
- Made from Extra Improved Plow Steel (EIPS) with an Independent Wire Rope Center (IWRC)



### Swaged - G Series

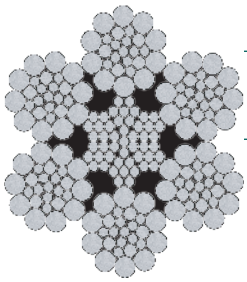
**Crush-Resistant Compacted Strands**

Extremely dense, high strength, and crush resistant wire rope. Originally developed for use on skidder winches where the rope frequently crossed over on the winch.



GS 6x19 Class Galv. 15-26 Wires. Galvanized EIPS IWRC			
Dia.	MBL tons	Wt.	Item
7/16"	10.2	0.35	WRG62G-007
1/2"	13.3	0.46	WRG62G-008
9/16"	16.8	0.59	WRG62G-009
5/8"	20.6	0.72	WRG62G-010
3/4"	29.4	1.04	WRG62G-012
7/8"	39.8	1.42	WRG62G-014
1"	51.7	1.85	WRG62G-100
1-1/8"	65.0	2.34	WRG62G-102

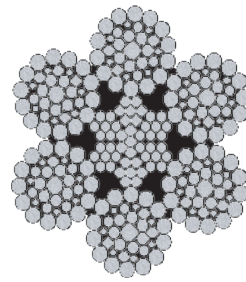
GS 6x36 Class Galv. 27 to 49 Wires. Galvanized EIPS IWRC			
Dia.	MBL tons	Wt.	Item
3/8"	7.6	0.26	WRG63G-006
7/16"	10.2	0.35	WRG63G-007
1/2"	13.3	0.46	WRG63G-008
5/8"	20.6	0.72	WRG63G-010
3/4"	29.4	1.04	WRG63G-012
7/8"	39.8	1.42	WRG63G-014
1"	51.7	1.85	WRG63G-100
1-1/8"	65.0	2.34	WRG63G-102
1-1/4"	79.9	2.89	WRG63G-104
1-3/8"	96.0	3.50	WRG63G-106
1-1/2"	114.0	4.16	WRG63G-108
1-3/4"	153.0	5.67	WRG63G-112
2"	198.0	7.39	WRG63G-200



### 6x19 620 - Galvanized

#### 15-26 Wires, Regular Lay EIPS IWRC

A basic wire rope used for wire rope slings, barriers, and general purpose applications where corrosion resistance is a key requirement.



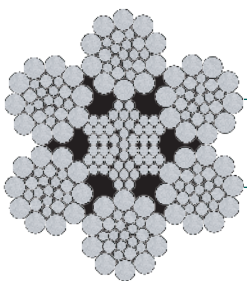
### 6x36 630 - Galvanized

#### 27 to 49 Wires, RH Regular Lay EIPS IWRC

A basic wire rope used for wire rope slings, barriers, and general purpose applications that require additional flexibility. The galvanizing provides resistance to corrosion.

GS 6x19 Class ST/ST 15-26 Wires. Stainless Steel EIPS IWRC			
Dia.	MBL tons	Wt.	Item
1/2"	13.3	0.46	WRG62S-008
5/8"	20.6	0.72	WRG62S-010
3/4"	29.4	1.04	WRG62S-012

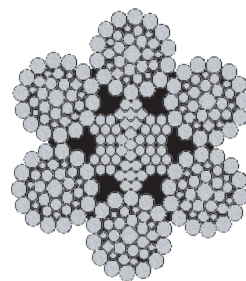
GS 6x36 Class ST/ST 27-36 Wires. Stainless Steel EIPS IWRC			
Dia.	MBL tons	Wt.	Item
1/2"	13.3	0.46	WRG63S-008
5/8"	20.6	0.72	WRG63S-010



### 6x19 620 - Stainless Steel

#### 15-26 Wires, RH Regular Lay EIPS IWRC

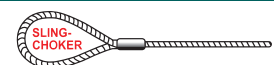
Type 304 Stainless steel wire rope is often used in lagoon systems or where high resistance to corrosion is required.



### 6x36 630 - Stainless Steel

#### 27-36 Wires, RH Regular Lay EIPS IWRC

Type 304 Stainless steel wire rope is often used in lagoon systems or where high resistance to corrosion is required. Type 316 & 321 are available for special requirements.



Open Swage Socket Installed			
Size	Pin	Opening	Item
1/4	0.69	0.69	SC501-004
5/16	0.81	0.80	SC501-005
3/8	0.81	0.80	SC501-006
1/2	1.00	1.00	SC501-008
9/16	1.19	1.25	SC501-009
5/8	1.19	1.25	SC501-010
3/4	1.38	1.50	SC501-012
7/8	1.63	1.75	SC501-014
1	2.00	2.00	SC501-100
1 1/8	2.25	2.25	SC501-102



## Blu-Loc Open Swage Socket

SC501-004 - 102

## Blu-Loc Closed Swage Socket

SC502-004 - 102

Forged from special bar quality carbon steel, Blu-Loc Open and Closed Swage Sockets are suitable for cold forming.

Hardness is controlled by spheroidize annealing.

Can be stamped for identification upon request after swaging with no concern for fractures, as per directions in National Swaging Brochure.



Swage sockets incorporate a reduced machined area of the shank which is equivalent to the proper "after swage" dimension. An obvious visual difference in shank diameter is apparent before swaging. A uniform shank diameter is created after swaging, allowing for a QUIC-CHECK® and permanent visual inspection opportunity. Designed to quickly determine whether the socket has been through the swaging operation and to assist in field inspections, this does not eliminate the need to perform standard production inspections, including gauging for the proper "after swage" dimensions or proof loading.

Closed Swage Socket Installed			
Size	Hole	Thickness	Item
1/4	0.76	0.50	SC502-004
5/16	0.88	0.68	SC502-005
3/8	0.88	0.68	SC502-006
1/2	1.07	0.87	SC502-008
9/16	1.28	1.14	SC502-009
5/8	1.28	1.14	SC502-010
3/4	1.49	1.33	SC502-012
7/8	1.73	1.53	SC502-014
1	2.11	1.78	SC502-100
1 1/8	2.37	2.03	SC502-102

**WARNING:** S501 SWAGE SOCKETS ARE RECOMMENDED FOR USE WITH 6X19 OR 6X37, IPS OR XIP (EIP), XXIP (EEIP), RRL, FC OR IWRC WIRE ROPE. BEFORE USING ANY NATIONAL SWAGE FITTING WITH ANY OTHER TYPE, CONSTRUCTION OR GRADE OF WIRE ROPE, IT IS RECOMMENDED THAT THE TERMINATION BE DESTRUCTIVE TESTED AND DOCUMENTED TO PROVE THE ADEQUACY OF THE ASSEMBLY TO BE MANUFACTURED. IN ACCORDANCE WITH ASME B30.9, ALL SLINGS TERMINATED WITH SWAGE SOCKETS SHALL BE PROOF LOADED.

S409 Drumline Ferrule Includes Labour			
Size	Dia	Length	Item
1/4	0.58	1.41	SC409-004
5/16	0.77	1.33	SC409-005
3/8	0.77	1.69	SC409-006
7/16	1.03	1.94	SC409-007
1/2	1.16	2.17	SC409-008
9/16	1.29	2.41	SC409-009
5/8	1.42	2.89	SC409-010
3/4	1.55	3.25	SC409-012
7/8	1.80	3.86	SC409-014
1	2.05	4.36	SC409-100
1 1/8	2.30	4.81	SC409-102
1 1/4	2.56	5.42	SC409-104



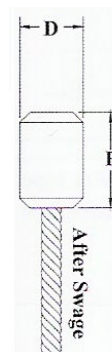
## Crosby S409 Swage Button

SC409-004 - 104

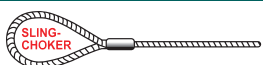
Terminations have an efficiency rating of 98% based on the catalogue strength of wire rope.

S409 Swage Buttons are specially processed with low carbon steel, and utilize COLD TUFF® for better swage-ability.

Stamp for identification after swaging with no concern for fractures, as per directions in National Swaging Brochure.



**WARNING:** OTHER BUTTONS AND DIFFERENT SIZES REQUIRE PROOF TESTING TO DETERMINE ACTUAL EFFICIENCY



Drum Line Ferrule Includes Labour			
Size	Dia	Length	Item
1/2	1.50	2.00	SCFEDL-008
9/16	1.50	2.00	SCFEDL-009
5/8	1.50	2.00	SCFEDL-010
3/4	1.50	2.00	SCFEDL-012
7/8	2.00	2.00	SCFEDL-014
1	2.00	2.00	SCFEDL-100
1 1/8	2.25	2.25	SCFEDL-102
1 1/4	2.25	2.25	SCFEDL-104



## Drum Line Ferrules

### SCFEDL-008 - 104

DRUM LINE WITH FERRULES INSTALLED: ARE USED ALMOST EXCLUSIVELY ON FORESTRY RELATED EQUIPMENT WHERE THE FERRULE DOES NOT REQUIRE 100% EFFICIENCY. FITS MOST DOZER AND SKIDDER WINCHES AND ARE THERE SOLELY TO HOLD THE ROPE ONTO THE DRUM WHILE THE REQUIRED AMOUNT OF DEAD WRAPS ARE INSTALLED

\*The efficiencies are low on these and are only intended to secure the rope to the drum. It is the dead wraps which provides the holding power.

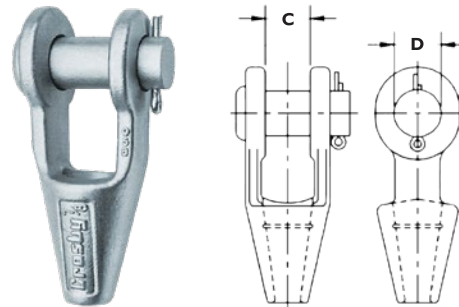
Crosby CRG416 Open Spelter Socket				
Installation charges extra				
Size	"C" Jaws	"D" Pin Hole	Wt. Lbs.	Item
5/16-3/8	0.81	0.81	1.3	1039637
7/16-1/2	1.00	1.00	2.3	1039655
9/16-5/8	1.25	1.19	3.6	1039673
3/4	1.50	1.38	5.8	1039691
7/8	1.75	1.63	9.7	1039717
1	2.00	2.00	15.5	1039735
1-1/8	2.25	2.25	21.5	1039753
1-1/4-1-3/8	2.50	2.50	31.0	1039771
1-1/2	3.00	2.75	47.3	1039799
1-5/8	3.00	3.00	55.0	1039815
1-3/4-1-7/8	3.50	3.50	82.0	1039833
2-2-1/8	4.00	3.75	129.0	1039851

Sizes 2-1/4 to 4" are available

Crosby CRG417 Closed Spelter Socket				
Installation charges extra				
Size	"K" Jaws	"D" Pin Hole	Wt. Lbs.	Item
5/16-3/8	0.69	0.97	0.8	1039913
7/16-1/2	0.88	1.16	1.5	1039931
9/16-5/8	1.00	1.41	2.5	1039959
3/4	1.25	1.68	4.3	1039977
7/8	1.50	1.94	7.3	1039995
1	1.75	2.30	10.5	1040019
1-1/8	2.00	2.56	14.3	1040037
1-1/4-1-3/8	2.25	2.81	19.8	1040055
1-1/2	2.50	3.19	29.2	1040073
1-5/8	2.75	3.25	36.0	1040091
1-3/4-1-7/8	3.00	3.75	57.3	1040117
2-2-1/8	3.25	4.38	79.0	1040135

Sizes 2-1/4 to 4" are available

\* Spelter Socket sizes from 2-1/4 to 4" are available.

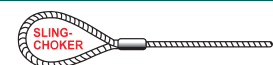
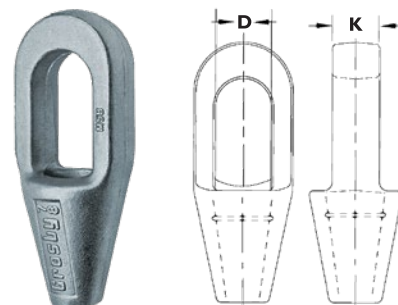


Spelter sockets are installed as per manufacturer's instructions. Sling-Choker branches have varying capabilities. Many branches can offer proof testing as required by ASME B30.9, and some branches offer field installations where required.

Forged Steel Sockets through 38mm, cast alloy steel 40mm through 100mm.

Spelter socket terminations have an efficiency rating of 100%, based on the catalog strength of wire rope. Ratings are based on the recommended use with 6 x 7, 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope. Strand constructed with minimal number of wires (e.g. 1 x 7) requires special consideration that socket basket length be five (5) times the strand diameter or fifty (50) times the wire diameter, whichever is the greater.

NOTICE: All cast steel sockets 40mm and larger are magnetic particle inspected and ultrasonic inspected. Proof testing available on special order. Drawing illustrates one groove used on sockets 6mm through 18mm. Sizes 20mm through 38mm use 2 grooves. Sizes 40mm and larger use 3 grooves.



Eye Splice-Customers Rope				
Size	Eye Width	Eye Length	WLL	Item
1/4	2	4	1,300	EYE004
5/16	2 1/2	5	2,000	EYE005
3/8	3	6	2,800	EYE006
7/16	3 1/2	6	3,800	EYE007
1/2	4	8	5,000	EYE008
9/16	4 1/2	9	6,400	EYE009
5/8	5	10	7,800	EYE010
3/4	6	12	11,200	EYE012
7/8	7	14	15,200	EYE014
1	8	16	19,600	EYE100
1 1/8	9	18	24,000	EYE102
1 1/4	10	20	30,000	EYE104
1 3/8	11	22	36,000	EYE106
1 1/2	12	24	42,000	EYE108

Thimble Eye Splice				
Size	Eye Width	Eye Length	WLL	Item
1/4	7/8	1 5/8	1,300	EYET004
5/16	1 1/16	1 7/8	2,000	EYET005
3/8	1 1/8	2 1/8	2,800	EYET006
7/16	1 1/4	2 3/8	3,800	EYET007
1/2	1 1/2	2 3/4	5,000	EYET008
9/16	1 1/2	2 3/4	6,400	EYET009
5/8	1 3/4	3 1/4	7,800	EYET010
3/4	2	3 3/4	11,200	EYET012
7/8	2 1/4	4 1/4	15,200	EYET014
1	2 1/2	4 1/2	19,600	EYET100
1 1/8	2 7/8	5 1/8	24,000	EYET102
1 1/4	2 7/8	5 1/8	30,000	EYET104
1 3/8	3 1/2	6 1/4	36,000	EYET106
1 1/2	3 1/2	6 1/4	42,000	EYET108

Stainless Steel Eye Splice				
Size	Eye Width	Eye Length	WLL	Item
1/4	2	4	1,300	EYES004
5/16	2 1/2	5	2,000	EYES005
3/8	3	6	2,800	EYES006
1/2	4	8	5,000	EYES008
5/8	5	10	7,800	EYES010
3/4	6	12	11,200	EYES012

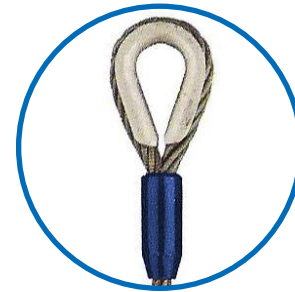


## Blu-Loc Eye Splice

### EYE004-104

Manufactured using efficient Flemish Rolled eyes, we strictly adhere to manufacturer instructions to meet a 95% efficiency rating.

Rigger training, testing, and machine calibration programs ensure that lifting assemblies meet specifications and maintain consistently high standards of quality.



## Blu-Loc Thimble Eye

### EYET004-104

Recommended anywhere resistance to abrasion is required, Blu-Loc thimble eyes also promote better DD factors in assemblies using fittings, such as shackles or master links.



## Blu-Loc Stainless Steel Eye Splice

### EYES004-012

Blu-Loc stainless steel splices utilize a stainless steel sleeve, offering continuity of metals in stainless steel wire rope assemblies.



TTS Threaded Stud - Installed					
Rope Dia.	"A" After Swage	B	C	NC	Item NC
1/4"	7/16	4 1/16	1 1/2	1/2-13	SC-TTSC-004A
1/4"	7/16	5 1/16	2 1/2	1/2-13	SC-TTSC-004
5/16"	9/16	5 1/16	1 7/8	5/8-11	SC-TTSC-005
3/8"	5/8	6 1/4	2 1/4	3/4-10	SC-TTSC-006
7/16"	3/4	7 5/16	2 5/8	7/8-9	SC-TTSC-007
1/2"	7/8	8 1/4	3	1-8	SC-TTSC-008A
1/2"	7/8	11 1/8	7	7/8-9	SC-TTSC-008
9/16"	1	9 1/4	3 3/8	1-1/8-7	SC-TTSC-009
5/8"	1 1/8	10 1/8	3 3/4	1-1/4-7	SC-TTSC-010
3/4"	1 3/8	12 13/16	4 1/2	1-1/2-6	SC-TTSC-012
7/8"	1 1/2	14 9/16	5 1/4	1-3/4-5	SC-TTSC-014
1"	1 3/4	16 1/4	6	2-4-1/2	SC-TTSC-100

## Threaded Studs

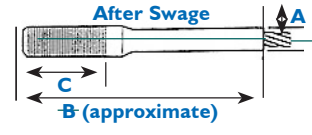
### SC-TTSC-004 - 100

This accompanying chart is a listing of available industry fittings. Also available in NF.

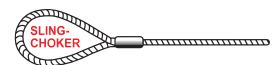
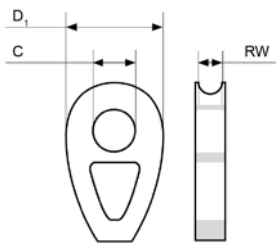
A convenient method of terminating a wire rope, threaded studs are used by many manufacturers, often with custom dimensions.

We offer both standard and custom threaded studs. Call us with a detailed description to find the right product.

**WARNING: EFFICIENCIES VARY DEPENDING ON THE CUSTOM NATURE OF YOUR FITTING.**



DIN 309 European Solid-Thimbles								
Size	Groove Width mm (RW)	Standard Hole mm (D-1)	Hole Drilled mm (Ø1) From-To	Outside Width mm (C)	Outside Length mm (T)	Outside Height mm (h)	Weight Each Kgs	Item
8	9	14	17 - 20	40	56	15	0.2	DIN309-08
10	11	18	21 - 25	50	70	17	0.3	DIN309-10
12	13	21	24 - 30	60	84	20	0.5	DIN309-12
14	16	25	29 - 35	70	96	23	0.8	DIN309-14
16	18	28	32 - 40	80	130	26	0.9	DIN309-16
18	20	31	35 - 45	90	145	28	1.2	DIN309-18
20	22	35	40 - 50	100	161	32	1.6	DIN309-20
22	24	38	43 - 55	110	177	33	2.1	DIN309-22
24	26	41	46 - 60	120	193	36	2.7	DIN309-24
26	29	44	49 - 65	130	209	39	3.6	DIN309-26
28	31	47	52 - 70	140	224	43	4.2	DIN309-28
32	35	53	58 - 80	160	256	48	6.3	DIN309-32
36	40	59	65 - 90	180	288	53	8.8	DIN309-36
40	44	65	71 - 100	200	320	58	11.0	DIN309-40
44	48	70	76 - 110	220	352	63	15.0	DIN309-44
48	53	76	82-120	240	384		20.0	DIN309-48
52	57	81	87-130	260	416		25.0	DIN309-52
56	62	86	92-140	280	448		32.0	DIN309-56
64	70	95	103-160	320	512		46.0	DIN309-64
72	79	140	145-180	360	573		60.0	DIN309-72





T-LOC Eye 35(W) x 7 (grade 2160) (mm) Fill factor: $0.74 \leq f \leq 0.75$			
Rope Diameters			
Kit No.	Min	Max	Item
12	10.0	10.9	EYET-LGS 12
13	11.0	11.9	EYET-LGS 13
14	12.0	12.9	EYET-LGS 14
16	13.0	13.9	EYET-LGS 16
18	14.0	15.9	EYET-LGS 18
20	16.0	17.9	EYET-LGS 20
22	18.0	19.9	EYET-LGS 22
24	20.0	21.9	EYET-LGS 24
26	22.0	23.9	EYET-LGS 26
28	24.0	25.9	EYET-LGS 28
30	26.0	27.9	EYET-LGS 30
32	28.0	29.9	EYET-LGS 32
34	30.0	31.9	EYET-LGS 34
36	32.0	33.9	EYET-LGS 36
38	34.0	35.9	EYET-LGS 38
40	36.0	37.9	EYET-LGS 40
44	38.0	39.9	EYET-LGS 44
48	40.0	43.9	EYET-LGS 48
52	44.0	47.9	EYET-LGS 52
56	48.0	51.9	EYET-LGS 56
60	52.0	54.6	EYET-LGS 60



## T-LOC Spliced Wire Rope

### EYET-LOC12 - EYET-LOC60

Surelift 35 Sample Diameters

- WRS35-16 16.52mm
- WRS35-19 19.42mm
- WRS35-22 22.9mm



T Konit (TK) Eye 35(W) x 7 (grade 2160) (mm) Fill factor: $0.74 \leq f \leq 0.75$			
Rope Diameters			
Kit No.	Min	Max	Item
12	10.0	10.9	EYETK-12
13	11.0	11.9	EYETK-13
14	12.0	12.9	EYETK-14
16	13.0	13.9	EYETK-16
18	14.0	15.9	EYETK-18
20	16.0	17.9	EYETK-20
22	18.0	19.9	EYETK-22
24	20.0	21.9	EYETK-24
26	22.0	23.9	EYETK-26
28	24.0	25.9	EYETK-28
30	26.0	27.9	EYETK-30
32	28.0	29.9	EYETK-32
34	30.0	31.9	EYETK-34
36	32.0	33.9	EYETK-36
38	34.0	35.9	EYETK-38
40	36.0	37.9	EYETK-40



## T Konit (TK) Eye

### EYETK-12 - EYETK-40



Wire Rope Cutters & Crimpers			
Product	Length. In.	Wt. Lbs.	Item
HSC350	14	2.5	CUTHS350
HSC600	26	5.8	CUTHS600
HSC1000	40	17.3	CUTHSC1000
CUT000-WCI	9"	0.8	CUT000-WCI
ISC	26"	6.5	CUTISC

## Crimping Tools

### Including Hand Swaging Products

There are many tools available on the market - not all of which are right for the job. There are inexpensive, quality options that have been designed to do exactly what you need:

We will not guarantee the use of other (non-ARM) brand sleeves/swagers with our products and strongly advise against it.

When swaging vinyl-sheathed wire rope, always retract sheathing to reveal wire rope before proceeding to swage.

Refer to the specific oval sleeve technical data for detailed information relating to safety/destruction loads.



**WARNING:** MOST ARM (AND OTHER TOOLS) ARE DESIGNED TO SWAGE ALUMINUM SLEEVES AND STOPS. CRIMPING COPPER MAY RESULT IN BROKEN TOOLS OR INCOMPLETE SWAGES, RESULTING IN FAILURES.



### Locoloc Multi-Cavity Cable Hand Swaging Tool (Copper/Aluminum)

#### CUTISC

Designed for swaging copper and aluminum oval and stop sleeves of: 1/16", 3/32", 1/8", 5/32", and 3/16" as well as 7/32" stop sleeves which, in addition to the ability to cut up to 7/32" diameter aircraft quality steel cable, makes a round dozen functions that can be performed with this one tool. This multi-cavity tool weighs 6.5 pounds, is 26 inches long, and includes a comprehensive parts list.



### Hand Swager HSC350 1.5mm (1/16") - 3.5mm (1/8")

#### CUTHS350



### Hand Swager HSC600 1.5mm (1/16") - 5mm (3/16")

#### CUTHS600



### Hand Swager HSC1000 6mm (1/4") - 8mm (5/16")

#### CUTHS1000



### Locoloc Hand Swager

#### CUT000-WCI

Small, compact, can be carried in your pocket. Swages 1/32", 3/64", and 1/16" oval and stop sleeves.

Has built in cable cutter. Packaged in plastic pouch. 9" long and weighs 12 ounces.

Impact Wire Rope Cutter	
Model	Item
No 01	CUT01
No 01A	CUT01A
No 02	CUT02

Top Blades	
Model	Item
No 01	CUTBL0015
No 01A	CUTBL0015
No 02	CUTBL003

Bottom Guides	
Model	Item
No 01	CUTGUI-1
No 01A	CUTGUI-1A
No 02	CUTGUI-2

## Morse-Starrett Impact Wire Rope Cutters

### CUT01(A) - 02

The original portable tool brand invented in 1928 to cut wire rope.

Actuated by striking with a hammer, they are easy to operate and give superior performance without jamming.

Precision-engineered to deliver a clean cut without affecting the original roundness of the wire rope.

The blades and dies of these tools are made of the finest tool steel

## Morse-Starrett Impact Cutter NO 01

### CUT01

LIGHT  
DUTY



## Morse-Starrett Impact Cutter NO 01A

### CUT01A

1 1/16"



## Morse-Starrett Impact Cutter NO 02

### CUT02

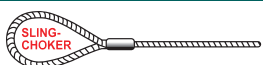
1 1/2"



BATTERY  
POWERED  
CABLE  
CUTTERS

## Loos & Co. Battery Powered Cable Cutters

Contact us for pricing information



Felco Wire Rope Cutters			
Model	Lgth. In.	Wt. Oz.	Item
C7	7.5	9.5	CUTC07



## Felco C7 Cutter

### An outstandingly powerful tool for cutting steel wire rope

Has unique triangular jaws that never leave a frayed cut.

Features hardened steel blades and center bolt.

Cuts wire rope up to 1/4" or 7mm thick, high tensile steel strands up to 5mm thick, and stainless steel strands up to 4mm.

Cuts electrical cables of copper, aluminum, and steel-cored aluminum up to 7mm thick, aluminum or copper rods up to 5mm thick, steel rods up to 4mm thick, and tempered steel spring wire up to 2mm thick.

7.5" long and weighs 10 ounces.

Felco Wire Rope Cutters			
Model	Lgth. In.	Wt. Oz.	Item
C7	7.5	9.5	CUTC07



## Felco C9 Cutter

### Felco's smallest two-handed wire cutter

Features Felco's patented "triangular cut", a system designed to cut rope smoothly without being crushed.

Has hardened steel blades, center bolt, and unbreakable forged aluminum alloy handles with plastic covering.

Cuts wire rope up to 3/8" or 9mm thick, high tensile steel strands up to 7mm thick, stainless steel strands up to 6mm thick, and extra tough wire rope or strands up to 5mm thick.

Cuts electrical cables of copper, aluminum, and steel-cored aluminum, and aluminum or copper rods up to 9mm thick.

Cuts steel rods up to 7mm thick and tempered steel spring wire up to 4mm thick.

13" long and weighs 1.75 lbs

Felco Wire Rope Cutters			
Model	Lgth. In.	Wt. Oz.	Item
C7	7.5	9.5	CUTC07



## Felco C12 Cutter

### Special steel blades & custom handle shape

- Is a two-handed cutter recommended for cutting steel cable up to 1/2" thick, high tensile steel strands up to 8mm thick, stainless steel strands up to 6mm thick, and extra tough wire rope or strands up to 5mm
- Cuts electrical cables of copper, aluminum, and steel-cored aluminum up to 12mm thick
- It also cuts aluminum or copper rods up to up to 10mm thick, steel rods up to 8mm thick, and tempered steel spring wire up to 4mm thick
- Is capable of satisfying most varied industrial requirements, and measures 19" in length while weighing 3 pounds

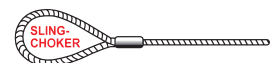
Felco Wire Rope Cutters			
Model	Lgth. In.	Wt. Oz.	Item
C7	7.5	9.5	CUTC07



## Felco C16 Cutter

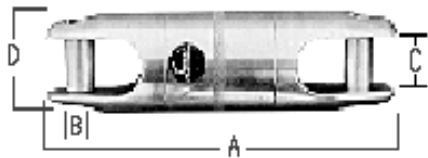
### A two-handed cutter that provides an optimum cutting yield

- Is recommended for cutting steel cable up to 5/8" or 16mm thick, high tensile steel strands up to 14mm thick, stainless steel strands up to 7mm thick, and extra tough wire rope or strands at 6mm
- Cuts electrical cables of copper, aluminum, or steel-cored aluminum up to 16mm
- Cuts aluminum or copper rods up to 14mm thick, steel rods up to 10mm thick, and tempered steel spring wire up to 5mm thick
- Is capable of satisfying most varied industrial requirements, and measures 23" in length while weighing 5 pounds



HD Sealed Pulling Swivels, Jaw and Jaw							
Model	Length (A)	Pin (B)	Jaw (C)	Dia (D)	BS Lbs.	WLL Lbs.	Item
HD-00-S	4 1/4"	5/16"	3/8"	7/8"	4,500	1,500	LW-401001
HD-0-S	5 3/8"	7/16"	1/2"	1 1/8"	16,200	5,400	LW-401003
HD-1-S	6 1/8"	1/2"	5/8"	1 7/16"	27,000	9,000	LW-401005
HD-2-S	7 3/8"	5/8"	5/8"	1 5/8"	36,000	12,000	LW-401007

(LW) Regular Duty Links							
Model	Length (A)	Pin (B)	Jaw (C)	Dia (D)	BS Lbs.	WLL Lbs.	Item
W-1	5 3/8"	7/16"	5/8"	1 5/16"	15,000	5,000	LW-401012
W-2	6 1/2"	1/2"	7/8"	1 5/8"	16,200	5,400	LW-401013
W-3	7 5/8"	5/8"	1"	2"	36,000	12,000	LW-401014
W-4	8 3/4"	3/4"	1 1/4"	2 1/4"	30,000	15,000	LW-401015



## Sealed Ball Bearing

### LW-401001 - 401015

Lewis Sealed Ball Bearing Directional Boring Swivels prevent equipment rotational torque from interfering with the product being pulled. In a typical boring application, the swivel is attached behind the reamer head and to the pipe or cable being pulled through the bore. Permanently sealed to keep contaminants out, so they never require lubrication.

LSG-X Snakes			
Size Range	Swivel Size	WLL Lbs (3:2)	Item
1/4"-1/2"	7/8"x3-1/2"	1,200	LW-303033
1/2"-1"	7/8"x3-1/2"	2,500	LW-303025
1"-1-1/2"	1"x3-3/4"	3,500	LW-303026
1-1/2"-2"	1-3/8"x4-3/4"	4,000	LW-303027
2"-2-3/4"	1-3/8"x4-3/4"	5,000	LW-303059
2-3/4"-3-1/2"	TBA	6,500	LW-303060
3-1/2"-4-1/4"	TBA	8,000	LW-303061



## LSG-X Series

### LW-303025 - 303061

Performs the same function as the standard LSG series. The LSG-X cannot be taken apart in the middle; it is permanently attached via our new "Swivel Tube" assembly, which is a low-profile heavy-duty friction swivel. This snake is for the customer who does not need to separate the two pulling grip elements and who prefers a very low-profile swivel. The swivel is permanently greased and has the size range and working load clearly stenciled on the swivel tube assembly.

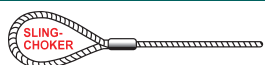
Regular Size LSG Snakes			
Model/Range	BS Lbs	WLL Lbs	Item
1/4" - 1/2"	4,400	1,200	LW-303001
1/2" - 1"	7,500	2,500	LW-303003
1/2" - 1-1/2"	7,500	2,500	LW-303004
1" - 1 1/2"	10,000	3,500	LW-303007
1 1/2" - 2"	12,000	4,000	LW-303009
2" - 2 3/4"	16,000	5,000	LW-303011
2 3/4" - 3 1/2"	20,000	6,500	LW-303012
3 1/2" - 4 1/4"	24,000	8,000	LW-303013



## Snake Grips

### LW-303001 - 303013

The Lewis Snake Grip expands or contracts to grip different or identical cable and/or rope sizes as per the customers' needs. Save time stringing up, changing, and unstringing, because the snake requires no special tools. The swivel and swing link go smoothly through blocks and prevent line twisting. Install new cable by using existing cable as pulling line. Always seize the ends of the grips by banding or taping.



Wire Rope Pulling Grips OC						
Style	Dia.	Dia.	WLL	Length	Grip to end of	Item
Style	mm	Inch	Lbs.	of Braid	Swivel/Loop	
K	19-35	1 1/16"-1-3/8"	2,420	24.80	7.09	GSGRIP-K19-35
K	25-50	1"-2"	4,400	29.92	7.87	GSGRIP-K25-30
K	38-60	1-1/2"-2-1/4"	4,400	37.40	8.27	GSGRIP-K38-60
K	50-75	2"-3"	5,500	40.16	9.45	GSGRIP-K50-75
T	7-12	5/16"-7/16"	660	12.99	3.35	GSGRIP-T0712
T	13-18	1/2"-5/8"	880	12.99	3.35	GSGRIP-T1318

## K-Style Pulling Grip

### GSGRIP-K19-35 - K50-75

Includes built-in swivel



## T-Style Pulling Grip

### GSGRIP-T0712 - T1318

Includes pulling loop



Rope Grip	
Size	Item
3/16"-1/2"	GSI604-20L
1/2"-3/4"	GSI625-20



## Rope Grip

### GSI604-20L - GSI625-20

V-440 Standard Lubricant		
Size	Wt.	Item
12 OZ.	1.0	1038946
5 Gal	41.0	1038955
55 Gal	420.0	1038964

## V-440 Standard Lubricant

### 1038946 - 1038964

12 ounce can, 5 gallon pail, or 55 gallon drum.



V-410 Bio-Lube Lubricant		
Size	Wt.	Item
12 OZ.	1.0	1039004
5 Gal	41.0	1039013
55 Gal	420.0	1039022

## V-440 Bio-Lube Lubricant

### 1039004 - 1039022

12 ounce can, 5 gallon pail, or 55 gallon drum.

Vitalife 400 is the preferred penetrating wire rope lubricant in the industry. It has the ability to penetrate into a wire rope and displace water and contaminants. It also reduces wear and corrosion throughout the rope to which it is applied.

Vitalife 400 Lubricants:

- Provide inner strand preservation and lubricity
- Allow for easy visual inspection of ropes
- Reduce the friction between the strands of the wire rope
- Extend rope life
- Adhere to the surface of strands, forming an outer film which provides excellent corrosive protection
- Are not tacky and will not attract dust

V-500 Ski Lift Lubricant		
Size	Wt.	Item
5 Gal	41.0	1038973
55 Gal	420.0	1038982

## V-500 Ski Lift Lubricant

### 1038973 - 1038982

5 gallon pail or 55 gallon drum.

Corelube Wire Rope Grease Applicator	
Description	Item
Complete Grease System	CL-A1600
Replacement Parts	
O Ring Kit	CL-A1600-1/8
Grease Bushings	
3/4	CL-GB-0.750
7/8	CL-GB-0.875
1	CL-GB-1.00
1 1/8	CL-GB-1.125
1 1/4	CL-GB-1.250
1 3/8	CL-GB-1.375
1 1/2	CL-GB-1.500
1 5/8	CL-GB-1.625
1 3/4	CL-GB-1.750
2	CL-GB-2.00
Grease Seals	
3/4	CL-GS-0.750
7/8	CL-GS-0.875
1	CL-GS-1.00
1 1/8	CL-GS-1.125
1 1/4	CL-GS-1.250
1 3/8	CL-GS-1.375
1 1/2	CL-GS-1.500
1 5/8	CL-GS-1.625
1 3/4	CL-GS-1.750
2	CL-GS-2.00



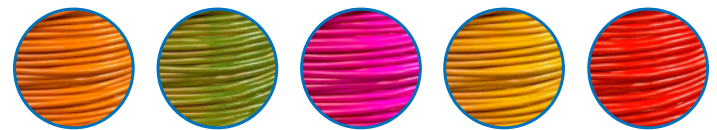
## Corelube Grease System

### CL-A1600

Complete wire rope grease applicator that:

- Medium pressure grease pump 15:1
- Handles: NLGI #0 & #00 Grease
- Fits on 35 lb. or 16 kg container. Can be used on 45-55 Gallon drums with a bung. Suitable for 1/4" through 2-1/2" wire rope
- High pressure grease injection collar that is designed to contain 3,000 psi.
- Solid machined aluminum housing with dual O-ring seals and high pressure cable seals
- Removes build up of old lubricant, dirt and grime. Displaces moisture from the cable. Forces new lubricant into the cable

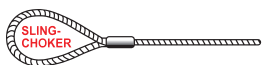
Assorted Coated Cables				
Dia.	OS Dia.	Coating	Colour	Item
1/8	3/16	Nylon	Clear	XNG-002003C
3/16	1/4	Nylon	Clear	XNG-003004C
3/32	3/16	PVC	Orange	XPG-0015003O
3/32	3/16	PVC	Clear	XPG-0015003C
1/8	3/16	PVC	Red	XPG-002003R
3/16	1/4	PVC	Clear	XPG-003004C
1/4	5/16	PVC	Clear	XPG-004005C
1/4	5/16	PVC	Red	XPG-004005R



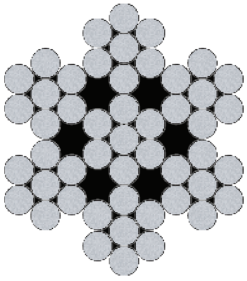
## Coated Aircraft Cable

### Vinyl or PVC coated 7x7 or 7x19 cable

High strength aircraft quality cable with a galvanized zinc finish. PVC coated cable is more resistant to abrasion and weathering. The cable is either 7x7 or 7x19 extra flexible construction, as illustrated. Available in assorted solid, striped, or luminescent colours, as well as galvanized or stainless steel cable.



7x7 Galvanized Aircraft Cable			
Dia.	Nom. BL	Wt./100 Ft	Item
1/16	480	0.42	ACG77-001

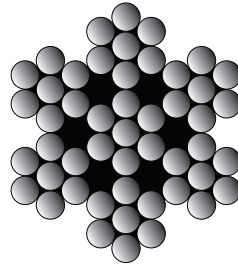


## 7x7 Aircraft Cable

### Galvanized zinc finish

Small diameter, economic cable for general industrial and marine applications.

7x7 T304 St/St Aircraft Cable			
Dia.	Nom. BL	Wt./100 Ft	Item
1/16	480	0.42	ACS77-001

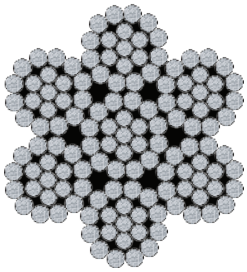


## 7x7 Aircraft Cable

### Type 304 stainless steel

Small diameter, durable, and economic cable for general industrial and marine applications. Also available in Type 316 stainless steel.

7x19 Galvanized Aircraft Cable			
Dia.	Nom. BL	Wt./100 Ft	Item
3/32	1,000	1.6	ACG71-0015
1/8	2,000	2.9	ACG71-002
5/32	2,800	4.50	ACG71-0025
3/16	4,200	6.5	ACG71-003
1/4	7,000	11	ACG71-004
5/16	9,800	17.30	ACG71-005
3/8	14,400	24.3	ACG71-006

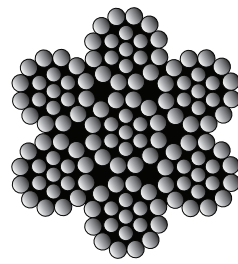


## 7x19 Aircraft Cable

### Galvanized zinc finish

Small diameter, economic, and higher strength cable for general industrial and marine applications.

7x19 T304 St/St Aircraft Cable			
Dia.	Nom. BL	Wt./100 Ft	Item
3/32	1,100	1.6	ACS71-0015
1/8	1,700	2.9	ACS71-002
5/32	2,900	4.5	ACS71-0025
3/16	3,700	6.5	ACS71-003
1/4	6,400	11	ACS71-004
5/16	9,400	17.30	ACS71-005
3/8	12,000	24.3	ACS71-006



## 7x19 Aircraft Cable

### Type 304 stainless steel

Small diameter, durable, economic, and higher strength cable for general industrial and marine applications. Also available in Type 316 stainless steel.

**MILITARY SPEC CABLES AVAILABLE UPON REQUEST.**

Aluminum Ovals		Alum. Nicopress Eyes Installed	
Dia.	Item	Dia.	Item
1/16	NIC-AO-001	1/16	NICI-AO-001
3/32	NIC-AO-0015	3/32	NICI-AO-0015
1/8	NIC-AO-002	1/8	NICI-AO-002
5/32	NIC-AO-0025	3/16	NICI-AO-003
3/16	NIC-AO-003		
1/4	NIC-AO-004		
5/16	NIC-AO-005		
3/8	NIC-AO-006		

## Aluminum Oval Sleeve

Lightweight sleeves for eye splicing.



Copper Ovals		Copper Nicopress Eye Installed	
Dia.	Item	Dia.	Item
1/16	NIC-CO-001	1/16	NICI-CO-001
3/32	NIC-CO-0015	3/32	NICI-CO-0015
1/8	NIC-CO-002	1/8	NICI-CO-002
5/32	NIC-CO-0025	3/16	NICI-CO-003
3/16	NIC-CO-003		
1/4	NIC-CO-004		
5/16	NIC-CO-005		
3/8	NIC-CO-006		

## Copper Oval Sleeve

Durable sleeves for eye splicing.



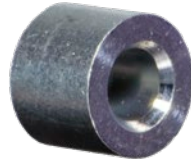


Aluminum Stops		Aluminum Stop Installed	
Dia.	Item	Dia.	Item
1/16	NIC-AS-001	1/16	NICI-AS-001
3/32	NIC-AS-0015	3/32	NICI-AS-0015
1/8	NIC-AS-002	1/8	NICI-AS-002
5/32	NIC-AS-0025	3/16	NICI-AS-003
3/16	NIC-AS-003		
1/4	NIC-AS-004		
5/16	NIC-AS-005		

Copper Stops		Copper Stop Installed	
Dia.	Item	Dia.	Item
1/16	NIC-CS-001	1/16	NICI-CS-001
3/32	NIC-CS-0015	3/32	NICI-CS-0015
1/8	NIC-CS-002	1/8	NICI-CS-002
5/32	NIC-CS-0025	3/16	NICI-CS-003
3/16	NIC-CS-003		
1/4	NIC-CS-004		
5/16	NIC-CS-005		

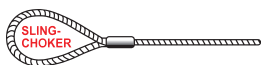
## Aluminum Stop Sleeve

Lightweight sleeves for stop splicing.



## Copper Stop Sleeve

Durable sleeves for stop splicing.



CR450 Crosby Heavy Duty Wire Rope Clips					
Min # of		Min. Rope			
Dia.	Clips	Torque	Turn back	Wt./ea.	Item
1/8	2	4.5	3-1/4"	0.06	1010015
3/16	2	4.5	3-3/4"	0.1	1010033
1/4	2	15	4-3/4"	0.2	1010051
5/16	2	30	5-1/4"	0.3	1010079
3/8	2	45	6-1/2"	0.47	1010097



### Crosby Heavy Duty Wire Rope Clips

1010015 - 1010097

Crosby

OC450 Generic Heavy Duty Wire Rope Clips					
Min # of		Min. Rope			
Dia.	Clips	Torque	Turn back	Wt./ea.	Item
1/8	2	4.5	3-1/4"	0.06	GS450-002
3/16	2	4.5	3-3/4"	0.1	GS450-003
1/4	2	15	4-3/4"	0.2	GS450-004
5/16	2	30	5-1/4"	0.3	GS450-005
3/8	2	45	6-1/2"	0.47	GS450-006



### Generic Heavy Duty Wire Rope Clips

GS450-002 - 006

Generic

Malleable Wire Rope Clips	
Dia.	Item
1/8	GS450M-002
3/16	GS450M-003
1/4	GS450M-004
5/16	GS450M-005
3/8	GS450M-006



### Malleable Wire Rope Clips

GS450M-002 - 006

HD Clips T304 Stainless	
Size	Item
1/8"	GS450S-002
3/16"	GS450S-003
1/4"	GS450S-004
5/16"	GS450S-005
3/8"	GS450S-006



### HD Clips T304 Stainless

GS450S-002 - 006

**CAUTION:** MALLEABLE CLIPS AND QUICK LINKS ARE NOT FOR OVERHEAD LIFTING OR ANY OTHER CRITICAL APPLICATION. THEY ARE INTENDED FOR HARDWARE APPLICATIONS.

Safeline Clamps		
Size	Torque	Item
1/8"	35	SFCL-P002
3/16"	80	SFCL-P003
1/4"	145	SFCL-P004
5/16"	225	SFCL-P005
3/8"	325	SFCL-P006
1/2"	575	SFCL-P008
5/8"	900	-
3/4"	1300	SFCL-P012



### Safe-Line Clamps

SFCL-P002 - P012

Electroline Safe-Line Wire Rope Clamps are ideal for field installations that require quick, easily thimble rope terminations with reliability that wire rope clips cannot provide.

Designed only for 6x19 IWRC or 7x19 right regular lay wire rope sizes 1/8" through 3/4", the cadmium-plated Safe-Line Clamp assembly includes a two-piece plug and cold-finish bar-steel socket.

The finished assembly provides a neat and clean profile (similar to swage fitting) with no sharp edges or loose ends to snag.

Gripples- Lockable (4:1)					
Size	Max Vertical WLL	Qty/Bag	Qty/Box	Wt./box	Item
1/16"	180	TBA	240	15.0	GRIP-LK001
1/8"	300	10	160	22.9	GRIP-LK002
5/32"	660	5	80	17.2	GRIP-LK0025
3/16"	880	5	80	17.2	GRIP-LK003
1/4"	1100	1	4	17.2	GRIP-LK004
5/16"	2200	2	20	14.0	GRIP-LK005
3/8"	3300	2	10	14.0	GRIP-LK006
Tensioning tools					
Tensioning Tool- up to 1/4"					GRIP-T6
Tensioning Tool- 5/16" to 3/8"					GRIP-T13
All boxes are supplied with 2 setting keys					



## Gripples Lockable

**GRIP-D6004**  
**GRIP-LK001 - LK006**

Ideal for terminating cable when bracing and suspending static and dynamic loads.

## Tensioning Tools

**GRIP-T6 - T13**

Two sizes for easy gripple tensioning

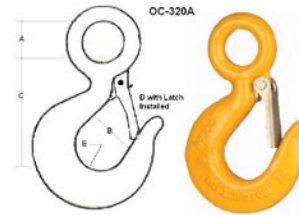
Snap Hook ST/ST				
WLL	F	H	Wt.	Item
500	4-1/8"	3/4"	0.26	BM-S71
600	4-3/4"	1-1/8"	0.42	BM-S72



## Snap Hook ST/ST

**BM-S71 - S72**

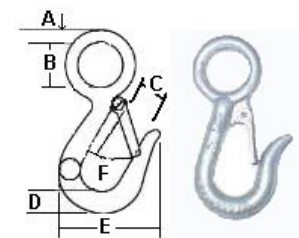
OC320C Eye Hooks with Latch							
WLL Tons	A	B	C	D	E	Wt.	Item
0.75	0.75	0.94	3.22	0.88	0.81	0.5	GS320C-0075
1.5	0.91	1.03	3.66	0.97	0.81	0.8	GS320A-015
2	1	1.06	4.09	1	0.84	1.1	GS320A-02
3	1.25	1.22	4.69	1.12	1.19	1.7	GS320A-03



## Eye Hooks With Latch

**GS320C-0075 - 03**

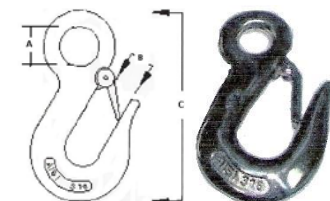
OC3315 Snap Hooks- Galvanized									
Size	WLL	A	B	C	D	E	F	Wt.	Item
7/16	750	0.25	0.75	0.75	0.44	2.25	0.75	0.23	GS3315-007
9/16	1,000	0.34	1.12	0.81	0.56	2.69	0.88	0.48	GS3315-009



## Snap Hooks Galvanized

**GS3315-007 - GS3315-009**

Eye Slip Hook, AISI Stainless Steel 316						
Chain Size	WLL	A	B	C	Wt.-Lbs	Item
1/4"	950	0.52	0.62	3.5	0.5	GSSEH-07
5/16"	1,250	0.64	0.7	4.05	0.55	GSSEH-08
3/8"	2,000	0.72	0.79	4.75	0.92	GSSEH-09
1/2"	3,000	0.93	1.06	6	1.9	GSSEH-13



## Eye Slip Hook AISI SS 316

**GSSEH-07 - 13**

Quality Eye Hooks suitable for small diameter aircraft cable



Snap Hooks- Zinc							
Size	mm	Inch	mm	Inch	Wt.	WLL	Item
5 x 50	50	2.00	5	3/16	0.02	200	GSSH-05
6 x 60	60	2.36	6	1/4	0.06	240	GSSH-06
7 x 70	70	2.75	7	9/32	0.10	360	GSSH-07
8x 80	80	3.16	8	5/16	0.15	460	GSSH-08
10 x 100	100	4.00	10	3/8	0.32	700	GSSH-10
12 x 140	140	5.00	12	1/2	0.60	760	GSSH-12
14 x 180	180	7	14	0.563	0.75	1,120	GSSH-14

## Snap Hooks Zinc

GSSH-05 - 14



Snap Hooks- T304							
Size	mm	Inch	mm	Inch	Wt.	WLL	Item
5 x 50	50	2.00	5	3/16	0.02	200	GSSHS-05
6 x 60	60	2.36	6	1/4	0.06	240	GSSHS-06
7 x 70	70	2.75	7	9/32	0.10	360	GSSHS-07
8x 80	80	3.16	8	5/16	0.15	460	GSSHS-08
10 x 100	100	4.00	10	3/8	0.32	700	GSSHS-10
12 x 140	140	5.00	12	1/2	0.60	1,120	GSSHS-12

## Snap Hooks T304

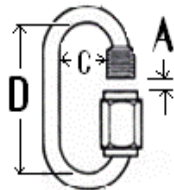
GSSHS-05 - 12



Rapid Links-Quick Link- Zinc						
Size	Weight	A	C	D	WLL	Item
1/8	0.01	0.246	0.394	1.594	330	GSQL-002
3/16	0.03	0.246	0.453	1.900	600	GSQL-003
1/4	0.07	0.315	0.512	2.311	950	GSQL-004
5/16	0.13	0.413	0.650	2.953	1,350	GSQL-005
3/8	0.22	0.433	0.669	3.224	1,715	GSQL-006
7/16	0.24	0.472	0.709	3.543	2,550	GSQL-007
1/2	0.78	0.512	0.807	4.150	2,975	GSQL-008

## Rapid Links Quick Links Zinc

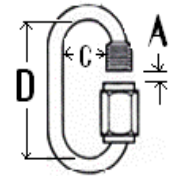
GSQL-002 - 008



Rapid Links-Quick Links- T304						
Size	A	C	D	Wt.	WLL	Item
1/8	0.246	0.394	1.594	0.01	330	GSQLS-002
3/16	0.246	0.453	1.900	0.03	520	GSQLS-003
1/4	0.315	0.512	2.311	0.07	750	GSQLS-004
5/16	0.413	0.650	2.953	0.13	1,525	GSQLS-005
3/8	0.433	0.669	3.224	0.22	1,800	GSQLS-006
1/2	0.512	0.807	4.150	0.78	3,300	GSQLS-008

## Rapid Links Quick Links T304

GSQLS-002 - 008



GS411 LD Galv. Thimble	
Dia.	Item
1/8	GS411-002
3/16	GS411-003
1/4	GS411-004
5/16	GS411-005
3/8	GS411-006



GS411S LD Stainless Thimble	
Dia.	Item
1/16	GS411S-001
1/8	GS411S-002
3/16	GS411S-003



GS414 HD Galv. Thimble	
Dia.	Item
1/4	GS414-004
5/16	GS414-005
3/8	GS414-006



GS414S HD Stainless Thimble	
Dia.	Item
1/4	GS414S-004
5/16	GS414S-005
3/8	GS414S-006



General Duty Hand Winch			
Capacity	Ratio	Description	Item
600		Hand Winch - 600 lb.	DYN-11300
800	3:01	One speed. Two way	DYN-11301
1,200	4:01	One speed. Two way	DYN-11303
1,400	4:01	One speed. Two way	DYN-11304



## General Duty Hand Winch

Solid carbon steel gears. Embossed frame for added strength To be used with steel cable. Baked black enamel painted finish. Supplied with grip handle and cable keeper.

Small Dia. Blocks		
Description	WLL	Item
2-1/2" Fixed Base	550	BLK2008F
2-1/2" Swivel eye	550	BLK2008SW



## Small Diameter Blocks

Available with a swivel eye or as a fixed base, small diameter hardware grade blocks are economical rigging options for light hoisting applications.

Dutton-Lainson Worm Gear Winches							
Winch Description	Rated Capacity	Drum Hub Dia.	Gear Ratio	Handle Length	Max. Mech-Adv.	Maximum Drum Capacity (2)	Model
Handle Drive	1500 lb.	1.5"	1.25	7"	240	1/4 x 43	DL-10950
Handle Drive	2000 lb.	1.5"	40:1	7"	314	9/32 x 49	DL-10970



## Dutton-Lainson Worm Gear Winch

Worm gear winches are ergonomically-friendly options for a wide range of multi-purpose hauling and lifting applications.

- Has a reel that automatically stops turning when cranking is stopped
- Has no freewheel mode or special mechanism that is required to stop gear movement
- Does not require a minimum load for operation

Dutton- Lainson Industrial Winches with Brake							
Rated Cap. (1)	Min. Load Required	Drum Hub Dia.	Gear Ratio	Handle Length	Maximum Mechanical Advantage	Maximum Drum Capacity (3) Cable	Model
1200 lb.	75 lb.	1-1/8"	4:01	12-1/4"	72.9	7/32 x 57	DL-10808
1200 lb.	75 lb.	2-1/2"	4:01	12-1/4"	36.1	7/32 x 46	DL-15801
1500 lb.	150 lb.	1-1/8"	6:01	12-1/4"	106.9	1/4 x 52	DL-10770
1500 lb.	150 lb.	2-1/2"	6:01	12-1/4"	53.5	1/4 x 45	DL-14927
2500 lb.	300 lb.	1-5/16"	12:01	12-1/4"	180.9	5/16 x 51	DL-10786
2500 lb.	300 lb.	2-1/2"	12:01	12-1/4"	104.5	5/16 x 45	DL-15850
2500 lb.	300 lb.	3-1/8"	12:01	12-1/4"	85.5	5/16 x 40	DL-14958
3500 lb.	500 lb.	3-1/8"	18.75:1	12-1/4"	134	3/8 x 28	DL-24844
4000 lb.	--	2-1/2"	41:01:00	--	--	9/32 x 54 (27 per side)	DL-11140



## Dutton-Lainson Brake Winch

Extra heavy duty, long-life brake winch that offers:

- Gear cover for enclosed braking mechanism
- Large reel hub diameter
- Load locking with when handle is released
- Great versatility as grain augers, boat lifts, pickup cranes, and other tough jobs. Lifts and lowers with ease
- Powder coated black reel with zinc TUFFPLATE base and hardware. Handle is included

- For boat lift applications, handle may be replaced by large wheel (supplied by manufacturer)
- Refer to chart for minimum load required by winch to function properly
- Capacity is based on direct line pull on third layer of line on drum. Capacity is reduced as line builds up on drum
- Drum capacity shown is based on cable size listed. Cable not included
- All Dutton-Lainson brake winches are not to be used as hoists for lifting, supporting, or transporting people, or for loads over areas where people could be present



Dutton-Lainson Brake Winches								
Rated Capacity (1)	Min. Load Required	Drum Hub Dia.	Gear Ratio	Handle Length	Maximum Mechanical Advantage	Cable (2)	Strap	Model
350 lb.	50 lb.	1"	3.2:1	7"	38.7	1/8" x84'	15	DL-15940
800 lb.	50 lb.	1-7/8"	4.4:1	7"	29.9	3/16" x68'	27	DL-14914
1200 lb.	50 lb.	2-1/2"	5.4:1	7" Std. 9-3/8" Opt.	27.8 37.2	7/32" x69'	31	DL-14934
1500 lb.	75 lb.	2-1/2"	5.4:1	9-3/8" Std. 12" Opt.	36.8 47.1	1/4" x60'	31	DL-14964
2500 lb.	175 lb.	2-1/2"	17.3:1	9-3/8"	115.3	5/16" x34'	21	DL-15721



## Dutton-Lainson Brake Winches

**Lightweight Personal Use.** Offers safety and rugged construction at a more economical price. Raises and lowers loads with minimal effort, with load locked in place - even when the handle is released. Has a zinc TUFFPLATE finish.

- Note the minimum load level required for winch to operate properly. Handle included.
- Rated capacity based on direct line pull on first layer on drum. Capacity is reduced as line builds up on drum.
- Drum capacity shown is based on cable size listed. (Cable not included).
- All D-L brake winches are built for multipurpose hauling and lifting operations. They are not to be used as hoists for lifting, supporting or transporting people, or for loads over areas where people could be present.

Gripple Anchors			
Size	Series	Length	Item
1/8"	#2	3	GRIP-GA2-3FT-3.0mm
1/8"	#2	5	GRIP-GA2-5FT-3.0mm
1/8"	#3	5	GRIP-GA3-3FT-3.0mm
5/32"	#3	3	GRIP-GA3-3FT-4.0mm
5/32"	#3	5	GRIP-GA3-5FT-4.0mm
5/32"	#4	3	GRIP-GA4-3FT-4.0mm
5/32"	#4	3	GRIP-GA4-3FT-6.0mm
5/32"	#4	5	GRIP-GA4-5FT-4.0mm
1/4"	#4	5	GRIP-GA4-5FT-6.0mm

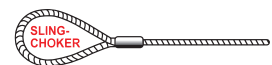
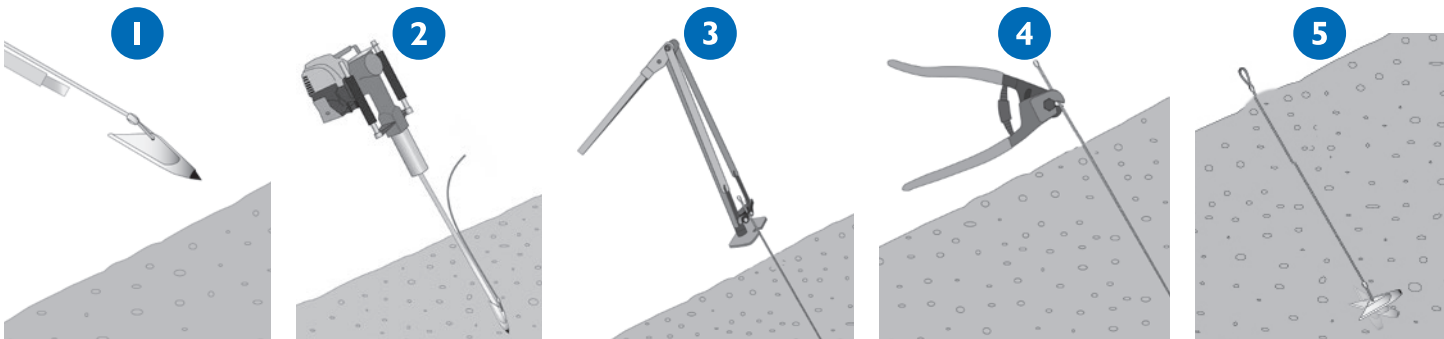
Gripple Anchor Tools	
Description	Item
GA-Drive Tool #2- 4 Ft	GRIP-DR2-4Ft
GA-Drive Tool #2- 6 Ft	GRIP-DR2-4Ft-1/2
GA-Drive Tool #3- 4 Ft	GRIP-DR2-4Ft-3/4
GA-Drive Tool #2- 4 Ft- 1/2	GRIP-DR2-6Ft
GA-Drive Tool #2- 4 Ft- 3/4	GRIP-DR2-6Ft-3/4
GA-Drive Tool #2- 6 Ft	GRIP-DR3-4Ft
GA-Drive Tool #4- 4 Ft	GRIP-DR4-4Ft-3/4



## Gripple Anchors

### Anchor 2, Anchor 3 and Anchor 4

Gripple Anchors are lightweight to carry, easy to install and provide impressive load ratings. With three sizes to choose from, the Gripple Anchor range offers a cost-efficient solution to a variety of anchoring applications and soil types. To install the Anchor, simply hammer in using the drive tool, and the corresponding hardened tool steel tip.



# Treating Wire Rope as a Machine

## Understanding Wires, Strands, and Cores

The greatest difference in wire ropes are found in the strands, which may vary widely in the pattern and number of wires which are laid together.

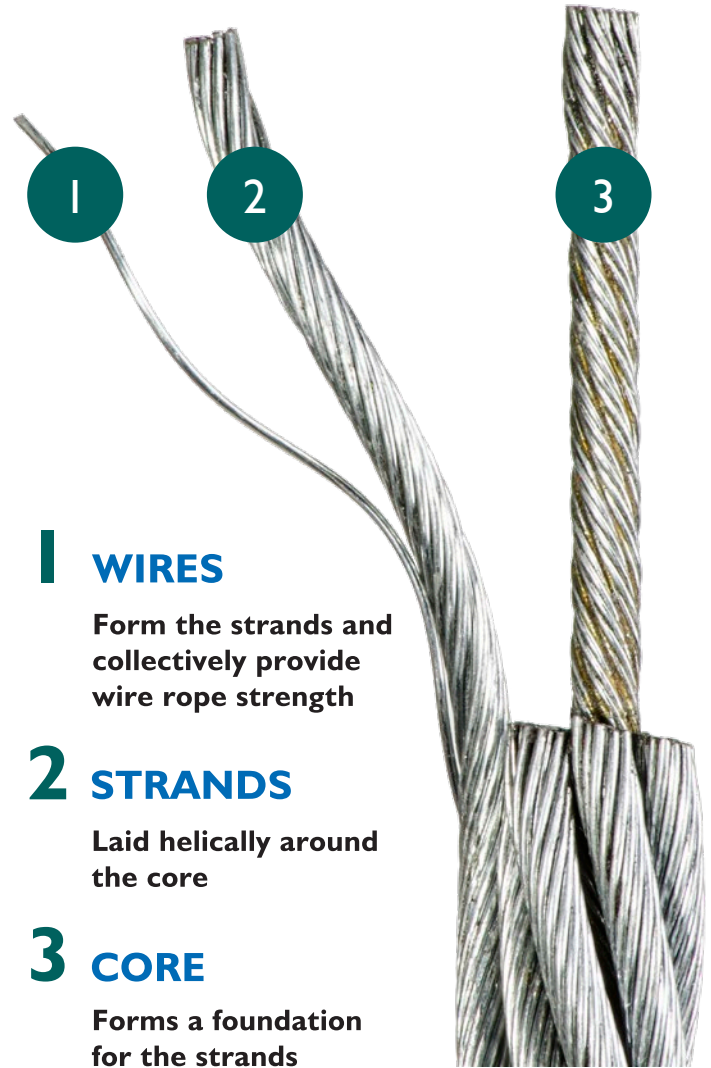
The wires of the rope may be made with various metals, including steel, iron, stainless steel, monel, and bronze. The material of which the wires are made is the primary determinant of rope strength. By far the most widely used metal is high-carbon steel. Many factors influence the selection of wire rope. The strength of the rope, although of major importance, is only one of these factors. It is advisable, therefore, to use only ropes of the correct size, grade, type and construction as specified by either the equipment manufacturer or the rope manufacturer who must base their recommendations on actual working conditions.

Carbon steel wire ropes come in various Grades. The term "Grade" is used to designate the Nominal Strength of the wire rope. The most common rope Grades are Traction Steel (TS), Plow Steel (PS), Improved Plow Steel (IPS), Extra Improved Plow Steel (EIPS), and Extra Extra Improved Plow Steel (EEIPS). The Grade of a wire rope cannot be determined by its feel or appearance. To properly evaluate a rope system, you must obtain the appropriate information from your employer or wire rope supplier.

A wire rope is a machine, by dictionary definition: "An assemblage of parts that transmit forces, motion, and energy to one another in some predetermined manner and to some desired end."

A typical wire rope may contain dozens, or even hundreds, of individual wires which are formed and fabricated to operate at close bearing tolerances to one another. When a wire rope bends, each of its many wires slides and adjusts in the bend to accommodate the difference in length between the inside and the outside of the bend. The sharper the bend, the greater the movement.

The core may be either a Fibre Core (FC) or an Independent Wire Rope Core (IWRC), which is actually a smaller wire rope or a strand similar to the outer strands of the rope. Only an IWRC or strand core contributes strength to the rope, and an IWRC normally provides only 7.5% of the wire rope breaking strength.

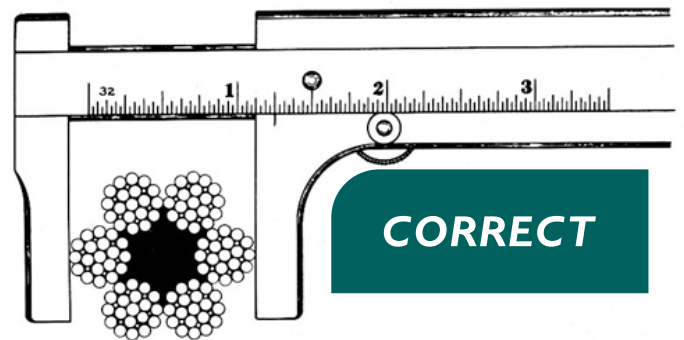
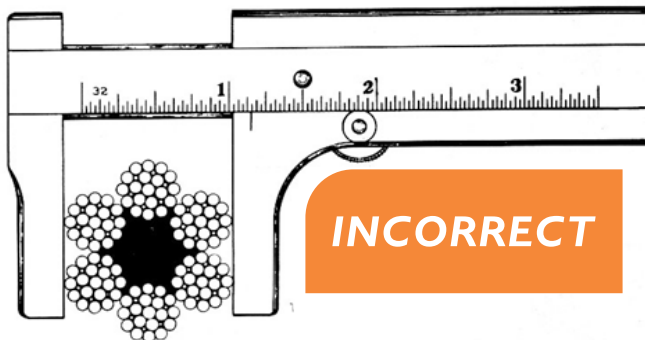


- 1 WIRES**  
Form the strands and collectively provide wire rope strength
- 2 STRANDS**  
Laid helically around the core
- 3 CORE**  
Forms a foundation for the strands

## Diameter Tolerances & Measurement of Wire Rope

The diameter of a 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 crowns of two opposite strands. A measurement across the valleys will result in incorrect, lower readings.

Nominal Rope Diameter		Undersize Tolerance	Oversize Tolerance	
up to 3/4"	up to 19 mm	None	1/32"	0.79 mm
13/16" to 1-1/8"	20.6 mm to 28.6 mm	None	3/64"	1.19 mm
1-3/16" to 1-1/2"	30.0 mm to 38.1 mm	None	1/16"	1.59 mm
1/9/16" to 2-1/4"	39.7 mm to 57.1 mm	None	3/32"	2.38 mm
2-5/16" and up	58.7 mm and up	None	1/8"	3.18 mm



## Rope Strength Design Factors

The rope design factor is the ratio of the rated strength of the rope to its operating stress. If a particular rope has a rated strength of 100,000 lbs and is working under an operating stress of 20,000 lbs, it has a rope strength design factor of 5 which is 1/5 or 20% of its rated strength.







Many codes refer to this factor as the "Safety Factor" which is actually a misleading term, since the ratio obviously does not include the many facets of an operation which must be considered in determining safety. Wire rope is an expendable item — a replacement part of a machine or installation.

For economic and other reasons, some installations require ropes to operate at high stresses (low rope strength design factors). On some installations where high risk is involved, high rope strength design factors must be maintained. However, operating and safety codes exist for most applications and the codes give specific factors for usage.

When a hoist is working and large dynamic loadings (shock load) are imparted to the rope, the rope strength design factor will be reduced which could result in overstressing of the rope.

## Wire Rope Lays - Direction of Rotation

The length of lay of the strands in wire ropes (the complete revolution of one strand around the rope axis) will have considerable impact on the rope's performance and characteristics. While an increase in lay length will reduce the amount of stretch in a rope, a shorter lay length should be chosen for flexibility and where shock-loading could be the primary cause of wire rope failure.

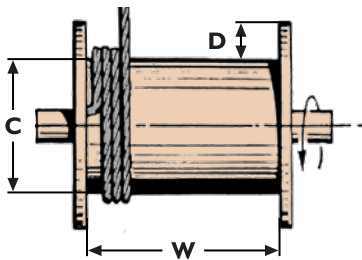
REGULAR		LANG'S		ALTERNATING	
Right	Left	Right	Left	Right	Left
					
Wires in strands are laid in the opposite direction of the strands and are parallel to the rope axis. Ropes with regular lay are easy to handle and have greater resistance to crushing than those with lang lay.		Wires are laid in the same direction as the strands of the rope, and at an angle to the rope axis. Longer lengths of individual wires are exposed, creating greater resistance to wear and improved flexibility.		Alternating regular lay and lang's lay strands, providing versatility by combining the characteristics of both lay types.	

## Handling & Reel Capacity

$$(C+D) \times D \times W \times \text{Factor}$$

equals

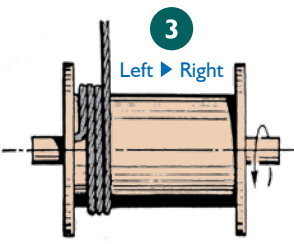
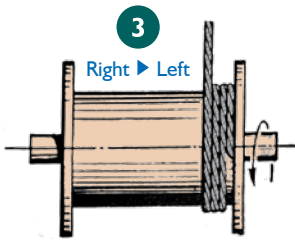
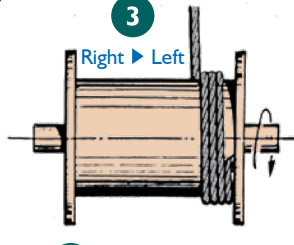
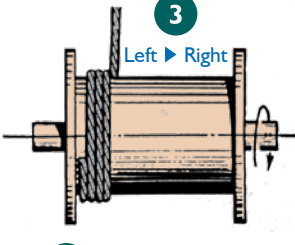
Maximum length (feet) of steel wire rope a drum will hold under normal tension and uniform winding conditions

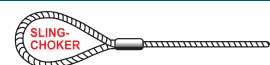


Factor	1/4"	3/8"	1/2"	5/8"
	4.18	1.86	1.05	0.671
based on wire rope diameter	5/16"	7/16"	9/16"	3/4"
	2.67	1.37	0.828	0.465
	7/8"	1-1/8"	1-3/8"	1-5/8"
	0.342	0.207	0.138	0.099
	1"	1-1/4"	1-1/2"	1-3/4"
	0.262	0.167	0.116	0.085
				2"
				0.066

## Rope Strength Design Factors

For proper spooling or winding of wire rope on flat or smooth-faced drums, 3 factors must be considered: 1 The lay of the rope. 2 Whether to overwind or underwind onto the reel. 3 The lateral direction of the first layer.

	Right Hand Lay	Left Hand Lay
<b>OVERWIND</b>		
<b>UNDERWIND</b>		





# Installation and Handling Recommendations

## Installation

The initial installation of the rope to your equipment is most important. High performance wire ropes can be damaged from induced twist through incorrect installation.

We recommend, prior to installation of the rope, an initial clean down of the drum surface followed with a subsequent application of a light film spray of lubricant. This will assist with an even tension being maintained to the first layer of rope on the drum.

A slippery surface will allow initial slippage the rope over the drum surface assisting with the application of even rope tension to the rope/drum tension point.

Inspect sheaves for damage, wear or mechanical issues. Sheaves in poor condition can damage the wire rope.

## Over Wound Drum

If installing onto the top of your machinery drum, the rope must be reeled from the top of the reel under constant maintained tension (top to top).

## Under Wound Drum

If installing onto the bottom of your drum, the rope must be reeled from the bottom of the reel with a constant maintained tension. The rope should not be allowed to uncoil with loose wraps on the reel (bottom to bottom).

## Fleet Angle

Twist will be induced into the reeving system should you set up the new rope reel to be installed too close to the crane point sheave or the rope drum.

If the reel is 4 feet wide you must set it back a minimum of 80 feet.

If the reel is 3 feet wide the reel must be set back a minimum of 60 feet. Further setback is more beneficial.

If setting up closer than noted above, you will induce twist into your system and may induce twist at the drum or hook block.

To install closer than stated above will cause a greater than 1° to 1.5° fleet angle, which can induce excessive twist or rotation into the rope.

Please be aware of the importance of correct alignment of the reel to sheave or drum from installation purposes. High performance rotation-resistant ropes are susceptible to problems of twist induced at installation.

## Cutting

All spin-resistant and non-rotating cables must be seized and secured to ensure that the rope does not get out of balance.

Please refer to the manufacturer for proper cutting instructions

## Tensioning

Do not install the rope directly to the drum without tension being applied.

For tensioning, we recommend 1% to 1.5% of the minimum breaking strength of the rope.

## Reeving

When connecting your new rope to the old for installation purposes, do not weld or clamp directly the new to the old rope, otherwise you risk the possible transfer of twist or built-up spin in the old rope to the new rope.

## Handling

These rotation resistant ropes are non-preformed products, meaning the rope can unwind or can cause loosening of the outer and inner wires if the weld/seizing on either end of the rope is released.

The ends must always remain welded/seized while in service. Should the rope need to be shortened, a suitable seizing can be applied to either side of the area to be cut. After cutting, the end of the rope must be re-welded to restrict movement of the wires.

A suitable seizing is one long wire of 3-4 rope diameters on either side of the area to be cut, or 3 separate seizings each of 1 rope diameter in length.

Good quality screw-adjustable radiator hose clamps can also be utilized with suitable tension being applied. We suggest a minimum of 3 clamps on either side of the cut.

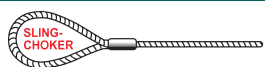
Cutting should be by means of a friction wheel—not flame cut. The weld on the end of the rope should be made to form a point and not increase the rope diameter - otherwise a problem at the termination point may result.

## Breaking in the Rope

Once installed, implement a couple of light lifting motions to allow the rope to settle and adjust before heavy load lifting.

**Don't see what you need?  
We can find a solution.**

We are continuously expanding our product offerings to provide you with more choices in your purchasing decision. Contact us today to find out how much we've expanded our product offerings to ensure we can be your preferred industrial product distributors.



# Seizing Ropes and Strands

## General Ropes

In all cases, the seizings must be applied according to the specifications indicated the table on this page. It is very important to use the materials specified for seizing (tape or steel wire).

In all cases the seizings must be applied on each side of the section rope/strand to be cut. The seizings must be tight in order to properly hold the wires and strands during the cutting of the rope/strand and during its handling.

**ATTENTION: THE SEIZINGS MUST BE APPLIED IN THE SAME DIRECTION AS THE LAY OF THE ROPE OR STRAND.**

## Special Ropes

The seizing practices for the full lock, half lock, and the non-rotating ropes imply the following specifics:

### Full And Half Lock Ropes

In addition to the steel wire seizing used for full lock or half lock ropes, a lead brazing 50/50 (lead/pewter) must be applied using a heating iron in order to melt the lead on the entire length of the seizing (see photo 1).

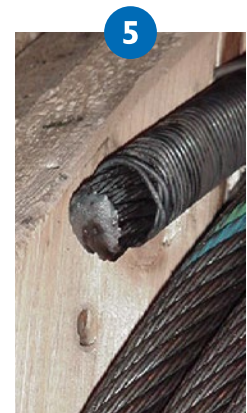
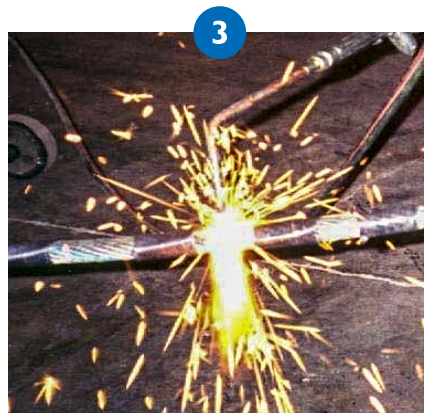
### Non-Rotating Ropes

All non-rotating ropes of the construction 18X7, 18X19, 19X7, 19X19 and Surelift 35 must be cut as follows:

- 1) All seizings must be done following the specifications found on the seizing chart (see table adjacent) prior to cutting.
- 2) Cut between the 4 seizings (see photo 2) using acetylene torch (see photo 3) until complete fusion occurs between all wires and strands (see photo 4).
- 3) Reheat both ends and smooth out all sharp edges until a smooth rounded surface is obtained (see photo 5).

For all full lock and half lock ropes including all non-rotating ropes (18X7, 18X19, 19X7, 19X19, 34X7, 34X19 and CP40), a seizing warning tag must be attached on the rope, on top of the reel and one must also be attached on the side of the reel.

Seizing Specification Ligature				
Material	Qty	Length	Spacing	Seizing Type
General Purpose Rope	1	2 x dia	-	Rope: up to 1 1/4"
				Tape Rope: 1 5/16" & up
				Steel Wire: 0.040" to 0.080"
Non-Preformed Rope	2	2 x dia	2 x dia	Galvanized Steel Wire: 0.040" to 0.080"
Non-Spin Rope (18x7, 18x19, 19x7, 19x19, CP40)	2	3 x dia	3 x dia	*Galvanized Steel Wire: 0.040" to 0.080"
Balance Rope (34x7, 34x19)	3	3 x dia	3 x dia	Galvanized Steel Wire: 0.040" to 0.080"
Flat Strand Rope	2	3 x dia	3 x dia	Galvanized Steel Wire: 0.060" to 0.080"
Full Lock Coil	5	30 x dia	5'	Galvanized Wire with Lead Soldering: 0.064"
Half Lock Coil	3	24"	24"	Galvanized Wire with Lead Soldering: 0.064"
Structural Strand	3	4 x dia	4 x dia	Galvanized Steel Wire: 0.040" to 0.080"
Guy Strand	1	3 x dia	-	Tape: (1x7)
				Galvanized Wire (1x19): 0.060" to 0.080"
Preformed Elevator Rope	2	3 x dia	3 x dia	Galvanized Steel Wire or Tape: 0.060" to 0.080"
Non-Preformed Elevator Rope	3	3 x dia	3 x dia	Galvanized Steel Wire or Tape: 0.060" to 0.080"





# ProSLING

ProSLING, a Sling-Choker brand, is our product line dedicated to sling applications. Containing a wide array of slings for any use, including web, round, wire rope, chain, braided slings, & wire rope bridles, ProSLING has sling accessories for any job need, as well as supreme support through our RFID tracking system, PROTrak.

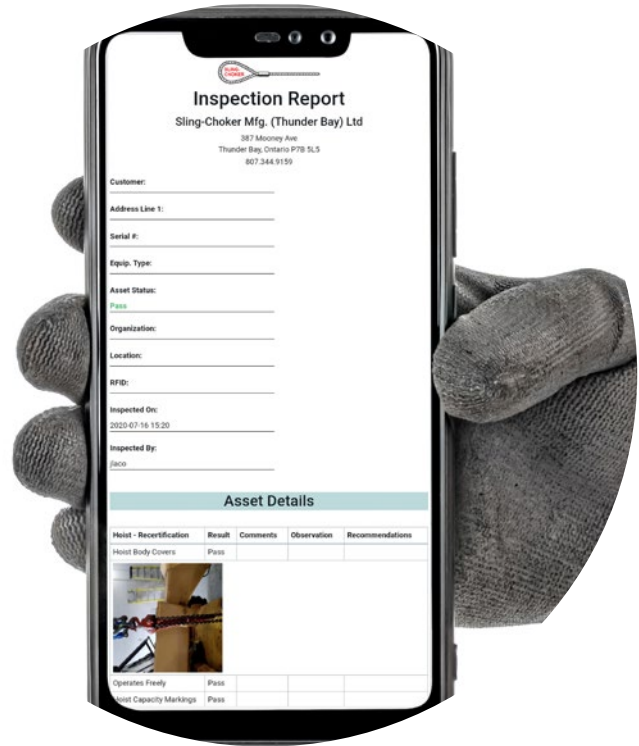
# PROTrak

radio frequency identification

Keep your inspection history at your fingertips with PROTrak

- Proof test results, completed on our powerful in-house beds
- Inspection & testing notifications are available via email
- Store all certifications and specifications in one place
- Easily accessible records for review or audit purposes

- Digital reports, generated automatically, accessible 24/7
- Comprehensive database records & categorization of inventories



Contact us today for more information or a trial inspection!

### AN RFID TAG FOR EVERY APPLICATION

**1** Plastic fobs are an alternative to cinch cables when there is less room

**2** Adhesive discs for tough hardware, like clamps, chain hoists, and pumps

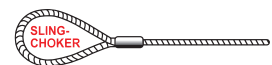
**3** Compact buttons are sewn into sling tags and other data material

**4** Cinch cables are affixed externally to chain slings and other products

RFID Tags	Description
(1)	RFID-FOB
(2)	RFID-ADH
(3)	RFID-BUT
(4)	RFID-ADC

### Sling-Choker Manufacturing More Than You Think
















Our thing is rigging - with experience to be proud of, but we're experts at more than you think. For 40 years, we've developed product lines that specifically serving niche industries - becoming a go-to distributor for many. From pumps to safety gear to warehouse outfitting, we can get what you need.



# SLING CHARTS

**SLING-CHOKER**  
MANUFACTURING

We're called **Sling-Choker** for a reason - rigging is what we do best. For over 40 years, we've been the **primary** source for slings for many industrial sectors, offering products in all shapes, sizes, materials, and for any application you can think of. **Rigging** is our thing, and we're confident that we can provide you with the perfect solution every time. We have the **experience** and the ability to get you what you need.

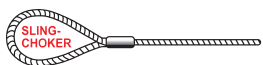
	WIRE ROPE	VERTICAL LIFT	CHOKER HITCH	BASKET HITCH	60° BRIDLE	45° BRIDLE	30° BRIDLE
	DIA (in)	WLL (lbs)	WLL (lbs)	WLL (lbs)	WLL (lbs)	WLL (lbs)	WLL (lbs)
	1/4"	1,300	960	2,600	2,252	1,838	1,300
	3/8"	2,800	2,200	5,600	4,850	3,960	2,800
	1/2"	5,000	3,800	10,000	8,660	7,071	5,000
	5/8"	7,800	5,800	15,600	13,510	11,031	7,800
	3/4"	11,200	8,200	22,400	19,399	15,839	11,200
	7/8"	15,200	11,200	30,400	26,327	21,496	15,200
	1"	19,600	14,400	39,200	33,948	27,719	19,600
	1-1/8"	24,000	18,200	48,000	41,569	33,941	24,000
	1-1/4"	30,000	22,000	60,000	51,962	42,426	30,000
	1-3/8"	36,000	26,000	72,000	62,354	50,912	36,000
	1-1/2"	42,000	32,000	84,000	72,746	59,397	42,000
	1-5/8"	48,000	36,000	96,000	83,138	67,882	48,000
	1-3/4"	56,000	42,000	112,000	96,995	79,196	56,000
	2"	74,000	56,000	148,000	128,172	104,652	74,000
	2-1/2"	108,000	84,000	216,000	187,061	152,735	108,000

DO NOT EXCEED  
WORKING LOAD LIMITS

 7x19 Galvanized Aircraft Cable

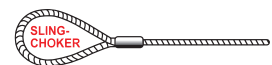
 6x19 EIPS IWRC

 6x37 EIPS IWRC



# Pro-Sling Wire Rope Slings (Flemish Rolled Eyes)

		WIRE ROPE DIAMETER					
		1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
SLING LENGTH	ADD						
	2'	PS004X002	PS005X002	PS006X002			
	3'	PS004X003	PS005X003	PS006X003	PS008X003	PS010X003	PS012X003
	4'	PS004X004	PS005X004	PS006X004	PS008X004	PS010X004	PS012X004
	5'	PS004X005	PS005X005	PS006X005	PS008X005	PS010X005	PS012X005
	6'	PS004X006	PS005X006	PS006X006	PS008X006	PS010X006	PS012X006
	7'	PS004X007	PS005X007	PS006X007	PS008X007	PS010X007	PS012X007
	8'	PS004X008	PS005X008	PS006X008	PS008X008	PS010X008	PS012X008
	9'	PS004X009	PS005X009	PS006X009	PS008X009	PS010X009	PS012X009
	10'	PS004X010	PS005X010	PS006X010	PS008X010	PS010X010	PS012X010
	11'	PS004X011	PS005X011	PS006X011	PS008X011	PS010X011	PS012X011
	12'	PS004X012	PS005X012	PS006X012	PS008X012	PS010X012	PS012X012
	13'	PS004X013	PS005X013	PS006X013	PS008X013	PS010X013	PS012X013
	14'	PS004X014	PS005X014	PS006X014	PS008X014	PS010X014	PS012X014
	15'	PS004X015	PS005X015	PS006X015	PS008X015	PS010X015	PS012X015
	16'	PS004X016	PS005X016	PS006X016	PS008X016	PS010X016	PS012X016
	17'	PS004X017	PS005X017	PS006X017	PS008X017	PS010X017	PS012X017
	18'	PS004X018	PS005X018	PS006X018	PS008X018	PS010X018	PS012X018
	19'	PS004X019	PS005X019	PS006X019	PS008X019	PS010X019	PS012X019
	20'	PS004X020	PS005X020	PS006X020	PS008X020	PS010X020	PS012X020

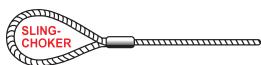


# Pro-Sling Wire Rope Slings (Flemish Rolled Eyes)

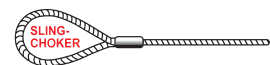
		WIRE ROPE DIAMETER				
		7/8"	1"	1-1/8"	1-1/4"	1-1/4"
SLING LENGTH	ADD					
	2'					
	3'					
	4'	PSD014X004	PSD100X004			
	5'	PSD014X005	PSD100X005	PSD102X005	PSD104X005	PSD108X005
	6'	PSD014X006	PSD100X006	PSD102X006	PSD104X006	PSD108X006
	7'	PSD014X007	PSD100X007	PSD102X007	PSD104X007	PSD108X007
	8'	PSD014X008	PSD100X008	PSD102X008	PSD104X008	PSD108X008
	9'	PSD014X009	PSD100X009	PSD102X009	PSD104X009	PSD108X009
	10'	PSD014X010	PSD100X010	PSD102X010	PSD104X010	PSD108X010
	11'	PSD014X011	PSD100X011	PSD102X011	PSD104X011	PSD108X011
	12'	PSD014X012	PSD100X012	PSD102X012	PSD104X012	PSD108X012
	13'	PSD014X013	PSD100X013	PSD102X013	PSD104X013	PSD108X013
	14'	PSD014X014	PSD100X014	PSD102X014	PSD104X014	PSD108X014
	15'	PSD014X015	PSD100X015	PSD102X015	PSD104X015	PSD108X015
	16'	PSD014X016	PSD100X016	PSD102X016	PSD104X016	PSD108X016
	17'	PSD014X017	PSD100X017	PSD102X017	PSD104X017	PSD108X017
	18'	PSD014X018	PSD100X018	PSD102X018	PSD104X018	PSD108X018
	19'	PSD014X019	PSD100X019	PSD102X019	PSD104X019	PSD108X019
	20'	PSD014X020	PSD100X020	PSD102X020	PSD104X020	PSD108X020

All slings are manufactured in accordance with ASME B30.9.

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	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"
<b>THIMBLE</b> 	7/8" x 1-5/8" GS414-004	1-1/16" x 1-7/8" GS414-005	1-1/8" x 2-1/8" GS414-006	1-1/2" x 2-3/4" GS414-008	1-3/4" x 3-1/4" GS414-010	2" x 3-3/4" GS414-012	2-1/4" x 4-1/4" GS414-014	2-1/2" x 4-1/2" GS414-100	2-7/8" x 5-1/8" GS414-102	2-7/8" x 5-1/8" GS414-104
<b>EYE HOOK</b> 	1t CR320A-01	1t CR320A-01	1.5t CR320A-015	3t CR320A-03	5t CR320A-05	7t CR320A-07	11t CR320A-11	11t CR320A-11	15t CR320A-15	15t CR320A-15
<b>SLIDING CHOKER HOOK</b> 	3/8" CR350L-006	3/8" CR350L-006	3/8" CR350L-006	1/2" CR350L-008-002	5/8" CR350L-010-003	3/4" CR350L-012-004	7/8" to 1" CR350L-014-100	7/8" to 1" CR350L-014-100		
<b>MASTER LINK</b> 	1/2" GC-M-14	1/2" GC-M-14	1/2" GC-M-17	3/4" GC-M-19	7/8" GC-M-22	7/8" GC-M-22	1" GC-M-28	1-1/4" GC-M-30	1-1/2" GC-M-34	1-1/2" GC-M-38
<b>SHURLOK EYE HOOK</b> 	6mm CRI316-06	6mm CRI316-06	7-8mm CRI316-08	10mm CRI316-10	13mm CRI316-13	13mm CRI316-13	16mm CRI316-16	18-20mm CRI316-18	22mm CRI316-22	22mm CRI316-22
<b>SHACKLES SCREW PIN &amp; BOLT TYPE</b> 	5/16" CRG209-005 CRG2130-005	3/8" CRG209-006 CRG2130-006	1/2" CRG209-008 CRG2130-008	5/8" CRG209-010 CRG2130-010	3/4" CRG209-012 CRG2130-012	7/8" CRG209-014 CRG2130-014	1" CRG209-100 CRG2130-100	1-1/8" CRG209-102 CRG2130-102	1-1/4" CRG209-104 CRG2130-104	1-1/2" CRG209-108 CRG2130-108
<b>SWIVEL EYE HOOK</b> 	1t CR322A-01 GC-LKNK-07	1t CR322A-01 GC-LKNK-07	1.5t CR322A-015 GC-LKNK-07	3t CR322A-03 GC-LKNK-10	5t CR322A-05 GC-LKNK-13	7t CR322A-07 GC-LKNK-16	11t CR322A-11	11t CR322A-11	15t CR322A-15	15t CR322A-15
<b>SWIVEL EYE HOOK SELF LOCKING</b> 	1t CRI3326-06 GQ-LKKBK-07/8	1t CRI3326-06 GQ-LKKBK-07/8	1.5t CRI3326-08 GQ-LKKBK-07/8	3t CRI3326-10 GQ-LKKBK-10	5t CRI3326-13 GQ-LKKBK-13	7t CRI3326-16 GQ-LKKBK-16				





2 Leg Bridle Specifications								
Size	Min Length	WLL @60°	WLL @45°	WLL @30°	Master Link	Carbon Eye Hook	Alloy Eye Hook	ShurLoc
1/4"	3	2,252	1,838	1,300	1/2"	3/4	1	6.0mm
5/16"	3	3,464	2,828	2,000	1/2"	1	1	6.0mm
3/8"	3	4,850	3,960	2,800	3/4"	1-1/2	1-1/2	7-8mm
1/2"	3	8,660	7,071	5,000	3/4"	3	3	10.0mm
5/8"	3	13,510	11,031	7,800	1"	5	4-1/2	13.0mm
3/4"	4	19,399	15,839	11,200	1"	7-1/2	7	13.0mm
7/8"	4	26,327	21,496	15,200	1-1/4"	10	11	16.0mm
1"	5	33,948	27,719	19,600	1-1/2"	10	11	18-20mm
1-1/8"	5	41,569	33,941	24,000	1-1/2"	15	15	22.0mm
1-1/4"	6	51,962	42,426	30,000	1-3/4"	20	22	

1/4 & 5/16" = 7x19 Galv. | 1/2" thru 3/4" = Import 6x26 | 7/8" and Larger+ Domestic 6x36 IWRC



### 2 Legged Bridles

Flemish Rolled Eyes		Thimble Eye		Thimble Eye Alloy Hook		Thimble Eye ShurLoc	
Size	Item	Size	Item	Size	Item	Size	Item
1/4"	BR2004X003	1/4"	BR2004X003T	1/4"	BR2004X003TAH	1/4"	BR2004X003TSL
5/16"	BR2005X003	5/16"	BR2005X003T	5/16"	BR2005X003TAH	5/16"	BR2005X003TSL
3/8"	BR2006X003	3/8"	BR2006X003T	3/8"	BR2006X003TAH	3/8"	BR2006X003TSL
1/2"	BR2008X003	1/2"	BR2008X003T	1/2"	BR2008X003TAH	1/2"	BR2008X003TSL
5/8"	BR2010X003	5/8"	BR2010X003T	5/8"	BR2010X003TAH	5/8"	BR2010X003TSL
3/4"	BR2012X004	3/4"	BR2012X004T	3/4"	BR2012X004TAH	3/4"	BR2012X004TSL
7/8"	BR2014X004	7/8"	BR2014X004T	7/8"	BR2014X004TAH	7/8"	BR2014X004TSL
1"	BR2100X005	1"	BR2100X004T	1"	BR2100X004TAH	1"	BR2100X004TSL
1-1/8"	BR2102X005	1-1/8"	BR2102X005T	1-1/8"	BR2102X005TAH	1-1/8"	BR2102X005TSL
1-1/4"	BR2104X006	1-1/4"	BR2104X006T	1-1/4"	BR2104X006TAH		

All slings are manufactured in accordance with ASME B30.9.



3 Leg Bridle Specifications								
Size	Min Length	WLL @60°	WLL @45°	WLL @30°	Master Link	Carbon Eye Hook	Alloy Eye Hook	ShurLoc
1/4"	3	3,400	2,800	1,940	1/2"	3/4	1	6.0mm
5/16"	3	5,200	4,200	3,000	3/4"	1	1	6.0mm
3/8"	3	7,400	6,000	4,400	3/4"	1-1/2	1-1/2	7-8mm
1/2"	3	13,200	10,800	7,600	1"	3	3	10.0mm
5/8"	3	20,000	16,600	11,800	1"	5	4-1/2	13.0mm
3/4"	4	30,000	24,000	16,800	1-1/4"	7-1/2	7	13.0mm
7/8"	4	40,000	32,000	22,000	1-1/2"	10	11	16.0mm
1"	5	52,000	42,000	30,000	1-3/4"	10	11	18-20mm
1-1/8"	5	62,000	52,000	36,000	1-3/4"	15	15	22.0mm
1-1/4"	6	76,000	62,000	44,000	2"	20	22	

1/4 & 5/16" = 7x19 Galv. | 1/2" thru 3/4" = Import 6x26 | 7/8" and Larger+ Domestic 6x36 IWRC

It is wrong to assume that a three or four leg bridle will have a capacity directly based on the number of legs unless each leg is exactly equal in length, equally sharing the load and equally spaced around the centre of gravity. The above values are based on these criteria.



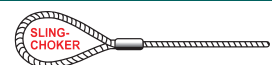
### 3 Legged Bridles

Flemish Rolled Eyes	
Size	Item
1/4"	BR3004X003
5/16"	BR3005X003
3/8"	BR3006X003
1/2"	BR3008X003
5/8"	BR3010X003
3/4"	BR3012X004
7/8"	BR3014X004
1"	BR3100X005
1-1/8"	BR3102X005
1-1/4"	BR3104X006

Thimble Eye	
Size	Item
1/4"	BR3004X003T
5/16"	BR3005X003T
3/8"	BR3006X003T
1/2"	BR3008X003T
5/8"	BR3010X003T
3/4"	BR3012X004T
7/8"	BR3014X004T
1"	BR3100X004T
1-1/8"	BR3102X005T
1-1/4"	BR3104X006T

Thimble Eye Alloy Hook	
Size	Item
1/4"	BR3004X003TAH
5/16"	BR3006X003TAH
3/8"	BR3005X003TAH
1/2"	BR3008X003TAH
5/8"	BR3010X003TAH
3/4"	BR3012X004TAH
7/8"	BR3014X004TAH
1"	BR3100X004TAH
1-1/8"	BR3102X005TAH
1-1/4"	BR3104X006TAH

Thimble Eye ShurLoc	
Size	Item
1/4"	BR3004X003TSL
5/16"	BR3006X003TSL
3/8"	BR3005X003TSL
1/2"	BR3008X003TSL
5/8"	BR3010X003TSL
3/4"	BR3012X004TSL
7/8"	BR3014X004TSL
1"	BR3100X004TSL
1-1/8"	BR3102X005TSL



4 Leg Bridle Specifications								
Size	Min Length	WLL @60°	WLL @45°	WLL @30°	Sub Master	Carbon Eye Hook	Alloy Eye Hook	ShurLoc
1/4"	3	4,400	3,600	2,600	3/4"	3/4	1	6.0mm
5/16"	3	7,000	5,600	4,000	3/4"	1	1	6.0mm
3/8"	3	10,000	8,200	5,800	1"	1-1/2	1-1/2	7-8mm
1/2"	3	17,600	14,200	10,200	1"	3	3	10.0mm
5/8"	3	28,000	22,000	15,600	1-1/4"	5	4-1/2	13.0mm
3/4"	4	38,000	32,000	22,000	1-1/4"	7-1/2	7	13.0mm
7/8"	4	52,000	42,000	30,000	2"	10	11	16.0mm
1"	5	68,000	56,000	40,000	2"	10	11	18-20mm
1-1/8"	5	84,000	68,000	48,000	2"	15	15	22.0mm
1-1/4"	6	102,000	84,000	60,000	2-1/4"	20	22	

1/4 & 5/16" = 7x19 Galv. | 1/2" thru 3/4" = Import 6x26 | 7/8" and Larger+ Domestic 6x36 IWRC

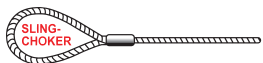
It is wrong to assume that a three or four leg bridle will have a capacity directly based on the number of legs unless each leg is exactly equal in length, equally sharing the load and equally spaced around the centre of gravity. The above values are based on these criteria.



### 4 Legged Bridles

Flemish Rolled Eyes		Thimble Eye		Thimble Eye Alloy Hook		Thimble Eye ShurLoc	
Size	Item	Size	Item	Size	Item	Size	Item
1/4"	BR4004X003	1/4"	BR4004X003T	1/4"	BR4004X003TAH	1/4"	BR4004X003TSL
5/16"	BR4005X003	5/16"	BR4005X003T	5/16"	BR4005X003TAH	5/16"	BR4005X003TSL
3/8"	BR4006X003	3/8"	BR4006X003T	3/8"	BR4006X003TAH	3/8"	BR4006X003TSL
1/2"	BR4008X003	1/2"	BR4008X003T	1/2"	BR4008X003TAH	1/2"	BR4008X003TSL
5/8"	BR4010X003	5/8"	BR4010X003T	5/8"	BR4010X003TAH	5/8"	BR4010X003TSL
3/4"	BR4012X004	3/4"	BR4012X004T	3/4"	BR4012X004TAH	3/4"	BR4012X004TSL
7/8"	BR4014X004	7/8"	BR4014X004T	7/8"	BR4014X004TAH	7/8"	BR4014X004TSL
1"	BR4100X005	1"	BR4100X004T	1"	BR4100X004TAH	1"	BR4100X004TSL
1-1/8"	BR4102X005	1-1/8"	BR4102X005T	1-1/8"	BR4102X005TAH	1-1/8"	BR4102X005TSL
1-1/4"	BR4104X006	1-1/4"	BR4104X006T	1-1/4"	BR4104X006TAH		

All slings are manufactured in accordance with ASME B30.9.



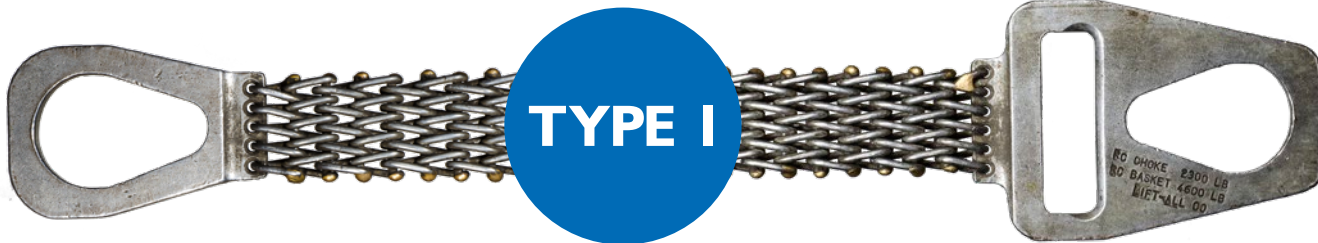
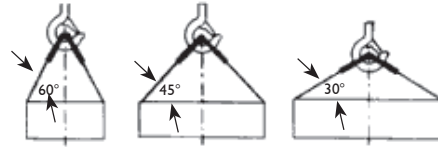
G-35 HD Carbon Steel Mesh WLL- lbs ( 5:1)						
Width	D Inch	Choker (1)	90° Basket	60°	45°	30°
2	1.75	2,300	4,600	3,984	3,253	2,300
3	2.5	3,500	7,000	6,062	4,950	3,500
4	2.5	4,800	9,600	8,314	6,788	4,800
6	2.75	7,200	14,400	12,470	10,182	7,200
8	4	9,600	19,200	16,627	13,576	9,600
10	3.5	12,000	24,000	20,784	16,970	12,000
12	3.5	14,400	28,800	24,941	20,364	14,400

## Wire Mesh Slings

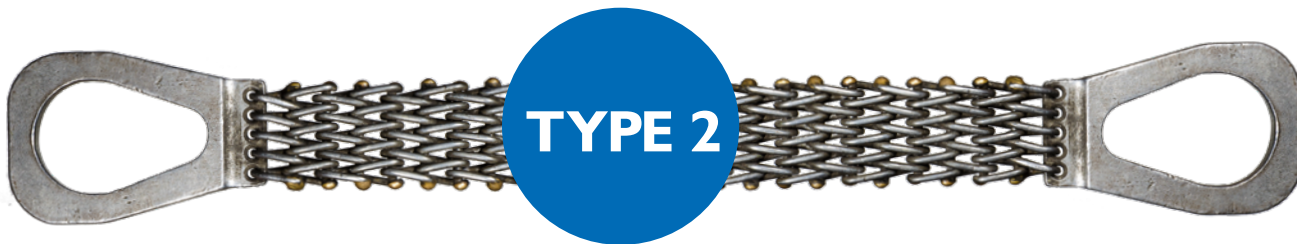
**GWM T102 - T112**      **GWM T202 - T212**

Excellent for abrasive and sharp edge loads, these slings offer long service life and are most resistant to rough treatment.

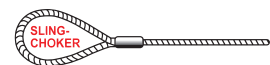
### Horizontal Angle Basket Hitch



Mesh Slings T1. (5:1) G-35 HD Carbon Steel Mesh							
Sling Width	D Inch	Choker	90° Basket	60° Basket	45° Basket	30° Basket	3' Item
2	1 3/4	2,300	4,600	3,984	3,253	2,300	GWM-T102
3	2 1/2	3,500	7,000	6,062	4,950	3,500	GWM-T103
4	2 1/2	4,800	9,600	8,314	6,788	4,800	GWM-T104
6	2 3/4	7,200	14,400	12,470	10,182	7,200	GWM-T106
8	4	9,600	19,200	16,627	13,576	9,600	GWM-T108
10	3 1/2	12,000	24,000	20,784	16,970	12,000	GWM-T110
12	3 1/2	14,400	28,800	24,941	20,364	14,400	GWM-T112



Mesh Slings T2. (5:1) G-35 HD Carbon Steel Mesh							
Sling Width	D Inch	Choker	90° Basket	60° Basket	45° Basket	30° Basket	3' Item
2	1 3/4	2,300	4,600	3,984	3,253	2,300	GWM-T202
3	2 1/2	3,500	7,000	6,062	4,950	3,500	GWM-T203
4	2 1/2	4,800	9,600	8,314	6,788	4,800	GWM-T204
6	2 3/4	7,200	14,400	12,470	10,182	7,200	GWM-T206
8	4	9,600	19,200	16,627	13,576	9,600	GWM-T208
10	3 1/2	12,000	24,000	20,784	16,970	12,000	GWM-T210
12	3 1/2	14,400	28,800	24,941	20,364	14,400	GWM-T212



### Cable Laid Wire Slings

**ULTRA-FLEXIBLE CABLE-LAID SLINGS** Cable-Laid Slings are fabricated from rope consisting of galvanized aircraft cables. This results in a rope that is extremely flexible as well as corrosion resistant.

	1/4"	3/8"	1/2"	5/8"	3/4"
Vertical	1,000	2,200	3,800	5,600	8,200
Choker	680	1,620	2,800	4,200	6,000
Basket	2,000	4,400	7,600	11,200	16,400
Eye Size	2x4"	3x6"	4x8"	5x10"	6x12"
Min Leg	1.5'	2'	2.5'	3'	3.5'

1-1/2'	PSCL-004X015				
2	PSCL-004X02	PSCL-006X02	PSCL-008X025		
3	PSCL-004X03	PSCL-006X03	PSCL-008X03	PSCL-010X03	PSCL-012X03
4	PSCL-004X04	PSCL-006X04	PSCL-008X04	PSCL-010X04	PSCL-012X04
6	PSCL-004X06	PSCL-006X06	PSCL-008X06	PSCL-010X06	PSCL-012X06
8	PSCL-004X08	PSCL-006X08	PSCL-008X08	PSCL-010X08	PSCL-012X08
10	PSCL-004X10	PSCL-006X10	PSCL-008X10	PSCL-010X10	PSCL-012X10

As defined by ASME B30.9

Rated Loads Based on Minimum of 10:1 d/d Ratio

Rated load based on pin diameter not larger than natural eye or less than the nominal sling diameter

### Cable-Laid Wire Rope Slings

#### PSCL-004X015 - 012X10

**ULTRA-FLEXIBLE CABLE-LAID SLINGS** Cable-Laid Slings are fabricated from rope consisting of galvanized aircraft cables. This results in a rope that is extremely flexible as well as corrosion resistant. There are up to 343 small wires closed into these finished wire rope slings, resulting in an Ultra-Flexible product.

As defined by ASME B30.9. Rated Loads Based on Minimum of 10:1 d/d Ratio. Rated load based on pin diameter not larger than natural eye or less than the



### Pro-Flex Mechanical Braided Wire Rope Slings

	2	3	4	5	6	8	10	12	Adder
1/2"	PF008X02	PF008X03	PF008X04	PF008X05	PF008X06	PF008X08	PF008X10	PF008X12	PF008-ADD
5/8"	PF010X02.3	PF010X03	PF010X04	PF010X05	PF010X06	PF010X08	PF010X10	PF010X12	PF010-ADD
3/4"	PF012X02.8	PF012X03	PF012X04	PF012X05	PF012X06	PF012X08	PF012X10	PF012X12	PF012-ADD
7/8"		PF014X03.2	PF014X04	PF014X05	PF014X06	PF014X08	PF014X10	PF014X12	PF014-ADD
1"		PF100X03.6	PF100X04	PF100X05	PF100X06	PF100X08	PF100X10	PF100X12	PF100-ADD
1-1/4"			PF104X04.6	PF104X05	PF104X06	PF104X08	PF104X10	PF104X12	PF104-ADD
1-1/2"				PF108X05.5	PF108X06	PF108X08	PF108X10	PF108X12	PF108-ADD
1-3/4"					PF112X06.2	PF112X08	PF112X10	PF112X12	PF112-ADD
2"					PF200x07.5	PF200X08	PF200X10	PF200X12	PF200-ADD

### Pro-Flex Braided Wire Rope Slings

#### PF008X02 - PF200X12

Pro-Flex® slings are spliced in two different styles: up to 2" diameter we use a steel/ aluminum sleeve method and from 2-1/4" upwards the slings are hand spliced without any sleeve at all.

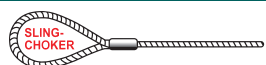


RATED CAPACITIES ARE BASED ON A D/D RATIO OF >5:1 FOR THE BODY OF THE SLING, D/D 1:1 FOR THE SLING EYE, AND CHOKING ANGLE GREATER THAN 135°.

THE MINIMUM BENDING RADIUS (D/D RATIO) FOR THE SLING BODY IS 5:1 WHERE "D" IS THE PIN OR LOAD AND "D" IS THE SLING BODY.

THE MINIMUM BENDING RADIUS (D/D RATIO) FOR THE SLING EYE IS 1:1 WHERE "D" IS THE PIN OR LOAD AND "D" IS THE SLING BODY.

THE RATINGS SHOWN FOR THESE SLINGS INCLUDE AN ALLOWANCE FOR SPlicing EFFICIENCY AND THE ABOVE MENTIONED D/D RATIOS AND ARE BASED ON A DESIGN FACTOR OF 5:1.

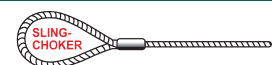


## Rated Capacity For Synthetic Web Slings - 1 Ply, Types 1, 2, 3, & 4

RATED CAPACITY FOR SYNTHETIC WEB SLINGS - 1 PLY, TYPES 1, 2, 3, & 4							
Sling Width	Single Leg			2-Leg or Single Basket			
	Hitch Types			Horizontal Angles			
	Vertical	Choker	Vertical Basket	90 Degrees	60 Degrees	45 Degrees	30 Degrees
1 in.	1,600 lb.	1,250 lb.	3,200 lb.	3,200 lb.	2,750 lb.	2,250 lb.	1,600 lb.
1 ½ in.	2,300 lb.	1,800 lb.	4,600 lb.	4,600 lb.	3,950 lb.	3,250 lb.	2,300 lb.
1 ¾ in.	2,700 lb.	2,150 lb.	5,400 lb.	5,400 lb.	4,650 lb.	3,800 lb.	2,700 lb.
2 in.	3,100 lb.	2,450 lb.	6,200 lb.	6,200 lb.	5,350 lb.	4,350 lb.	3,100 lb.
3 in.	4,700 lb.	3,750 lb.	9,400 lb.	9,400 lb.	8,100 lb.	6,600 lb.	4,700 lb.
4 in.	6,200 lb.	4,950 lb.	12,400 lb.	12,400 lb.	10,700 lb.	8,750 lb.	6,200 lb.
5 in.	7,800 lb.	6,200 lb.	15,600 lb.	15,600 lb.	13,500 lb.	11,000 lb.	7,800 lb.
6 in.	9,300 lb.	7,400 lb.	18,600 lb.	18,600 lb.	16,100 lb.	13,150 lb.	9,300 lb.
8 in.	11,800 lb.	9,400 lb.	23,600 lb.	23,600 lb.	20,400 lb.	16,650 lb.	11,800 lb.
10 in.	14,700 lb.	11,750 lb.	29,400 lb.	29,400 lb.	25,450 lb.	20,750 lb.	14,700 lb.
12 in.	17,600 lb.	14,050 lb.	35,200 lb.	35,200 lb.	30,450 lb.	24,850 lb.	17,600 lb.

## Rated Capacity For Synthetic Web Slings - 1 Ply, Type 5

RATED CAPACITY FOR SYNTHETIC WEB SLINGS - 1 PLY, TYPE 5						
Sling Width	Endless					
	Hitch Types			Horizontal Angles		
	Vertical	Choker	Vertical Basket	60 Degrees	45 Degrees	30 Degrees
1 in.	1,600 lb.	1,250 lb.	3,200 lb.	2,750 lb.	2,250 lb.	1,600 lb.
1 ½ in.	2,300 lb.	1,800 lb.	4,600 lb.	3,950 lb.	3,250 lb.	2,300 lb.
1 ¾ in.	2,700 lb.	2,150 lb.	5,400 lb.	4,650 lb.	3,800 lb.	2,700 lb.
2 in.	3,100 lb.	2,450 lb.	6,200 lb.	5,350 lb.	4,350 lb.	3,100 lb.
3 in.	4,700 lb.	3,750 lb.	9,400 lb.	8,100 lb.	6,600 lb.	4,700 lb.
4 in.	6,200 lb.	4,950 lb.	12,400 lb.	10,700 lb.	8,750 lb.	6,200 lb.
5 in.	7,800 lb.	6,200 lb.	15,600 lb.	13,500 lb.	11,000 lb.	7,800 lb.
6 in.	9,300 lb.	7,400 lb.	18,600 lb.	16,100 lb.	13,150 lb.	9,300 lb.
8 in.	11,800 lb.	9,400 lb.	23,600 lb.	20,400 lb.	16,650 lb.	11,800 lb.
10 in.	14,700 lb.	11,750 lb.	29,400 lb.	25,450 lb.	20,750 lb.	14,700 lb.
12 in.	17,600 lb.	14,050 lb.	35,200 lb.	30,450 lb.	24,850 lb.	17,600 lb.

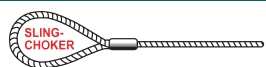


## Rated Capacity For Synthetic Web Slings - 2 Ply, Types 1, 2, 3, & 4

RATED CAPACITY FOR SYNTHETIC WEB SLINGS - 2 PLY, TYPES 1, 2, 3, & 4							
Sling Width	Single Leg			2-Leg or Single Basket			
	Hitch Types			Horizontal Angles			
	Vertical	Choker	Vertical Basket	90 Degrees	60 Degrees	45 Degrees	30 Degrees
1 in.	3,100 lb.	2,450 lb.	6,200 lb.	6,200 lb.	5,350 lb.	4,350 lb.	3,100 lb.
1 ½ in.	4,700 lb.	3,750 lb.	9,400 lb.	9,400 lb.	8,100 lb.	6,600 lb.	4,700 lb.
1 ¾ in.	5,400 lb.	4,300 lb.	10,800 lb.	10,800 lb.	9,350 lb.	7,600 lb.	5,400 lb.
2 in.	6,200 lb.	4,950 lb.	12,400 lb.	12,400 lb.	10,700 lb.	8,750 lb.	6,200 lb.
3 in.	8,800 lb.	7,000 lb.	17,600 lb.	17,600 lb.	15,200 lb.	12,400 lb.	8,800 lb.
4 in.	11,000 lb.	8,800 lb.	22,000 lb.	22,000 lb.	19,050 lb.	15,550 lb.	11,000 lb.
5 in.	13,700 lb.	10,950 lb.	27,400 lb.	27,400 lb.	23,700 lb.	19,350 lb.	13,700 lb.
6 in.	16,500 lb.	13,200 lb.	33,000 lb.	33,000 lb.	28,550 lb.	23,300 lb.	16,500 lb.
8 in.	22,700 lb.	18,150 lb.	45,400 lb.	45,400 lb.	39,300 lb.	32,100 lb.	22,700 lb.
10 in.	28,400 lb.	22,700 lb.	56,800 lb.	56,800 lb.	49,150 lb.	40,150 lb.	28,400 lb.
12 in.	34,100 lb.	27,250 lb.	68,200 lb.	68,200 lb.	59,050 lb.	48,200 lb.	34,100 lb.

## Rated Capacity For Synthetic Web Slings - 2 Ply, Type 5

RATED CAPACITY FOR SYNTHETIC WEB SLINGS - 2 PLY, TYPE 5						
Sling Width	Endless					
	Hitch Types			Horizontal Angles		
	Vertical	Choker	Vertical Basket	60 Degrees	45 Degrees	30 Degrees
1 in.	6,200 lb.	4,950 lb.	12,400 lb.	10,700 lb.	8,750 lb.	6,200 lb.
1 ½ in.	9,400 lb.	7,500 lb.	18,800 lb.	16,250 lb.	13,250 lb.	9,400 lb.
1 ¾ in.	10,800 lb.	8,600 lb.	21,600 lb.	18,700 lb.	15,250 lb.	10,800 lb.
2 in.	12,400 lb.	9,900 lb.	24,800 lb.	21,450 lb.	17,500 lb.	12,400 lb.
3 in.	17,600 lb.	14,050 lb.	35,200 lb.	30,450 lb.	24,850 lb.	17,600 lb.
4 in.	22,000 lb.	17,600 lb.	44,000 lb.	38,100 lb.	31,100 lb.	22,000 lb.
5 in.	27,400 lb.	21,900 lb.	54,800 lb.	47,450 lb.	38,700 lb.	27,400 lb.
6 in.	33,000 lb.	26,400 lb.	66,000 lb.	57,150 lb.	46,650 lb.	33,000 lb.
8 in.	42,300 lb.	33,800 lb.	84,600 lb.	73,250 lb.	59,800 lb.	42,300 lb.
10 in.	52,900 lb.	42,300 lb.	105,800 lb.	91,600 lb.	74,800 lb.	52,900 lb.
12 in.	63,500 lb.	50,800 lb.	127,000 lb.	109,950 lb.	89,800 lb.	63,500 lb.



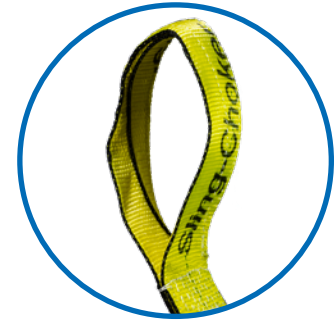
## Type 3

### Web Sling (Flat Eye)



## Type 4

### Web Sling (Twisted Eye)



Single Ply- One Ply Type 3 & 4 (eye & eye) Web Slings					
	1"	2"	3"	4"	6"
Vertical	1,600 lbs	3,100	4,700	6,200	9,300
Choker	1,250 lbs	2,450	3,750	4,950	7,400
Basket	3,200 lbs	6,200	9,400	12,400	18,600
3'	EE1901T3-03	EE1902T3-03	EE1903T4-03	EE1904T4-03	EE1906T4-03
4'	EE1901T3-04	EE1902T3-04	EE1903T4-04	EE1904T4-04	EE1906T4-04
5'	EE1901T3-05	EE1902T3-05	EE1903T4-05	EE1904T4-05	EE1906T4-05
6'	EE1901T3-06	EE1902T3-06	EE1903T4-06	EE1904T4-06	EE1906T4-06
8'	EE1901T3-08	EE1902T3-08	EE1903T4-08	EE1904T4-08	EE1906T4-08
10'	EE1901T3-10	EE1902T3-10	EE1903T4-10	EE1904T4-10	EE1906T4-10
12'	EE1901T3-12	EE1902T3-12	EE1903T4-12	EE1904T4-12	EE1906T4-12
14'	EE1901T3-14	EE1902T3-14	EE1903T4-14	EE1904T4-14	EE1906T4-14
15'	EE1901T3-15	EE1902T3-15	EE1903T4-15	EE1904T4-15	EE1906T4-15
16'	EE1901T3-16	EE1902T3-16	EE1903T4-16	EE1904T4-16	EE1906T4-16
18'	EE1901T3-18	EE1902T3-18	EE1903T4-18	EE1904T4-18	EE1906T4-18

## Single Ply - One Ply Type 3 & 4 Eye & Eye Web Slings

### EE1901X03 - EE1906X25

These web slings last longer and additionally offer:

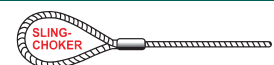
- The best value in synthetic web slings
- Reduced rigging costs due to extended sling life
- Availability in a wide range of sizes
- A 100% polyester composition with 3% elongation
- Maximum temperature exposure of 180oF
- Better resistance to UV rays than nylon
- Excellent chemical resistance

Double Ply- Two Ply Type 3 & 4 (eye & eye) Web Slings					
	1"	2"	3"	4"	6"
Vertical	3,100	6,200	8,800	11,000	16,500
Choker	2,450	4,950	7,000	8,800	13,200
Basket	6,200	12,400	17,600	22,000	33,000
3'	EE2901T3-03	EE2902T3-03	EE2903T4-03	EE2904T4-03	EE2906T4-03
4'	EE2901T3-04	EE2902T3-04	EE2903T4-04	EE2904T4-04	EE2906T4-04
5'	EE2901T3-05	EE2902T3-05	EE2903T4-05	EE2904T4-05	EE2906T4-05
6'	EE2901T3-06	EE2902T3-06	EE2903T4-06	EE2904T4-06	EE2906T4-06
8'	EE2901T3-08	EE2902T3-08	EE2903T4-08	EE2904T4-08	EE2906T4-08
10'	EE2901T3-10	EE2902T3-10	EE2903T4-10	EE2904T4-10	EE2906T4-10
12'	EE2901T3-12	EE2902T3-12	EE2903T4-12	EE2904T4-12	EE2906T4-12
14'	EE2901T3-14	EE2902T3-14	EE2903T4-14	EE2904T4-14	EE2906T4-14
15'	EE2901T3-15	EE2902T3-15	EE2903T4-15	EE2904T4-15	EE2906T4-15
16'	EE2901T3-16	EE2902T3-16	EE2903T4-16	EE2904T4-16	EE2906T4-16
18'	EE2901T3-18	EE2902T3-18	EE2903T4-18	EE2904T4-18	EE2906T4-18

## Double Ply - Two Ply Type 3 & 4 Eye & Eye Web Slings

### EE2901X03 - EE2906X25

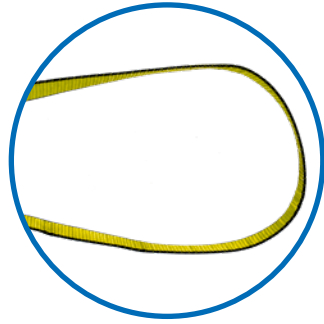
Angle Strength Loss from Rated Capacity			
Angle Degrees	Factor	Angle Degrees	Factor
90°	1	55°	0.819
85°	0.996	50°	0.766
80°	0.985	45°	0.707
75°	0.966	40°	0.643
70°	0.94	35°	0.574
65°	0.906	30°	0.5
60°	0.866		





## Type 5

### Web Sling (Endless)



**PROTrak**  
radio frequency identification

**RFID ENABLED PRODUCT**  
Keep your inspection history at your fingertips with PROTrak

Single Ply- One Ply Type 5 Web (Endless) Slings					
	1"	2"	3"	4"	6"
Vertical	3,200	6,200	9,400	12,400	18,600
Choker	2,550	4,950	7,500	9,900	14,850
Basket	6,400	12,400	18,800	24,800	37,200
3'	EN1901X03	EN1902X03	EN1903X03	EN1904X03	EN1906X03
4'	EN1901X04	EN1902X04	EN1903X04	EN1904X04	EN1906X04
5'	EN1901X05	EN1902X05	EN1903X05	EN1904X05	EN1906X05
6'	EN1901X06	EN1902X06	EN1903X06	EN1904X06	EN1906X06
8'	EN1901X08	EN1902X08	EN1903X08	EN1904X08	EN1906X08
10'	EN1901X10	EN1902X10	EN1903X10	EN1904X10	EN1906X10
12'	EN1901X12	EN1902X12	EN1903X12	EN1904X12	EN1906X12
14'	EN1901X14	EN1902X14	EN1903X14	EN1904X14	EN1906X14
15'	EN1901X15	EN1902X15	EN1903X15	EN1904X15	EN1906X15
16'	EN1901X16	EN1902X16	EN1903X16	EN1904X16	EN1906X16
18'	EN1901X18	EN1902X18	EN1903X18	EN1904X18	EN1906X18
20'	EN1901X20	EN1902X20	EN1903X20	EN1904X20	EN1906X20

## Single Ply - One Ply Type 5 Endless Web Slings

### EN1901X03 - EN1906X25

These web slings last longer and additionally offer:

- The best value in synthetic web slings
- Reduced rigging costs due to extended sling life
- Availability in a wide range of sizes
- A 100% polyester composition with 3% elongation
- Maximum temperature exposure of 180oF
- Better resistance to UV rays than nylon
- Excellent chemical resistance

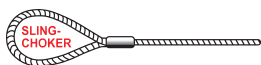
Double Ply- Two Ply Type 5 Web (Endless) Slings					
	1"	2"	3"	4"	6"
Vertical	6,200	12,400	17,600	22,000	33,000
Choker	4,950	9,900	14,050	17,600	26,400
Basket	12,400	24,800	35,200	44,000	66,000
3'	EN2901X03	EN2902X03	EN2903X03	EN2904X03	EN2906X03
4'	EN2901X04	EN2902X04	EN2903X04	EN2904X04	EN2906X04
5'	EN2901X05	EN2902X05	EN2903X05	EN2904X05	EN2906X05
6'	EN2901X06	EN2902X06	EN2903X06	EN2904X06	EN2906X06
8'	EN2901X08	EN2902X08	EN2903X08	EN2904X08	EN2906X08
10'	EN2901X10	EN2902X10	EN2903X10	EN2904X10	EN2906X10
12'	EN2901X12	EN2902X12	EN2903X12	EN2904X12	EN2906X12
14'	EN2901X14	EN2902X14	EN2903X14	EN2904X14	EN2906X14
15'	EN2901X15	EN2902X15	EN2903X15	EN2904X15	EN2906X15
16'	EN2901X16	EN2902X16	EN2903X16	EN2904X16	EN2906X16
18'	EN2901X18	EN2902X18	EN2903X18	EN2904X18	EN2906X18
20'	EN2901X20	EN2902X20	EN2903X20	EN2904X20	EN2906X20

## Double Ply - Two Ply Type 5 Endless Web Slings

### EN2901X03 - EN2906X25

MADE IN CANADA 

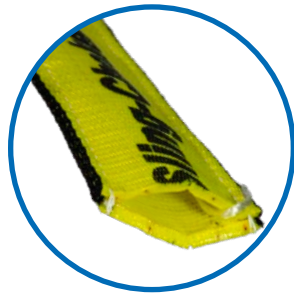
RATED CAPACITIES ARE AFFECTED BY ANGLE OF LIFT (SLING TO LOAD ANGLE) MEASURED FROM THE HORIZONTAL WHEN USED WITH MULTI-LEGGED SLINGS OR CHOKER/BASKET HITCHES. TO DETERMINE THE ACTUAL CAPACITY AT A GIVEN LIFT, MULTIPLY THE ORIGINAL SLING RATING BY THE APPROPRIATE LOSS FACTOR DETERMINED FROM THE ANGLE STRENGTH LOSS FROM RATED CAPACITY CHART.



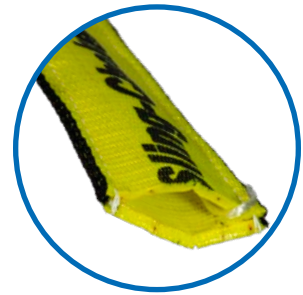
## Sliding Wear Pads

with Velcro Closures

Treated Nylon	
Sling Width	With Velcro
1	WP-TN03X01V
2	WP-TN04X01V
3	WP-TN05X01V
4	WP-TN06X01V
5	WP-TN08X01V
6	WP-TN08X01V



Cordura	
Sling Width	With Velcro
1	WP-C3X01V
2	WP-C4X01V
3	WP-C4X01V
4	WP-C6X01V



Ballistic & Nylon Sandwich	
Sling Width	With Velcro
1	WP-B&TN3X01V
2	WP-B&TN4X01V
3	WP-B&TN5X01V
4	WP-B&TN6X01V
5	WP-B&TN8X01V
6	WP-B&TN8X01V



Ballistic Nylon	
Sling Width	With Velcro
1	WP-BN2X01V
2	WP-BN3X01V
3	WP-BN4X01V
4	WP-BN5X01V
5	WP-BN6X01V
6	WP-BN7X01V
8	WP-BN9X01V
10	WP-BN11X01V
12	WP-BN12X01V



## Sliding Wear Pads

Installed on Sling

Polyester Tubing	
Width	Item
1	WP-PT2X01
2	WP-PT03X01
3	WP-CT4X01
4	WP-CT5X01
5	WP-CT6X01
6	WP-CT8X01
8	WP-CT10X01
10	WP-CT12X01



Blue Armour Tubing	
Width	Item
1	WP-200187
2	WP-200287
3	WP-200387
4	WP-200487
5	WP-200587
6	WP-200687
8	WP-200887



Dyneema Tubing	
Sling Width	Item
1	WP-DY3X01
2	WP-DY3X01
3	WP-DY4X01
4	WP-DY6X01
5	WP-DY6X01

Larger sizes available on request



**Sling-Choker Mfg.** is dedicated to upholding the quality and safety standards of our products and their manufacturers. With more than just rigging products, we're committed to offering **more than you think.**



## Sewn Wear Pads

### Eyes & Edges

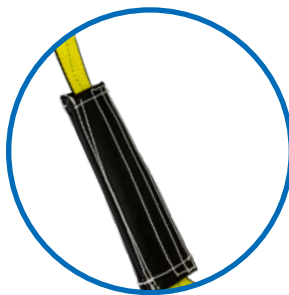
Reinforced Eyes	
Sling Width	Item
1	SWP-RE01
2	SWP-RE02
3	SWP-RE03
4	SWP-RE04
5	SWP-RE05
6	SWP-RE06
8	SWP-RE08
10	SWP-RE10
12	SWP-RE12



Wrapped Eyes	
Sling Width	Item
1	SWP-WE1
2	SWP-WE2
3	SWP-WE3
4	SWP-WE4
5	SWP-WEBL5
6	SWP-WEBL6
8	SWP-WEBL8
10	SWP-WEBL10
12	SWP-WEBL12



Wrapped Edges	
Sling Width	Item
All	SWP-EW1X01



Corner Protector Per Foot	
Sling Width	Item
6x24"	WP-CPB-6240001



## Sewn Wear Pads

### Priced per Foot

Ballistic Nylon	
Sling Width	Item
1	SWP-BN1X01
2	SWP-BN2x01
3	SWP-BN3x01
4	SWP-BN4x01
5	SWP-BN5x01
6	SWP-BN6x01
8	SWP-BN8x01
10	SWP-BN10x01



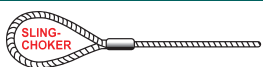
Treated Nylon	
Sling Width	Item
1	SWP-TN01X01
2	SWP-TN02X01
3	SWP-TN03X01
4	SWP-TN04X01
5	SWP-TN05X01
6	SWP-TN06X01
8	SWP-TN08X01
10	SWP-TN10X01



Cordura	
Sling Width	Item
1	SWP-C1X01
2	SWP-C2X01
3	SWP-C3X01
4	SWP-C4X01
6	SWP-C6X01



**Sling-Choker Mfg.** is dedicated to upholding the quality and safety standards of our products and their manufacturers. With more than just rigging products, we're committed to offering **more than you think.**



Super Sling Specifications						
Model	Vertical Capacity Lbs	Choker Lbs	Basket Lbs	Approx. Wt./Ft Lbs	Approx. Diameter	Minimum Hardware Connection
SS200	20,000	16,000	40,000	0.55	1.25	1.25
SS250	25,000	20,000	50,000	0.65	1.25	1.34
SS300	30,000	24,000	60,000	0.80	1.38	1.5
SS400	40,000	32,000	80,000	1.10	1.75	1.5
SS500	50,000	40,000	100,000	1.50	1.88	1.75
SS600	60,000	48,000	120,000	1.60	2	2
SS700	70,000	56,000	140,000	1.65	2.13	2.5
SS850	85,000	68,000	170,000	1.85	2.5	2.5
SS1000	100,000	80,000	200,000	2.20	2.75	2.5
SS1250	125,000	100,000	150,000	3.00	3	3
SS1500	150,000	120,000	300,000	3.35	3.25	3.5
SS1750	175,000	140,000	350,000	4.00	3.5	3.5
SS2000	200,000	160,000	400,000	4.35	3.75	Inquire

## Super Slings

### SS0200X03 - SS2000X20

High Performance, flexible Super Slings that offer:

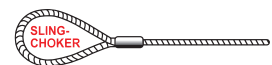
- A high strength to weight ratio
- More ease and less time required to rig than wire or chain slings
- Excellent chemical resistance
- Low elongation of 1%
- Ultra high strength and performance slings that are fitted with durable RFID Capacity Tags

MADE IN CANADA 



**PROTrak** radio frequency identification **RFID ENABLED PRODUCT**  
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Super Slings												
Super Round Slings are high performance slings. The sling is covered with a BLACK seamless double cover nylon jacket to provide an extremely low elongation, flexible and light weight lifting sling												
Model	3 Ft	4 Ft	5 Ft	6 Ft	8 Ft	10 Ft	12 Ft	14 Ft	15 Ft	16 Ft	18 Ft	20 Ft
SS200	SS0200X03	SS0200X04	SS0200X05	SS0200X06	SS0200X08	SS0200X10	SS0200X12	SS0200X14	SS0200X15	SS0200X16	SS0200X18	SS0200X20
SS250	SS0250X03	SS0250X04	SS0250X05	SS0250X06	SS0250X08	SS0250X10	SS0250X12	SS0250X14	SS0250X15	SS0250X16	SS0250X18	SS0250X20
SS300					SS0300X08	SS0300X10	SS0300X12	SS0300X14	SS0300X15	SS0300X16	SS0300X18	SS0300X20
SS400					SS0400X08	SS0400X10	SS0400X12	SS0400X14	SS0400X15	SS0400X16	SS0400X18	SS0400X20
SS500						SS0500X10	SS0500X12	SS0500X14	SS0500X15	SS0500X16	SS0500X18	SS0500X20
SS600						SS0600X10	SS0600X12	SS0600X14	SS0600X15	SS0600X16	SS0600X18	SS0600X20
SS700						SS0700X10	SS0700X12	SS0700X14	SS0700X15	SS0700X16	SS0700X18	SS0700X20
SS850						SS0850X10	SS0850X12	SS0850X14	SS0850X15	SS0850X16	SS0850X18	SS0850X20
SS1000						SS1000X10	SS1000X12	SS1000X14	SS1000X15	SS1000X16	SS1000X18	SS1000X20
SS1250						SS1250X10	SS1250X12	SS1250X14	SS1250X15	SS1250X16	SS1250X18	SS1250X20
SS1500						SS1500X10	SS1500X12	SS1500X14	SS1500X15	SS1500X16	SS1500X18	SS1500X20
SS1750						SS1750X10	SS1750X12	SS1750X14	SS1750X15	SS1750X16	SS1750X18	SS1750X20
SS2000						SS2000X10	SS2000X12	SS2000X14	SS2000X15	SS2000X16	SS2000X18	SS2000X20



Polyester Round Slings - Colour-Coded Ratings											
Size	Colour	Vertical	Choker	90°	30°	45°	Approximate Weight/ Foot	Approximate Weight/ Foot	Vertical Minimum Pin Diameter	Choker/ Basket Minimum Pin Diameter	
SC2-3	Purple	3,000	2,400	6,000	5,200	4,200	0.75	0.25	0.50	0.62	
SC2-4	Black	4,000	3,200	8,000	6,900	5,600	0.80	0.35	0.62		
SC2-6	Green	6,000	4,800	12,000	10,300	8,400	0.90	0.40	0.62	0.88	
SC2-9	Yellow	9,000	7,200	18,000	15,500	12,600	1.00	0.50	0.75	1.00	
SC2-12	Tan	12,000	9,600	24,000	20,600	16,800	1.25	0.75	0.88	1.25	
SC2-14	Red	14,000	11,200	28,000	24,100	19,600	1.30	0.85	1.00	1.38	
SC2-17	Orange	17,000	13,600	34,000	29,300	23,800	1.60	0.95	1.12	1.62	
SC2-23	Blue	23,000	18,400	46,000	39,500	32,200	1.65	1.25	1.25	1.75	
SC2-26	Orange	26,000	20,800	52,000	44,700	36,400	1.75	1.45	1.38	1.88	
SC2-32	Grey	32,000	25,600	64,000	55,000	44,800	2.15	1.75	1.50	2.00	
SC2-40	Orange	40,000	32,000	80,000	68,000	56,000	2.45	2.25	1.62	2.38	
SC2-54	Brown	54,000	43,200	108,000	68,800	75,600	3.00	2.75	1.88	2.75	
SC2-70	Olive	70,000	56,000	140,000	117,000	95,200	3.25	3.60	2.12	3.00	
SC2-90	Black	90,000	72,000	180,000	155,500	126,000	3.75	4.10	2.50	3.50	

COLOUR GUIDELINES FOR POLYESTER ROUND SLING COVERS ARE WIDELY USED TO INDICATE THE VERTICAL RATED LOAD OF ROUND SLINGS; HOWEVER THIS IS NOT FOLLOWED BY SOME MANUFACTURERS. ALWAYS SELECT AND USE ROUND SLINGS BY THE RATED LOAD AS SHOWN ON THE SLING IDENTIFICATION TAG.



## Polyester Round Sling

### Construction Process

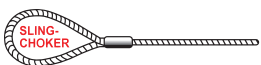
Polyester round slings are constructed from a multiple of high tenacity polyester yarns in an endless or continuous loop. These load bearing yarns are protected by two woven polyester jackets. The polyester jackets act as a buffer between the load and the polyester yarn.

Each sling has a tag permanently attached. This tag contains load capacities and basic safeguard principles for safer lifting.

Wear pads are to be used when lifting sharp edged loads for even better resistance to cutting. The sleeve is sewn around the cover of the round sling so it can be positioned in the area where it is required.

**PROTrak**  
radio frequency identification

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Polyester Round Slings							
Size	SC2-3	SC2-4	SC2-6	SC2-9	SC2-12	SC2-14	SC2-17
Vertical	3,000	4,000	6,000	9,000	12,000	14,000	17,000
Choker	2,400	3,200	4,800	7,200	9,600	11,200	13,600
Basket	6,000	8,000	12,000	18,000	24,000	28,000	34,000
3	SC2-03X03	SC2-04X03	SC2-06X03	SC2-09X03	SC2-12X03	SC2-14X03	SC2-17X03
4	SC2-03X04	SC2-04X04	SC2-06X04	SC2-09X04	SC2-12X04	SC2-14X04	SC2-17X04
5	SC2-03X05	SC2-04X05	SC2-06X05	SC2-09X05	SC2-12X05	SC2-14X05	SC2-17X05
6	SC2-03X06	SC2-04X06	SC2-06X06	SC2-09X06	SC2-12X06	SC2-14X06	SC2-17X06
8	SC2-03X08	SC2-04X08	SC2-06X08	SC2-09X08	SC2-12X08	SC2-14X08	SC2-17X08
10	SC2-03X10	SC2-04X10	SC2-06X10	SC2-09X10	SC2-12X10	SC2-14X10	SC2-17X10
12	SC2-03X12	SC2-04X12	SC2-06X12	SC2-09X12	SC2-12X12	SC2-14X12	SC2-17X12
14	SC2-03X14	SC2-04X14	SC2-06X14	SC2-09X14	SC2-12X14	SC2-14X14	SC2-17X14
15	SC2-03X15	SC2-04X15	SC2-06X15	SC2-09X15	SC2-12X15	SC2-14X15	SC2-17X15
16	SC2-03X16	SC2-04X16	SC2-06X16	SC2-09X16	SC2-12X16	SC2-14X16	SC2-17X16
18	SC2-03X18	SC2-04X18	SC2-06X18	SC2-09X18	SC2-12X18	SC2-14X18	SC2-17X18
20	SC2-03X20	SC2-04X20	SC2-06X20	SC2-09X20	SC2-12X20	SC2-14X20	SC2-17X20
22	SC2-03X22	SC2-04X22	SC2-06X22	SC2-09X22	SC2-12X22	SC2-14X22	SC2-17X22
24	SC2-03X24	SC2-04X24	SC2-06X24	SC2-09X24	SC2-12X24	SC2-14X24	SC2-17X24

Rated Loads cited are based on minimum pin diameters shown in WSTDA-WS-1. Pin Diameters smaller than these may reduce the rated load of the sling

## Polyester Round Slings

### SC2-03X03 - 90X24

These slings adapt to all types, sizes, and load configurations while remaining lightweight and easy to rig, clean, and store. They offer excellent resistance to UV light, rot, and mildew. They also do not lose any strength in water and reach only 3% elongation.

This product can be exposed to high heat up to a maximum of 180°. Additionally, the absence of any metal parts in this product eliminates rust concerns and reduces the need for wear pads.

RATED LOADS CITED ARE BASED ON MINIMUM PIN DIAMETERS SHOWN IN WSTDA-WS-1. PIN DIAMETERS SMALLER THAN THESE MAY REDUCE THE RATED LOAD OF THE SLING

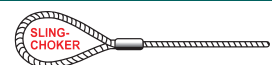
REFER TO POLYESTER ROUND SLING CHART FOR COLOUR-CODED SPECIFICATION DATA.



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## Sling-Choker Manufacturing More Than You Think

Our thing is rigging - with experience to be proud of, but we're experts at more than you think. For 40 years, we've developed product lines that specifically serving niche industries - becoming a go-to distributor for many. From pumps to safety gear to warehouse outfitting, we can get what you need.



Polyester Round Slings							
Size	SC2-23	SC2-26	SC2-32	SC2-40	SC2-54	SC2-70	SC2-90
Vertical	23,000	26,000	32,000	40,000	54,000	70,000	90,000
Choker	18,400	20,800	25,600	32,000	43,200	56,000	72,000
Basket	46,000	52,000	64,000	80,000	108,000	140,000	180,000
3	SC2-23X03	SC2-26X03	SC2-32X03	SC2-40X03	SC2-54X03	SC2-70X03	SC2-90X03
4	SC2-23X04	SC2-26X04	SC2-32X04	SC2-40X04	SC2-54X04	SC2-70X04	SC2-90X04
5	SC2-23X05	SC2-26X05	SC2-32X05	SC2-40X05	SC2-54X05	SC2-70X05	SC2-90X05
6	SC2-23X06	SC2-26X06	SC2-32X06	SC2-40X06	SC2-54X06	SC2-70X06	SC2-90X06
8	SC2-23X08	SC2-26X08	SC2-32X08	SC2-40X08	SC2-54X08	SC2-70X08	SC2-90X08
10	SC2-23X10	SC2-26X10	SC2-32X10	SC2-40X10	SC2-54X10	SC2-70X10	SC2-90X10
14	SC2-23X14	SC2-26X14	SC2-32X14	SC2-40X14	SC2-54X14	SC2-70X14	SC2-90X14
15	SC2-23X15	SC2-26X15	SC2-32X15	SC2-40X15	SC2-54X15	SC2-70X15	SC2-90X15
16	SC2-23X16	SC2-26X16	SC2-32X16	SC2-40X16	SC2-54X16	SC2-70X16	SC2-90X16
18	SC2-23X18	SC2-26X18	SC2-32X18	SC2-40X18	SC2-54X18	SC2-70X18	SC2-90X18
20	SC2-23X20	SC2-26X20	SC2-32X20	SC2-40X20	SC2-54X20	SC2-70X20	SC2-90X20
22	SC2-23X22	SC2-26X22	SC2-32X22	SC2-40X22	SC2-54X22	SC2-70X22	SC2-90X22
24	SC2-23X24	SC2-26X24	SC2-32X24	SC2-40X24	SC2-54X24	SC2-70X24	SC2-90X24



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## Polyester Round Slings

### SC2-03X03 - 90X24

The most flexible sling available. This sling conforms to the load extremely well and provides the best choker hold. Hook and load contact points can be continually rotated to extend the service life of the sling consistently.

The load bearing fiber never comes into contact with the load. There is no wear to the inner fiber provided the protective cover remains intact. Protection to the load from sling damage with a seamless cover; no edges to wear out.

RATED LOADS CITED ARE BASED ON MINIMUM PIN DIAMETERS SHOWN IN WSTDA-WS-1. PIN DIAMETERS SMALLER THAN THESE MAY REDUCE THE RATED LOAD OF THE SLING

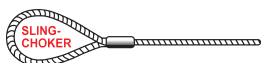
REFER TO POLYESTER ROUND SLING CHART FOR COLOUR-CODED SPECIFICATION DATA.

## Don't see what you need? We can find a solution.

We are continuously expanding our product offerings to provide you with more choices in your purchasing decision. Contact us today to find out how much we've expanded our product offerings to ensure we can be your preferred industrial product distributors.



Colour guidelines for polyester round slings are widely used to indicate the vertical rated load of round slings; however this is not followed by some manufacturers. Always select and use round slings by the rated load as shown on the sling identification tag.






[www.slingchoker.com](http://www.slingchoker.com)

This catalogue was printed on August 11, 2021




**55**

**ProSLING**

**Single Adjustable Sling with Urethane Coating**  
Rated Capacities (Lbs.)

Rope Dia.				Standard Length	Min. Length	Item
1/2"	2,200	1,760	4,400	28"-48"	28"	TAS12-2848
5/8"	3,200	2,560	6,400	32"-48"	32"	TAS58-3248
3/4"	4,220	3,370	8,440	38"-60"	38"	TAS34-3860
1"	7,560	6,040	15,120	54"-96"	54"	TAS1-5496

**4 Leg Adjustable Bridle with Urethane Coating**  
Rated Capacities (Lbs.)

Rope Dia.				Standard Length	Min. Length	Item
1/2"	6,600	5,350	3,800	48"-60"	32"	TAB12-4860
5/8"	9,600	7,800	5,550	60"-84"	38"	TAB58-6084
3/4"	12,650	10,300	7,300	60"-84"	46"	TAB34-6084
1"	22,650	18,500	13,050	72"-96"	60"	TAB1-7296

## Adjustable Bridles and Slings With Urethane Coating

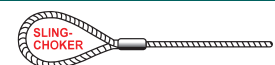
**TAB1-7296 - TAB58-6084**  
**TAS1-5496 - TAS58-3248**

Dyneema adjustable slings can be fabricated to any length above minimum rated capacities, assuming a balanced load with weight equally distributed among the four legs. if you have unequal leg lengths due to an unbalanced load, the tension (or stress) on each leg will also be unequal. under such circumstances, it's possible that only two legs will carry the load while the others balance it. in those cases, reduce the rated capacities shown above by 50%. if three legs support the load while the fourth balances it, reduce the rated capacities by 25%

- USES**

  - Electric power & telephone construction
  - Single phase & pad mount transformers
  - Capacitors
  - Cross arms
  - Air switches
  - Overhead transmission & distribution
  - General material handling

- Non-conductive
  - High tenacity polyester has zero strength loss when wet vs. 15% loss in nylon web under similar conditions
  - Exhibition of less than 4% stretch at rated capacity vs. 6-8% in nylon web slings
  - Excellent resistance to UV rays





# GrabIQ

## CHAIN SLINGS & ACCESSORIES

### A Simpler, Smarter, Chain Sling System

GrabIQ is an exciting new family of alloy chain sling components. Instead of the old “one component does one job” fitting, GrabIQ combines in a single component up to three separate functions replacing up to seven different fittings.

May contain the master link, connecting links for two legs of chain, and shortening hooks for each leg, all in one fitting. Using traditional fittings to construct the same sling would require 7 top-of-the-sling components, instead of just one.

A four-leg fully adjustable GrabIQ sling will never have more than 3 total top fittings, while the same sling from traditional fittings requires 15 top-of-the-sling-components.

All chain and every single component is proof-loaded to a level that corresponds to 2 1/2 times WLL. Individual inspection before delivery from our factories ensures high and consistent quality.

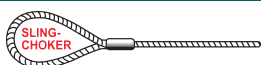
Chain and components are tested to destruction on a random sample basis from every production batch.

Full test data is documented. The prescribed elongation for Gunnebo Lifting G80 and G100 Alloy chains is minimum 20%.

$$\text{MINIMUM BREAKING FORCE} = \text{MAXIMUM WLL} \times \text{DESIGN FACTOR}$$

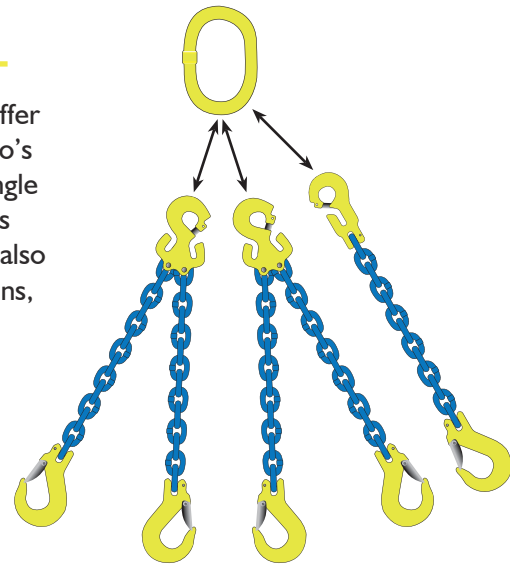
GrabIQ G100 Alloy Steel Chain Sling Working Load Limits									
Gunnebo G100 Chain Size		Single Leg		Double Leg			Triple / Quad Leg		
mm	in	90°	90° - 60°	90° - 45°	90° - 30°	90° - 60°	90° - 45°	90° - 30°	
8	5/16	5,700	9,900	8,100	5,700	14,800	12,100	8,500	
10	3/8	8,800	15,200	12,400	8,800	22,900	18,700	13,200	
13	1/2	15,000	26,000	21,200	15,000	39,000	31,800	22,500	
16	5/8	22,600	39,100	32,000	22,600	58,700	47,900	33,900	

Design Factor 4:1 • Working Load Limits are valid between temperatures of -40° and 400°F



# Less is More with FlexiLeg

Thanks to the unique features of Gunnebo's GrabIQ product range, we can offer solutions that increase the flexibility in lifting operations even further. Gunnebo's FlexiLeg solution allows you to have an instant leg change onsite. With one single master link in combination with five FlexiLegs we offer a solution that replaces four complete traditional slings, a total of ten legs. In addition to this FlexiLeg also gives you the opportunity to modify the chain sling to different lifting operations, whenever and wherever it is needed.



GrabIQ FlexiLeg - a total of 5 legs replaces the total of 10 legs with the old traditional system.

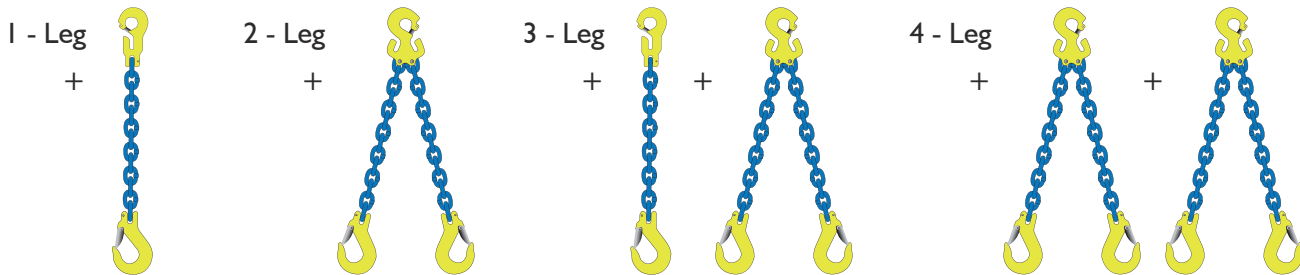
## The Benefits of Instant Leg-Change

- It enables the user to change slings, leg by leg.
- It makes the sling lighter and easier to work with.
- Sling legs that are not being used can easily be removed, thereby increasing safety at the work site.
- The quantity of sling material is greatly reduced, providing cost savings.
- The chain sling can be reconfigured on site, thus increasing efficiency.

GrabIQ



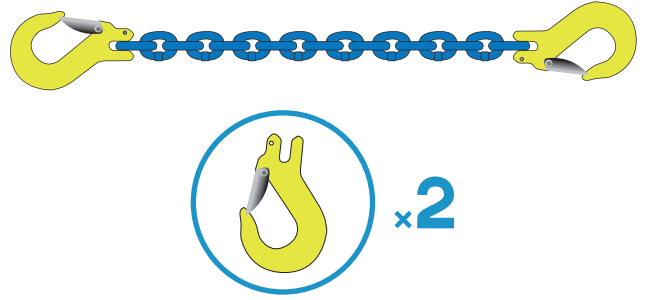
1 Master Link



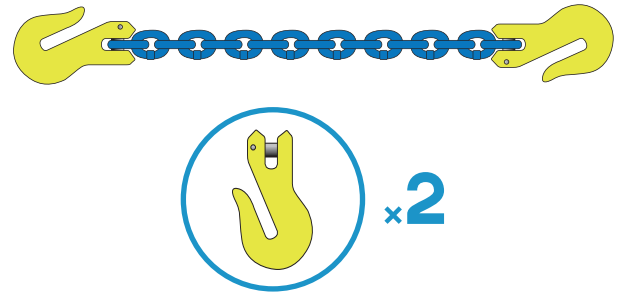
## Traditional Systems



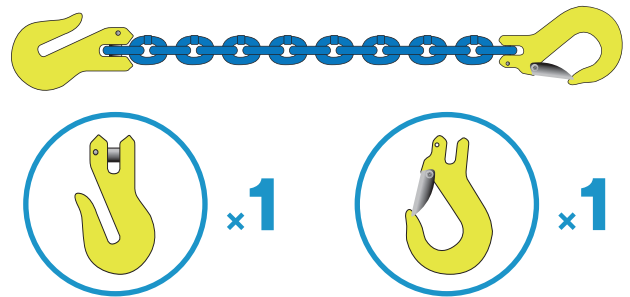
EGKN Hook both ends- 5 Foot	
WLL Vert	Item
5,700	GQ-EG-EG-08X05
8,800	GQ-EG-EG-10X05
15,000	GQ-EG-EG-13X05
22,600	GQ-EG-EG-16X05



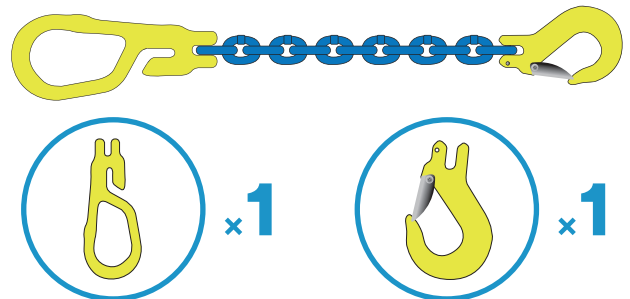
GG Hook ea. end- 5 Foot	
WLL Vert	Item
5,700	GQ-GG-GG-08X05
8,800	GQ-GG-GG-10X05
15,000	GQ-GG-GG-13X05
22,600	GQ-GG-GG-16X05



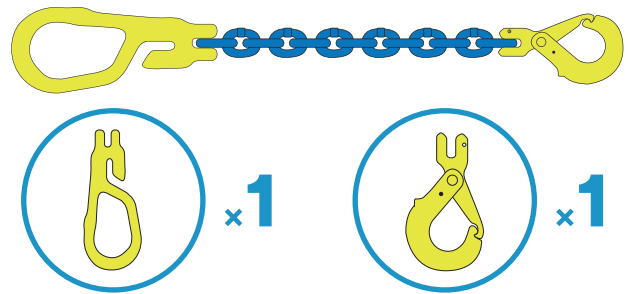
GG Hook & EGKN Hook other- 5 Foot	
WLL Vert	Item
5,700	GQ-GG-EG-08X05
8,800	GQ-GG-EG-10X05
15,000	GQ-GG-EG-13X05
22,600	GQ-GG-EG-16X05



MG Master, EGKN Hooks- 5 Foot	
WLL Vert	Item
5,700	GQ-MG-EG-08X05
8,800	GQ-MG-EG-10X05
15,000	GQ-MG-EG-13X05
22,600	GQ-MG-EG-16X05

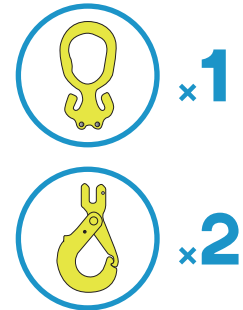
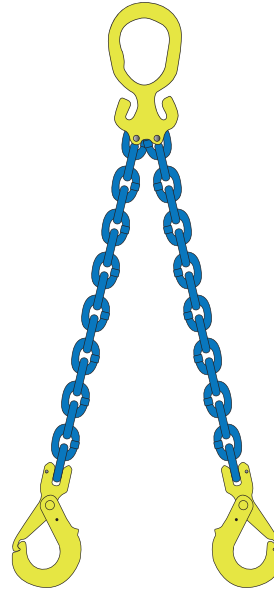
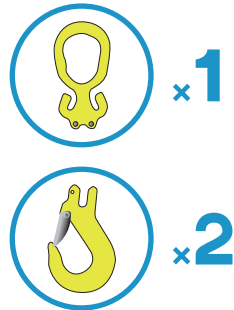
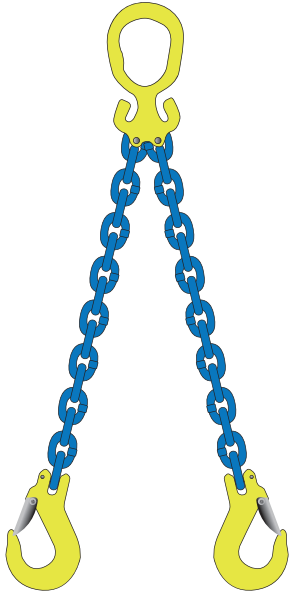


MG Master, GBK Hooks- 5 Foot	
WLL Vert	Item
5,700	GQ-MG-GB-08X05
8,800	GQ-MG-GB-10X05
15,000	GQ-MG-GB-13X05
22,600	GQ-MG-GB-16X05



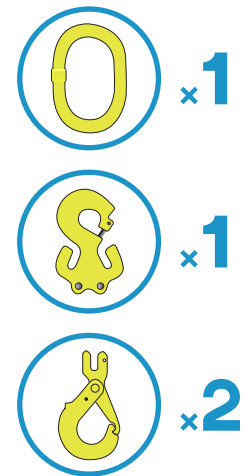
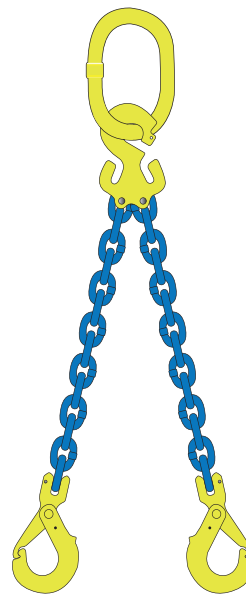
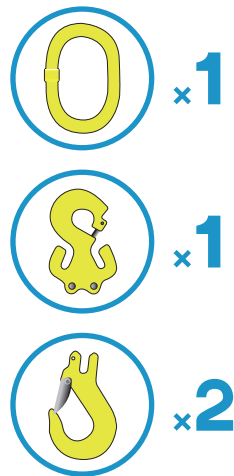
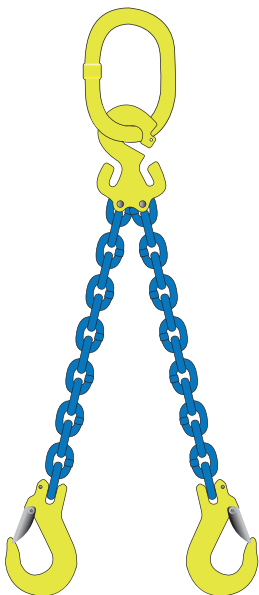
MGD Master, EGKN Hook- 5 Foot	
WLL @ 60°	Item
9,900	GQ-MGD-EG-08X05
15,200	GQ-MGD-EG-10X05
26,000	GQ-MGD-EG-13X05
39,100	GQ-MGD-EG-16X05

MGD Master, GBK Hook- 5 Foot	
WLL @ 60°	Item
9,900	GQ-MGD-GB-08X05
15,200	GQ-MGD-GB-10X05
26,000	GQ-MGD-GB-13X05
39,100	GQ-MGD-GB-16X05

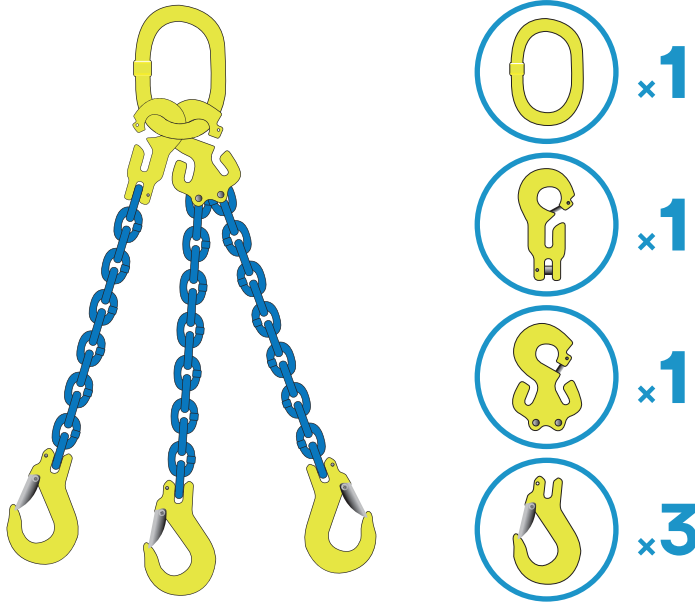


MF Master, CGD & EGKN- 5 Foot	
WLL @ 60°	Item
9,900	GQ-TG2-EG-08X05
15,200	GQ-TG2-EG-10X05
26,000	GQ-TG2-EG-13X05
39,100	GQ-TG2-EG-16X05

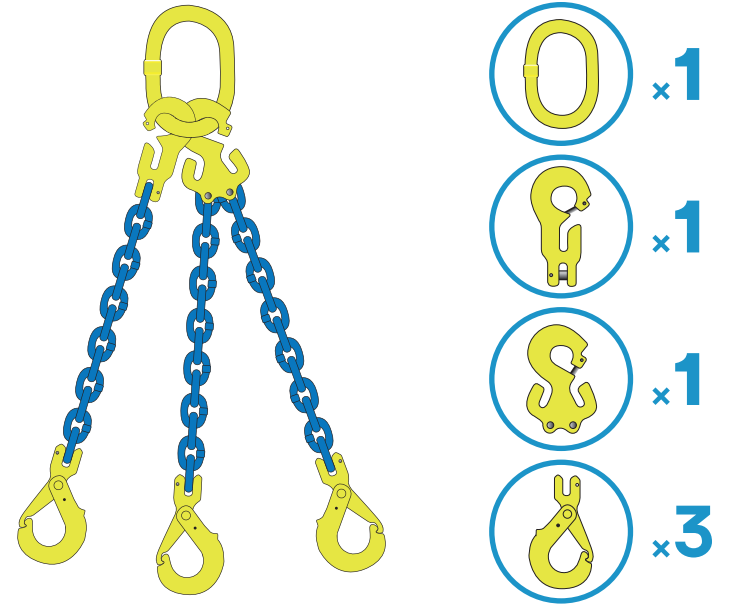
MF Master, CGD & GBK- 5 Foot	
WLL @ 60°	Item
9,900	GQ-TG2-GB-08X05
15,200	GQ-TG2-GB-10X05
26,000	GQ-TG2-GB-13X05
39,100	GQ-TG2-GB-16X05



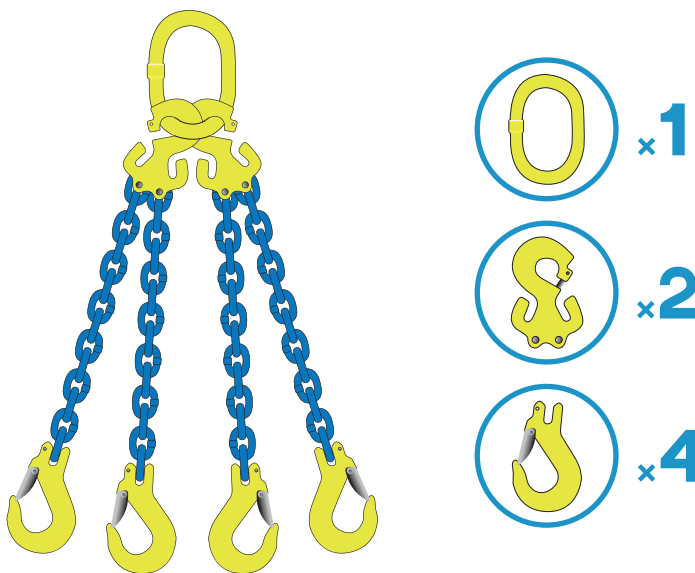
MF Mstr., CG & CGD & EGKN- 5 Foot	
WLL @ 60°	Item
14,800	GQ-TG3-EG-08X05
22,900	GQ-TG3-EG-10X05
39,000	GQ-TG3-EG-13X05
58,700	GQ-TG3-EG-16X05



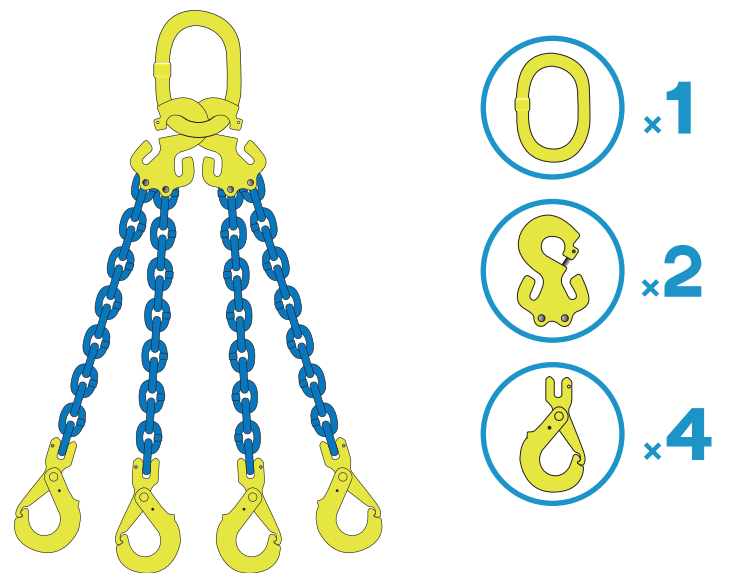
MF Mstr., CG & CGD & GBK- 5 Foot	
WLL @ 60°	Item
14,800	GQ-TG3-GB-08X05
22,900	GQ-TG3-GB-10X05
39,000	GQ-TG3-GB-13X05
58,700	GQ-TG3-GB-16X05



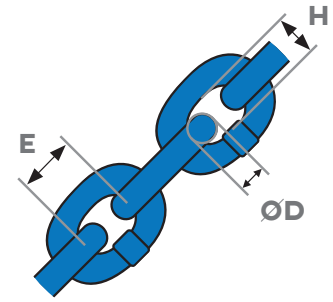
MF Mstr., CGD & EGKN- 5 Foot	
WLL @ 60°	Item
14,800	GQ-TG4-EG-08X05
22,900	GQ-TG4-EG-10X05
39,000	GQ-TG4-EG-13X05
58,700	GQ-TG4-EG-16X05



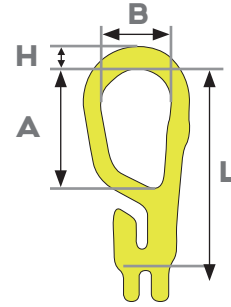
MF Mstr., CGD & GBK- 5 Foot- 5 Foot	
WLL @ 60°	Item
14,800	GQ-TG4-GB-08X05
22,900	GQ-TG4-GB-10X05
39,000	GQ-TG4-GB-13X05
58,700	GQ-TG4-GB-16X05



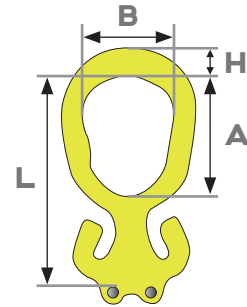
Alloy Chain - KLA Grade 100							
mm	Inch	WLL Lbs.	OD	Inch		Wt.	Item
				E	H	(Lbs.)	
8	5/16	5,700	0.3	0.1	0.5	1.0	7244911
10	3/8	8,800	0.4	1.2	0.6	1.5	7244920
13	1/2	15,000	0.5	1.5	0.7	2.5	7244929
16	1	22600.0	0.6	1.9	0.9	4.5	7244938



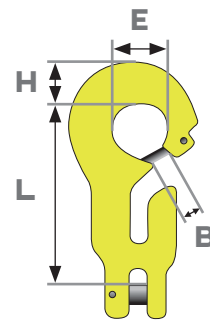
MG 10 Master Grab								
mm	Inch	WLL Lbs.	L (In)	Inch			Wt.	Item
				A	B	H	(Lbs.)	
8	5/16	5,700	6.7	3.7	2.4	0.7	2.2	7203520
10	3/8	8,800	8.3	4.6	3.0	0.9	4.0	7203529
13	1/2	15,000	10.3	5.6	3.5	1.0	7.7	7203538
16	5/8	22,600	12.3	6.4	4.1	1.2	12.8	7203547



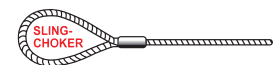
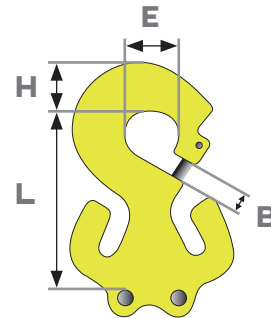
MGD Master Grab								
mm	Inch	WLL Lbs. @ 60°	L (In)	Inch			Wt.	Item
				A	B	H	(Lbs.)	
8	5/16	9,900	6.7	3.9	3.0	0.8	3.1	7203475
10	3/8	15,200	8.3	4.9	3.5	1.0	5.5	7203484
13	1/2	26,000	10.3	5.8	4.1	1.0	11.0	7203493
16	5/8	39,100	12.2	6.9	4.7	1.4	19.6	7203502



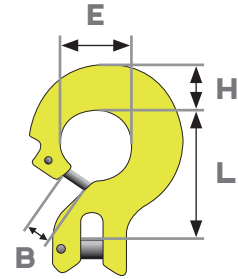
C-Grab Single CG								
mm	Inch	WLL Lbs. @ 60°	L	Inch			Wt.	Item
				B	E	H	(Lbs.)	
8	5/16	5,700	4.2	0.5	1.3	1.0	1.8	7203601
10	3/8	8,800	5.3	0.6	1.6	1.1	3.3	7203610
13	1/2	15,000	6.8	0.7	2.0	1.5	7.1	7203619
16	5/8	22,600	8.5	0.9	2.5	1.9	13.4	7203628



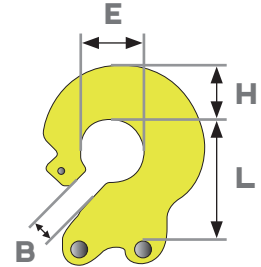
C-Grab Dual Type CGD								
mm	Inch	WLL Lbs. @ 60°	L	Inch			Wt.	Item
				B	E	H	(Lbs.)	
8	5/16	9,900	4.2	0.5	1.3	1.1	2.9	7203565
10	3/8	15,200	5.2	0.6	1.6	1.5	5.5	7203584
13	1/2	26,000	6.8	0.7	2.0	1.8	12.1	7203754
16	5/8	39,100	8.5	0.9	2.5	2.2	22.5	7203583



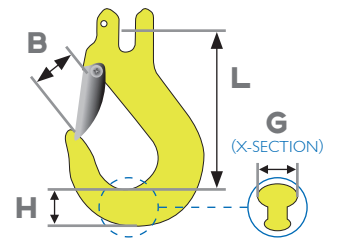
C-Lok Type CL								
mm	Inch	WLL @ 90°	Inch				Wt. (Lbs.)	Item
			L	B	E	H		
8	5/16	5,700	2.3	0.5	1.3	1.0	1.1	7203691
10	3/8	8,800	2.9	0.6	1.6	1.1	2.0	7203700
13	1/2	15,000	3.8	0.7	2.0	1.5	4.4	7203709
16	5/8	22,600	4.7	0.9	2.5	1.9	8.4	7203718



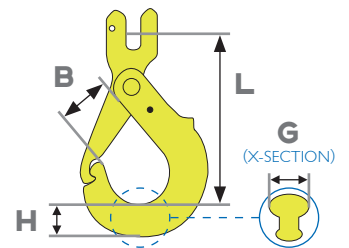
C-Lok Dual Type CLD								
mm	Inch	WLL Lbs. @ 60°	Inch				Wt. (Lbs.)	Item
			L	B	E	H		
8	5/16	9,900	2.2	0.5	1.3	1.1	3.9	7203646
10	3/8	15,200	2.8	0.6	1.6	1.5	7.3	7203655
13	1/2	26,000	3.7	0.7	2.0	1.8	15.5	7203664
16	5/8	39,100	4.5	1.0	2.5	2.2	13.2	7203673



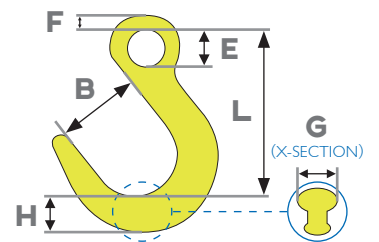
EGKN Sling Hook with Latch								
mm	Inch	WLL Lbs. @ 60°	Inch				Wt. (Lbs.)	Item
			L	B	G	H		
7-8	9/32"-5/16	5,700	3.7	1.2	0.7	0.9	1.1	7204276
10	3/8	8,800	4.8	1.6	0.9	1.2	2.2	7204285
13	1/2	15,000	5.7	1.9	1.1	1.5	4.4	7204294
16	5/8	22,600	6.7	2.3	1.4	1.8	8.4	7204303



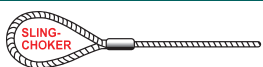
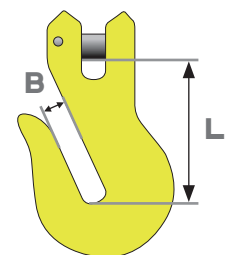
Grip Latch Self Locking Clevis Hook (GBK)								
mm	Inch	WLL Lbs. @ 60°	Inch				Wt. (Lbs.)	Item
			L	B	G	H		
7/8	9/32"-5/16	5,700	4.7	1.4	0.8	1.1	2.2	7202593
10	3/8	8,800	5.6	1.7	1	1.3	4	7202602
13	1/2	15,000	7.0	2.1	1.3	1.6	6.8	7202611
16	5/8	22,600	8.5	2.4	1.5	2	12.3	7202620



OKE 100 Foundry Hook										
mm	Inch	WLL @ 60°	Inch						Wt. (Lbs.)	Item
			L	B	E	F	G	H		
7-8	9/32"-5/16	5,700	5.0	2.5	1.0	0.4	0.7	1.0	1.4	7204150
10	3/8	8,800	5.9	3.0	1.3	0.6	0.9	1.2	2.4	7204159
13	1/2	15,000	7.2	3.5	1.6	0.7	1.3	1.5	5.1	7204168
16	5/8	22,600	8.5	4.0	2.0	0.9	1.6	1.8	8.4	7204177



GG100 Grab Hooks						
mm	Inch	WLL @ 90°	Dim. In.		Wt. (Lbs.)	Item
			L	B		
7	9/32	4,300	2.2	0.4	0.7	7202692
8	5/16	5,700	2.2	0.4	1.1	7204411
10	3/8	8,800	3.1	0.5	2.2	7204420
13	1/2	15,000	3.8	0.6	4.4	7204429
16	5/8	22,600	4.9	0.8	8.4	7204438



# GUNNEBO

## LIFTING



We believe in innovation, but sometimes there is just nothing like the classics. Gunnebo "Classic" Grades 80 & 100 chain assemblies and accessories have been known as premium, reliable options for 200 years, down to the smallest component.

We know that selecting reliable equipment matters to you, and "Classic" components have stood the test of time.

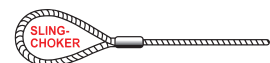
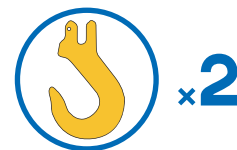
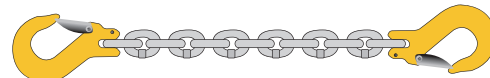
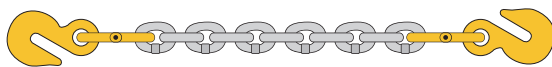
**Sling-Choker Mfg.** is dedicated to upholding the quality and safety standards of our products and their manufacturers. Aside from dealing with fully compliant suppliers and providing comprehensive specifications for everything we carry, our in house testing equipment helps us ensure you get the most reliable products on the market. With more than just rigging products, we're committed to offering **more than you think.**

Gunnebo Classic - Alloy Steel Chain Sling Working Load Limits								
Gunnebo G 100 Chain Size		Single Leg	Double Leg				Triple / Quad Leg	
mm	in	90°	90° - 60°	90° - 45°	90° - 30°	90° - 60°	90° - 45°	90° - 30°
5.5	7/32	2,700	4,700	3,800	2,700	7,000	5,700	4,000
7	9/32	4,300	7,400	6,100	4,300	11,200	9,100	6,400
8	5/16	5,700	9,900	8,100	5,700	14,800	12,100	8,500
10	3/8	8,800	15,200	12,400	8,800	22,900	18,700	13,200
13	1/2	15,000	26,000	21,200	15,000	39,000	31,800	22,500
16	5/8	22,600	39,100	32,000	22,600	58,700	47,900	33,900
20	3/4	35,300	61,100	49,900	35,300	91,700	74,900	53,000
22	7/8	42,700	74,000	60,400	42,700	110,900	90,600	64,000

Design Factor 4:1 • Working Load Limits are valid between temperatures of -40° and 400°F

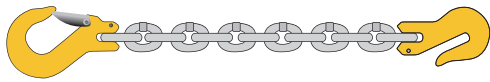
SGG Single Grab Hook each end-5 Foot		
mm	WLL	Item
7.0	4,300	GC-SGG-07X05
10.0	8,800	GC-SGG-10X05
13.0	15,000	GC-SGG-13X05
16.0	22,600	GC-SGG-16X05
20.0	28,300	GC-SGG-20X05

SSS Single Sling Hook each end-5 Foot		
mm	WLL	Item
7.0	4,300	GC-SSS-07X05
10.0	8,800	GC-SSS-10X05
13.0	15,000	GC-SSS-13X05
16.0	22,600	GC-SSS-16X05
20.0	28,300	GC-SSS-20X05

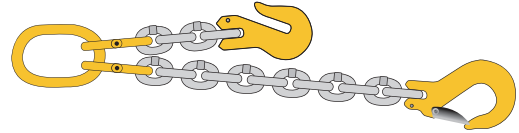




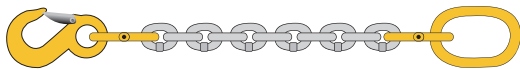
SGS Single Grab Hook & EGKN-5 Foot		
mm	WLL	Item
7.0	4,300	GC-SGS-07X05
10.0	8,800	GC-SGS-10X05
13.0	15,000	GC-SGS-13X05
16.0	22,600	GC-SGS-16X05
20.0	28,300	GC-SGS-20X05



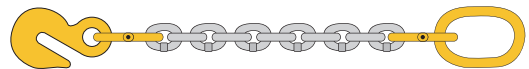
ASOS & EGKN Sling Hook-5 Foot		
mm	WLL	Item
19.0	4,300	GC-ASOS-07X05
20.0	8,800	GC-ASOS-10X05
21.0	15,000	GC-ASOS-13X05
22.0	22,600	GC-ASOS-16X05
23.0	28,300	GC-ASOS-20X05



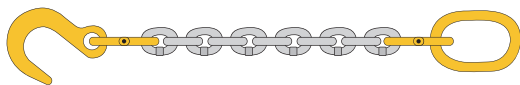
SOS Oblong Master & EGKN Sling Hook-5 Foot		
mm	WLL	Item
29.0	4,300	GC-SOS-07X05
30.0	8,800	GC-SOS-10X05
31.0	15,000	GC-SOS-13X05
32.0	22,600	GC-SOS-16X05
33.0	28,300	GC-SOS-20X05



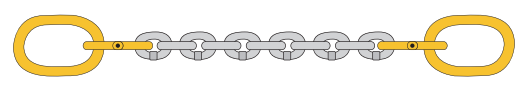
SOG Oblong Master & Grab Hook-5 Foot		
mm	WLL	Item
7.0	4,300	GC-SOG-07X05
10.0	8,800	GC-SOG-10X05
13.0	15,000	GC-SOG-13X05
16.0	22,600	GC-SOG-16X05
20.0	28,300	GC-SOG-20X05



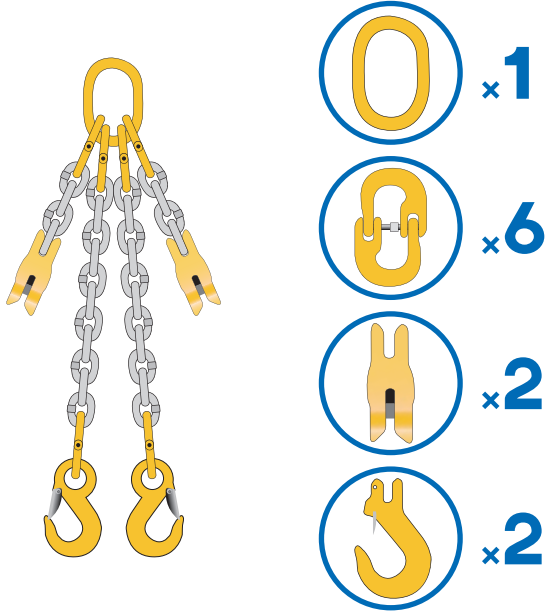
SOF Oblong Master & Foundry Hook-5 Foot		
mm	WLL	Item
7.0	4,300	GC-SOF-07X05
10.0	8,800	GC-SOF-10X05
13.0	15,000	GC-SOF-13X05
16.0	22,600	GC-SOF-16X05
20.0	28,300	GC-SOF-20X05



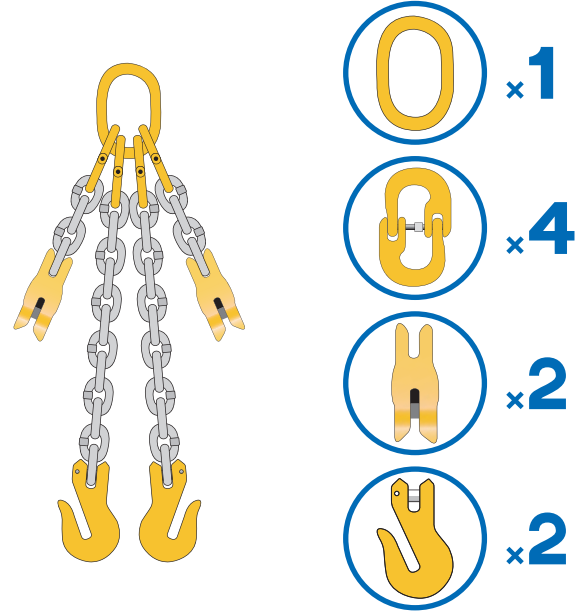
CO Alloy Chain Sling, Master Link each-5 Foot		
mm	WLL	Item
7.0	4,300	GC-CO-07X05
10.0	8,800	GC-CO-10X05
13.0	15,000	GC-CO-13X05
16.0	22,600	GC-CO-16X05
20.0	28,300	GC-CO-20X05



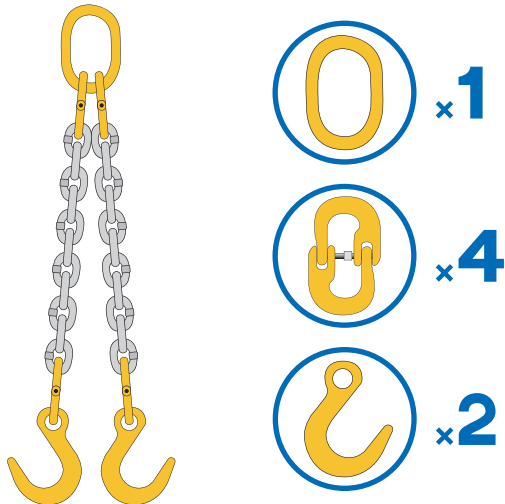
ADOS Double, Master, 3 Link Adjuster & EGKN Sling Hook-5 Foot		
mm	WLL @60°	Item
7.0	4,300	GC-ADOS-07X05
10.0	8,800	GC-ADOS-10X05
13.0	15,000	GC-ADOS-13X05
16.0	22,600	GC-ADOS-16X05



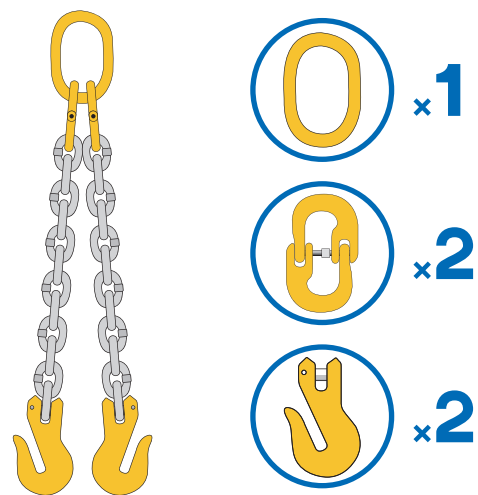
ADOG Double, Master- 3 Link Adjuster & Grab Hooks		
mm	WLL @60°	Item
7.0	8,600	GC-ADOG-07X05
10.0	17,600	GC-ADOG-10X05
13.0	30,000	GC-ADOG-13X05
16.0	45,200	GC-ADOG-16X05
20.0	56,600	GC-ADOG-20X05

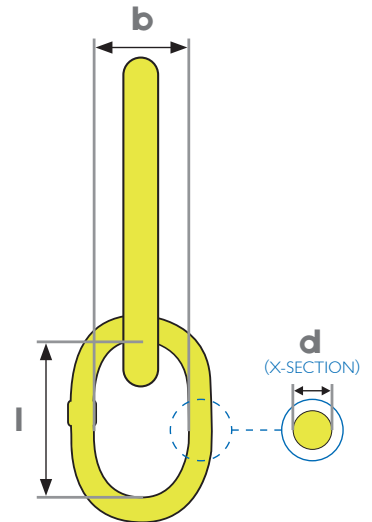
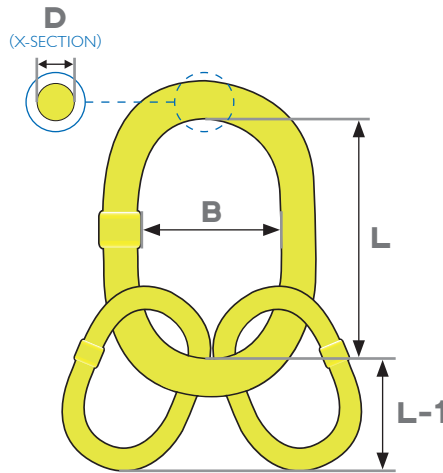
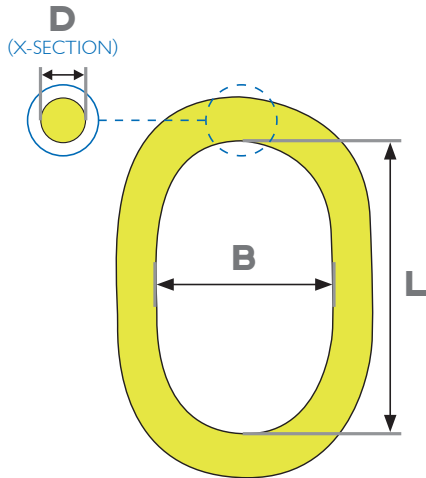


DOF Double, Master & Foundry Hooks-5 Foot		
mm	WLL @60°	Item
7.0	8,600	GC-DOF-07X05
10.0	17,600	GC-DOF-08X05
13.0	30,000	GC-DOF-10X05
16.0	45,200	GC-DOF-13X05
20.0	56,600	GC-DOF-16X05



DOG Double, Master & Grab Hooks-5 Foot		
mm	WLL @60°	Item
7.0	8,600	GC-DOG-07X05
10.0	17,600	GC-DOG-10X05
13.0	30,000	GC-DOG-13X05
16.0	45,200	GC-DOG-16X05
20.0	56,600	GC-DOG-20X05





Master Link Selection Table 1-2 Leg Slings				
Master	1-Leg-90°		2-Leg 60°	
	mm	WLL	mm	WLL
7201513.0	6.0	2,700		
7201522.0	7.0	4,300		
7201522.0	8.0	5,700	6.0	4,700
7201531.0	10.0	8,800	7.0	7,400
7201531.0			8.0	9,900
7201549.0	13.0	15,000		
7201549.0			10.0	15,200
7201558.0	16.0	22,600	13.0	26,000
7201576.0			16.0	39,100
7201567.0	20.0	35,300		
0			20	61,100

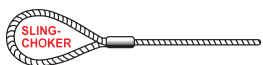
Design Factor 4:1

Master Links							
MM	Inch	WLL	L	B	D	Wt.	Item
11	3/8"	3,300	3.90	2.40	0.43	0.4	7201513
14	1/2"	7,000	4.70	2.80	0.55	0.9	7201522
17	5/8"	11,400	5.50	3.20	0.67	1.5	7201531
19	3/4"	12,300	5.90	3.50	0.75	2.2	7201540
22	7/8"	17,200	6.30	3.70	0.87	3.3	7201549
28	1"	29,900	7.50	4.30	0.99	4.9	7201558
30	1-1/4"	35,200	7.90	4.70	1.20	7.7	7201567
34	1-3/8"	45,300	9.50	5.50	1.30	11.0	7201576
38	1-1/2"	68,000	9.90	5.90	1.50	15.0	7201585
40	1-5/8"	70,400	9.90	5.90	1.60	18.0	0.0
45	1-3/4"	84,900	11.80	7.10	1.80	26.0	7201603
50	2"	102,600	11.80	7.90	2.00	33.0	7201612
55	2-1/4"	143,100	11.80	7.90	2.20	40.0	7201621
60	2-1/2"	160,000	13.80	7.90	2.40	55.0	7201630
70	2-3/4"	220,200	15.80	9.90	2.80	88.0	7201369
80	3-1/4"	275,300	15.80	9.90	3.20	117.0	7201648

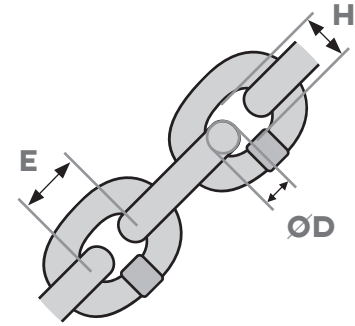
MT Sub Selection Table		
2-3 Leg Chain Slings		
Chain- Inch	Chain mm	WLL
7/32	6.0	7,000
9/32	7.0	11,200
5/16	8.0	14,800
3/8	10.0	22,900
1/2	13.0	39,000
5/8	16.0	58,700

Design Factor 4:1

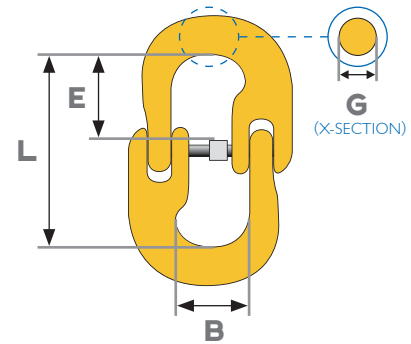
Sub Assemblies										
Size	WLL	L-1	L	B	D	l	b	d	Wt.	Item
3/4"	11,000	10.20	5.90	3.50	0.75	4.30	2.40	0.55	4.0	7201792
7/8"	17,600	11.80	6.30	3.70	0.87	5.50	3.20	0.67	6.2	7201801
1"	21,300	13.40	7.50	4.30	0.98	5.90	3.50	0.75	7.0	7201810
1-1/4"	35,200	14.20	7.90	4.70	1.20	6.30	3.70	0.87	13.0	7201819
1-5/8"	57,200	16.90	9.90	5.90	1.60	7.10	4.10	1.10	29.0	7201828
2"	77,000	19.70	11.80	7.90	2.00	7.90	4.30	1.30	51.0	7201837
2-1/4"	110,100	22.00	11.80	7.90	2.20	10.20	5.50	1.50	70.0	7201846
2-1/2"	165,100	24.00	13.80	7.90	2.40	10.20	5.50	1.80	100.0	7201855
2-3/4"	220,200	26.80	15.80	9.90	2.80	11.00	6.30	2.00	150.0	7201864
3-1/4"	275,300	26.80	15.80	9.90	3.10	11.00	6.30	2.20	190.0	7201873



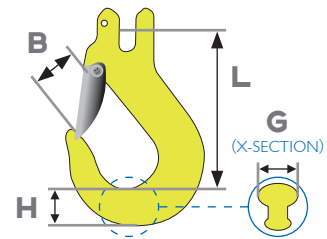
KLA Chain							
MM	Inch	WLL	D	E	H	Wt.	Item
7	9/32	4,300	0.28	0.83	0.39	0.74	7244911
8	5/16	5,700	0.32	0.95	0.45	1.51	-
10	3/8	8,800	0.39	1.20	0.55	1.51	7244920
13	1/2	15,000	0.51	1.50	0.71	2.53	7244929
16	5/8	22,600	0.63	1.90	0.87	3.83	7244938
20	3/4	35,300	0.77	2.20	1.00	5.58	7244947
22	7/8	34,200	0.87	2.60	1.20	7.38	7244956
26	1	47,700	1.00	3.10	1.40	9.96	7244965
32	1 1/4	72,300	1.26	3.80	1.70	15.75	-



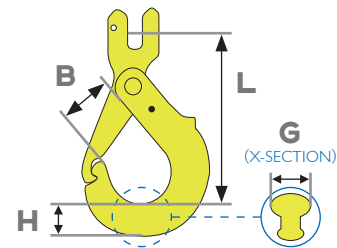
G Connectors								
mm	Size Inch	WLL	L	B	G	E	Wt.	Item
7	9/32	4,300	2.2	0.71	0.35	0.87	0.4	7202242
8	5/16	5,700	2.2	0.71	0.35	0.87	0.44	7202251
10	3/8	8,800	2.7	0.99	0.47	1	0.7	7202260
13	1/2	15,000	3.5	1.1	0.59	1.3	1.5	7202269
16	5/8	22,600	4.1	1.4	0.75	1.6	2.44	7202278
20	3/4	28,300	4.9	1.7	0.87	1.9	4	7202287
22	7/8	34,200	5.9	1.9	0.95	2.3	6.6	7202296
26	1	47,700	6.3	2.3	1.1	2.4	10.1	7202305
32	1 1/4	72,300	7.9	2.8	1.4	3.1	19	7202314



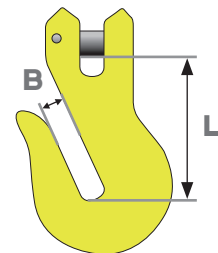
EGKN Hooks								
MM	Inch	WLL	L	B	G	H	Wt.	Item
7	9/32	4300	5.60	1.70	1.00	1.30	2.20	7202683
8	5/16	5,700	5.60	1.70	1.00	1.30	2.20	7204276
10	3/8	8,800	5.90	3.00	0.91	1.20	2.40	7204285
13	1/2	15,000	7.20	3.50	1.30	1.50	4.00	7204294
16	5/8	22,600	8.50	4.00	1.60	1.80	6.80	7204303



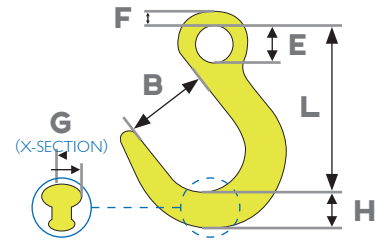
Grip Latch Self Locking Clevis Hook (GBK)								
MM	Inch	WLL	L	B	G	H	Wt.	Item
7	9/32	4,300	5.10	1.30	0.67	0.79	1.5	7202593
8	5/16	5,700	5.10	1.30	0.67	0.79	1.5	7202602
10	3/8	8,800	6.40	1.70	0.83	0.97	2.7	7202611
13	1/2	15,000	7.70	2.00	1.00	1.20	4.5	7202620
16	5/8	22,600	9.30	2.40	1.20	1.50	7.7	7202629



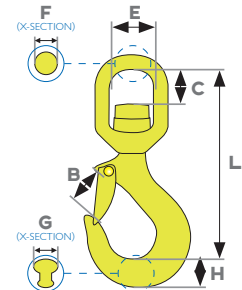
GG Grab Hook						
MM	Inch	WLL	L	B	Wt.	Item
7	9/32	4,300	2.20	0.39	0.6	7202692
8	5/16	5,700	2.20	0.39	0.6	7204411
10	3/8	8,800	3.10	0.51	1.8	7204420
13	1/2	15,000	3.80	0.63	3.3	7204429
16	5/8	22,600	4.90	0.79	6.2	7204438
20	3/4	28,300	5.70	0.89	10.6	7202944



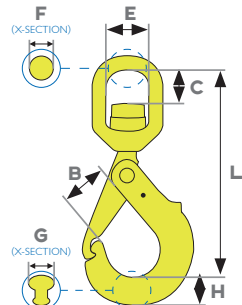
OKE Foundry Hook										
MM	Inch	WLL	L	B	E	F	G	H	Wt.	Item
7-8	9/32-5/16	5,700	5.00	2.50	0.99	0.43	0.71	1.00	1.4	7204150
10	3/8	8,800	5.90	3.00	1.30	0.55	0.91	1.20	2.4	7204159
13	1/2	15,000	7.20	3.50	1.60	0.71	1.30	1.50	5.1	7204168
16	5/8	22,600	8.50	4.00	2.00	0.87	1.60	1.80	8.4	7204177
20	3/4	28,300	9.70	4.50	2.40	1.00	1.80	2.00	13.0	7204186
26	1	47,700	12.00	4.50	2.60	1.50	2.50	2.90	37.5	7203772
32	1 1/4	72,300	15.10	5.70	3.20	1.90	3.00	3.70	77.0	7203286



GC LKNK Swivel Hooks with Ball Bearings											
MM	Inch	WLL	L	E	B	G	C	F	H	Wt.	Item
7	9/32	5,500	5.90	1.40	1.00	0.70	1.10	0.71	0.80	2.00	7203223
10	3/8	8,800	7.40	1.70	1.40	0.90	1.40	0.91	1.10	3.50	7203187
13	1/2	14,740	9.20	1.90	1.70	1.10	1.60	1.10	1.40	6.80	7203196
16	5/8	22,000	10.90	2.40	1.90	1.30	2.00	1.30	1.70	11.20	7203205

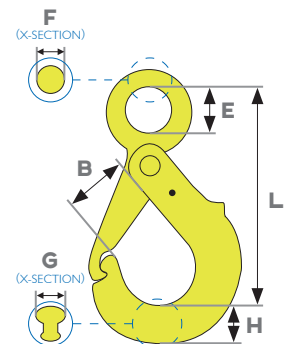


LKBK Safety Hook With Ball Bearing Swivel										
MM	Inch	WLL	L	B	C	F	G	H	WT.	Item
6	7/32	2,100	5.80	1.10	0.87	0.43	0.55	0.75	1.5	0
7-8	9/32	4,500	7.20	1.40	1.10	0.47	0.67	0.91	2.4	7202782
10	3/8	8,800	8.50	1.70	1.30	0.59	0.99	1.10	4.2	7202764
13	1/2	15,000	10.90	2.10	1.60	0.75	1.10	1.50	8.4	7202809
16	5/8	22,600	13.20	2.50	2.00	0.87	1.50	1.90	15.9	7202818
20	3/4	28,300	14.50	2.70	1.70	2.20	2.90	1.00	23.8	7286383



Note: 6.0mm & 20.0mm are BKLK

OBK Eye Safety Hook										
MM	Inch	WLL	L	B	E	F	G	H	Wt.	Item
6	7/32-5/16	2,100	4.10	1.00	0.87	0.35	0.55	0.67	0.9	7202696
8	9/32	4,500	5.10	1.30	0.99	0.39	0.67	0.79	1.5	7202917
10	3/8	7,100	6.40	1.70	1.30	0.49	0.83	0.97	2.7	7202926
13	1/2	12,000	7.70	2.00	1.60	0.59	1.00	1.20	4.5	7202935
16	5/8	18,100	9.30	2.40	2.00	0.75	1.20	1.50	7.7	7202908
20	3/4	28,300	11.50	2.80	2.30	1.10	1.40	1.90	10.2	-
22	7/8	34,200	13.20	3.40	2.80	0.95	1.60	2.20	29.2	-

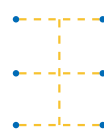


Bottom Lifting Container Hooks. LH, RH or Vertical (use with a bridle)										
Config.	WLL	K	E	F	T	G	H	Wt.	Item	
Straight	13.8	7.56	2.76	1.81	0.98	2.95	1.89	8.9	7203034	
Left 45°	13.8	7.56	2.76	1.81	0.98	2.95	1.89	8.9	7203043	

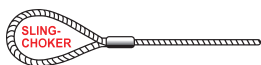
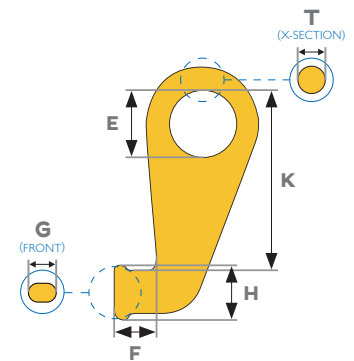
Design Factor is 4:1. Proof Tested and Certified

To ensure proper angle of container hooks, sling specifications are as follows:

**20' containers**  
Require slings equivalent to **7/8"x19'**  
Resulting in head room of **9-1/2'**



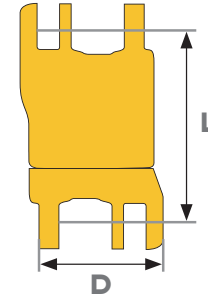
**40' containers**  
Require slings equivalent to **1"x32'**  
Resulting in head room of **12-1/2'**



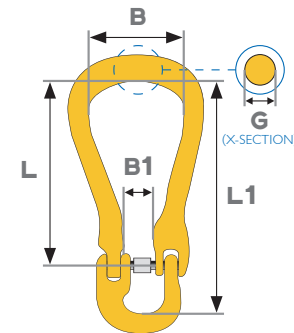
The **SK SYSTEM** allows for the fabrication of a large family of special components to be mixed and matched into a variety of lifting systems. The available SK components permit joining Grade 80 alloy steel chain, wire rope, and synthetic sling materials into single systems.

Master links, swivels, and sling hooks can be directly joined without any chain, synthetic, or wire rope material.

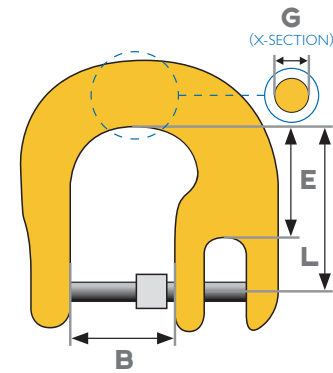
SKLI Insulated Swivel						
mm	Size In.	WLL Lbs	L	D	Wt.	Item
8	9/32"	4,500	3.00	1.90	1.5	7245145
10	3/8"	7,100	3.80	2.30	3.1	7245154
13	1/2"	12,000	4.70	3.00	6.4	7245163
16	5/8"	18,100	5.40	3.50	10.8	7245172
20	3/4"	28,300	6.30	4.10	15.9	7245190



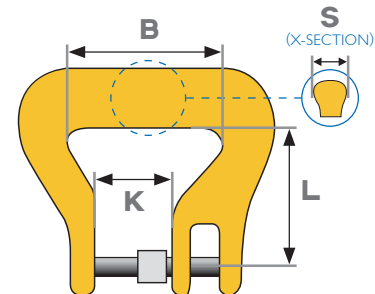
SKO Master Link									
mm	Size In.	WLL Lbs	L	LI	B	G	BI	Wt.	Item
7-8	9/32"	4,500	3.90	5.00	2.00	0.55	0.59	0.7	7245829
10	3/8"	7,100	5.00	6.30	2.60	0.71	0.79	1.3	7245838
13	1/2"	12,000	5.70	7.40	2.80	0.87	0.99	2.4	7245847
16	5/8"	18,100	6.90	8.90	3.20	0.99	1.20	3.5	7245856
20	3/4"	28,300	8.00	10.50	4.10	1.20	5.90	5.9	7245865



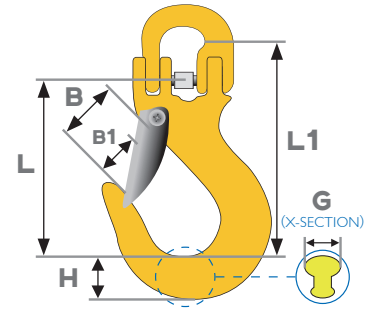
SKT Half Links							
mm	Size In.	WLL Lbs	L	B	E	Wt.	Item
7	9/32"	4,300	1.10	0.71	0.87	0.20	0
8	5/16"	5,700	1.10	0.71	0.87	0.20	7245937
10	3/8"	8,800	1.30	0.99	1.00	0.40	7245946
13	1/2"	15,000	1.70	1.10	1.30	0.90	7245955
16	5/8"	22,600	2.00	1.40	1.60	1.40	7245964
20	3/4"	28,300	2.50	1.70	1.90	2.40	7245973
22	7/8"	34,200	2.95	1.93	2.32	3.80	7245982
26	1"	47,700	3.15	2.28	2.40	5.70	7245991
32	1-1/4"	72,300	3.94	2.75	3.07	10.80	7246000



SKR Connectors with Pin								
mm	Chain Size In.	WLL Lbs	L	B	K	S	Wt.	Item
7/8	9/32"-5/16"	4,500	1.40	1.60	0.71	0.95	0.4	7245874
10	3/8"	7,100	1.70	1.90	0.95	1.10	0.8	7245883
13	1/2"	12,000	2.00	2.10	1.10	1.40	1.4	7245892
16	5/8"	18,100	2.40	2.60	1.40	1.70	2.6	7245901
20	3/4"	28,300	2.80	3.20	1.70	2.00	4.2	7245910
22	7/8"	34,200	4.30	4.90	1.90	2.70	10.6	7245919
26	1"	47,700	5.10	5.90	2.30	3.40	18.7	7245928

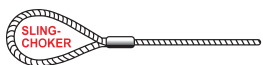


SKN Sling Hooks										
MM	Inch	WLL	L	LI	B	BI	G	H	Wt.	Item
7-8	9/32"-5/16"	4,500	3.50	4.60	1.30	1.10	0.71	0.83	0.9	0.0
10	3/8"	7,100	4.50	5.80	1.60	1.30	0.91	1.10	1.9	0.0
13	1/2"	12,000	5.60	7.30	1.90	1.70	1.10	1.40	4.0	0.0
16	5/8"	18,100	6.50	8.50	2.20	1.90	1.30	1.70	7.0	0.0
20	3/4"	28,300	7.40	9.80	2.60	2.30	1.70	2.00	11.0	0.0



## OUR LOCATIONS

**SLING-CHOKER**  
MANUFACTURING



# X100 CHAIN & CHAIN SLINGS





# X100 Chain Sling Configurations

SOO - QOSA

## X100 SOO



X100 SOO Chain Sling - 5 Foot		
Chain Size	WLL	Item
9/32"	4,300lbs	SOO-07X05
5/16"	5,700lbs	SOO-08X05
3/8"	8,800lbs	SOO-10X05
1/2"	15,000lbs	SOO-13X05
5/8"	22,600lbs	SOO-16X05
3/4"	35,300lbs	SOO-19X05

## X100 SOS



X100 SOS Chain Sling - 5 Foot		
Chain Size	WLL	Item
9/32"	4,300lbs	SOS-07X05
5/16"	5,700lbs	SOS-08X05
3/8"	8,800lbs	SOS-10X05
1/2"	15,000lbs	SOS-13X05
5/8"	22,600lbs	SOS-16X05
3/4"	35,300lbs	SOS-19X05

## X100 SOG



X100 SOG Chain Sling - 5 Foot		
Chain Size	WLL	Item
9/32"	4,300lbs	SOG-07X05
5/16"	5,700lbs	SOG-08X05
3/8"	8,800lbs	SOG-10X05
1/2"	15,000lbs	SOG-13X05
5/8"	22,600lbs	SOG-16X05
3/4"	35,300lbs	SOG-19X05

## X100 SSS



X100 SSS Chain Sling - 5 Foot		
Chain Size	WLL	Item
9/32"	4,300lbs	SSS-07X05
5/16"	5,700lbs	SSS-08X05
3/8"	8,800lbs	SSS-10X05
1/2"	15,000lbs	SSS-13X05
5/8"	22,600lbs	SSS-16X05
3/4"	35,300lbs	SSS-19X05

## X100 SGG



X100 SGG Chain Sling - 5 Foot		
Chain Size	WLL	Item
9/32"	4,300lbs	SGG-07X05
5/16"	5,700lbs	SGG-08X05
3/8"	8,800lbs	SGG-10X05
1/2"	15,000lbs	SGG-13X05
5/8"	22,600lbs	SGG-16X05
3/4"	35,300lbs	SGG-19X05

## X100 SGS



X100 SGS Chain Sling - 5 Foot		
Chain Size	WLL	Item
9/32"	4,300lbs	SGS-07X05
5/16"	5,700lbs	SGS-08X05
3/8"	8,800lbs	SGS-10X05
1/2"	15,000lbs	SGS-13X05
5/8"	22,600lbs	SGS-16X05
3/4"	35,300lbs	SGS-19X05

## X100 SOSA



X100 SOSA Chain Sling - 5 Foot		
Chain Size	WLL	Item
9/32"	4,300lbs	SOSA-07X05
5/16"	5,700lbs	SOSA-08X05
3/8"	8,800lbs	SOSA-10X05
1/2"	15,000lbs	SOSA-13X05
5/8"	22,600lbs	SOSA-16X05
3/4"	35,300lbs	SOSA-19X05

## X100 DOS



X100 DOS Chain Sling - 5 Foot		
Chain Size	WLL @ 60°	Item
9/32"	7,400lbs	DOS-07X05
5/16"	9,900lbs	DOS-08X05
3/8"	15,200lbs	DOS-10X05
1/2"	26,000lbs	DOS-13X05
5/8"	39,100lbs	DOS-16X05
3/4"	61,100lbs	DOS-19X05

## X100 Chain Sling Configurations

DOG - QOSA

### X100 DOG



X100 DOG Chain Sling - 5 Foot		
Chain Size	WLL @ 60°	Item
9/32"	7,400lbs	DOG-07X05
5/16"	9,900lbs	DOG-08X05
3/8"	15,200lbs	DOG-10X05
1/2"	26,000lbs	DOG-13X05
5/8"	39,100lbs	DOG-16X05
3/4"	61,100lbs	DOG-19X05

### X100 DOSA



X100 DOSA Chain Sling - 5 Foot		
Chain Size	WLL @ 60°	Item
9/32"	7,400lbs	DOSA-07X05
5/16"	9,900lbs	DOSA-08X05
3/8"	15,200lbs	DOSA-10X05
1/2"	26,000lbs	DOSA-13X05
5/8"	39,100lbs	DOSA-16X05
3/4"	61,100lbs	DOSA-19X05

### X100 TOS



X100 TOS Chain Sling - 5 Foot		
Chain Size	WLL @ 60°	Item
9/32"	11,200lbs	TOS-07X05
5/16"	14,800lbs	TOS-08X05
3/8"	22,900lbs	TOS-10X05
1/2"	39,000lbs	TOS-13X05
5/8"	58,700lbs	TOS-16X05
3/4"	91,700lbs	TOS-19X05

### X100 TOG



X100 TOG Chain Sling - 5 Foot		
Chain Size	WLL @ 60°	Item
9/32"	11,200lbs	TOG-07X05
5/16"	14,800lbs	TOG-08X05
3/8"	22,900lbs	TOG-10X05
1/2"	39,000lbs	TOG-13X05
5/8"	58,700lbs	TOG-16X05
3/4"	91,700lbs	TOG-19X05

### X100 QOS



X100 QOS Chain Sling - 5 Foot		
Chain Size	WLL @ 60°	Item
9/32"	11,200lbs	QOS-07X05
5/16"	14,800lbs	QOS-08X05
3/8"	22,900lbs	QOS-10X05
1/2"	39,000lbs	QOS-13X05
5/8"	58,700lbs	QOS-16X05
3/4"	91,700lbs	QOS-19X05

### X100 QOG



X100 QOG Chain Sling - 5 Foot		
Chain Size	WLL @ 60°	Item
9/32"	11,200lbs	QOG-07X05
5/16"	14,800lbs	QOG-08X05
3/8"	22,900lbs	QOG-10X05
1/2"	39,000lbs	QOG-13X05
5/8"	58,700lbs	QOG-16X05
3/4"	91,700lbs	QOG-19X05

### X100 QOSA



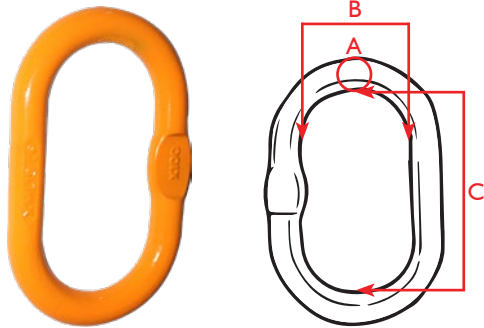
X100 QOSA Chain Sling - 5 Foot		
Chain Size	WLL @ 60°	Item
9/32"	11,200lbs	QOSA-07X05
5/16"	14,800lbs	QOSA-08X05
3/8"	22,900lbs	QOSA-10X05
1/2"	39,000lbs	QOSA-13X05
5/8"	58,700lbs	QOSA-16X05
3/4"	91,700lbs	QOSA-19X05

### X100 Self Locking Hooks



X100 Self Locking Hooks		
Chain Size	WLL @ 60°	Item
9/32"	4,300lbs	XCSSL281
5/16"	5,700lbs	XCSSL312
3/8"	8,800lbs	XCSSL375
1/2"	15,000lbs	XCSSL500
5/8"	22,600lbs	XCSSL625
3/4"	35,300lbs	XCSSL750

X100 Master Link								
Item	Size	Size A	Size B	Size C	Single Leg Sling Chain Size (in)	Double Leg Sling Chain Size (in)	5:1 WLL (lbs)	4:1 WLL (lbs)
XML13	1/2"	0.51"	2.77"	5.00"	9/32"	-	4,800	6,000
XML16	5/8"	0.63"	2.77"	6.00"	5/16"	9/32"	6,880	8,600
XML19	3/4"	0.71"	2.95"	6.00"	3/8"	5/16"	10,320	12,900
XML22	7/8"	0.91"	3.54"	6.30"	1/2"	3/8"	14,080	17,600
XML26	1"	1.06"	3.65"	7.09"	5/8"	1/2"	24,000	30,000
XML32	1 1/4"	1.30"	4.33"	8.80"	3/4"	5/8"	31,280	39,100
XML38	1 1/2"	1.42"	5.51"	10.90"	-	3/4"	48,880	61,100
XML45	1 3/4"	1.77"	7.09"	13.39"	-	-	63,440	79,300
XML50	2"	1.97"	7.48"	13.78"	-	-	82,880	103,600

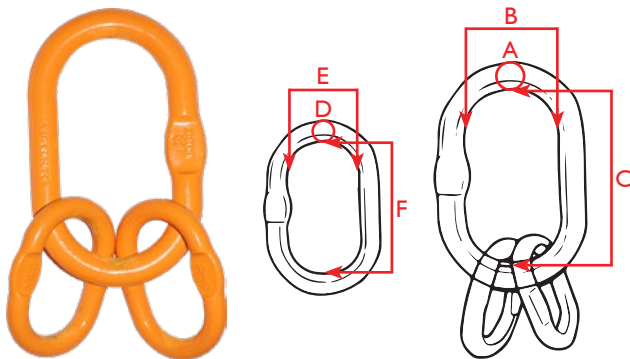


## X100 Master Link

### Item# - Item#

- Approved for overhead lifting
- Forged alloy steel
- Quenched and tempered
- Powder coated HI-VIZ safety orange
- 100% proof tested at 2.5 times the working load limit
- 100% mag-particle crack detection
- With flat spot

X100 Master Link Sub Assembly									
Item	Size	Size A	Size B	Size C	Size D	Size E	Size F	Triple/Quad Leg Sling Chain Size (in)	4:1 WLL (lbs)
XMLSA19	3/4"	0.75"	2.77"	5.51"	0.51"	1.54"	3.26"	9/32"	11,200
XMLSA22	7/8"	0.91"	3.54"	6.30"	0.65"	1.54"	3.26"	5/16"	15,200
XMLSA26	1"	1.06"	3.62"	7.21"	0.75"	2.15"	4.00"	3/8"	26,000
XMLSA32	1 1/4"	1.30"	4.33"	8.78"	0.91"	2.26"	4.00"	1/2"	39,000
XMLSA38	1 1/2"	1.50"	5.51"	10.90"	1.06"	4.06"	7.20"	5/8"	61,100



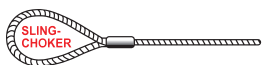
## X100 Master Link Sub Assemblies

### Item# - Item#

- Approved for overhead lifting
- Forged alloy steel
- Quenched and tempered
- Powder coated HI-VIZ safety orange
- 100% proof tested at 2.5 times the working load limit
- 100% mag-particle crack detection
- For use in fabricating 3 & 4 leg chain slings
- With flat spot

X100 Master Link Oversized Sub Assembly										
Item	Size	Size A	Size B	Size C	Size D	Size E	Size F	Triple/Quad Leg Sling Chain Size (in)	5:1 WLL (lbs)	4:1 WLL (lbs)
XMLOSSA19i	3/4"	0.787"	3.74"	6.29"	0.551"	2.75"	4.72"	9/32"	8,960	11,200
XMLOSSA22i	7/8"	0.905"	4.33"	6.29"	0.629"	3.15"	5.51"	5/16"	12,160	15,200
XMLOSSA26i	1"	1.06"	4.33"	7.48"	0.787"	3.74"	6.29"	3/8"	18,320	26,000
XMLOSSA32i	1 1/4"	1.30"	5.11"	9.05"	1.063"	4.33"	7.48"	1/2"	31,760	39,000
XMLOSSA38i	1 1/2"	1.49"	5.91"	10.82"	1.496"	5.11"	9.05"	5/8"	48,880	61,100

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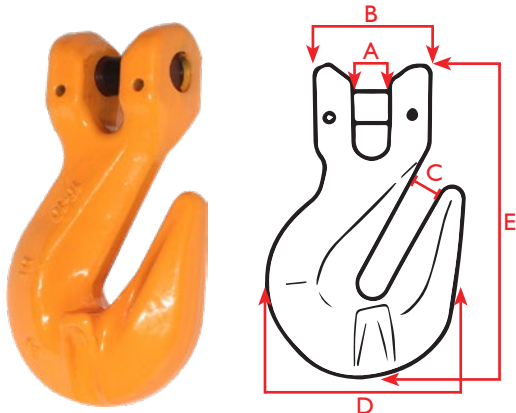


X100 Master Link with Adjusters Single Leg					
Item	Size	Size A	Size B	Size C	4:1 WLL (lbs)
XV1-7i	9/32"	0.551"	2.75"	4.72"	4,300
XV1-8i	5/16"	0.551"	2.75"	4.72"	5,700
XV1-10i	3/8"	0.669"	3.15"	5.51"	8,800
XV1-13i	1/2"	0.866"	3.74"	6.29"	15,000
XV1-16i	5/8"	0.984"	4.33"	7.48"	22,600

X100 Master Link with Adjusters Double Leg					
Item	Size	Size A	Size B	Size C	WLL @ 60° (lbs)
XV2-7i	9/32"	0.669"	3.15"	5.51"	7,400
XV2-8i	5/16"	0.669"	3.15"	5.51"	9,900
XV2-10i	3/8"	0.866"	3.74"	6.29"	15,200
XV2-13i	1/2"	0.984"	4.33"	7.48"	26,000
XV2-16i	5/8"	1.26"	5.11"	9.05"	39,100

X100 Master Link with Adjusters Triple/Quad Leg					
Item	Size	Size A	Size B	Size C	WLL @ 60° (lbs)
XV4-7i	9/32"	0.669"	3.15"	5.51"	11,200
XV4-8i	5/16"	0.669"	3.15"	5.51"	14,800
XV4-10i	3/8"	0.866"	3.74"	6.29"	22,900
XV4-13i	1/2"	0.984"	4.33"	7.48"	39,000
XV4-16i	5/8"	1.26"	5.11"	9.05"	58,700

X100 Clevis Grab Hook with Cradle								
Item	Size	Size A	Size B	Size C	Size D	Size E	Chain Size (in)	4:1 WLL (lbs)
XCG281	9/32"	0.31"	1.30"	0.35"	1.77"	3.03"	9/32"	4,300
XCG312	5/16"	0.37"	1.42"	0.43"	2.09"	3.70"	5/16"	5,700
XCG375	3/8"	0.47"	1.87"	0.53"	2.89"	5.03"	3/8"	8,800
XCG500	1/2"	0.59"	2.32"	0.65"	3.78"	6.44"	1/2"	15,000
XCG625	5/8"	0.72"	2.76"	0.76"	4.43"	7.22"	5/8"	22,600
XCG750	3/4"	0.90"	3.30"	0.91"	5.32"	8.90"	3/4"	35,300



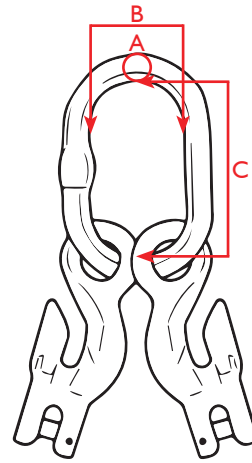
## Master Link with Adjusters Single Leg

### XV1-7i - 16i

- Approved for overhead lifting
- Forged alloy steel
- Quenched & tempered
- Powder coated HI-VIZ safety orange
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection



**WARNING:** ADJUSTER HOOK IS NOT TO BE USED IN A BASKET APPLICATION. ADJUSTER HOOK SHOULD ONLY BE USED FOR LEG LENGTH ADJUSTMENT.

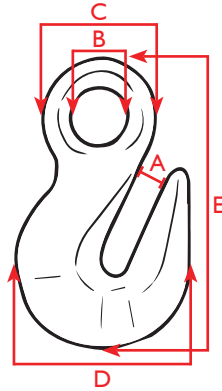


## Clevis Grab Hook with Cradle

### XCG281 - XCG750

- Approved for overhead lifting
- Forged alloy steel
- Quenched & tempered
- Powder coated HI-VIZ safety orange
- All load pins are 100% individually inspected
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection
- Double retaining pin designed for reduced pin wear

X100 Clevis Grab Hook with Cradle								
Item	Size	Size A	Size B	Size C	Size D	Size E	Chain Size (in)	4:1 WLL (lbs)
XEG281	9/32"	0.33"	0.59"	1.22"	1.73"	2.87"	9/32"	4,300
XEG312	5/16"	0.43"	0.71"	1.46"	2.13"	3.60"	5/16"	5,700
XEG375	3/8"	0.51"	0.85"	1.91"	2.83"	4.93"	3/8"	8,800
XEG500	1/2"	0.58"	1.10"	2.32"	3.78"	6.42"	1/2"	15,000
XEG625	5/8"	0.71"	1.42"	2.91"	4.43"	7.20"	5/8"	22,600
XEG750	3/4"	0.90"	1.72"	3.52"	5.28"	8.78"	3/4"	35,300

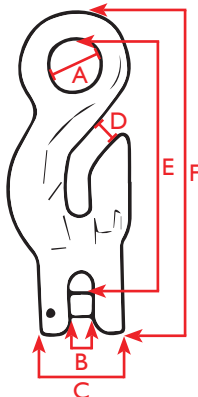


## Clevis Grab Hook with Cradle

### XEG281 - XEG750

- Approved for overhead lifting
- Forged alloy steel
- Quenched & tempered
- Powder coated HI-VIZ safety orange
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection

X100 Eye Grab Adjuster Hook									
Item	Size	Size A	Size B	Size C	Size D	Size E	Size F	Chain Size (in)	4:1 WLL (lbs)
XEG281ADJ	9/32"	0.94"	0.36"	1.42"	0.39"	4.57"	5.71"	9/32"	5,700
XEG312ADJ	5/16"	0.94"	0.36"	1.42"	0.39"	4.57"	5.71"	5/16"	5,700
XEG375ADJ	3/8"	1.18"	0.49"	1.89"	0.49"	5.71"	7.30"	3/8"	8,800
XEG500ADJ	1/2"	1.42"	0.63"	2.34"	0.61"	7.01"	8.78"	1/2"	15,000
XEG625ADJ	5/8"	1.77"	0.75"	2.76"	0.75"	8.50"	10.75"	5/8"	22,600
XEG750ADJ	3/4"	2.20"	1.01"	3.56"	1.38"	11.24"	13.82"	3/4"	35,300



## Eye Grab Adjuster Hook

### XEG281ADJ - XEG750ADJ

- Approved for overhead lifting
- Forged alloy steel
- Quenched & tempered
- Powder coated HI-VIZ safety orange
- All load pins are 100% individually inspected
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection

X100 Replacement Latch Kits			
Item	Size	Finish	Material
XLK281	9/32"	Powder Coated	Forged
XLK312	5/16"	Powder Coated	Forged
XLK375	3/8"	Powder Coated	Forged
XLK500	1/2"	Powder Coated	Forged
XLK625	5/8"	Powder Coated	Cast
XLK750	3/4"	Powder Coated	Cast

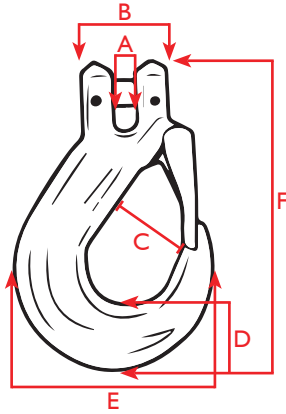


## Replacement Latch Kits

### Forged - Cast

- Latch kits include latch, spring, and pin
- Kits fit both clevis and eye types

X100 Clevis Sling Hook with Latch									
Item	Size	Size A	Size B	Size C	Size D	Size E	Size F	Chain Size (in)	4:1 WLL (lbs)
XCS281	9/32"	0.31"	1.30"	0.93"	0.87"	2.79"	4.52"	9/32"	4,300
XCS312	5/16"	0.34"	1.30"	1.14"	0.90"	3.13"	5.36"	5/16"	5,700
XCS375	3/8"	0.65"	1.78"	1.31"	1.25"	3.83"	6.83"	3/8"	8,800
XCS500	1/2"	0.59"	2.06"	1.74"	1.48"	4.83"	7.99"	1/2"	15,000
XCS625	5/8"	0.72"	2.77"	1.75"	2.08"	6.12"	9.63"	5/8"	22,600
XCS750	3/4"	0.98"	3.34"	1.98"	2.36"	7.40"	11.45"	3/4"	35,300

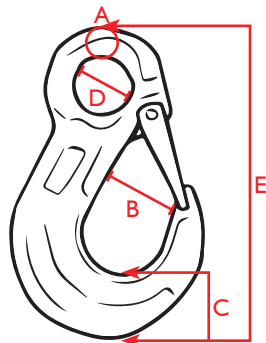


## Clevis Sling Hook with Latch

### XCS281 - XCS750

- Approved for overhead lifting
- Forged alloy steel
- Quenched & tempered
- Powder coated HI-VIZ safety orange
- All load pins are 100% individually inspected
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection
- Double retaining pin designed for reduced pin wear
- Forged, heavy duty latch and spring (preassembled)

X100 Eye Sling Hook with Latch								
Item	Size	Size A	Size B	Size C	Size D	Size E	Chain Size (in)	4:1 WLL (lbs)
XES281	9/32"	0.39"	0.93"	0.87"	0.83"	4.64"	9/32"	4,300
XES312	5/16"	0.43"	0.98"	1.08"	0.98"	5.41"	5/16"	5,700
XES375	3/8"	0.58"	1.16"	1.08"	1.22"	6.70"	3/8"	8,800
XES500	1/2"	0.78"	1.65"	1.47"	1.50"	8.10"	1/2"	15,000
XES625	5/8"	0.96"	1.78"	2.03"	2.00"	10.25"	5/8"	22,600
XES750	3/4"	1.08"	1.97"	2.30"	2.13"	11.60"	3/4"	35,300



## Eye Sling Hook with Latch

### XES281 - XES750

- Approved for overhead lifting
- Forged alloy steel
- Quenched & tempered
- Powder coated HI-VIZ safety orange
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection
- Forged, heavy duty latch and spring (preassembled)

X100 Self-Locking Hook Replacement Trigger Kit		
Item	Size	Finish
XTK281	9/32"	Powder Coated
XTK312	5/16"	Powder Coated
XTK375	3/8"	Powder Coated
XTK500	1/2"	Powder Coated
XTK625	5/8"	Powder Coated
XTK750	3/4"	Powder Coated

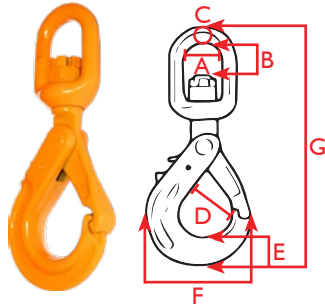


## Self-Locking Hook Replacement Trigger Kit

### Forged - Cast

- Forged trigger kit includes trigger, spring, and pin
- Kit fits clevis, eye, and swivel types

X100 Swivel Self-Locking Hook										
Item	Size	Size A	Size B	Size C	Size D	Size E	Size F	Size G	Chain Size (in)	4:1 WLL (lbs)
XSSL281-312	9/32" - 5/16"	1.42"	1.04"	0.51"	1.50"	0.94"	3.70"	8.80"	5/16"	5,700
XSSL375	3/8"	1.65"	1.38"	0.63"	1.88"	1.23"	4.50"	10.45"	3/8"	8,800
XSSL500	1/2"	1.91"	1.89"	0.73"	2.11"	1.59"	5.52"	12.99"	1/2"	15,000
XSSL625	5/8"	2.40"	2.20"	0.85"	2.44"	1.99"	6.71"	16.26"	5/8"	22,600

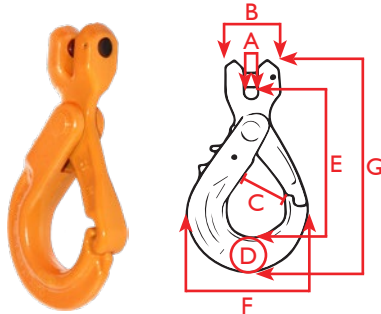


## Swivel Self-Locking Hook

### XSSL281 - XSSL625

- Approved for overhead lifting
- Forged alloy steel, quenched & tempered
- Powder coated HI-VIZ safety orange
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection
- With bronze bushing

X100 Clevis Self-Locking Hook										
Item	Size	Size A	Size B	Size C	Size D	Size E	Size F	Size G	Chain Size (in)	4:1 WLL (lbs)
XCSSL281	9/32"	0.31"	1.30"	1.18"	0.83"	3.93"	2.95"	5.43"	9/32"	4,300
XCSSL312	5/16"	0.37"	1.53"	1.54"	0.92"	4.67"	3.68"	6.30"	5/16"	5,700
XCSSL375	3/8"	0.47"	1.92"	1.93"	1.23"	5.80"	4.43"	7.95"	3/8"	8,800
XCSSL500	1/2"	0.59"	2.41"	2.03"	1.59"	6.85"	5.45"	9.61"	1/2"	15,000
XCSSL625	5/8"	0.73"	2.91"	2.71"	1.85"	7.95"	6.80"	11.22"	5/8"	22,600
XCSSL750	3/4"	0.98"	3.35"	3.01"	2.44"	9.25"	7.58"	13.29"	3/4"	35,300

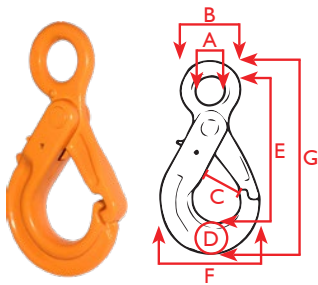


## Clevis Self-Locking Hook

### XCSSL281 - XCSSL750

- Approved for overhead lifting
- Forged alloy steel, quenched & tempered
- Powder coated HI-VIZ safety orange
- All load pins are 100% individually inspected and tested
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection

X100 Eye Self-Locking Hook										
Item	Size	Size A	Size B	Size C	Size D	Size E	Size F	Size G	Chain Size (in)	4:1 WLL (lbs)
XESL281	9/32"	0.87"	1.73"	1.18"	0.83"	4.52"	2.95"	5.87"	9/32"	4,300
XESL312	5/16"	1.06"	2.01"	1.51"	0.91"	5.26"	3.70"	6.70"	5/16"	5,700
XESL375	3/8"	1.36"	2.53"	1.90"	1.18"	6.45"	4.42"	8.37"	3/8"	8,800
XESL500	1/2"	1.57"	3.15"	2.04"	1.59"	8.00"	5.33"	10.30"	1/2"	15,000
XESL625	5/8"	1.97"	4.09"	2.71"	1.84"	9.70"	6.50"	12.60"	5/8"	22,600

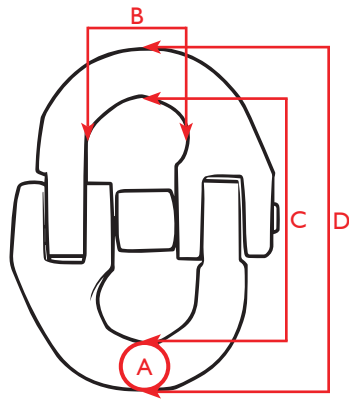


## Eye Self-Locking Hook

### XES281 - XES750

- Approved for overhead lifting
- Forged alloy steel, quenched & tempered
- Powder coated HI-VIZ safety orange
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection



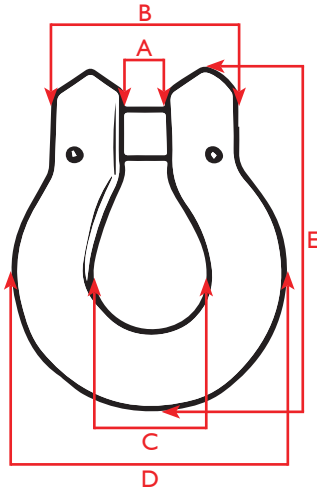


X100 Coupling Link							
Item	Size	Dimensions				4:1 WLL (lbs)	
		A	B	C	D		
XCL281	9/32"	0.30"	0.55"	1.75"	2.36"	4,300	
XCL312	5/16"	0.40"	0.84"	2.42"	3.25"	5,700	
XCL375	3/8"	0.50"	1.02"	2.70"	3.71"	8,800	
XCL500	1/2"	0.64"	1.23"	3.50"	4.83"	15,000	
XCL625	5/8"	0.78"	1.44"	4.06"	5.71"	22,600	
XCL750	3/4"	0.97"	1.79"	4.74"	6.89"	22,600	

## Coupling Link

### XCL281 - XCL750

- Approved for overhead lifting
- Forged alloy steel, quenched & tempered
- Powder coated HI-VIZ safety orange
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection



X100 Omega Link							
Item	Size	Dimensions					4:1 WLL (lbs)
		A	B	C	D	E	
XOL281	9/32"	0.41"	1.65"	0.94"	2.36"	2.89"	5,700
XOL312	5/16"	0.41"	1.65"	0.94"	2.36"	2.89"	5,700
XOL375	3/8"	0.49"	1.91"	1.22"	2.76"	3.54"	8,800
XOL500	1/2"	0.63"	2.36"	1.52"	3.54"	4.29"	15,000
XOL625	5/8"	0.75"	2.97"	2.01"	4.41"	5.57"	22,600

## Omega Link

### XOL281 - XOL750

- Approved for overhead lifting
- Forged alloy steel, quenched & tempered
- Powder coated HI-VIZ safety orange
- All load pins are 100% individually inspected and tested
- 100% proof tested at 2.5 times WLL
- 100% mag-particle crack detection
- Double retaining pin designed for reduced pin wear

## X100 Grade 100 Chain

### X100281 - X100750

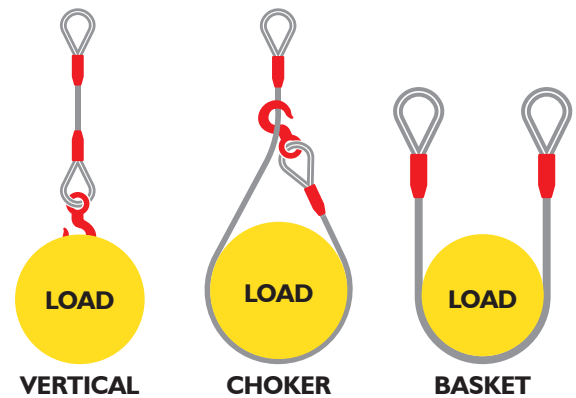
- Every link has been proof tested to 2 times the working load
- All X100 Grade 100 Chain is made from 8620 alloy steel and meets or exceeds all existing OSHA, Government, and NACM specification requirements
- X100 chain is suitable for cargo control and overhead lifting
- X100 Grade 100 Chain Sling Assemblies are compliant with ASME B30.9





# RIGGING FUNDAMENTALS - BASIC HITCHES

**VERTICAL**, or straight, attachment is simply using a sling to connect a lifting hook to a load. Full rated lifting capacity of the sling may be utilized, but must never be exceeded. A tagline should be used to prevent load rotation which may damage a sling. When two or more slings are attached to the same lifting hook, the total hitch becomes, in effect, a lifting bridle. **CHOKER** hitches reduce the lifting capability of a sling, since this method of rigging affects the ability of the wire rope components to adjust during the lift. A choker is used when the load will not be seriously damaged by the sling body - or the sling damaged by the load - and when the lift requires the sling to snug up against the load.

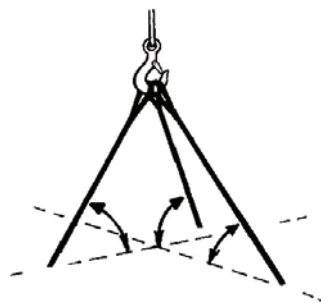


The angle of the bend where the sling contacts the load should keep the point of choke against the sling **BODY** – never against a splice or the base of the eye. When a choke is used at an angle of less than 120 degrees (see page 5) the sling rated capacity must be adjusted downward. A choker hitch should be pulled tight before a lift is made – **NOT PULLED DOWN DURING THE LIFT**. It is also dangerous to use only one choker hitch to lift a load which might shift or slide out of the choke.

**BASKET** hitches distribute a load equally between the two vertical legs of a sling.

## CALCULATING LOAD ON EACH LEG OF A SLING

Leg Angle °	Load Factor
90	1.000
85	1.003
80	1.015
75	1.035
70	1.064
65	1.103
60	1.154
55	1.220
50	1.305
45	1.414
40	1.555
35	1.743
30	2.000

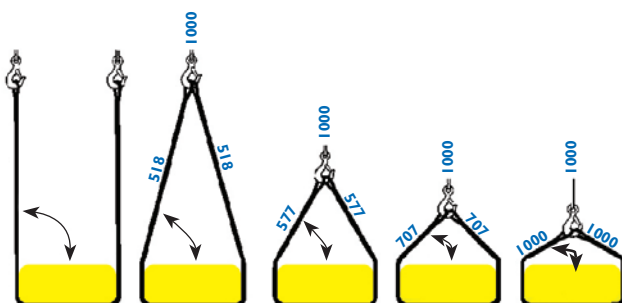


As the included angle between the legs of a sling increases, the load on each increases. The effect is the same whether a single sling is used as a basket, or two slings are used with each in a straight pull, as with a 2-legged bridle. Anytime pull is exerted at an angle on a leg – or legs – of a sling, the load per leg can be determined by using the data in the table at right. Proceed as follows to calculate this load – and determine the rated capacity required of the sling, or slings, needed for a lift:

- 1 First, divide the total load to be lifted by the number of legs to be used. This provides the load per leg if the lift were being made with all legs lifting vertically.
- 2 Determine the angle between the legs of the sling and the horizontal.
- 3 Then **MULTIPLY** the load per leg (as computed in No. 1 above) by the Load Factor for the leg angle being used (from the table on the left) – to compute the **ACTUAL LOAD** on each leg for this lift and angle. **THE ACTUAL LOAD MUST NOT EXCEED THE SLING WORKING LOAD LIMIT (WLL).**

## ANGLES OF BRIDLES

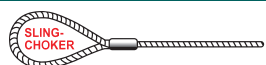
The horizontal angle of bridles with 3 or more legs is measured the same as the horizontal sling angle of 2-legged hitches. Where a bridle is designed with different leg lengths, the leg with the smallest horizontal angle will carry the greatest load. Therefore, the smallest horizontal angle is used in calculating actual leg load and evaluating the rated capacity of the sling proposed.



## SLING EYE DESIGN

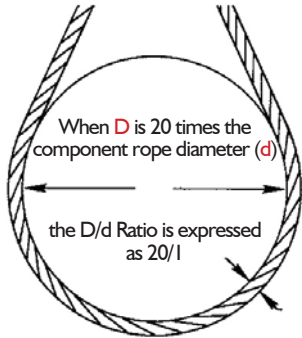


Sling eyes are designed to provide what amount to “small inverted slings” at the ends of the sling body. Therefore, the width of the eye opening will be affected by the same general forces which apply to legs of a sling rigged as a basket. A sling eye should never be used over a hook or pin with a body diameter larger than the natural width of the eye. Never force an eye onto a hook. On the other hand, the eye should always be used on a hook or pin with at least the nominal diameter of the rope, since applying the D/d Ratio shows an efficiency loss of approximately 50% when the relationship is less than 1/1.



## D/d RATIOS AS THEY APPLY TO SLINGS

When rigged as a basket or choke, the diameter of the bend where a sling contacts the load can be a limiting factor on a sling's capacity. Standard D/d ratios - where "D" is the diameter of bend and "d" the diameter of the rope - are used to select the appropriate sling construction.



Examples of D/d Ratios	
Mechanically spliced, single part slings	25 times rope diameter
Hand spliced, single part slings	15 times rope diameter
Braided multi-part slings of 6 parts	25 times component rope diameter
Braided multi-part slings of 8 parts	25 times component rope diameter
Helically laid multi-part slings	25 times component rope diameter
Cable laid slings	10 times sling body diameter
Hand tucked & mechanically joined grommets	5 times sling body diameter

## MINIMUM SLING BODY LENGTH

This is the length of wire rope between splices, sleeves or fittings. Generally the minimum body length is equal to ten (10) times the sling body diameter. This allows approximately one and one half (1-1/2) rope lays between splices. For multi-part slings the minimum body length between splices is equal to forty (40) times the component rope diameter.

## HOW SLING USAGE DICTATES SLING BODY CONSTRUCTION

Whether to use a single-part sling (one made of a single wire rope in the sling body) or a multi-part sling (several ropes in the body) is usually the first decision to make after determining the sling length and capacity for lift. The starting point for this decision involves the handling characteristics of the sling more than any other factor. Based on capacity alone, multi-part slings will be more flexible - more easily handled - than single-part slings.

The larger the capacity of a sling, the more important this becomes, to the point it becomes unrealistic to build big capacity slings from single, very large wire ropes.

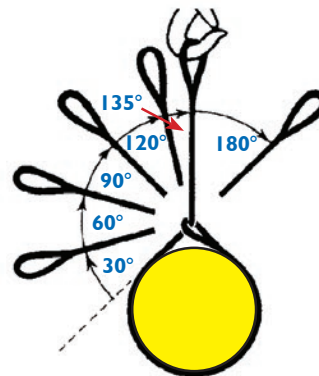
Multi-part slings provide the only practical means for obtaining extremely heavy lift capacity. Various approaches to building multi-part slings have been developed. The most common are Braided and Cable Laid. Braided, or plaited, slings are frequently selected because this construction provides a gripping effect which reduces load slippage and rotation.

In the design of the sling, rope engineers must seek a balance between strength handling characteristics, and number of parts, since there is a tendency to lose strength as more parts are added to increase flexibility.

If a load is hanging free, the normal choke angle is approximately 135 degrees. When the angle is less than 135 degrees an adjustment in the sling rated capacity must be made. Choker hitches at angles greater than 135 degrees are not recommended since they are unstable.

Extreme care should be taken to determine the angle of choke as accurately as possible. In controlled tests, where the angle was less than 120 degrees, the sling body always failed at the point of choke when pulled to destruction. Allowance for this phenomenon must be made anytime a choker hitch is used to shift, turn or control a load, or when the pull is against the choke in a multi-leg lift.

FOR WIRE ROPE SLINGS IN CHOKER HITCH WHEN ANGLE OF CHOKE IS LESS THAN 120°



Angle of Choke	Rate Capacity %*
Over 120°	100
90° - 120°	87
60° - 89°	74
30° - 59°	62
0° - 29°	49
*% of sling rated capacity in choker hitch	

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# POLYESTER ROUNDSLINGS - ASME B30.9

## SECTION 9-6.9: INSPECTION, REMOVAL, AND REPAIR

### Initial Inspection (9-6.9.2)

Prior to use, all new, altered, modified, or repaired slings **shall** be inspected by a designated person to verify compliance with the applicable provisions of this Chapter. Written records are not required for initial inspection.

### Frequent Inspection (9-6.9.3)

(a) Each shift, before the sling is used, a visual inspection for damage **shall** be performed. Slings used in severe or special service should be inspected before each use.

(b) Conditions such as those listed in para. 9-6.9.5 or any other condition that may result in a hazard **shall** cause the sling to be removed from service. Slings **shall** not be returned to service until approved by a qualified person.

(c) Written records are not required for frequent inspections.

### Periodic Inspection (9-6.9.4)

(a) A complete inspection of the sling **shall** be performed. Inspection **shall** be conducted on the entire length including fittings. Slings found with conditions such as those listed in para. 9-6.9.5 **shall** be removed from service. Slings shall not be returned to service until approved by a qualified person.

(b) Periodic Inspection Frequency. Periodic inspection intervals **shall** not exceed 1 yr. The frequency of periodic inspections should be based on

- (1) frequency of sling use
- (2) severity of service conditions
- (3) nature of lifts being made
- (4) experience gained on the service life of slings used in similar circumstances

(c) Guidelines for the time intervals are

- (1) normal service — yearly
- (2) severe service — monthly to quarterly
- (3) special service — as recommended by a qualified person

(d) Periodic inspection is not required for a sling that is in storage or idle. However, if more than 1 yr has passed since the last periodic inspection, the sling **shall** be inspected in accordance with the requirements listed in (a) and (e) before being placed back in service.

(e) Documentation that the most recent periodic inspection was performed **shall** be maintained.

(f) Inspection records of individual slings are not required.

### Removal Criteria (9-6.9.5)

A polyester roundsling sling **shall** be removed from service if conditions such as the following are present:

- (a) missing or illegible sling identification (see Section 9-5.7).
- (b) acid or caustic burns.
- (c) evidence of heat damage.
- (d) holes, tears, cuts, abrasive wear, or snags that expose the core yarns.
- (e) broken or damaged core yarns.
- (f) weld splatter that exposes core yarns.
- (g) knots in the roundsling, except for core yarn knots inside the cover installed by the manufacturer during the fabrication process.
- (h) fittings that are pitted, corroded, cracked, bent, twisted, gouged, or broken.
- (i) for hooks, removal criteria as stated in ASME B30.10.
- (j) for rigging hardware, removal criteria as stated in ASME B30.26.
- (k) other conditions, including visible damage, that cause doubt as to the continued use of the sling.

### Repair (9-6.9.6)

(a) Slings **shall** be repaired only by the sling manufacturer or a qualified person.

(b) A repaired sling **shall** be marked to identify the repairing agency per Section 9-6.7.

(c) Components used for sling repair **shall** comply with the provisions of this Chapter.

(d) Repair of hooks (ASME B30.10), rigging hardware (ASME B30.26), below-the-hook lifting devices (ASME B30.20), **shall** comply with the related standards. Repair of all other fittings shall be as specified by the sling manufacturer, fitting manufacturer, or qualified person.

(e) All repairs **shall** comply with the proof test requirements of Section 9-6.6.

(f) Modifications of alterations to a sling **shall** conform to all repair provisions of this Chapter.

(g) There shall be no repairs to core yarns.

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# SYNTHETIC SLING INSPECTION

## WARNING: INSPECT SLINGS PRIOR TO EACH USE

### INITIAL INSPECTION

Before any sling is placed into service, it **shall** be inspected by a designated person to insure that the correct sling is being used, as well as to determine that the sling meets the requirements of the manufacturer's specifications and the lift plan.

### FREQUENT VISUAL INSPECTION

This inspection should be made by the person handling the sling each time the sling is used

### PERIODIC INSPECTION FREQUENCY

Periodic inspection intervals **shall** not exceed one year  
The frequency of periodic inspections should be based on:

1. Frequency of sling use;
2. Severity of service conditions;
3. Nature of lifts being made;
4. Experience gained on the service life of slings used in similar circumstances

Guidelines for the time intervals are:

**Normal Service** – yearly

**Severe Service** – monthly to quarterly

**Special Service** – as recommended by a qualified person (as per ASME B30.9)

### NOTE

Every employer must take necessary measures to protect and ensure the health, safety and physical well-being of every worker. The employer must use methods and techniques intended for the identification, control and elimination of risks to its workers. The inspection of lifting equipment is required to satisfy this obligation

### REPAIRS

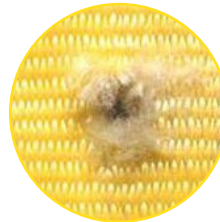
Slings **shall** be repaired only by the sling manufacturer or a qualified person (as per ASME B30.9)

### CAUTION

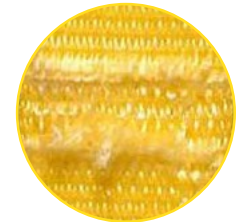
THESE PHOTOGRAPHS ARE ONLY ILLUSTRATIONS AND DO NOT REPRESENT ALL OF THE DEFECTS AND/OR WEAKNESSES THAT CAN OCCUR. SLINGS MUST BE TAKEN OUT OF SERVICE FOLLOWING ANY TYPE OF DAMAGE THAT CAN WEAKEN ITS STRENGTH AND CREATE A RISK TO THE USERS.

SLINGS AND LIFTING EQUIPMENT CAN BE BROKEN OR SEVERELY DAMAGED IF NOT PROPERLY USED AND PERIODICALLY INSPECTED.

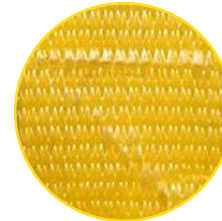
ALL INSPECTIONS SHOULD BE DONE BY A COMPETENT PERSON AND TO THE MANUFACTURER'S RECOMMENDATIONS. FAILURE TO COMPLY WITH THESE RECOMMENDATIONS MAY CAUSE SERIOUS INJURY OR DEATH. IT IS THE USER'S RESPONSIBILITY TO ENSURE SAFE USAGE AND PERIODIC INSPECTIONS. IN ORDER TO OPERATE THE LIFTING EQUIPMENT SAFELY AND REDUCE THE RISK OF ACCIDENTS.



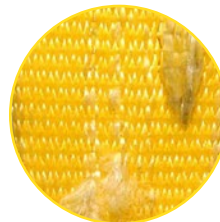
**HOLES**



**SNAGS**



**CUTS**



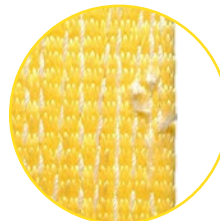
**TEARS**



**ABRASION**



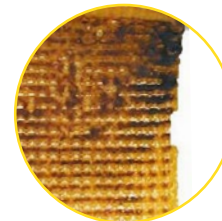
**IMPROPER TAGS**



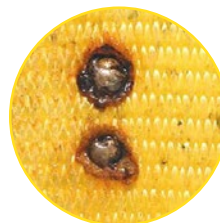
**BROKEN STITCHES**



**EXPOSED YARN**



**HEAT DAMAGE**



**WELDING DAMAGE**



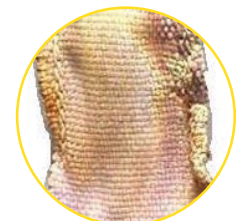
**CRUSHING & KNOTTING**



**ULTRAVIOLET DAMAGE**



**ACID DAMAGE**



**ALKALI DAMAGE**

# SYNTHETIC WEB SLINGS - ASME B30.9

## SECTION 9-5.9: INSPECTION, REMOVAL, AND REPAIR

### Initial Inspection (9-5.9.2)

Prior to use, all new, altered, modified, or repaired slings **shall** be inspected by a designated person to verify compliance with the applicable provisions of this Chapter. Written records are not required for initial inspection.

### Frequent Inspection (9-5.9.3)

(a) Each shift, before the sling is used, a visual inspection for damage **shall** be performed. Slings used in severe or special service should be inspected before each use.

(b) Conditions such as those listed in para. 9-5.9.5 or any other condition that may result in a hazard **shall** cause the sling to be removed from service. Slings **shall** not be returned to service until approved by a qualified person.

(c) Written records are not required for frequent inspections.

### Periodic Inspection (9-5.9.4)

(a) A complete inspection of the sling **shall** be performed. Inspection **shall** be conducted on the entire length, including splices and fittings. Slings found with conditions such as those listed in para. 9-5.9.5 **shall** be removed from service. Slings shall not be returned to service until approved by a qualified person.

(b) Periodic Inspection Frequency. Periodic inspection intervals **shall** not exceed 1 yr. The frequency of periodic inspections should be based on

- (1) frequency of sling use
- (2) severity of service conditions
- (3) nature of lifts being made
- (4) experience gained on the service life of slings used in similar circumstances

(c) Guidelines for the time intervals are

- (1) normal service — yearly
- (2) severe service — monthly to quarterly
- (3) special service — as recommended by a qualified person

(d) Periodic inspection is not required for a sling that is in storage or idle. However, if more than 1 yr has passed since the last periodic inspection, the sling **shall** be inspected in accordance with the requirements listed in (a) and (e) before being placed back in service.

(e) Documentation that the most recent periodic inspection was performed **shall** be maintained.

(f) Inspection records of individual slings are not required.

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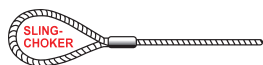
### Removal Criteria (9-5.9.5)

A synthetic webbing sling **shall** be removed from service if conditions such as the following are present:

- (a) missing or illegible sling identification (see Section 9-5.7).
- (b) acid or caustic burns.
- (c) melting or charring of any part of the sling.
- (d) holes, tears, cuts, or snags.
- (e) broken or worn stitching in load-bearing splices.
- (f) excessive abrasive wear.
- (g) knots in any part of the sling.
- (h) discoloration and brittle or stiff areas on any part of the sling, which may mean chemical or ultraviolet/sunlight damage.
- (i) fittings that are pitted, corroded, cracked, bent, twisted, gouged, or broken.
- (j) for hooks, removal criteria as stated in ASME B30.10.
- (k) for rigging hardware, removal criteria as stated in ASME B30.26.
- (l) other conditions, including visible damage, that cause doubt as to the continued use of the sling.

### Repair (9-5.9.6)

- (a) Slings **shall** be repaired only by the sling manufacturer or a qualified person.
- (b) A repaired sling **shall** be marked to identify the repairing agency per Section 9-5.7.
- (c) Components used for sling repair **shall** comply with the provisions of this Chapter.
- (d) There shall be no repairs to a load-bearing splice.
- (e) Webbing material meeting the removal criteria in para. 9-5.9.5 shall not be repaired, but may be replaced only if approved by a sling manufacturer or a qualified person.
- (f) Repair of hooks (ASME B30.10), rigging hardware (ASME B30.26), below-the-hook lifting devices (ASME B30.20), **shall** comply with the related standards. Repair of all other fittings shall be as specified by the sling manufacturer, fitting manufacturer, or qualified person.
- (g) All repairs **shall** comply with the proof test requirements of Section 9-5.6.
- (h) Modifications or alterations to a sling **shall** conform to all repair provisions of this Chapter.





**GOUGES**



**BENT LINKS**



**DISTORTED LINKS**



**DAMAGED ATTACHMENT**



**IMPROPER TAGS**



**CHAIN OBSTRUCTION**



**STRETCHED LINKS**



**WELDING SPLATTER**



**KNOTS**



**ABRASION DAMAGE**



**CORROSION**



**IMPROPER ATTACHMENT**



**MAKESHIFT ATTACHMENT**



**CUT LINKS**

## WARNING: INSPECT SLINGS PRIOR TO EACH USE

### INITIAL INSPECTION

Before any sling is placed into service, it **shall** be inspected by a designated person to insure that the correct sling is being used, as well as to determine that the sling meets the requirements of the manufacturer's specifications and the lift plan.

### FREQUENT VISUAL INSPECTION

This inspection should be made by the person handling the sling each time the sling is used

### PERIODIC INSPECTION FREQUENCY

Periodic inspection intervals **shall** not exceed one year. The frequency of periodic inspections should be based on:

1. Frequency of sling use;
2. Severity of service conditions;
3. Nature of lifts being made;
4. Experience gained on the service life of slings used in similar circumstances

Guidelines for the time intervals are:

**Normal Service** – yearly

**Severe Service** – monthly to quarterly

**Special Service** – as recommended by a qualified person (as per ASME B30.9)

### NOTE

Every employer must take necessary measures to protect and ensure the health, safety and physical well-being of every worker. The employer must use methods and techniques intended for the identification, control and elimination of risks to its workers. The inspection of lifting equipment is required to satisfy this obligation

### REPAIRS

Slings **shall** be repaired only by the sling manufacturer or a qualified person (as per ASME B30.9)

### CAUTION

THESE PHOTOGRAPHS ARE ONLY ILLUSTRATIONS AND DO NOT REPRESENT ALL OF THE DEFECTS AND/OR WEAKNESSES THAT CAN OCCUR. SLINGS MUST BE TAKEN OUT OF SERVICE FOLLOWING ANY TYPE OF DAMAGE THAT CAN WEAKEN ITS STRENGTH AND CREATE A RISK TO THE USERS.

SLINGS AND LIFTING EQUIPMENT CAN BE BROKEN OR SEVERELY DAMAGED IF NOT PROPERLY USED AND PERIODICALLY INSPECTED.

ALL INSPECTIONS SHOULD BE DONE BY A COMPETENT PERSON AND TO THE MANUFACTURER'S RECOMMENDATIONS. FAILURE TO COMPLY WITH THESE RECOMMENDATIONS MAY CAUSE SERIOUS INJURY OR DEATH. IT IS THE USER'S RESPONSIBILITY TO ENSURE SAFE USAGE AND PERIODIC INSPECTIONS. IN ORDER TO OPERATE THE LIFTING EQUIPMENT SAFELY AND REDUCE THE RISK OF ACCIDENTS.

# ALLOY STEEL CHAIN SLINGS - ASME B30.9

## SECTION 9-1.9: INSPECTION, REMOVAL, AND REPAIR

### Initial Inspection (9-1.9.2)

Prior to use, all new, altered, modified, or repaired slings **shall** be inspected by a designated person to verify compliance with the applicable provisions of this Chapter. A written record of the inspection referencing the individual sling identification is required.

### Frequent Inspection (9-1.9.3)

(a) A visual inspection for damage **shall** be performed by the user or other designated person each day or shift the sling is used.

(b) Conditions such as those listed in para. 9-1.9.5 or any other condition that may result in a hazard **shall** cause the sling to be removed from service. Slings **shall** not be returned to service until approved by a qualified person.

(c) Written records are not required for frequent inspections.

### Periodic Inspection (9-1.9.4)

(a) A complete inspection for damage of the sling **shall** be periodically performed by a designated person. Each link and component **shall** be examined individually, taking care to expose and examine all surfaces including the inner link surfaces. The sling **shall** be examined for conditions such as those listed in para. 9-1.9.5 and a determination made as to whether they constitute a hazard.

(b) Periodic Inspection Frequency. Periodic inspection intervals **shall** not exceed 1 yr. The frequency of periodic inspections should be based on

- (1) frequency of sling use
- (2) severity of service conditions
- (3) nature of lifts being made
- (4) experience gained on the service life of slings used in similar circumstances

(c) Guidelines for the time intervals are

- (1) normal service — yearly
- (2) severe service — monthly to quarterly
- (3) special service — as recommended by a qualified person

(d) A written record of the most recent periodic inspection **shall** be maintained and **shall** include the condition of the sling.

### Removal Criteria (9-1.9.5)

An alloy steel chain sling **shall** be removed from service if conditions such as the following are present:

- (a) missing or illegible sling identification (see Section 9-1.7).
- (b) cracks or breaks.
- (c) excessive wear, nicks, or gouges. Minimum thickness on chain links **shall** not be below the values listed in Table 9-1.9.4-1.
- (d) stretched chain links or components.
- (e) bent, twisted, or deformed chain links or components.
- (f) evidence of heat damage.
- (g) excessive pitting or corrosion.
- (h) lack of ability of chain or components to hinge (articulate) freely.
- (i) weld splatter.
- (j) for hooks, removal criteria as stated in ASME B30.10.
- (k) for rigging hardware, removal criteria as stated in ASME B30.26.
- (l) other conditions, including visible damage, that cause doubt as to the continued use of the sling.

### Repair (9-1.9.6)

- (a) Slings **shall** be repaired only by the sling manufacturer or a qualified person.
- (b) A repaired sling **shall** be marked to identify the repairing agency per Section 9-1.7.
- (c) Chain and components used for sling repair **shall** comply with the provisions of this Chapter.
- (d) Repair of hooks (ASME B30.10), rigging hardware (ASME B30.26), below-the-hook lifting devices (ASME B30.20), or other special devices **shall** comply with the repair instructions in the applicable volumes.
- (e) Cracked, broken, or bent chain links or components other than hooks **shall** not be repaired; they **shall** be replaced.
- (f) Mechanical coupling links **shall** not be used within the body of an alloy chain sling to connect two pieces of chain.
- (g) Modifications or alterations to the sling or components **shall** be considered as repairs and **shall** conform to all other provisions of this Chapter.
- (h) All repairs shall comply with the proof test requirements of Section 9-1.6.

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# WIRE ROPE & MESH SLING INSPECTION

## WARNING: INSPECT SLINGS PRIOR TO EACH USE

### INITIAL INSPECTION

Before any sling is placed into service, it **shall** be inspected by a designated person to insure that the correct sling is being used, as well as to determine that the sling meets the requirements of the manufacturer's specifications and the lift plan.

### FREQUENT VISUAL INSPECTION

This inspection should be made by the person handling the sling each time the sling is used

### PERIODIC INSPECTION FREQUENCY

Periodic inspection intervals **shall** not exceed one year  
The frequency of periodic inspections should be based on:

1. Frequency of sling use;
2. Severity of service conditions;
3. Nature of lifts being made;
4. Experience gained on the service life of slings used in similar circumstances

Guidelines for the time intervals are:

**Normal Service** – yearly

**Severe Service** – monthly to quarterly

**Special Service** – as recommended by a qualified person (as per ASME B30.9)

### NOTE

Every employer must take necessary measures to protect and ensure the health, safety and physical well-being of every worker. The employer must use methods and techniques intended for the identification, control and elimination of risks to its workers. The inspection of lifting equipment is required to satisfy this obligation

### REPAIRS

Slings **shall** be repaired only by the sling manufacturer or a qualified person (as per ASME B30.9)

#### CAUTION

THESE PHOTOGRAPHS ARE ONLY ILLUSTRATIONS AND DO NOT REPRESENT ALL OF THE DEFECTS AND/OR WEAKNESSES THAT CAN OCCUR. SLINGS MUST BE TAKEN OUT OF SERVICE FOLLOWING ANY TYPE OF DAMAGE THAT CAN WEAKEN ITS STRENGTH AND CREATE A RISK TO THE USERS.

SLINGS AND LIFTING EQUIPMENT CAN BE BROKEN OR SEVERELY DAMAGED IF NOT PROPERLY USED AND PERIODICALLY INSPECTED.

ALL INSPECTIONS SHOULD BE DONE BY A COMPETENT PERSON AND TO THE MANUFACTURER'S RECOMMENDATIONS. FAILURE TO COMPLY WITH THESE RECOMMENDATIONS MAY CAUSE SERIOUS INJURY OR DEATH. IT IS THE USER'S RESPONSIBILITY TO ENSURE SAFE USAGE AND PERIODIC INSPECTIONS. IN ORDER TO OPERATE THE LIFTING EQUIPMENT SAFELY AND REDUCE THE RISK OF ACCIDENTS.

## WIRE ROPE SLINGS (Pg. 89)



**BROKEN WIRES**



**TWISTS & KNOTS**



**FLATTENED PORTIONS**



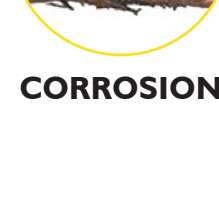
**WELDING SPLATTER**



**HEAT DAMAGE**



**KINKS**



**CORROSION**



**WORN FITTINGS**

## MESH SLINGS (Pg. 90)



**UNEVEN MESH**



**ABRASIVE WEAR**



**BROKEN MESH**



**CORROSION & HEAT DAMAGE**



**DISTORTED FITTINGS**



# WIRE ROPE SLINGS - ASME B30.9

## SECTION 9-2.9: INSPECTION, REMOVAL, AND REPAIR

### Initial Inspection (9-2.9.2)

Prior to use, all new, altered, modified, or repaired slings **shall** be inspected by a designated person to verify compliance with the applicable provisions of this Chapter. Written records are not required for initial inspections.

### Frequent Inspection (9-2.9.3)

(a) Each shift, before the sling is used, a visual inspection for damage **shall** be performed. Slings used in severe or special service should be inspected before each use.

(b) Conditions such as those listed in para. 9-2.9.5 or any other condition that may result in a hazard **shall** cause the sling to be removed from service. Slings **shall** not be returned to service until approved by a qualified person.

(c) Written records are not required for frequent inspections.

### Periodic Inspection (9-2.9.4)

(a) A complete inspection of the sling **shall** be performed. Inspection **shall** be conducted on the entire length, including splices and fittings. Slings found with conditions such as those in listed para. 9-2.9.5 **shall** be removed from service. Slings **shall** not be returned to service until approved by a qualified person.

(b) Periodic Inspection Frequency. Periodic inspection intervals **shall** not exceed 1 yr. The frequency of periodic inspections should be based on

- (1) frequency of sling use
- (2) severity of service conditions
- (3) nature of lifts being made
- (4) experience gained on the service life of slings used in similar circumstances

(c) Guidelines for the time intervals are

- (1) normal service — yearly
- (2) severe service — monthly to quarterly
- (3) special service — as recommended by a qualified person

(d) Periodic inspection is not required for a sling that is in storage or idle. However, if more than 1 yr has passed since the last periodic inspection, the sling **shall** be inspected in accordance with the requirements listed in (a) and (e) before being placed back in service.

(e) Documentation that the most recent periodic inspection was performed **shall** be maintained.

(f) Inspection records of individual slings are not required.

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### Removal Criteria (9-2.9.5)

An wire rope sling **shall** be removed from service if any of the following conditions are present:

- (a) missing or illegible sling identification (see Section 9-2.7).
- (b) broken wires.
  - (1) for strand-laid and single-part sling, 10 randomly distributed broken wires in one rope lay, or 5 broken wires in one strand in one rope lay. (see Figure 9-2.9.0-2)
  - (2) for cable-laid slings, 20 broken wires per lay (see Figure 9-2.9.5-1)
  - (3) for less than eight-part braided slings, 20 broken wires per lay (see Figure 9-2.3.2-2)
  - (4) for eight-part or more than eight-part braided slings, 40 broken wires per braid length (see Figure 9-2.3.2-2)

(c) severe localized abrasion or scraping resulting in a reduction from nominal diameter of more than 5%.

(d) kinking, crushing, birdcaging, or any other damage resulting in damage to the rope structure.

(e) evidence of heat damage.

(f) fitting that are cracked, deformed, or worn to the extent that the strength of the sling is substantially affected.

(g) severe corrosion of the rope or fittings.

(h) for hooks, removal criteria as stated in ASME B30.10.

(i) for rigging hardware, removal criteria as stated in ASME B30.26.

(j) other conditions, including visible damage, that cause doubt as to the continued use of the sling.

### Repair (9-2.9.6)

(a) Slings **shall** be repaired only by the sling manufacturer or a qualified person.

(b) A repaired sling **shall** be marked to identify the repairing entity per Section 9-2.7.

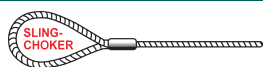
(c) Components used for sling repair **shall** comply with the provisions of this Chapter.

(d) Repair of hooks (ASME B30.10), rigging hardware (ASME B30.26), below-the-hook lifting devices (ASME B30.20), or other special devices **shall** comply with the repair instructions in the applicable volumes.

(e) The wire rope used in the sling shall not be repaired.

(f) Modifications or alterations to a sling shall conform to all repair provisions of this Chapter.

(g) All repairs shall comply with the proof test requirements of Section 9-2.6.



# METAL MESH SLINGS - ASME B30.9

## SECTION 9-3.9: INSPECTION, REMOVAL, AND REPAIR

### Initial Inspection (9-3.9.2)

Prior to use, all new, altered, modified, or repaired slings **shall** be inspected by a designated person to verify compliance with the applicable provisions of this Chapter. A written record of the inspection referencing the individual sling identification is required.

### Frequent Inspection (9-3.9.3)

(a) Each shift, before the sling is used, a visual inspection for damage **shall** be performed. Slings used in severe or special service should be inspected before each use.

(b) Conditions such as those listed in para. 9-3.9.5 or any other condition that may result in a hazard **shall** cause the sling to be removed from service. Slings **shall** not be returned to service until approved by a qualified person.

(c) Written records are not required for frequent inspections.

### Periodic Inspection (9-3.9.4)

(a) A complete inspection of the sling **shall** be performed. Inspection **shall** be conducted on the entire length, including welded or brazed joints and fittings. Slings found with conditions such as those in listed para. 9-3.9.5 **shall** be removed from service. Slings **shall** not be returned to service until approved by a qualified person.

(b) Periodic Inspection Frequency. Periodic inspection intervals **shall** not exceed 1 yr. The frequency of periodic inspections should be based on

- (1) frequency of sling use
- (2) severity of service conditions
- (3) nature of lifts being made
- (4) experience gained on the service life of slings used in similar circumstances

(c) Guidelines for the time intervals are

- (1) normal service — yearly
- (2) severe service — monthly to quarterly
- (3) special service — as recommended by a qualified person

(d) Periodic inspection is not required for a sling that is in storage or idle. However, if more than 1 yr has passed since the last periodic inspection, the sling **shall** be inspected in accordance with the requirements listed in (a) and (e) before being placed back in service.

(e) A written record of the most recent periodic inspection **shall** be maintained and **shall** include the condition of the sling.

### Removal Criteria (9-3.9.5)

An metal mesh sling **shall** be removed from service if any of the following conditions are present:

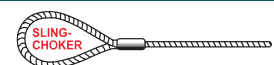
- (a) missing or illegible sling identification (see Section 9-3.7).
- (b) broken weld or a broken brazed joint along the sling edge.
- (c) broken wire in any part of the mesh
- (d) reduction in wire diameter of 25% due to abrasion or 15% due to corrosion.
- (e) lack of flexibility due to distortion of the mesh.
- (f) distortion of the choker fitting so the width of the eye opening is increased by more than 10%.
- (g) distortion of either end fitting so the width of the eye opening is decreased by more than 10%.
- (h) a 15% reduction of the original cross-sectional area of any point around the hook opening of the end fitting.
- (i) visible distortion of either end fitting out of its plane.
- (j) cracked end fitting.
- (k) slings in which the spirals are locked or without free articulation shall not be used.
- (l) fittings that are pitted, corroded, cracked, bent, twisted, gouged, or broken.
- (m) other conditions, including visible damage, that cause doubt as to the continued use of the sling.

### Repair (9-3.9.6)

- (a) Slings **shall** be repaired only by the sling manufacturer or a qualified person.
- (b) A repaired sling **shall** be marked to identify the repairing entity per Section 9-3.7.
- (c) Components used for sling repair **shall** comply with the provisions of this Chapter.
- (d) Cracked, broken, bent, or damaged components shall not be repaired; they **shall** be replaced.
- (e) All repairs **shall** comply with the proof test requirements of Section 9-3.6.
- (f) Modifications or alterations to a sling **shall** conform to all repair provisions of this Chapter.

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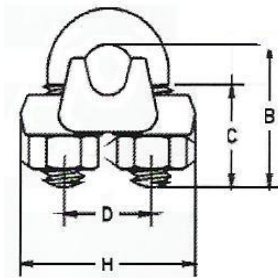


# RigPRO

RigPRO, a Sling-Choker brand, supplies you with the appropriate components for efficient and safe rigging applications. Containing an expansive inventory of eye bolts, pad eyes, eye nuts, hooks, snatch blocks, and swivels, hardware grade chain, security tools, and chain cutting devices. RigPRO has you covered when it comes to any rigging job.



G-450 Crosby Clips									Min	Turn			
Size	A	B	C	D	E	F	G	H	Clips	Torque	Back	Wt.	Item
1/8"	0.22	0.72	0.44	0.47	0.41	0.38	0.81	0.94	2.00	4.5	3-1/4"	0.06	1010015
3/16"	0.25	0.97	0.56	0.59	0.50	0.44	0.94	1.16	2.00	7.5	3-3/4"	0.10	1010033
1/4"	0.31	1.03	0.50	0.75	0.66	0.56	1.19	1.44	2.00	15.0	4-3/4"	0.19	1010051
5/16"	0.38	1.38	0.75	0.88	0.72	0.69	1.31	1.69	2.00	30.0	5-1/4"	0.28	1010079
3/8"	0.44	1.50	0.75	1.00	0.91	0.75	1.63	1.94	2.00	45.0	6-1/2"	0.48	1010097
7/16"	0.50	1.88	1.00	1.19	1.03	0.88	1.81	2.28	2.00	65.0	7"	0.78	1010113
1/2"	0.50	1.88	1.00	1.19	1.13	0.88	1.91	2.28	3.00	65.0	11-1/2"	0.80	1010131
9/16"	0.56	2.25	1.25	1.31	1.22	0.94	2.06	2.50	3.00	95.0	12"	1.09	1010159
5/8"	0.56	2.38	1.25	1.31	1.34	0.94	2.06	2.50	3.00	95.0	12"	1.10	1010177
3/4"	0.62	2.75	1.44	1.50	1.41	1.06	2.25	2.84	4.00	130.0	18"	1.42	1010195
7/8"	0.75	3.12	1.62	1.75	1.59	1.25	2.44	3.16	4.00	225.0	19"	2.12	1010211
1"	0.75	3.50	1.81	1.88	1.78	1.25	2.63	3.47	5.00	225.0	26"	2.52	1010239
1-1/8"	0.75	3.88	2.00	2.00	1.91	1.25	2.81	3.59	6.00	225.0	34"	2.83	1010257
1-1/4"	0.88	4.25	2.13	2.31	2.19	1.44	3.13	4.13	7.00	360.0	44"	4.38	1010275
1-3/8"	0.88	4.63	2.31	2.38	2.31	1.44	3.13	4.19	7.00	360.0	44"	4.42	1010293
1-1/2"	0.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44	8.00	360.0	54"	5.44	1010319
1-5/8"	1.00	5.31	2.62	2.75	2.66	1.63	3.63	4.75	8.00	430.0	58"	7.04	1010337
1-3/4"	1.13	5.75	2.75	3.06	2.94	1.81	3.81	5.28	8.00	590.0	61"	9.34	1010355
2"	1.25	6.44	3.00	3.38	3.28	2.00	4.44	5.88	8.00	750.0	71"	13.00	1010373
2-1/4"	1.25	7.13	3.19	3.88	3.19	2.00	4.50	6.38	8.00	750.0	73"	16.00	1010391
2-1/2"	1.25	7.69	3.44	4.13	3.69	2.00	4.05	6.63	9.00	750.0	84"	19.00	1010417

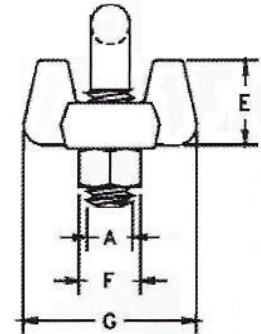


## Crosby Heavy Duty Wire Rope Clips

### 1010015 - 1010417

Based on the catalogue breaking strength of wire rope, Crosby wire rope clips have an efficiency rating of 80% for 1/8" - 7/8" sizes, and 90% for sizes 1" through 3-1/2". All Clips are individually bagged or tagged with proper application instructions and warning information.

Clip sizes up through 1-1/2" have rolled threads. Crosby products meet or exceed all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, Crosby products meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



Fist Grip Wire Rope Clips	
Size	Item
3/16"-1/4"	1010471
5/16"	1010499
3/8"	1010514
7/16"-1/2"	1010532
9/16"-5/8"	1010550
3/4"	1010578
7/8"	1010596
1"	1010612
1-1/8"	1010630
1-1/4"	1010658
1-3/8"-1-1/2"	1010676

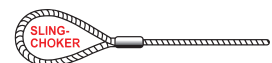
## Crosby Fist Grip Wire Rope Clips

### 1010471 - 1010676

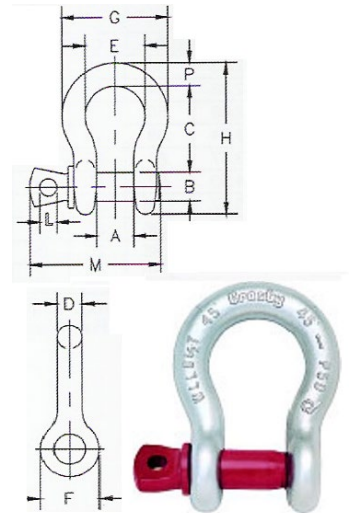
Based on the catalogue breaking strength of wire rope, Crosby wire rope clips have an efficiency rating of 80% for 3/16" - 7/8" sizes, and 90% for sizes 1" through 1-1/2".

Bolts are an integral part of the saddle. Nuts can be installed in such a way as to enable the operator to swing the wrench in a full arc for fast installation.

All sizes have forged steel saddles. All Clips are individually bagged or tagged with proper application instructions and warning information. Assembled with standard heavy hex nuts.



Crosby 209 Carbon Screw Pin Anchor Shackles- Galvanized															
Nom	Size	WLL	A	B	C	D	E	F	G	H	L	M	P	Wt.	Item
3/16	1/3	0.4	0.3	0.9	0.2	0.6	0.6	1.0	1.5	0.2	1.1	0.2	0.06	1018357	
1/4	1/2	0.5	0.3	1.1	0.3	0.8	0.6	1.3	1.8	0.2	1.4	0.3	0.10	1018375	
5/16	3/4	0.5	0.4	1.2	0.3	0.8	0.8	1.5	2.1	0.2	1.7	0.3	0.19	1018393	
3/8	1	0.7	0.4	1.4	0.4	1.0	0.9	1.8	2.5	0.3	2.0	0.4	0.31	1018419	
7/16	1 1/2	0.8	0.5	1.7	0.4	1.2	1.1	2.0	2.9	0.3	2.4	0.4	0.38	1018437	
1/2	2	0.8	0.6	1.9	0.5	1.3	1.2	2.3	3.3	0.4	2.7	0.5	0.72	1018455	
5/8	3 1/4	1.1	0.8	2.4	0.6	1.7	1.5	2.9	4.2	0.4	3.3	0.7	1.37	1018473	
3/4	4 3/4	1.3	0.9	2.8	0.8	2.0	1.8	3.5	5.0	0.5	4.0	0.8	2.35	1018491	
7/8	6 1/2	1.4	1.0	3.3	0.9	2.3	2.1	4.0	5.8	0.5	4.5	1.0	3.62	1018516	
1	8 1/2	1.7	1.1	3.8	1.0	2.7	2.4	4.7	6.6	0.6	5.1	1.1	5.03	1018534	
1 1/8	9 1/2	1.8	1.3	4.3	1.2	2.9	2.7	5.2	7.5	0.6	5.6	1.3	7.41	1018552	
1 1/4	12	2.0	1.4	4.7	1.3	3.3	3.0	5.8	8.3	0.7	6.2	1.4	9.50	1018570	
1 3/8	13 1/2	2.3	1.5	5.3	1.4	3.6	3.3	6.4	9.2	0.8	6.8	1.5	13.53	1018598	
1 1/2	17	2.4	1.6	5.8	1.5	3.9	3.6	6.9	10.0	0.8	7.4	1.6	17.20	1018614	
1 3/4	25	2.9	2.0	7.0	1.8	5.0	4.2	8.9	12.3	1.0	9.1	2.3	27.78	1018632	
2	35	3.3	2.3	7.8	2.1	5.8	4.8	10.0	13.7	1.2	10.3	2.4	45.00	1018650	
2 1/2	55	4.1	2.8	10.5	2.7	7.3	5.7	12.9	17.8	1.4	13.0	3.1	85.75	1018678	



## Crosby Screw Pin Anchor Shackles

### 1018357 - 1018678

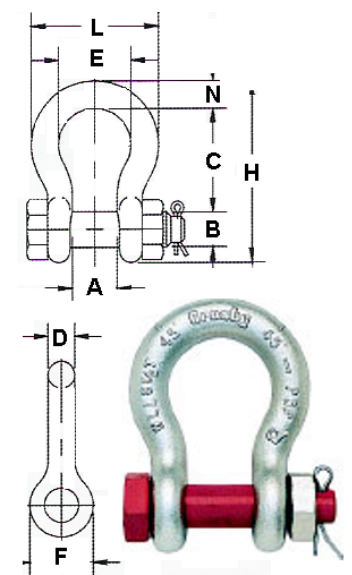
These forged, quenched, and tempered shackles have alloy pins & are hot dip/self-coloured galvanized.

- Have Working Load Limit permanently shown on every shackle
- Can meet DNV impact requirements of 42 joules at -20 C
- Meet or exceed all requirements of ASME B30.26 including identification, ductility, design factor, proof load, and temperature requirements. Crosby products meet other critical performance requirements including fatigue life, impact properties, and material traceability, not addressed by ASME B30.26.

Crosby 2130 Carbon Bolt Type Anchor Shackles- Galvanized													
Nom	Size	WLL	A	B	C	D	E	F	H	L	N	Wt.	Item
3/16	1/3	0.4	0.3	0.9	0.2	0.6	0.6	1.5	1.0	0.2	0.1	0.1	1019464
1/4	1/2	0.5	0.3	1.1	0.3	0.8	0.6	1.8	1.3	0.3	0.1	0.1	1019466
5/16	3/4	0.5	0.4	1.2	0.3	0.8	0.8	2.1	1.5	0.3	0.2	0.2	1019468
3/8	1	0.7	0.4	1.4	0.4	1.0	0.9	2.5	1.8	0.4	0.3	0.3	1019470
7/16	1 1/2	0.8	0.5	1.7	0.4	1.2	1.1	2.9	2.0	0.4	0.5	0.5	1019471
1/2	2	0.8	0.6	1.9	0.5	1.3	1.2	3.3	2.3	0.5	0.8	0.8	1019472
5/8	3 1/4	1.1	0.8	2.4	0.6	1.7	1.5	4.2	2.9	0.7	1.7	1.7	1019490
3/4	4 3/4	1.3	0.9	2.8	0.8	2.0	1.8	5.0	3.5	0.8	2.7	2.7	1019515
7/8	6 1/2	1.4	1.0	3.3	0.9	2.3	2.1	5.8	4.0	1.0	4.0	4.0	1019533
1	8 1/2	1.7	1.2	3.8	1.0	2.7	2.4	6.6	4.7	1.1	5.7	5.7	1019551
1 1/8	9 1/2	1.8	1.3	4.3	1.1	2.9	2.7	7.5	5.2	1.3	8.3	8.3	1019579
1 1/4	12	2.0	1.4	4.7	1.3	3.3	3.0	8.3	5.8	1.4	11.7	11.7	1019597
1 3/8	13 1/2	2.3	1.5	5.3	1.4	3.6	3.3	9.2	6.4	1.5	15.8	15.8	1019613
1 1/2	17	2.4	1.7	5.8	1.5	3.9	3.6	10.0	6.9	1.6	20.8	20.8	1019631
1 3/4	25	2.9	2.0	7.0	1.8	5.0	4.2	12.3	8.8	2.3	33.9	33.9	1019659
2	35	3.3	2.3	7.8	2.1	5.8	4.8	13.7	10.2	2.4	52.3	52.3	1019677
2 1/2	55	4.1	2.8	10.5	2.7	7.3	5.7	17.9	12.8	3.1	98.3	98.3	1019695
3	85	5.0	3.3	13.0	3.1	7.9	6.5	21.5	14.6	3.6	154.0	154.0	1019711

## Crosby Safety Bolt Anchor Shackles

### 1019464 - 1019711



### Crosby 2130 Carbon Bolt Type Anchor Shackles- Self Coloured

Nom	Size	WLL	A	B	C	D	E	F	H	L	N	Wt.	Item
	1/2	2	0.8	0.6	1.9	0.5	1.3	1.2	3.3	2.3	0.5	0.8	1019481
	5/8	3 1/4	1.1	0.8	2.4	0.6	1.7	1.5	4.2	2.9	0.7	1.7	1019506
	3/4	4 3/4	1.3	0.9	2.8	0.8	2.0	1.8	5.0	3.5	0.8	2.7	1019524
	7/8	6 1/2	1.4	1.0	3.3	0.9	2.3	2.1	5.8	4.0	1.0	4.0	1019542
	1	8 1/2	1.7	1.2	3.8	1.0	2.7	2.4	6.6	4.7	1.1	5.7	1019560
	1 1/8	9 1/2	1.8	1.3	4.3	1.1	2.9	2.7	7.5	5.2	1.3	8.3	1019588
	1 1/4	12	2.0	1.4	4.7	1.3	3.3	3.0	8.3	5.8	1.4	11.7	1019604
	1 3/8	13 1/2	2.3	1.5	5.3	1.4	3.6	3.3	9.2	6.4	1.5	15.8	1019622
	1 1/2	17	2.4	1.7	5.8	1.5	3.9	3.6	10.0	6.9	1.6	20.8	1019640
	1 3/4	25	2.9	2.0	7.0	1.8	5.0	4.2	12.3	8.8	2.3	33.9	1019668
	2	35	3.3	2.3	7.8	2.1	5.8	4.8	13.7	10.2	2.4	52.3	1019686

### Crosby Bolt Type Anchor Shackles - Self Coloured

#### 1019481 - 1019686

Capacities 1/3 through 150 metric tons, grade 6. Working Load Limit and grade "6" permanently shown on every shackle. Forged - Quenched and Tempered. Self Coloured.

Fatigue rated (1/3t - 55t). Approved for use at -40 degree C (-40 degree F) to 204 degree C (400 degree F). Meets or exceeds all requirements of ASME B30.26.

Shackles 120 metric tons and larger are proof tested, Magnetic Particle Inspected and provided with Serialized Pin and Bow. Type Approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes. 3.1 Certification as standard available for charpy and statistical proof test for pg 79 only up to 25 tons to DNV2.7-1 and EN13889.

These Crosby shackles are statistical proof and impact tested to 42 joules (31 ft-lbs. min. ave. at -20 degree C (-4 degree F). The tests are conducted by Crosby and 3.1 test certification is available upon request. Refer to page 76 for Crosby COLD TUFF® shackles that meet the additional requirements of DNV rules for certification of lifting applications - Loose Gear.

All other 2130 and all 2150 shackles can meet charpy requirements of 42 joules (31 ft-lbs) avg at -20 degree C (-4 degree F) upon special request. Look for the Red Pin® the mark of genuine Crosby quality.



Crosby Alloy Screw Pin Shackles														
Nom. Size	WLL	A	B	C	D	E	F	G	H	L	M	P	Wt.	Item
3/8	2	0.7	0.4	1.4	0.4	1.0	0.9	1.8	2.5	0.3	2.0	0.4	0.3	1017450
7/16	2 2/3	0.8	0.5	1.7	0.4	1.2	1.1	2.0	2.9	0.3	2.4	0.4	0.4	1017472
1/2	3 1/3	0.8	0.6	1.9	0.5	1.3	1.2	2.3	3.3	0.4	2.7	0.5	0.6	1017494
5/8	5	1.1	0.8	2.4	0.6	1.7	1.5	2.9	4.2	0.4	3.3	0.7	1.4	1017516
3/4	7	1.3	0.9	2.8	0.8	2.0	1.8	3.5	5.0	0.5	4.0	0.8	2.3	1017538
7/8	9 1/2	1.4	1.0	3.3	0.9	2.3	2.1	4.0	5.8	0.5	4.5	1.0	3.6	1017560
1	12 1/2	1.7	1.1	3.8	1.0	2.7	2.4	4.7	6.6	0.6	5.1	1.1	5.3	1017582
1 1/8	15	1.8	1.3	4.3	1.2	2.9	2.7	5.2	7.5	0.6	5.6	1.3	7.3	1017604
1 1/4	18	2.0	1.4	4.7	1.3	3.3	3.0	5.8	8.3	0.7	6.2	1.4	9.9	1017626
1 3/8	21	2.3	1.5	5.3	1.4	3.6	3.3	6.4	9.2	0.8	6.8	1.5	13.3	1017648

### Crosby Alloy Screw Pin Anchor Shackles

#### 1017450 - 1017648

Forged Alloy Steel: Quenched and Tempered, with alloy pins. Permanently show Working Load Limit on every shackle. Hot Dip Galvanized.

Meet or exceed all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, Crosby products meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26



### Crosby 209 Carbon Screw Pin Anchor Shackles- Self Coloured

Norm														
Size	WLL	A	B	C	D	E	F	G	H	L	M	P	Wt.	Item
1/4	1/2	0.5	0.3	1.1	0.3	0.8	0.6	1.3	1.8	0.2	1.4	0.3	0.10	1018384
5/16	3/4	0.5	0.4	1.2	0.3	0.8	0.8	1.5	2.1	0.2	1.7	0.3	0.19	1018400
3/8	1	0.7	0.4	1.4	0.4	1.0	0.9	1.8	2.5	0.3	2.0	0.4	0.31	1018428
7/16	1 1/2	0.8	0.5	1.7	0.4	1.2	1.1	2.0	2.9	0.3	2.4	0.4	0.38	1018446
1/2	2	0.8	0.6	1.9	0.5	1.3	1.2	2.3	3.3	0.4	2.7	0.5	0.72	1018464
5/8	3 1/4	1.1	0.8	2.4	0.6	1.7	1.5	2.9	4.2	0.4	3.3	0.7	1.37	1018482
3/4	4 3/4	1.3	0.9	2.8	0.8	2.0	1.8	3.5	5.0	0.5	4.0	0.8	2.35	1018507
7/8	6 1/2	1.4	1.0	3.3	0.9	2.3	2.1	4.0	5.8	0.5	4.5	1.0	3.62	1018525
1	8 1/2	1.7	1.1	3.8	1.0	2.7	2.4	4.7	6.6	0.6	5.1	1.1	5.03	1018543
1 1/8	9 1/2	1.8	1.3	4.3	1.2	2.9	2.7	5.2	7.5	0.6	5.6	1.3	7.41	1018561
1 1/4	12	2.0	1.4	4.7	1.3	3.3	3.0	5.8	8.3	0.7	6.2	1.4	9.50	1018589
1 3/8	13 1/2	2.3	1.5	5.3	1.4	3.6	3.3	6.4	9.2	0.8	6.8	1.5	13.53	1018605
1 1/2	17	2.4	1.6	5.8	1.5	3.9	3.6	6.9	10.0	0.8	7.4	1.6	17.20	1018623
1 3/4	25	2.9	2.0	7.0	1.8	5.0	4.2	8.9	12.3	1.0	9.1	2.3	27.78	1018641
2	35	3.3	2.3	7.8	2.1	5.8	4.8	10.0	13.7	1.2	10.3	2.4	45.00	1018669

### Crosby Screw Pin Anchor Shackles - Self Coloured

#### 1018384 - 1018669

Forged - Quenched and Tempered, with alloy pins. Working Load Limit and grade "6" permanently shown on every shackle. Self Coloured. Fatigue rated. Shackles can be furnished & proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification.

Meets or exceeds all requirements of ASME B30.26. Type Approval and certification in accordance with ABS 2006 Steel Vessel Rules 1-1-17.7, and ABS Guide for Certification of Cranes. Crosby 2t through 25t G209 anchor shackles are type approved to DNV Certification Notes 2.7-1 - Offshore Containers.

Approved for use at -40 degree C (-40 degree F) to 204 degree C (400 degree F). 2t through 25t bow and screw pin are Certified to meet charpy impact testing of 42 joules (31 ft-lbs.) min. ave. at -20 degree C (-4 degree F).

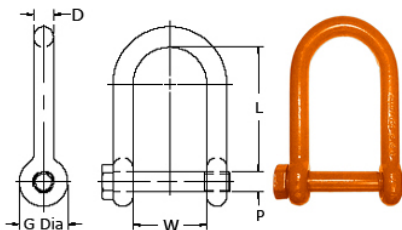
These Crosby shackles are statistical proof and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request. Look for the Red Pin® the mark of genuine Crosby quality.



### Columbus McKinnon Long Reach Shackles - Screw Pin & Bolt Types

#### 7151(P) - 7177(P) 9151(P) - 9177(P)

Long Reach Shackles that serve as a terrific problem solver in any situation where a deep, wide shackle is needed.

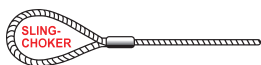


#### CM Long Reach Shackles-Screw Pin

WLL Lbs.	P	D	L	W	G	Wt.	Self Coloured	Painted
							Item	Item
7,000	0.75	0.63	4.00	2.25	1.57	1.95	7151	7151P
10,000	0.88	0.75	4.56	2.75	1.81	3.21	7152	7152P
19,000	1.00	1.00	5.50	3.25	2.38	6.31	7154	7154P
28,000	1.38	1.25	6.25	3.88	3.06	12.90	7156	7156P
34,000	1.63	1.50	7.00	4.50	3.50	20.70	7157	7157P
50,000	2.00	1.75	8.00	5.25	4.00	33.30	7177	7177P

#### CM Long Reach Shackles-Bolt Type

WLL Lbs.	P	D	L	W	G	Wt.	Self Coloured	Painted
							Item	Item
7,000	0.75	0.63	4.00	2.25	1.57	1.95	9151	9151P
10,000	0.88	0.75	4.56	2.75	1.81	3.21	9152	9152P
19,000	1.00	1.00	5.50	3.25	2.38	6.31	9154	9154P
28,000	1.38	1.25	6.25	3.88	3.06	12.90	9156	9156P
34,000	1.63	1.50	7.00	4.50	3.50	20.70	9157	9157P
50,000	2.00	1.75	8.00	5.25	4.00	33.30	9177	9177P



# Crosby Alloy & Carbon Eye Hooks

**1022380 - 1023608**  
**1022205 - 1023341**

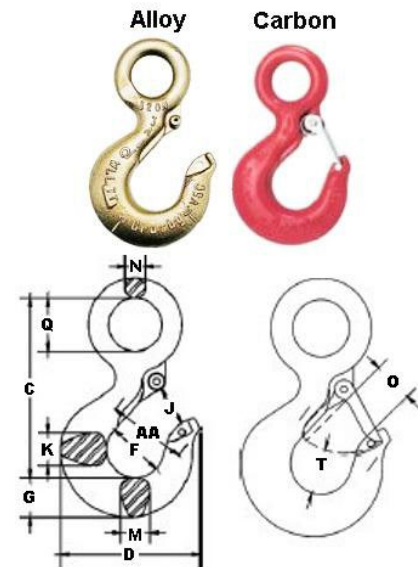
Eye hooks are load rated. 5:1 Design Factor for (Carbon Steel); 4:1 Design Factor for (Alloy Steel). Can be proof tested to 2 times the working Load Limit

Chemical analysis and tensile tests performed on each PIC to verify chemistry and mechanical properties

Hoist hooks incorporate two types of strategically placed markings forged into the product which address two (2) QUIC-CHECK® features: Deformation Indicators and Angle Indicators

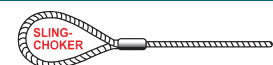
New integrated latch (S-4320) meets the World class standard for lifting. Heavy duty stamped latch interlocks with the hook tip. When secured with proper cotter pin through the hole in the tip of hook, meets the intent of OSHA Rule 1926.550(g) for personnel hoisting

Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles



CR320A Alloy Hook with Latch													
WLL	C	D	F	G	J	K	M	N	O	Q	T	AA	Item
1 T	3.34	2.83	1.25	0.73	0.90	0.63	0.63	0.36	0.89	0.75	0.87	1.50	1022380
1.5 T	3.81	3.11	1.38	0.84	0.93	0.71	0.71	0.42	0.91	0.91	0.98	2.00	1022391
2 T	4.14	3.53	1.50	1.00	1.00	0.88	0.88	0.55	1.00	1.13	1.03	2.00	1022402
3 T	4.69	3.97	1.63	1.13	1.13	0.94	0.94	0.58	1.09	1.25	1.16	2.00	1022413
5 T	5.77	4.81	2.00	1.44	1.47	1.31	1.31	0.72	1.36	1.56	1.53	2.50	1022424
7 T	7.37	6.27	2.50	1.81	1.75	1.66	1.66	0.90	1.61	2.00	1.96	3.00	1022435
11 T	9.07	7.45	3.00	2.25	2.29	1.88	1.63	1.11	2.08	2.44	2.47	4.00	1022446
15 T	10.08	8.30	3.25	2.59	2.50	2.19	1.94	1.27	2.27	2.84	2.62	4.00	1022457
22 T	12.53	10.30	4.25	3.00	3.30	2.69	2.38	1.56	3.02	3.50	2.83	5.00	1022468
30 T	14.06	13.62	5.00	3.62	4.00	3.00	3.00	1.75	3.25	3.50	3.44	6.50	1023546
37 T	18.19	14.06	5.38	4.56	4.25	4.00	3.19	2.00	3.00	4.50	3.88	7.00	1023564
45 T	20.12	15.44	6.00	5.06	4.75	4.50	3.25	2.18	3.38	4.94	4.75	8.00	1023582
60 T	23.72	18.50	7.00	6.00	5.75	5.50	3.91	2.53	4.12	5.69	5.69	10.00	1023608

CR320C Carbon Hook with Latch													
WLL	C	D	F	G	J	K	M	N	O	Q	T	AA	Item
3/4 T	3.34	2.83	1.25	0.73	0.90	0.63	0.63	0.36	0.89	0.75	0.87	1.50	1022205
1 T	3.81	3.11	1.38	0.84	0.93	0.71	0.71	0.42	0.91	0.91	0.98	2.00	1022216
1.5 T	4.14	3.53	1.50	1.00	1.00	0.88	0.88	0.55	1.00	1.13	1.03	2.00	1022227
2 T	4.69	3.97	1.63	1.13	1.13	0.94	0.94	0.58	1.09	1.25	1.16	2.00	1022238
3 T	5.77	4.81	2.00	1.44	1.47	1.31	1.31	0.72	1.36	1.56	1.53	2.50	1022246
5 T	7.37	6.27	2.50	1.81	1.75	1.66	1.66	0.90	1.61	2.00	1.96	3.00	1022260
7-12 T	9.07	7.45	3.00	2.25	2.29	1.88	1.63	1.11	2.08	2.44	2.47	4.00	1022271
10 T	10.08	8.30	3.25	2.59	2.50	2.19	1.94	1.27	2.27	2.84	2.62	4.00	1022282
15 T	12.53	10.30	4.25	3.00	3.30	2.69	2.38	1.56	3.02	3.50	2.83	5.00	1022293
20 T	14.06	13.62	5.00	3.62	4.00	3.00	3.00	1.75	3.25	3.50	3.44	6.50	1023289
25 T	18.19	14.06	5.38	4.56	4.25	4.00	3.19	2.00	3.00	4.50	3.88	7.00	1023305
30 T	20.12	15.44	6.00	5.06	4.75	4.50	3.25	2.18	3.38	4.94	4.75	8.00	1023323
40 T	23.72	18.50	7.00	6.00	5.75	5.50	3.91	2.53	4.12	5.69	5.69	10.00	1023341





## Crosby Alloy or Carbon Swivel Hooks with Latch

1048807 - 1048889  
1048603 - 1048675

Forged - Quenched and Tempered. Swivel hooks are load rated.

Proper design, careful forging, and precision controlled quench and tempering gives maximum strength without excessive weight and bulk. Low profile hook tip designed to utilize Crosby S-4320 or PL-N latch kit. Hoist hooks incorporate markings forged into the product which address two (2) QUIC-CHECK® features:

**Deformation Indicators** -- Two strategically placed marks, one just below the shank or eye and the other on the hook tip, which allows for a QUIC-CHECK® measurement to determine if the throat opening has changed, thus indicating abuse or overload.

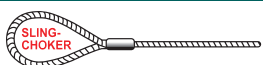
**Angle Indicators** — Indicates the maximum included angle which is allowed between two (2) sling legs in the hook. These indicators also provide the opportunity to approximate other included angles between two sling legs. This hook is a positioning device and is not intended to rotate under load.

# Crosby®



CR322A Alloy Eye Swivel Hook with Latch																	
WLL	A	B	C	D	F	G	H	J	K	L	M	O	R	S	AA	Wt.	Item
1	2.00	0.82	1.25	2.86	1.25	0.73	0.81	0.93	0.63	5.66	0.63	0.93	4.55	0.38	1.50	0.75	1048807
1.5	2.50	1.31	1.50	3.15	1.38	0.84	0.94	0.97	0.71	6.71	0.71	0.97	5.37	0.50	2.00	1.25	1048816
2	3.00	1.50	1.75	3.59	1.50	1.00	1.16	1.06	0.88	7.75	0.88	1.06	6.12	0.63	2.00	2.25	1048825
3	3.00	1.50	1.75	4.00	1.62	1.13	1.31	1.19	0.94	8.25	0.94	1.16	6.50	0.63	2.00	2.30	1048834
5	3.50	1.64	2.00	4.84	2.00	1.44	1.63	1.50	1.31	9.69	1.13	1.41	7.50	0.75	2.50	4.96	1048840
7	4.56	2.29	2.50	6.28	2.50	1.81	2.06	1.78	1.66	12.47	1.44	1.69	9.63	1.00	3.00	10.29	1048859
11	5.00	2.53	2.75	7.54	3.00	2.25	2.63	2.41	1.88	14.75	1.63	2.22	11.37	1.13	4.00	16.18	1048868
15	5.62	2.48	3.12	8.34	3.25	2.59	2.94	2.62	2.19	16.40	1.94	2.41	12.25	1.25	4.00	23.25	1048880
22	7.10	3.76	4.10	10.34	4.25	3.00	3.50	3.41	2.69	21.34	2.38	3.19	16.71	1.50	5.00	47.00	1048889

CR322C Carbon Eye Swivel Hook with Latch																	
WLL	A	B	C	D	F	G	H	J	K	L	M	O	R	S	AA	Wt.	Item
3/4	2.00	0.82	1.25	2.86	1.25	0.73	0.81	0.93	0.63	5.66	0.63	0.93	4.55	0.38	1.50	0.75	1048603
1	2.50	1.31	1.50	3.15	1.38	0.84	0.94	0.97	0.71	6.71	0.71	0.97	5.37	0.50	2.00	1.25	1048612
1 1/2	3.00	1.50	1.75	3.59	1.50	1.00	1.16	1.06	0.88	7.75	0.88	1.06	6.12	0.63	2.00	2.25	1048621
2	3.00	1.50	1.75	4.00	1.62	1.13	1.31	1.19	0.94	8.25	0.94	1.16	6.50	0.63	2.00	2.30	1048630
3	3.50	1.64	2.00	4.84	2.00	1.44	1.63	1.50	1.31	9.69	1.13	1.41	7.50	0.75	2.50	4.96	1048639
5	4.56	2.29	2.50	6.28	2.50	1.81	2.06	1.78	1.66	12.47	1.44	1.69	9.63	1.00	3.00	10.29	1048648
7 1/2	5.00	2.53	2.75	7.54	3.00	2.25	2.63	2.41	1.88	14.75	1.63	2.22	11.37	1.13	4.00	16.18	1048657
10	5.62	2.48	3.12	8.34	3.25	2.59	2.94	2.62	2.19	16.40	1.94	2.41	12.25	1.25	4.00	23.25	1048666
15	7.10	3.76	4.10	10.34	4.25	3.00	3.50	3.41	2.69	21.34	2.38	3.19	16.71	1.50	5.00	47.00	1048675



# Shur-Lok Eye Hooks

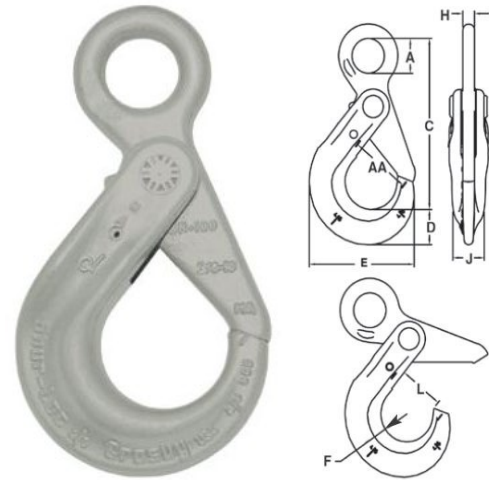
1022896 - 1022944  
1004404 - 1004440

Recessed trigger design is flush with the hook body, protecting the trigger from potential damage. Easy to operate with enlarged thumb access Positive Lock Latch is Self-Locking when hook is loaded

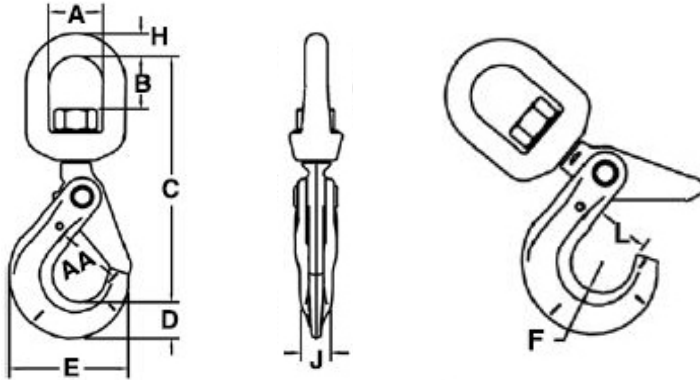
The SHUR-LOC® hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.550 (g) (4) (iv) (B)

Individually Proof Tested to 2-1/2 times the 4:1 Working Load Limit with certification. Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles

25% stronger than Grade 80. Suitable for use with Grade 100 and Grade 80 chain



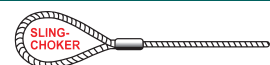
CRI316 Shur-Lok® Eye Hook													
Size (In)	Size (mm)	WLL 4:1	For Wire Sling Size	WLL 5:1	A	C	D	E	J	L	AA	Wt.	Item
--	6	3,200	5/16"	2,200	0.78	3.95	0.79	2.60	0.63	1.14	1.50	0.85	1022896
1/4-5/16"	8	5,700	7/16"	4,200	1.08	5.31	1.10	3.50	0.81	1.48	2.00	1.81	1022914
3/8"	10	8,800	1/2"	5,600	1.30	6.57	1.17	4.39	0.94	1.83	2.50	3.24	1022923
1/2"	13	15,000	5/8"	8,600	1.65	8.23	1.67	5.45	1.16	2.22	3.00	5.96	1022932
5/8"	16	22,600	7/8"	16,600	2.20	10.06	2.04	6.56	1.50	2.65	3.50	12.75	1022941
3/4"	18-20	35,300	1"	22,000	2.60	10.77	2.22	7.76	2.03	3.52	TBA	19.00	1022942
7/8"	22	42,700	1-1/8"	26,500	2.87	12.49	2.45	8.75	2.20	3.83	TBA	27.00	1022943
1"	26	59,700	TBA	TBA	3.15	14.60	3.21	9.87	2.68	4.09	TBA	49.00	1022944



# Crosby®

CRI3326 Shur-Lok® Swivel Hook (Ball Bearing)																
Size Inch	Size mm	WLL 4:1	Wire Sling	WLL 5:1	A	B	C	D	E	F	H	J	L	AA	Wt.	Item
1/4-5/16	6	2,500	5/16	2,200	1.50	1.14	6.17	0.79	2.60	0.67	0.50	0.63	1.13	1.50	1.50	1004404
1/4-5/16	8	4,500	7/16	4,200	1.75	1.52	7.54	1.10	3.50	0.87	0.63	0.81	1.44	2.00	3.10	1004413
3/8"	10	7,100	1/2	5,600	2.00	1.61	8.88	1.16	4.35	1.10	0.75	0.94	1.83	2.50	5.26	1004422
1/2"	13	12,000	5/8	8,600	2.50	2.03	11.11	1.66	5.45	1.26	1.00	1.16	2.19	3.00	11.22	1004431
5/8"	16	18,100	7/8	16,600	2.75	1.98	12.90	2.05	6.56	1.50	1.13	1.50	2.61	3.50	17.32	1004440

Ultimate load is 4 times the WLL Limit



CR378 Sorting Hooks									
WLL At Tip	WLL At Bottom	Style	I.D. of eye	Overall Length	Opening at Top	Radius at Bottom	Wt.	Item	
2	7.5	No Handle	1.38	9.69	2.81	0.63	6.42	1028024	
2	7.5	With Handle	1.38	9.69	2.81	0.63	6.42	1028033	
Ultimate load is 4 times WLL									

## Crosby Sorting Hooks

**1028024 - 1028033**

Sometimes called a pelican hook, these sorting hooks are made of forged alloy steel that is quenched and tempered. The deep straight throat permits efficient handling of flat plates or large cylindrical shapes.



CR377 Barrel Hooks							
WLL Per Pair	ID of Eye	OD of Eye	Length	Width of Lip	Wt.	Item	
1	1.6	2.8	5.0	2.9	3.6	1028248	
Ultimate Load is 4 times the Working Load Limit							

## Crosby Barrel Hooks

**1028248**

These barrel hooks are made of forged carbon steel that is quenched and tempered. This product meets the performance requirements of Federal Specification RR-C-271F, Type V, Class 6, except for those provisions required of the contractor.

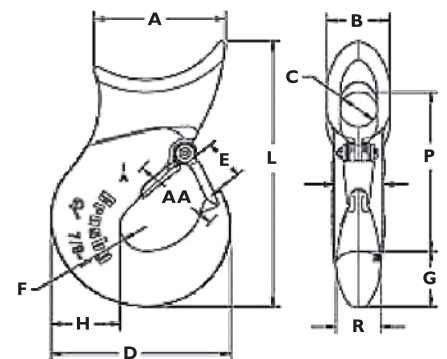


Crosby A-350L Sliding Choker Hook with Latch														Hook		
Sling Size	8 Part Braided	A	B	C	D	E	F	G	H	L	P	R	Wt.	Frame	Item	
3/8	-	2.06	1.13	0.63	2.41	0.63	0.38	0.84	0.91	4.28	2.59	0.63	1.0	D	1011802	
1/2	1/8	2.25	1.31	0.75	2.97	0.78	0.50	0.97	1.06	4.97	3.09	0.75	1.4	F	1011811	
5/8	-	3.06	1.63	0.75	3.56	0.94	0.56	1.13	1.31	6.38	3.88	1.00	3.0	G	1011820	
5/8	3/16	3.06	1.63	1.00	3.56	0.94	0.56	1.13	1.31	6.38	4.00	1.13	2.7	G	1011839	
3/4	-	3.38	2.13	1.00	4.25	1.16	0.63	1.44	1.63	7.66	4.58	1.13	4.4	H	1011848	
3/4	1/4	3.38	2.13	1.44	4.25	1.16	0.63	1.44	1.63	7.66	4.78	1.13	3.8	H	1011857	
0.875-1	-	4.41	2.12	1.25	6.06	1.41	0.88	2.00	2.33	9.55	5.72	1.50	9.7	I	1028177	

## Crosby Latched Sliding Choker Hooks

**1011802 - 1028177**

New style incorporates throat opening equal to or larger than old style hooks. Each product has a Product Identification Code (PIC) for material traceability, along with a Working Load Limit, and the name Crosby or "CG" forged into it. All hooks incorporate Crosby's patented QUIC-CHECK® marks to help in determining if throat opening dimension has changed.



# Sling Saver®

## SYNTHETIC SLINGS RATED LOAD:

FOLDING, BUNCHING, OR PINCHING OF SYNTHETIC SLINGS - WHICH OCCURS WHEN USED WITH SHACKLES, HOOKS, OR OTHER APPLICATIONS - WILL REDUCE THE RATED LOAD

## Sling Saver

### Product Line

Crosby, a world leader in lifting accessories, has developed the first full line of fittings designed for use with synthetic slings. For a 'Systems' approach to rigging hardware for synthetics, Crosby's Sling Saver line is the choice. This product range is designed to eliminate 'bunching', with the result that the full efficiency of the synthetic sling (Round or Webbing) can be achieved. Conventional hardware can reduce the efficiency of the sling up to 15% of its rated Working Load Limit.



### CR252 Shackle

#### Round Sling

Connected to Pad Eye, Eye Bolt, or Lifting Lug.



### CR344 Master Link & CR347 Assembly

To be sewn into Eye of Web Sling or attached using the CR-280 Connector



### CR281 Shackle

#### Round Sling

Connected to Pad Eye, Eye Bolt, or Lifting Lug.



### CR320W Web Hook

#### Web Slings or Round Slings

Connected to the load.



### CR253 Shackle

#### Round Sling

Connected to Pad Eye, Eye Bolt, or Lifting Lug.



### CR280 Connector with Spool

#### Web Sling or Round Sling

Connected to A-344 Master Link or 320N Eye Hook.



### CR256 Connecting Link

Connect two S-252 or S-253 Sling Saver Shackles together.



### CR-255 Spool

Designed to keep the load centered on the pin, thus keeping the sling positioned correctly in the shackle bow, and the S-256 Link Plate which is designed to connect two S-252 or S-253 Sling Saver Shackles together



### CR287 Choker Hook

For "choking" Web Sling and Round Sling



### CR282 Chain Connector

#### Web Slings or Round Slings

Connected to Grade 8 chain



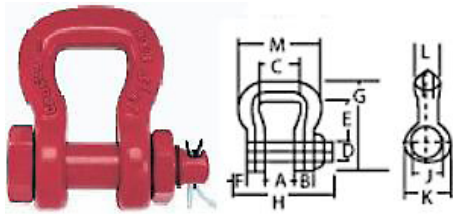
### CR I 25W Swivel Eye

#### Web Slings or Round Slings

Connected to Hoist Ring

100

The Maximum Proof Load for most Crosby Hooks and Connectors is 2-1/2 times the Working Load Limit. The Average Straightening Load (Ultimate Load) is 5 times the Working Load Limit.



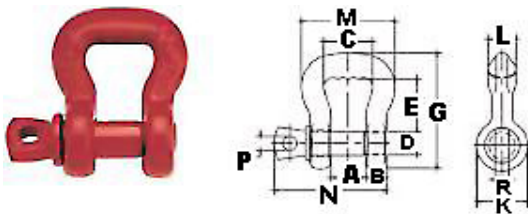
## CR252 Shackle

1020485 - 1020551

Web & Round Sling Safety Shackles  
Connected to Pad Eye, Eye Bolt, or Lifting Lug

CR252 Shackle																
Web Width	Round Sling	WLL Tons	A	B	C	D	E	F	G	H	J	K	L	M	Wt.	Item
1	1 & 2	3.25	1.06	0.58	1.38	0.75	1.50	0.44	3.38	3.68	1.12	1.50	0.75	2.69	1.40	1020485
1.5	3 & 4	6.5	1.25	0.75	1.75	0.88	1.88	0.50	4.15	4.25	1.31	1.81	1.00	3.38	2.40	1020496
2	5 & 6	8.75	1.38	0.88	2.25	1.00	2.81	0.56	5.50	4.72	1.50	2.09	1.12	4.19	4.10	1020507
3	7 & 8	12.5	1.62	1.12	3.25	1.25	3.06	0.75	6.34	5.88	1.88	2.62	1.38	5.62	8.00	1020518
4	9 & 10	20.5	2.12	1.38	4.50	1.50	5.75	0.88	9.75	7.19	2.25	3.12	1.75	7.50	16.90	1020529
5	11 & 12	35	2.50	1.75	5.50	2.00	6.34	1.12	11.50	9.31	3.00	4.19	2.25	9.19	35.00	1020540
6	13	50	3.00	2.12	6.50	2.25	7.70	1.25	13.75	10.38	3.38	4.75	2.75	11.00	57.50	1020551

Maximum Proof Load is 2.5 times the Working Load Limit. Minimum Ultimate Strength is 5 times the Working Load Limit



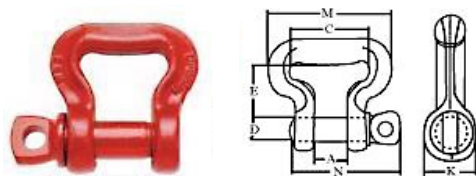
## CR253 Shackle

1020575 - 1020629

Web & Round Sling Shackles  
Connected to Pad Eye, Eye Bolt, or Lifting Lug

CR253 Shackle																
Web Width	Round Sling	WLL Tons	A	B	C	D	E	G	K	L	M	N	P	R	Wt.	Item
1	1 & 2	3.25	0.88	0.62	1.38	0.75	1.50	3.38	1.50	0.75	2.69	3.22	0.44	1.00	1.4	1020575
1.5	3 & 4	6.5	1.25	0.75	1.75	0.88	1.88	4.15	1.81	1.00	3.38	4.03	0.50	1.19	2.2	1020584
2	5 & 6	8.75	1.38	0.88	2.25	1.00	2.81	5.50	2.09	1.12	4.19	4.50	0.50	1.44	3.8	1020593
3	7 & 8	12.5	1.62	1.12	3.25	1.25	3.06	6.34	2.62	1.38	5.62	5.59	0.62	1.81	7.3	1020602
4	9 & 10	20.5	2.12	1.38	4.50	1.50	5.75	9.75	3.12	1.75	7.50	6.88	0.75	2.13	15.2	1020611
5	11 & 12	35	2.50	1.75	5.50	2.00	6.34	11.50	4.19	2.25	9.19	8.66	1.00	2.88	30.8	1020620
6	13	50	3.00	2.12	6.50	2.25	7.70	13.75	4.75	2.75	11.00	10.22	1.22	3.19	52	1020629

Maximum Proof Load is 2.5 times the Working Load Limit. Minimum Ultimate Strength is 5 times the Working Load Limit



## CR281 Shackle

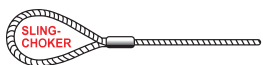
1021048 - 1021075

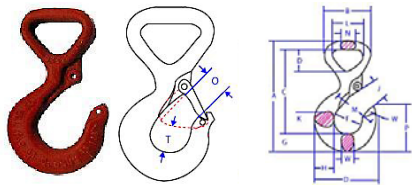
Web Sling Shackle  
Connected to Pad Eye, Eye Bolt, or Lifting Lug

Web Slings				CR281 Shackle									
Web Width	Eye Width	Ply	WLL	A	C	D	E	K	M	N	WT.	Item	
2	2	2	3.25	1.06	2.5	0.75	1.62	1.22	3.84	3.34	1.2	1021048	
3	1.5	2	4.5	1.25	2	0.88	1.5	1.41	3.38	3.97	1.5	1021057	
4	2	2	6.25	1.44	2.5	1	2	1.62	4.22	4.5	2.5	1021066	
6	3	2	8.5	1.69	3.62	1.13	2.75	1.84	5.64	5.13	4.3	1021075	

WLL-5:1

The Maximum Proof Load for most Crosby Hooks and Connectors is 2-1/2 times the Working Load Limit. The Average Straightening Load (Ultimate Load) is 5 times the Working Load Limit.



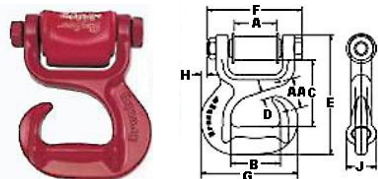


## CR320W Hook

1022706 - 1022728

Web Sling Eye Hook  
Prevents bunching in eyes.

CR320W Web Sling Hook																			
ID Code	WLL	A	B	C	D	F	G	H	J	K	L	M	N	O	P	Q	T	AA	Item
FA	1 1/2	5.25	2.26	3.98	3.11	1.38	0.84	0.94	0.93	0.71	1.5	0.63	0.75	0.91	2.24	1.01	0.98	2	1022706
HA	3	7.11	3.66	5.31	3.97	1.63	1.13	1.32	1.13	0.94	2.5	0.85	1.13	1.09	2.82	1.69	1.16	2	1022717
IA	5	9.33	5.13	7.06	4.81	2	1.44	1.63	1.47	1.31	3.75	1.13	1.63	1.36	3.51	2.59	1.53	2.5	1022728

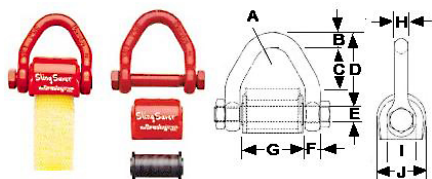


## CR287 Sliding Choker Hook

1021909 - 10219

Sliding Choker Hook  
For choking with web slings or round slings.

CR287 Sliding Choker Hook													
Web Width	WLL	A	B	C	D	E	F	G	H	J	AA	Wt.	Item
2	3 1/4	2.13	2.5	3.32	0.38	6.03	4.77	4.88	0.34	1.5	1.5	3.7	1021909
3	4 1/2	1.63	3.5	3.67	0.38	7.06	4.53	6.51	1.36	1.88	TBA	6.1	1021918

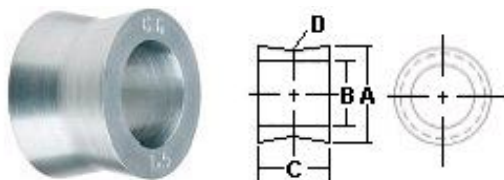


## CR280 Web Connectors

1021681 - 1021700

Web Connectors with Spool For fabricated special slings from stock web or round slings. Can also be used to install an eye hook

CR280 Web Connector with Spool																	
Round Sling Size	Web Width	Eye Width Inch	Ply	A	B	C	D	E	F	G	H	I	J	Wt.	WLL	Wt.	Item
1 & 2	2	2	2	0.75	0.62	1.63	2.44	0.63	0.62	2.69	0.56	1.19	2.02	1.5	3 1/4	1.5	1021681
3	3	1.5	2	0.75	0.69	1.1	2.01	0.75	0.69	2.19	0.6	1.38	2.34	1.9	2 1/2	1.9	1021690
4	4	2	2	0.75	0.81	1.66	2.56	0.88	0.75	2.69	0.69	1.62	2.46	2.9	6 1/4	2.9	1021700



## CR255 Spool

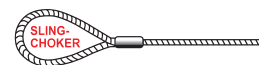
1020903 - 1020957

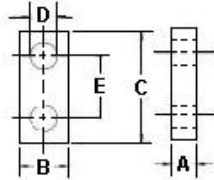
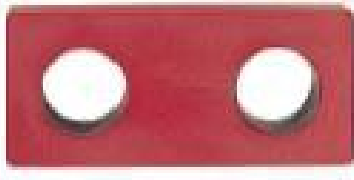
Crosby Spool Keeps load centered on pin and results in correct sling positioning on shackle bow.

CR255 Spool						
WLL Tons	A	B	C	D	Wt.	Item
3 1/4	1.25	0.81	0.75	0.19	0.33	1020903
6 1/2	1.50	0.94	1.00	0.25	0.57	1020912
8 3/4	1.75	1.05	1.19	0.31	0.89	1020921
12 1/2	2.00	1.31	1.50	0.38	1.45	1020930
20 1/2	2.50	1.63	1.88	0.44	2.79	1020939
35	3.25	2.13	2.25	0.50	2.40	1020948
50	3.75	2.38	2.75	0.62	4.06	1020957

102

The Maximum Proof Load for most Crosby Hooks and Connectors is 2-1/2 times the Working Load Limit. The Average Straightening Load (Ultimate Load) is 5 times the Working Load Limit.





## CR256 Link Plate

1020785 - 1020851

Crosby Link Plate Connects two S-252 or S-253 Sling Saver shackles together.

CR256 Link Plate							
WLL	A	B	C	D	E	Wt.	Item
3 1/4	0.75	1.50	3.38	0.81	1.88	0.83	1020785
6 1/2	1.00	1.75	4.12	0.94	2.25	1.62	1020796
8 3/4	1.25	2.00	4.75	1.06	2.62	2.71	1020807
12 1/2	1.50	2.50	6.00	1.31	2.35	5.18	1020818
20 1/2	1.75	3.00	7.00	1.62	3.75	8.19	1020829
35	2.00	4.00	9.25	2.12	5.00	17.19	1020840
50	3.00	5.00	10.50	2.38	5.75	37.4	1020851

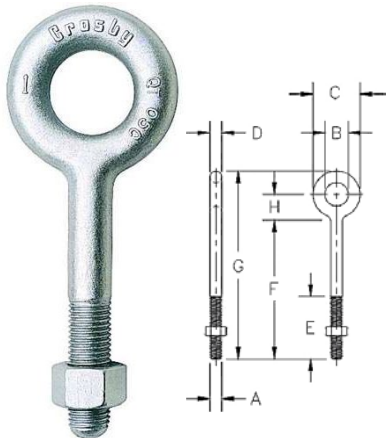
The "Link Plate" is designed to connect two(2) S-252 or S-253 "Sling Saver" Shackles together.

## 291 Regular Nut Eye Bolts

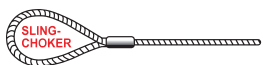
1043230 - 1043837

Recommended for in-line pull. These Regular Nut Eye Bolts are Forged Steel - Quenched and Tempered.

- All Bolts Hot Dip galvanized after threading (UNC).
- Furnished with standard hot dip galvanized hex nuts.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these bolts meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



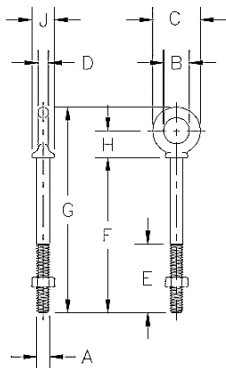
CR291 Regular Nut Eye Bolt											
Size	WLL	A	B	C	D	E	F	G	H	Wt.	Item
1/4 x 2	650	0.25	0.50	1.00	0.25	1.50	2.00	3.06	0.56	0.08	1043230
1/4 x 4	650	0.25	0.50	1.00	0.25	2.50	4.00	5.06	0.56	0.12	1043258
5/16 x 2-1/4	1,200	0.31	0.62	1.25	0.31	1.50	2.25	3.56	0.69	0.13	1043276
5/16 x 4-1/4	1,200	0.31	0.62	1.25	0.31	2.50	4.25	5.56	0.69	0.25	1043294
3/8 x 2-1/2	1,550	0.38	0.75	1.50	0.38	1.50	2.50	4.12	0.88	0.25	1043310
3/8 x 4-1/2	1,550	0.38	0.75	1.50	0.38	2.50	4.50	6.12	0.88	0.30	1043338
3/8 x 6	1,550	0.38	0.75	1.50	0.38	2.50	6.00	7.62	0.88	0.35	1043356
1/2 x 3-1/4	2,600	0.50	1.00	2.00	0.50	1.50	3.25	5.38	1.12	0.50	1043374
1/2 x 6	2,600	0.50	1.00	2.00	0.50	3.00	6.00	8.12	1.12	0.66	1043392
1/2 x 8	2,600	0.50	1.00	2.00	0.50	3.00	8.00	10.12	1.12	0.82	1043418
1/2 x 10	2,600	0.50	1.00	2.00	0.50	3.00	10.00	12.12	1.12	0.88	1043436
1/2 x 12	2,600	0.50	1.00	2.00	0.50	3.00	12.00	14.12	1.12	1.14	1043454
5/8 x 4	5,200	0.62	1.25	2.50	0.62	2.00	4.00	6.69	1.44	1.03	1043472
5/8 x 6	5,200	0.62	1.25	2.50	0.62	3.00	6.00	8.69	1.44	1.18	1043490
5/8 x 8	5,200	0.62	1.25	2.50	0.62	3.00	8.00	10.69	1.44	1.35	1043515
5/8 x 10	5,200	0.62	1.25	2.50	0.62	3.00	10.00	12.69	1.44	1.54	1043533
5/8 x 12	5,200	0.62	1.25	2.50	0.62	4.00	12.00	14.69	1.44	1.68	1043551
3/4 x 4-1/2	7,200	0.75	1.50	3.00	0.75	2.00	4.50	7.69	1.69	1.69	1043579
3/4 x 6	7,200	0.75	1.50	3.00	0.75	3.00	6.00	9.19	1.69	1.85	1043597
3/4 x 8	7,200	0.75	1.50	3.00	0.75	3.00	8.00	11.19	1.69	2.08	1043613
3/4 x 10	7,200	0.75	1.50	3.00	0.75	3.00	10.00	13.19	1.69	2.35	1043631
3/4 x 12	7,200	0.75	1.50	3.00	0.75	4.00	12.00	15.19	1.69	2.59	1043659
3/4 x 15	7,200	0.75	1.50	3.00	0.75	5.00	15.00	18.19	1.69	2.98	1043677
7/8 x 5	10,600	0.88	1.75	3.50	0.88	2.50	5.00	8.75	2.00	2.70	1043695
7/8 x 8	10,600	0.88	1.75	3.50	0.88	4.00	8.00	11.75	2.00	3.08	1043711
7/8 x 12	10,600	0.88	1.75	3.50	0.88	4.00	12.00	15.75	2.00	4.00	1043739
1 x 6	13,300	1.00	2.00	4.00	1.00	3.00	6.00	10.31	2.31	4.21	1043757
1 x 9	13,300	1.00	2.00	4.00	1.00	4.00	9.00	13.31	2.31	4.69	1043775
1 x 12	13,300	1.00	2.00	4.00	1.00	4.00	12.00	16.31	2.31	5.40	1043793
1 x 18	13,300	1.00	2.00	4.00	1.00	7.00	18.00	22.31	2.31	6.50	1043819
1-1/4 x 8	21,000	1.25	2.50	5.00	1.25	4.00	8.00	13.38	2.88	7.50	1043837



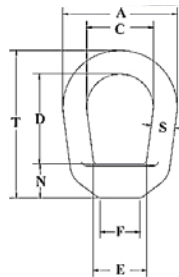
# CR277 Shoulder Nut Eye Bolt

**I045014 - I045372**

- Forged Steel - Quenched and Tempered - Hot Dip galvanized
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles
- Working Load Limits shown are for in-line pull
- All bolts hot dip galvanized after threading (UNC)
- Furnished with standard hot dip galvanized, heavy hex nuts



Crosby G-277 Shoulder Nut Eye Bolts												
Size	WLL	A	B	C	D	E	F	G	H	J	Wt.	Item
1/4 x 2	650	0.25	0.50	0.88	0.19	1.50	2.00	2.94	0.50	0.47	0.07	I045014
1/4 x 4	650	0.25	0.50	0.88	0.19	2.50	4.00	4.94	0.50	0.47	0.09	I045032
5/16 x 2-1/4	1,200	0.31	0.62	1.12	0.25	1.50	2.25	3.50	0.69	0.56	0.13	I045050
5/16 x 4-1/4	1,200	0.31	0.62	1.12	0.25	2.50	4.25	5.50	0.69	0.56	0.19	I045078
3/8 x 2-1/2	1,550	0.38	0.75	1.38	0.31	1.50	2.50	3.97	0.78	0.66	0.21	I045096
3/8 x 4-1/2	1,550	0.38	0.75	1.38	0.31	2.50	4.50	5.97	0.78	0.66	0.25	I045112
1/2 x 3-1/4	2,600	0.50	1.00	1.75	0.38	1.50	3.25	5.12	1.00	0.91	0.43	I045130
1/2 x 6	2,600	0.50	1.00	1.75	0.38	3.00	6.00	7.88	1.00	0.91	0.57	I045158
5/8 x 4	5,200	0.62	1.25	2.25	0.50	2.00	4.00	6.44	1.31	1.12	0.69	I045176
5/8 x 6	5,200	0.62	1.25	2.25	0.50	3.00	6.00	8.44	1.31	1.12	1.02	I045194
3/4 x 4-1/2	7,200	0.75	1.50	2.75	0.62	2.00	4.50	7.44	1.56	1.38	1.45	I045210
3/4 x 6	7,200	0.75	1.50	2.75	0.62	3.00	6.00	8.94	1.56	1.38	1.68	I045238
7/8 x 5	10,600	0.88	1.75	3.25	0.75	2.50	5.00	8.46	1.84	1.56	2.25	I045256
1 x 6	13,300	1.00	2.00	3.75	0.88	3.00	6.00	9.97	2.09	1.81	3.66	I045292
1 x 9	13,300	1.00	2.00	3.75	0.88	4.00	9.00	12.97	2.09	1.81	4.22	I045318
1-1/4 x 8	21,000	1.25	2.50	4.50	1.00	4.00	8.00	12.72	2.47	2.28	6.50	I045336
1-1/4 x 12	21,000	1.25	2.50	4.50	1.00	4.00	12.00	16.72	2.47	2.28	7.95	I045354
1-1/2 x 15	24,000	1.50	3.00	5.50	1.25	6.00	15.00	20.75	3.00	2.75	14.25	I045372



## CR-G400 Forged Eye Nuts

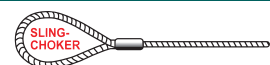
**I090438 - I090679**

- Forged Steel - Quenched and Tempered - Hot Dip galvanized
- Tapped with standard UNC class 2 threads after galvanizing
- Also available in blank (as forged) item (S-4028) or on request with metric threading (M-400)
- Recommended for In-Line pull

CR400 Eye Nuts															
Size	Nom Size	Tap Size	WLL	A	C	D	E	F	J	K	N	T	W	Wt.	Item
1	1/4	1/4	520	1.25	0.75	1.00	0.75	0.50	0.69	0.63	0.46	1.72	0.31	0.09	I090438
2	5/16	3/8	1,250	1.62	1.00	1.20	0.83	0.56	0.81	0.89	0.58	2.09	0.41	0.17	I090474
3A	3/8	1/2	2,250	2.00	1.25	1.44	1.08	0.81	1.00	1.09	0.73	2.55	0.50	0.28	I090517
4	1/2	5/8	3,600	2.50	1.50	1.92	1.35	1.00	1.31	1.31	0.83	3.25	0.69	0.60	I090535
5	5/8	3/4	5,200	3.00	1.75	2.28	1.59	1.12	1.50	1.57	1.05	3.96	0.84	1.00	I090553
6	3/4	7/8	7,200	3.50	2.00	2.50	1.96	1.38	1.88	1.77	1.14	4.40	1.00	1.65	I090571
7	7/8	1	10,000	4.00	2.25	2.92	2.21	1.56	2.13	2.02	1.30	5.10	1.19	2.69	I090599
8	1	1 1/4	15,500	4.50	2.50	3.35	2.46	1.88	2.38	2.27	1.52	5.87	1.38	3.87	I090633
9	1 1/8	1 3/8	18,500	5.00	2.75	4.00	2.69	2.00	2.56	2.53	1.67	6.51	1.50	5.00	I090651
10	1 1/4	1 1/2	22,500	5.62	3.12	4.31	3.09	2.25	3.00	2.82	1.83	7.06	1.66	6.78	I090679

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Crosby products meet or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load, and temperature requirements. Also meets other critical performance requirements set out by Crosby.

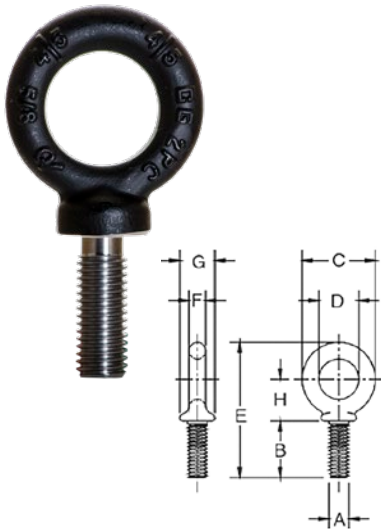




## CRS279 & CRM279 Machine Eye Bolts

9900182 - 9900289  
1045753 - 1046109

- S-279 Threaded UNC - M-279 Metric Threaded
- Forged Steel - Quenched & Tempered
- Working Load Limits shown are for in-line pull
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles



CR279 Machine Eyebolt											
Size	WLL	A	B	C	D	E	F	G	H	Wt.	Item
1/4 x 1	650	1/4-20	1.02	1.13	0.75	2.29	0.19	0.53	0.70	0.05	9900182
5/16 x 1-1/8	1,200	5/16-18	1.15	1.38	0.88	2.74	0.25	0.59	0.90	0.09	9900191
3/8 x 1-1/4	1,550	3/8-16	1.27	1.62	1.00	3.07	0.31	0.69	1.00	0.15	9900208
1/2 x 1-1/2	2,600	1/2-13	1.53	1.95	1.19	3.70	0.38	0.91	1.20	0.28	9900217
5/8 x 1-3/4	5,200	5/8-11	1.79	2.38	1.38	4.45	0.50	1.13	1.47	0.55	9900226
3/4 x 2	7,200	3/4-10	2.05	2.76	1.50	5.07	0.63	1.38	1.64	0.96	9900235
7/8 x 2-1/4	10,600	7/8-11	2.31	3.25	1.75	5.87	0.75	1.56	1.94	1.54	9900244
1 x 2-1/2	13,300	1-8	2.57	3.76	2.00	6.66	0.88	1.81	2.21	2.38	9900253
1-1/8 x 2-3/4	15,000	1-1/8-7	2.75	4.19	2.25	7.20	0.97	2.06	2.35	3.20	9900257
1-1/4 x 3	21,000	1-1/4-7	3.09	4.50	2.50	7.95	1.00	2.28	2.61	3.99	9900262
1-1/2 x 3-1/2	24,000	1-1/2-6	3.60	5.50	3.00	9.49	1.25	2.75	3.14	7.20	9900271
1-3/4 x 3-3/4	34,000	1-3/4-5	3.75	6.26	3.50	10.48	1.38	3.00	3.60	10.40	9900280
2 x 4	42,000	2-4-1/2	4.00	7.62	4.00	12.31	1.81	3.38	4.50	18.80	9900289
2-1/2 x 5	65,000	2-1/2-4	5.00	8.76	4.50	14.88	2.12	4.25	5.50	32.50	9900298

CR279M Metric Machine Eye Bolts											
Size	WLL	A	B	C	D	E	F	G	H	Wt.	Item
M6 x 1.0	462	M6 x 1.0	13.00	28.70	19.10	49.00	4.90	13.50	21.70	0.03	1045753
M8 x 1.0	924	M8 x 1.25	13.00	35.10	22.40	56.00	6.40	15.00	25.50	0.05	1045789
M10 x 1.5	1,478	M10 x 1.5	17.00	41.10	25.40	64.00	7.90	17.50	26.50	0.07	1045833
M12 x 1.75	2,310	M12 x 1.75	20.50	49.50	30.20	78.00	9.70	23.10	32.80	0.11	1045869
M16 x 2.0	4,158	M16 x 2.0	27.00	60.50	35.10	97.50	12.70	28.70	40.30	0.25	1045913
M20 x 2.5	5,775	M20 x 2.5	30.00	70.00	38.10	110.00	16.00	35.10	45.00	0.42	1045995
M24 x 3.0	9,240	M24 x 3.0	36.00	95.50	51.00	143.00	22.40	46.00	59.30	1.05	1046029
M27 x 3.0	11,000	M27 x 3.0	45.00	107.00	57.10	183.00	24.60	52.30	59.70	1.42	1046038
M30 x 3.5	13,860	M30 x 3.5	45.00	114.00	63.50	174.00	25.40	58.00	72.00	1.77	1046075
M36 x 4.0		M36 x 4.0	54.00	140.00	76.00	212.00	31.80	70.00	88.00	3.12	1046109

Ultimate Load is 5 times the Working Load Limit. Maximum Proof Load is 2 times the Working Load Limit.

\*\* On Request: Special threading, as forged bolts for customer conversion.

## CR264 Pad Eye

1090722 - 1090820

- Forged Steel — Quenched and Tempered
- Forged from 1035 Carbon Steel
- Excellent welding qualities
- Widely used on farm machinery, trucks, steel hulled marine vessels and material handling equipment
- Reference American Welding Society specs for proper welding procedures



CR264 Pad Eye										
Size	B	C	D	E	G	H	L	Wt.	Item	
0	0.25	0.19	0.63	0.31	0.63	0.09	0.75	0.03	1090722	
1	0.38	0.25	0.88	0.41	0.88	0.13	1.03	0.07	1090740	
1.5	0.63	0.25	1.00	0.44	1.13	0.16	1.31	0.10	1090768	
2	0.75	0.38	1.06	0.50	1.50	0.19	1.63	0.21	1090786	
4	1.00	0.56	1.44	0.78	2.13	0.22	2.34	0.53	1090802	
5	1.25	0.69	1.75	0.81	2.63	0.25	2.70	0.83	1090820	

Crosby Eye Bolts have an Ultimate Load 5x times the Working Load Limit. Maximum Proof Load is 2 times the Working Load Limit.



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RigPRO

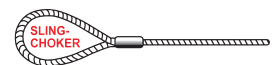
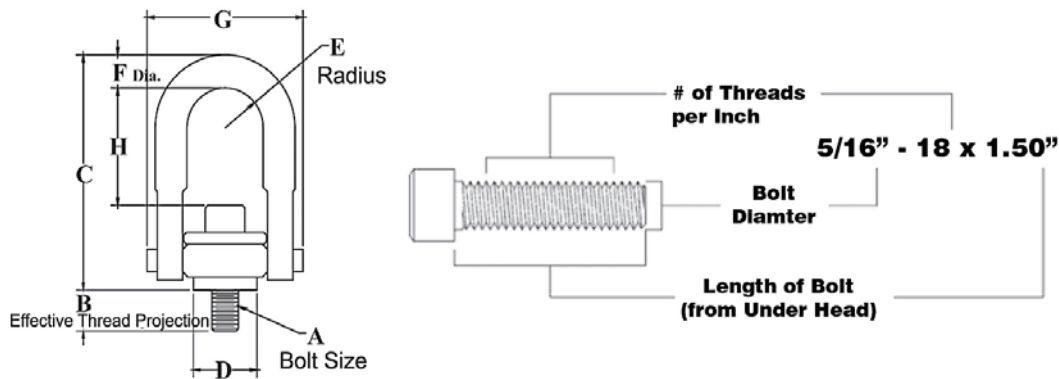


## CR-HR125 Swivel Hoist Rings

1016887 - 1017005

- Bolt specification is a Grade 8 Alloy socket head cap screw to ASTM A 574. All threads listed are UNC
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the drawing below
- The Working Load Limit and Recommended Torque value are permanently stamped into each washer
- Washer is colour coded for easy identification: Red - UNC thread
- Individually Proof Tested to 2-1/2 times Working Load Limit
- LBHR Long Bolt Hoist Rings are also available

CRHR125 Swivel Hoist Ring													
Frame Size	WLL	Torque	Bolt Size A	Thread Projection B	C	D	Radius E	Dia. F	G	H	Wt.	Item	
1	800	7	5/16 - 18 x 1.50	0.6	2.7	1.0	0.5	0.3	1.9	1.1	0.4	1016887	
1	1,000	12	3/8 - 16 x 1.50	0.6	2.7	1.0	0.5	0.3	1.9	1.1	0.4	1016898	
2	2,500	28	1/2 - 13 x 2.00	0.7	4.9	2.0	0.9	0.7	3.4	2.3	2.3	1016909	
2	2,500	28	1/2 - 13 x 2.50	1.2	4.9	2.0	0.9	0.7	3.4	2.3	2.4	1016912	
2	4,000	60	5/8 - 11 x 2.00	0.7	4.9	2.0	0.9	0.7	3.4	2.2	2.4	1016920	
2	4,000	60	5/8 - 11 x 2.75	1.5	4.9	2.0	0.9	0.7	3.4	2.2	2.5	1016924	
2	5,000	100	3/4 - 10 x 2.25	1.0	4.9	2.0	0.9	0.7	3.4	2.0	2.5	1016931	
2	5,000	100	3/4 - 10 x 2.75	1.5	4.9	2.0	0.9	0.7	3.4	2.0	2.6	1016935	
3	7,000	100	3/4 - 10 x 2.75	0.9	6.6	3.0	1.4	0.9	4.9	3.0	6.7	1016942	
3	7,000	100	3/4 - 10 x 3.50	1.6	6.6	3.0	1.4	0.9	4.9	3.0	6.8	1016942	
3	8,000	160	7/8 - 9 x 2.75	0.9	6.6	3.0	1.4	0.9	4.9	2.8	6.8	1016953	
3	8,000	160	7/8 - 9 x 3.50	1.6	6.6	3.0	1.4	0.9	4.9	2.8	7.0	1016957	
3	10,000	230	1 - 8 x 3.00	1.1	6.6	3.0	1.4	0.9	4.9	2.7	7.1	1016964	
3	10,000	230	1 - 8 x 4.00	2.1	6.6	3.0	1.4	0.9	4.9	2.7	7.3	1016969	
4	15,000	470	1-1/4 - 7 x 4.50	2.2	8.7	3.7	1.8	1.3	6.2	3.9	14.5	1016975	
5	24,000	800	1-1/2 - 6 x 6.50	3.0	12.4	4.7	2.4	1.8	8.5	5.6	37.7	1016986	
5	30,000	1,100	2 - 4-1/2 x 6.50	3.0	12.4	4.7	2.4	1.8	8.5	5.1	40.7	1016997	
6	50,000	2,100	2-1/2 - 4 x 8.00	4.0	16.9	5.8	3.0	2.3	11.7	8.0	88.0	1017001	
7	75,000	4,300	3 - 4 x 10.50	5.2	19.5	7.3	3.8	2.8	14.2	8.5	165.0	1017005	
8	100,000	6,600	3-1/2 - 4 x 13.00	7.0	22.1	7.8	4.0	3.3	15.9	9.3	240.0	1017009	



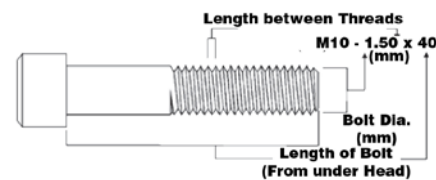
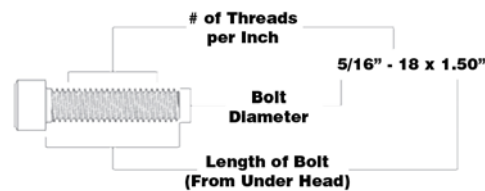
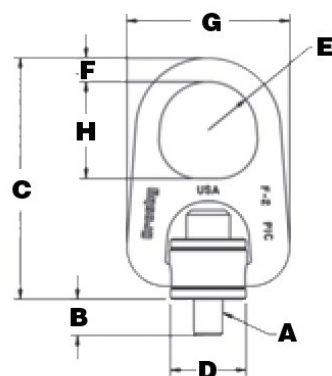
# CR-HR1000 Heavy Lift Swivel Hoist Ring

1068002 - 1068062

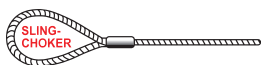
- Forged bail provides easily readable "Raised Lettering" showing the name Crosby or "CG" and PIC Code for material traceability.
- Greater durability providing the increased "Toughness" desired in potentially abusive field conditions
- Larger opening than standard Hoist Ring bail
- Top washer is colour coded for easy identification (Red for UNC threads and Silver for Metric threads)
- The Working Load Limit and Recommended Torque value are permanently stamped into each washer
- Individually Proof Tested to 2-1/2 times Working Load Limit
- Available in both UNC Thread and Metric Thread style
- BOLT SIZE IDENTIFICATION: The size of the bolt will be stated as in the accompanying drawing



CR-HR1000 Heavy Duty Swivel Hoist Ring UNC													
Bolt Size "A"	WLL	Frame		Thread			Radius			Dia.		Wt.	Item
		Size	Torque	Projection B	C	D	E	F	G	H			
5-16 - 18 x 1.50	800	1	7	0.5	3.7	1.0	0.6	0.4	2.3	1.4	0.6	1068002	
3/8 - 16 x 1.50	1,000	1	12	0.5	3.7	1.0	0.6	0.4	2.3	1.4	0.6	1068006	
1/2 - 13 x 2.25	2,500	2	28	0.7	6.3	2.0	1.3	0.6	4.2	2.5	3.1	1068010	
1/2 - 13 x 2.75	2,500	2	28	1.2	6.3	2.0	1.3	0.6	4.2	2.5	3.1	1068014	
5/8 - 11 x 2.25	4,000	2	60	0.7	6.3	2.0	1.3	0.6	4.2	2.5	3.1	1068018	
5/8 - 11 x 3.00	4,000	2	60	1.4	6.3	2.0	1.3	0.6	4.2	2.5	3.2	1068022	
3/4 - 10 x 2.50	5,000	2	100	0.9	6.3	2.0	1.3	0.6	4.2	2.5	3.2	1068026	
3/4 - 10 x 3.00	5,000	2	100	1.4	6.3	2.0	1.3	0.6	4.2	2.5	3.3	1068030	
3/4 - 10 x 3.00	7,000	3	100	0.9	8.7	3.0	1.6	1.0	6.3	3.3	10.1	1068034	
3/4 - 10 x 3.50	7,000	3	100	1.4	8.7	3.0	1.6	1.0	6.3	3.3	10.2	1068038	
7/8 - 9 x 3.00	8,000	3	160	0.9	8.7	3.0	1.6	1.0	6.3	3.3	10.2	1068042	
7/8 - 9 x 3.50	8,000	3	160	1.4	8.7	3.0	1.6	1.0	6.3	3.3	10.4	1068046	
1 - 8 x 3.50	10,000	3	230	1.4	8.7	3.0	1.6	1.0	6.3	3.3	10.5	1068050	
1 - 8 x 4.50	10,000	3	230	2.4	8.7	3.0	1.6	1.0	6.3	3.3	10.7	1068054	
1-1/4 - 7 x 5.00	15,000	4	470	2.1	11.2	3.7	2.0	1.3	7.8	4.0	21.9	1068058	
1-1/2 - 6 x 5.50	24,000	4	800	2.6	11.2	3.7	2.0	1.3	7.8	4.0	23.0	1068062	



Crosby products meet or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load, and temperature requirements. Also meets other critical performance requirements set out by Crosby.



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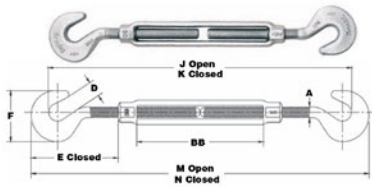
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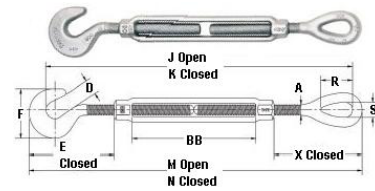
RigPRO

CR223 Hook & Hook Turnbuckle														
Size	WLL	A	D	E		J		K		N		BB	Wt.	Item
				Closed	F	Open	Closed	Open	Closed	Open				
1/4 x 4	400	0.25	0.45	1.59	1.27	11.12	7.12	11.94	7.94	4	0.30	1030011		
5/16 x 4-1/2	700	0.31	0.50	1.94	1.50	12.81	8.31	13.81	9.31	4.5	0.47	1030039		
3/8 x 6	1,000	0.38	0.56	2.30	1.77	16.50	10.50	17.72	11.72	6	0.78	1030057		
1/2 x 6	1,500	0.50	0.66	2.94	2.28	18.82	11.82	20.38	13.38	6	1.60	1030075		
1/2 x 12	1,500	0.50	0.66	2.94	2.28	30.82	17.82	32.38	19.38	12	2.28	1030119		
5/8 x 6	2,250	0.63	0.90	3.69	2.81	20.50	13.25	22.50	15.25	6	2.75	1030137		
5/8 x 12	2,250	0.63	0.90	3.69	2.81	32.50	19.25	34.50	21.25	12	3.50	1030173		
3/4 x 6	3,000	0.75	0.98	4.52	3.33	22.38	14.88	24.78	17.28	6	3.89	1030191		
3/4 x 12	3,000	0.75	0.98	4.52	3.33	34.38	20.88	36.78	23.28	12	5.43	1030235		
3/4 x 18	3,000	0.75	0.98	4.52	3.33	46.38	26.88	48.78	29.28	18	8.12	1030253		
7/8 x 12	4,000	0.88	1.13	5.19	3.78	36.00	22.25	38.75	25.00	12	8.10	1030271		
1 x 12	5,000	1.00	1.25	5.84	4.25	37.63	23.63	40.69	26.69	12	11.93	1030333		

CR225 Hook & Eye Turnbuckle																		
Size	WLL	A	D	E	F	J		K		M		N		X		BB	Wt.	Item
						Open	Closed	Open	Closed	R	S	Closed						
1/4 x 4	400	0.25	0.45	1.59	1.27	11.46	7.46	12.09	8.09	0.78	0.34	1.75	4	0.29	1030636			
5/16 x 4-1/2	700	0.31	0.50	1.94	1.50	13.19	8.69	13.47	9.47	0.94	0.44	2.09	4.5	0.49	1030654			
3/8 x 6	1,000	0.38	0.56	2.30	1.77	16.98	10.98	17.94	11.94	1.12	0.53	2.52	6	0.78	1030672			
1/2 x 6	1,500	0.50	0.66	2.94	2.28	19.45	12.45	20.67	13.67	1.44	0.72	3.23	6	1.61	1030690			
1/2 x 12	1,500	0.50	0.66	2.94	2.28	31.45	18.45	32.67	19.67	1.44	0.72	3.23	12	2.26	1030734			
5/8 x 6	2,250	0.63	0.90	3.69	2.81	21.96	13.96	22.72	15.47	1.75	0.88	3.90	6	2.70	1030752			
5/8 x 12	2,250	0.63	0.90	3.69	2.81	33.21	19.96	34.72	21.47	1.75	0.88	3.90	12	3.78	1030798			
3/4 x 6	3,000	0.75	0.98	4.52	3.33	23.13	15.63	24.95	17.45	2.09	1.00	4.69	6	3.89	1030814			
3/4 x 12	3,000	0.75	0.98	4.52	3.33	35.13	21.63	36.95	23.45	2.09	1.00	4.69	12	5.83	1030850			
3/4 x 18	3,000	0.75	0.98	4.52	3.33	47.13	27.63	48.95	29.45	2.09	1.00	4.69	18	6.33	1030878			
7/8 x 12	4,000	0.88	1.13	5.19	3.78	36.53	22.78	38.66	24.91	2.38	1.25	5.10	12	8.10	1030896			
1 x 12	5,000	1.00	1.25	5.84	4.25	38.80	24.80	41.20	27.20	3.00	1.44	6.36	12	11.93	1030958			



FOR TURNBUCKLES SIZES 1/4" THROUGH 2-1/2", A SHACKLE ONE SIZE SMALLER CAN BE REEVED THROUGH EYE



## CR223 Hook & Hook Turnbuckle

1030011 - 1030333

- End fittings are quenched and tempered or normalized, bodies heat treated by normalizing
- Hot Dip galvanized steel
- Recommended for straight or in-line pull only
- Forged jaw ends are fitted with bolts and nuts for 1/4" through 5/8", and pins and cotters on 3/4" through 2-3/4" sizes
- Modified UNJ thread on end fittings for improved fatigue properties
- Body has UNC threads
- Ultimate Load is 5 times the Working Load Limit. Individually proof loaded to 2-1/2 times the Working Load Limit Fatigue Rated
- Meets the performance requirements of Federal Specifications FF-T-791b, Type I Form I - CLASS 7, and ASTM F-1145, except for those provisions required of the contractor

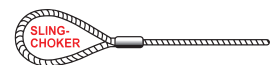
## CR225 Hook & Eye Turnbuckle

1030636 - 1030958

- End fittings are quenched and tempered or normalized, bodies heat treated by normalizing
- Hot Dip galvanized steel
- Turnbuckle eyes are forged elongated, by design, to maximize easy attachment in system and minimize stress in the eye
- Recommended for straight or in-line pull only
- Modified UNJ thread on end fittings for improved fatigue properties
- Body has UNC threads
- Lock Nuts available for all sizes
- Fatigue Rated
- Meets the performance requirements of Federal Specifications FF-T-791b, Type I Form I - CLASS 7, and ASTM F-1145, except for those provisions required of the contractor

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Crosby products meet or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load, and temperature requirements. Also meets other critical performance requirements set out by Crosby.



CR226 Eye & Eye Turnbuckle												
Size	WLL	A	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB	Wt.	Item
1/4 x 4	500	0.25	11.80	7.80	12.25	8.25	0.78	0.34	1.75	4.00	0.3	1031252
5/16 x 4-1/2	800	0.31	13.56	9.06	14.12	9.62	0.94	0.44	2.09	4.50	0.5	1031270
3/8 x 6	1,200	0.38	17.47	11.47	18.16	12.16	1.12	0.53	2.52	6.00	0.8	1031298
1/2 x 6	2,200	0.50	20.08	13.08	20.96	13.96	1.44	0.72	3.23	6.00	1.5	1031314
1/2 x 12	2,200	0.50	32.08	19.08	32.96	19.96	1.44	0.72	3.23	12.00	2.1	1031350
5/8 x 6	3,500	0.63	21.93	14.68	22.93	15.68	1.75	0.88	3.90	6.00	2.4	1031378
5/8 x 12	3,500	0.63	33.93	20.68	34.93	21.68	1.75	0.88	3.90	12.00	3.4	1031412
3/4 x 6	5,200	0.75	23.88	16.38	25.12	17.62	2.09	1.00	4.69	6.00	3.8	1031430
3/4 x 12	5,200	0.75	35.88	22.38	37.12	23.62	2.09	1.00	4.69	12.00	5.5	1031476
3/4 x 18	5,200	0.75	47.88	28.38	49.12	29.62	2.09	1.00	4.69	18.00	7.2	1031494
7/8 x 12	7,200	0.88	37.07	23.32	38.57	24.82	2.38	1.25	5.10	12.00	7.2	1031519
7/8 x 18	7,200	0.88	49.07	29.32	50.57	30.82	2.38	1.25	5.10	18.00	10.0	1031537
1 x 6	10,000	1.00	27.97	19.97	29.72	21.72	3.00	1.44	6.36	6.00	9.0	1031555
1 x 12	10,000	1.00	39.97	25.97	41.97	27.72	3.00	1.44	6.36	12.00	11.5	1031573
1 x 18	10,000	1.00	51.97	31.97	53.72	33.72	3.00	1.44	6.36	18.00	14.0	1031591
1 x 24	10,000	1.00	63.97	37.97	65.72	39.72	3.00	1.44	6.36	24.00	17.3	1031617
1-1/4 x 12	15,200	1.25	42.81	28.31	45.06	30.56	3.56	1.81	7.72	12.00	19.0	1031635
1-1/4 x 18	15,200	1.25	54.81	34.31	57.06	36.56	3.56	1.81	7.72	18.00	23.0	1031653
1-1/4 x 24	15,200	1.25	66.81	40.31	69.06	42.56	3.56	1.81	7.72	24.00	27.0	1031671
1-1/2 x 12	21,400	1.50	45.50	30.50	48.00	33.00	4.06	2.12	8.62	12.00	27.5	1031699
1-1/2 x 18	21,400	1.50	57.50	36.50	60.00	39.00	4.06	2.12	8.62	18.00	31.0	1031715
1-1/2 x 24	21,400	1.50	69.50	42.50	72.00	45.00	4.06	2.12	8.62	24.00	37.5	1031733
1-3/4 x 18	28,000	1.75	57.38	39.38	60.38	42.38	4.62	2.38	10.00	18.00	52.5	1031779
1-3/4 x 24	28,000	1.75	69.38	45.38	72.38	48.38	4.62	2.38	10.00	24.00	58.0	1031797
2 x 24	37,000	2.00	75.69	51.69	79.19	55.19	5.75	2.69	13.09	24.00	85.3	1031813
2-1/2 x 24	60,000	2.50	78.62	54.62	82.62	58.62	6.50	3.12	13.78	24.00	144.3	1031831
2-3/4 x 24	75,000	2.75	81.00	57.00	85.50	61.50	7.00	3.25	15.22	24.00	194.0	1031859

Proof Load is 2.5 times the Working Load Limit. Ultimate Load is 5 times the Working Load Limit.. Mechanical Galvanized

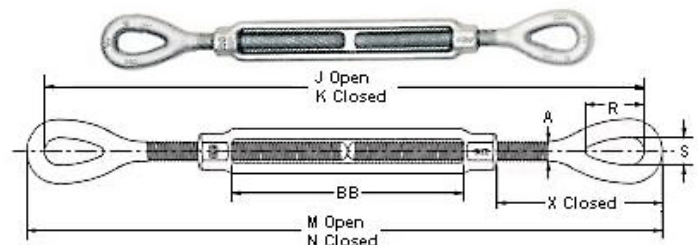
## CR226 Eye & Eye Turnbuckle

1031252 - 1031859

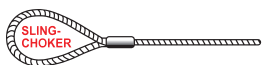
Turnbuckle eyes are forged elongated, by design, to maximize easy attachment in system and minimize stress in the eye

- End fittings are quenched and tempered or normalized, bodies heat treated by normalizing
- Hot Dip galvanized steel
- Modified UNJ thread on end fittings for improved fatigue properties.- Body has UNC threads
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load, and temperature requirements
- Recommended for straight or in-line pull only

FOR TURNBUCKLES SIZES 1/4" THROUGH 2-1/2", A SHACKLE ONE SIZE SMALLER CAN BE REEVED THROUGH EYE



Crosby products meet or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load, and temperature requirements. Also meets other critical performance requirements set out by Crosby.



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RigPRO

CR227 Jaw & Eye Turnbuckle																
Size	WLL	A	B	E.		J	K	M	N	X				Pin Dia.	Wt.	Item
				Closed	G	Open	Closed	Open	Closed	R	S	Closed	BB			
1/4 x 4	500	0.25	0.45	1.58	0.62	11.35	7.35	12.07	8.07	0.78	0.34	1.75	4.00	0.25	0.30	1031877
5/16 x 4-1/2	800	0.31	0.50	1.98	0.87	13.71	8.71	14.01	9.51	0.94	0.44	2.09	4.50	0.25	0.50	1031895
3/8 x 6	1,200	0.38	0.54	2.12	0.87	16.81	10.81	17.77	11.77	1.12	0.53	2.52	6.00	0.31	0.80	1031911
1/2 x 6	2,200	0.50	0.55	2.75	1.06	19.29	12.29	20.48	13.48	1.44	0.72	3.23	6.00	0.38	1.51	1031939
1/2 x 9	2,200	0.50	0.55	2.75	1.06	25.29	15.29	26.48	16.48	1.44	0.72	3.23	9.00	0.38	1.71	1031957
1/2 x 12	2,200	0.50	0.55	2.75	1.06	31.29	18.29	32.48	19.48	1.44	0.72	3.23	12.00	0.38	2.08	1031975
5/8 x 6	3,500	0.63	0.82	3.50	1.31	20.99	13.74	22.53	15.28	1.75	0.88	3.90	6.00	0.50	2.35	1031993
5/8 x 9	3,500	0.63	0.82	3.50	1.31	26.99	16.74	28.53	18.28	1.75	0.88	3.90	9.00	0.50	3.17	1032019
5/8 x 12	3,500	0.63	0.82	3.50	1.31	32.99	19.74	34.53	21.28	1.75	0.88	3.90	12.00	0.50	3.61	1032037
3/4 x 6	5,200	0.75	1.03	4.18	1.50	22.69	15.19	24.61	17.11	2.09	1.00	4.69	6.00	0.62	4.00	1032055
3/4 x 9	5,200	0.75	1.03	4.18	1.50	28.69	18.19	30.61	20.11	2.09	1.00	4.69	9.00	0.62	4.75	1032073
3/4 x 12	5,200	0.75	1.03	4.18	1.50	34.69	21.19	36.61	23.11	2.09	1.00	4.69	12.00	0.62	5.93	1032091
3/4 x 18	5,200	0.75	1.03	4.18	1.50	46.69	27.19	48.61	29.11	2.09	1.00	4.69	18.00	0.62	7.00	1032117
7/8 x 12	7,200	0.88	1.23	4.85	1.75	36.09	22.34	38.32	24.57	2.38	1.25	5.10	12.00	0.75	8.36	1032750
7/8 x 18	7,200	0.88	1.23	4.85	1.75	48.09	28.34	50.32	30.57	2.38	1.25	5.10	18.00	0.75	9.75	1032153
1 x 6	10,000	1.00	1.31	5.53	2.06	26.34	18.34	28.89	20.89	3.00	1.44	6.36	6.00	0.88	8.92	1032171
1 x 12	10,000	1.00	1.31	5.53	2.06	38.34	24.34	40.89	26.89	3.00	1.44	6.36	12.00	0.88	11.20	1032199
1 x 18	10,000	1.00	1.31	5.53	2.06	50.34	30.34	52.89	32.89	3.00	1.44	6.36	18.00	0.88	13.30	1032215
1 x 24	10,000	1.00	1.31	5.53	2.06	62.34	36.34	64.89	38.89	3.00	1.44	6.36	24.00	0.88	17.00	1032233
1-1/4 x 12	15,200	1.25	1.86	7.21	2.81	41.32	26.82	44.55	30.05	3.56	1.81	7.72	12.00	1.12	19.42	1032251
1-1/4 x 18	15,200	1.25	1.86	7.21	2.81	53.32	32.82	56.05	36.05	3.56	1.81	7.72	18.00	1.12	24.18	1032279
1-1/4 x 24	15,200	1.25	1.86	7.21	2.81	65.32	38.82	68.55	42.05	3.56	1.81	7.72	24.00	1.12	28.50	1032297
1-1/2 x 12	21,400	1.50	2.25	7.88	2.81	43.50	28.50	47.25	32.25	4.06	2.12	8.62	12.00	1.38	28.99	1032313
1-1/2 x 18	21,400	1.50	2.25	7.88	2.81	55.50	34.50	59.25	38.25	4.06	2.12	8.62	18.00	1.38	35.00	1032331
1-1/2 x 24	21,400	1.50	2.25	7.88	2.81	67.50	40.50	71.25	44.25	4.06	2.12	8.62	24.00	1.38	39.18	1032359
1-3/4 x 18	28,000	1.75	2.60	9.40	3.38	55.38	37.38	59.78	41.78	4.62	2.38	10.00	18.00	1.62	53.75	1032395
1-3/4 x 24	28,000	1.75	2.60	9.40	3.38	67.38	43.38	71.78	47.78	4.62	2.38	10.00	24.00	1.62	60.68	1032411
2 x 24	37,000	2.00	2.62	11.86	3.69	72.62	48.62	77.95	53.95	5.75	2.69	13.09	24.00	2.00	89.00	1032439
2-1/2 x 24	60,000	2.50	3.06	13.56	4.44	75.80	51.80	82.40	58.40	6.50	3.12	13.78	24.00	2.25	150.00	1032457
2-3/4 x 24	75,000	2.75	3.68	15.22	4.19	77.88	53.88	85.50	61.50	7.00	3.25	15.22	24.00	2.75	183.00	1032475

Proof Load is 2.5 times the Working Load Limit. Ultimate Load is 5 times the Working Load Limit. Mechanical Galvanized

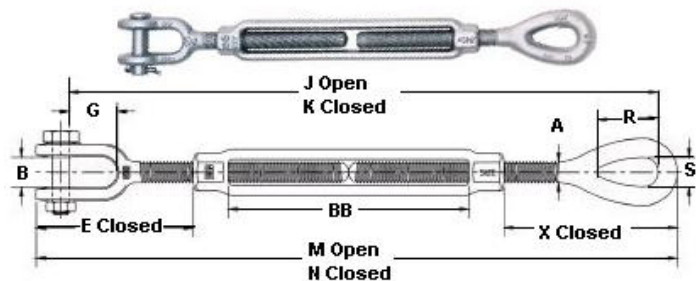
## CR-227 Jaw & Eye Turnbuckles

### CR227-004X04 - 212X24

Turnbuckles eyes are forged and elongated, by design, to maximize easy attachment in system and minimize stress in the eye.

Forged jaw ends are fitted with bolts and nuts for 1/4" through 5/8", and pins and cotters on 3/4" through 2-3/4" sizes.

FOR TURNBUCKLES SIZES 1/4" THROUGH 2-1/2", A SHACKLE ONE SIZE SMALLER CAN BE REEVED THROUGH EYE



CR228 Jaw & Jaw Turnbuckle													
Size	WLL	A	B	E Closed	G	J Open	K Closed	M Open	N Closed	BB	Pin Dia.	Wt.	Item
1/4 x 4	500	0.25	0.45	1.58	0.62	10.90	6.90	11.90	7.90	4.00	0.25	0.36	1032493
5/16 x 4-1/2	800	0.31	0.50	1.98	0.87	12.36	8.36	13.90	9.40	4.50	0.25	0.52	1032518
3/8 x 6	1,200	0.38	0.54	2.12	0.87	16.14	10.14	17.38	11.38	6.00	0.31	0.81	1032536
1/2 x 6	2,200	0.50	0.55	2.75	1.06	18.50	11.50	20.00	13.00	6.00	0.38	1.56	1032554
1/2 x 9	2,200	0.50	0.55	2.75	1.06	24.50	14.50	26.00	16.00	9.00	0.38	1.74	1032572
1/2 x 12	2,200	0.50	0.55	2.75	1.06	30.50	17.50	32.00	19.00	12.00	0.38	2.40	1032590
5/8 x 6	3,500	0.63	0.82	3.50	1.31	20.05	12.80	22.13	14.88	6.00	0.50	2.72	1032616
5/8 x 9	3,500	0.63	0.82	3.50	1.31	26.05	15.80	28.13	17.88	9.00	0.50	3.43	1032634
5/8 x 12	3,500	0.63	0.82	3.50	1.31	32.05	18.80	34.13	20.88	12.00	0.50	3.91	1032652
3/4 x 6	5,200	0.75	1.03	4.18	1.50	21.50	14.00	24.10	16.60	6.00	0.62	4.11	1032670
3/4 x 9	5,200	0.75	1.03	4.18	1.50	27.50	17.00	30.10	19.60	9.00	0.62	5.46	1032698
3/4 x 12	5,200	0.75	1.03	4.18	1.50	33.50	20.00	36.10	22.60	12.00	0.62	6.56	1032714
3/4 x 18	5,200	0.75	1.03	4.18	1.50	45.50	26.00	48.10	28.60	18.00	0.62	8.03	1032732
7/8 x 12	7,200	0.88	1.23	4.85	1.75	35.11	21.36	38.07	24.32	12.00	0.75	8.17	1032750
7/8 x 18	7,200	0.88	1.23	4.85	1.75	47.11	27.36	50.07	30.32	18.00	0.75	10.78	1032778
1 x 6	10,000	1.00	1.31	5.53	2.06	24.72	16.72	28.06	20.06	6.00	0.88	10.18	1032796
1 x 12	10,000	1.00	1.31	5.53	2.06	36.72	22.72	40.06	26.06	12.00	0.88	13.14	1032812
1 x 18	10,000	1.00	1.31	5.53	2.06	48.72	28.72	52.06	32.06	18.00	0.88	15.14	1032830
1 x 24	10,000	1.00	1.31	5.53	2.06	60.72	34.72	64.06	38.06	24.00	0.88	18.08	1032858
1-1/4 x 12	15,200	1.25	1.86	7.21	2.81	39.84	25.34	44.04	29.54	12.00	1.12	20.59	1032876
1-1/4 x 18	15,200	1.25	1.86	7.21	2.81	51.84	31.34	56.04	35.54	18.00	1.12	24.68	1032894
1-1/4 x 24	15,200	1.25	1.86	7.21	2.81	63.84	37.34	68.04	41.54	24.00	1.12	28.20	1032910
1-1/2 x 12	21,400	1.50	2.25	7.88	2.81	41.50	26.50	46.50	31.50	12.00	1.38	30.69	1032938
1-1/2 x 18	21,400	1.50	2.25	7.88	2.81	53.50	32.50	58.50	37.50	18.00	1.38	36.75	1032956
1-1/2 x 24	21,400	1.50	2.25	7.88	2.81	65.50	38.50	70.50	43.50	24.00	1.38	41.60	1032974
1-3/4 x 18	28,000	1.75	2.60	9.40	3.38	53.38	35.38	59.18	41.18	18.00	1.62	54.00	1033018
1-3/4 x 24	28,000	1.75	2.60	9.40	3.38	65.38	41.38	71.18	47.18	24.00	1.62	63.36	1033036
2 x 24	37,000	2.00	2.62	11.86	3.69	69.54	45.54	76.72	52.72	24.00	2.00	94.25	1033054
2-1/2 x 24	60,000	2.50	3.06	13.56	4.44	72.98	48.98	82.18	58.18	24.00	2.25	165.00	1033072
2-3/4 x 24	75,000	2.75	3.68	15.22	4.19	74.75	50.75	85.50	61.50	24.00	2.75	198.00	1033090

Proof Load is 2.5 times the Working Load Limit. Ultimate Load is 5 times the Working Load Limit. Mechanical Galvanized

## CR-228 Jaw & Jaw Turnbuckles

### CR228-004X04 - 212X24

Turnbuckles eyes are forged and elongated, by design, to maximize easy attachment in system and minimize stress in the eye.

Forged jaw ends are fitted with bolts and nuts for 1/4" through 5/8", and pins and cotters on 3/4" through 2-3/4" sizes.

FOR TURNBUCKLES SIZES 1/4" THROUGH 2-1/2", A SHACKLE ONE SIZE SMALLER CAN BE REEVED THROUGH EYE



CR2510 Stub end Turnbuckle									
Size	WLL	A	R	S	T	C	W	Wt.	Item
3/8 x 6	1,200	0.38	6.00	7.13	0.56	4.44	16.00	0.75	1033143
1/2 x 6	2,200	0.50	6.00	7.50	0.75	4.25	16.00	1.25	1033161
5/8 x 6	3,500	0.63	6.00	7.88	0.94	4.06	16.00	2.11	1033223
3/4 x 6	5,200	0.75	6.00	8.25	1.13	4.38	17.00	3.27	1033287
7/8 x 6	7,200	0.88	6.00	8.63	1.31	4.69	18.00	4.78	1033367
1 x 6	10,000	1.00	6.00	9.00	1.50	5.00	19.00	6.36	1033429
1 x 12	10,000	1.00	12.00	15.00	1.50	5.00	25.00	8.8	1033447
1-1/8 x 6	12,400	1.13	6.00	9.13	1.56	4.94	19.00	8.88	1033508
1-1/4 x 6	15,200	1.25	6.00	9.13	1.56	5.44	20.00	10.18	1033526
1-1/4 x 12	15,200	1.25	12.00	15.12	1.56	5.44	26.00	13.6	1033544
1-1/2 x 12	21,400	1.50	12.00	15.75	1.88	5.38	26.50	20.44	1033642

(in.)	Jam Nuts				CR4060 Right	CR4061 Left
	O	P	Q	Wt.	Item	Item
1/4"	0.44	0.50	0.16	0.08	1075115	1075491
5/16"	0.50	0.56	0.19	0.13	1075133	1075516
3/8"	0.56	0.64	0.22	0.20	1075151	1075534
1/2"	0.75	0.86	0.31	0.40	1075197	1075570
5/8"	0.94	1.06	0.38	0.70	1075213	1075598
3/4"	1.13	1.26	0.42	0.11	1075231	1075614
7/8"	1.31	1.50	0.48	1.63	1075259	1075632
1"	1.50	1.69	0.55	2.38	1075277	1075650
1-1/4"	1.88	2.13	0.72	6.25	1075311	1075696
1-1/2"	2.25	2.53	0.84	7.20	1075357	1075730
1-3/4"	2.75	3.18	1.00	11.20	1075393	1075776
2"	3.12	3.61	1.12	15.00	1075419	1075794
2-1/2"	3.88	4.47	1.50	33.00	1075455	1075838
2-3/4"	4.25	4.91	1.62	42.50	1075473	1075856

CR643 Weldless Rings					
Size "A"	WLL	B	C	Wt.	Item
7/8 x 4	7,200	4.00	5.75	2.72	1013780
7/8 x 5-1/2	5,600	5.50	7.25	3.47	1013806
1 x 4	10,800	4.00	6.00	3.69	1013824
1-1/8 x 6	10,400	6.00	8.25	6.60	1013842
1-1/4 x 5	17,000	5.00	7.50	6.82	1013860
1-3/8 x 6	19,000	6.00	8.75	10.12	1013888

Ultimate Load is 6 times the Working Load Limit.

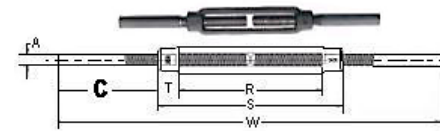
## CR2510 Stub End Turnbuckle

**1033143 - 1033642**

End fittings are Quenched and Tempered or Normalized, bodies heat treated by normalizing. Complete assembly is self-coloured.

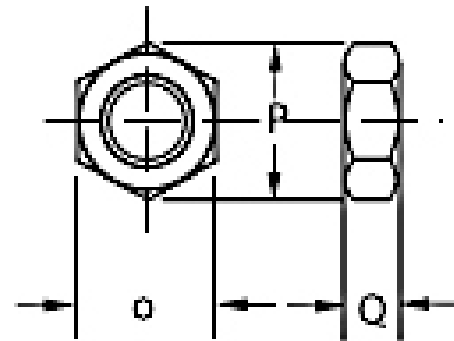
Reference American Welding Society Specifications for proper welding procedures.

Meets the performance requirements of Federal Specifications FF-T-791b, Type I Form I - CLASS 3, and ASTM F-1145, except for those provisions required of the contractor.



## Jam Nuts

**1075115 - 1075473**  
**1075491 - 1075856**



## CR643 Weldless Rings

**1013780 - 1013888**

Forged carbon steel - Quenched and Tempered. Self - Coloured.





CR341G Weldless Slings Links Galv								
Size "A"	WLL	B	C	D	E	F	Wt.	Item
3/8	1,800	1.13	0.75	3.00	2.25	0.38	0.23	1013897
1/2	2,900	1.50	1.00	4.00	3.00	0.50	0.55	1013913
5/8	4,200	1.87	1.25	5.00	3.75	0.63	1.06	1013931
3/4	6,000	2.25	1.50	6.00	4.50	0.75	1.88	1013959
7/8	8,300	2.63	1.75	7.00	5.25	0.88	2.75	1013977
1	10,800	3.00	2.00	8.00	6.00	1.00	4.35	1013995
1 1/4	16,750	4.00	2.50	10.25	7.50	1.25	7.60	1014011

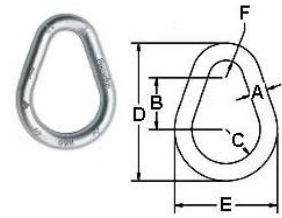
Ultimate Load is 6 times the Working Load Limit. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120°.

CR341A Alloy Pear Shaped Links								
Size- A	WLL	B	C	D	E	F	Wt.	Item
1/2"	7,000	1.50	1.00	4.00	3.00	0.50	0.55	1013575
5/8"	9,000	1.88	1.25	5.00	3.75	0.63	1.10	1013584
3/4"	12,300	2.25	1.50	6.00	4.50	0.75	1.76	1013595
7/8"	14,000	2.63	1.75	7.00	5.25	0.88	2.82	1013604
1"	24,360	3.00	2.00	8.00	6.00	1.00	4.22	1013613
1-1/8"	30,600	3.38	2.25	8.75	6.75	1.13	6.25	1013622
1-1/4"	36,000	3.75	2.50	10.00	7.75	1.25	8.25	1013631
1-3/8"	43,000	5.50	2.75	11	8.25	TBA	11.25	1013640
1-1/2"	54,300	TBA	3.00	12	9	TBA	14.25	1013649
1-5/8"	62,600	4.88	3.25	13.00	9.75	1.63	18.50	1013658
1-3/4"	84,900	5.25	3.50	14.00	10.50	1.75	22.50	1013667
1-7/8"	95,800	5.63	3.75	15.00	11.25	1.88	29.00	1013676
2"	102,600	6.00	4.00	16.00	12.00	2.00	34.00	1013685
2-1/4"	143,100	6.75	4.50	18.00	13.50	2.25	48.00	1013694
2-1/2"	147,300	7.50	5.00	20.00	15.00	2.50	66.00	1013703
2-3/4"	216,900	8.25	5.50	22.00	16.50	2.75	88.00	1013712
3"	228,000	9.00	6.00	24.00	18.00	3.00	114.00	1013721
3-1/4"	262,200	9.75	6.50	26.00	19.50	3.25	146.00	1013730
3-1/2"	279,000	10.50	7.00	28.00	21.00	3.50	181.00	1013739
4"	373,000	12.00	8.00	32.00	24.00	4.00	271.00	1013748

Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120°. Minimum Ultimate load is 5 times the Working Load Limit.

CR340 End Link							
Size "A"	WLL	B	C	D	Wt.	Item	
5/16	2,500	0.50	1.75	1.18	0.15	1014057	
3/8	3,800	0.56	1.88	1.38	0.22	1014075	
1/2	6,500	0.75	2.38	1.81	0.49	1014093	
5/8	9,300	1.00	3.25	2.32	0.97	1014119	
3/4	14,000	1.13	3.50	2.68	1.51	1014137	
7/8	12,000	2.00	5.13	3.75	2.59	1014155	
1	15,200	2.25	5.75	4.25	3.95	1014173	

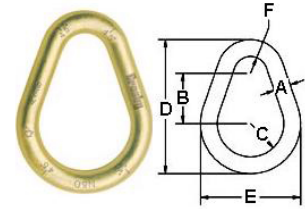
Ultimate Load is 5 times the Working Load Limit. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120°.



## CR341G Weldless Sling Links

1013897 - 1014011

Forged carbon steel - Quenched and Tempered. Self - Coloured or Hot Dip Galvanized

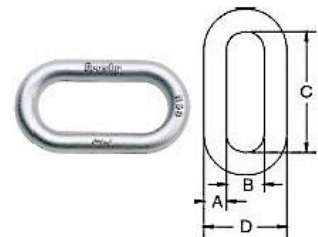


## CR341A Alloy Pear Shaped Links

1013575 - 1013748

Alloy Steel - Quenched and Tempered. Individually Proof Tested at 2 times Working Load Limit with certification. Proof Test certification shipped with each link.

Sizes 1/2", 5/8", 3/4", 7/8", 1", 1-1/4", and 1-3/8" are forged.



## CR340 End Link

1014057 - 1014173

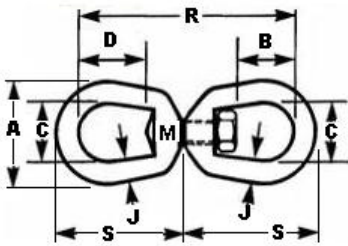
Forged carbon steel - Quenched and Tempered. Self - Coloured or Hot Dip Galvanized

CR402 Eye & Eye Swivel											
Size	WLL	A	B	C	D	J	M	R	S	Wt.	Item
1/4"	850	1.25	0.69	0.75	1.06	0.69	0.31	2.94	1.69	0.2	1016019
5/16"	1,250	1.63	0.81	1.00	1.25	0.81	0.38	3.56	2.06	0.4	1016037
3/8"	2,250	2.00	0.94	1.25	1.50	1.00	0.50	4.31	2.50	0.7	1016055
1/2"	3,600	2.50	1.31	1.50	2.00	1.31	0.63	5.44	3.19	1.3	1016073
5/8"	5,200	3.00	1.56	1.75	2.38	1.50	0.75	6.56	3.88	2.5	1016091
3/4"	7,200	3.50	1.75	2.00	2.63	1.88	0.88	7.19	4.31	4.0	1016117
7/8"	10,000	4.00	2.06	2.25	3.06	2.13	1.00	8.38	5.00	6.3	1016135
1"	12,500	4.50	2.31	2.50	3.50	2.38	1.13	9.63	5.75	9.0	1016153
1-1/4"	18,000	5.63	2.69	3.13	3.69	3.00	1.50	11.44	6.75	16.4	1016199



## CR402 Eye & Eye Swivels

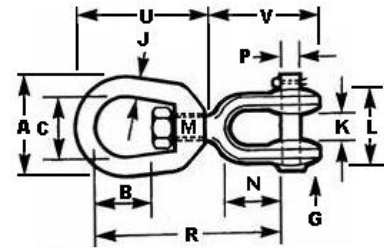
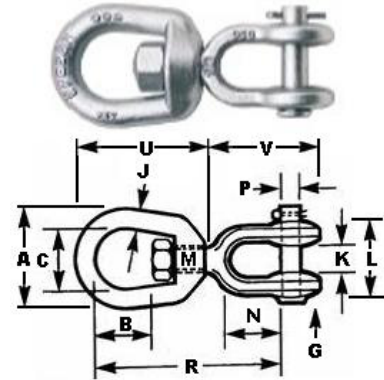
1016019 - 1016199



CR402 and CR403 swivels are positioning devices and are not intended to rotate under load

## CR402 Eye & Jaw Swivels

1016395 - 1016572



CR403 Eye & Jaw Swivel																
Size	WLL	A	B	C	G	J	K	L	M	N	P	R	U	V	Wt.	Item
1/4"	850	1.25	0.69	0.75	0.69	0.69	0.47	1.03	0.31	0.88	0.25	2.63	1.69	1.69	0.21	1016395
5/16"	1,250	1.63	0.81	1.00	0.81	0.81	0.50	1.13	0.38	0.88	0.31	2.94	2.06	1.81	0.34	1016411
3/8"	2,250	2.00	0.94	1.25	1.00	1.00	0.63	1.41	0.50	1.06	0.38	3.63	2.50	2.25	0.66	1016439
1/2"	3,600	2.50	1.31	1.50	1.31	1.31	0.75	1.75	0.63	1.31	0.50	4.50	3.19	2.88	1.34	1016457
5/8"	5,200	3.00	1.56	1.75	1.63	1.50	0.94	2.06	0.75	1.50	0.63	5.31	3.88	3.44	2.48	1016475
3/4"	7,200	3.50	1.75	2.00	1.88	1.88	1.13	2.53	0.88	1.75	0.75	6.06	4.31	4.00	3.88	1016493
7/8"	10,000	4.00	2.06	2.25	2.13	2.13	1.19	2.75	1.00	2.06	0.88	7.00	5.00	4.53	5.87	1016518
1"	12,500	4.50	2.31	2.50	2.63	2.38	1.75	3.72	1.13	2.81	1.13	8.56	5.75	5.94	9.84	1016536
1-1/4"	18,000	5.69	2.69	3.13	3.13	3.00	2.06	4.31	1.63	2.81	1.38	9.75	7.06	6.38	15.75	1016572

CR416-CR417 Alloy Snatch Block							Hook	Shackle
Dia.	WLL	Wire Line	Brg.	Wt.	Hook Item	Shackle Item		
6	12	3/4 - 7/8	BB	26	193427	168972		
6	12	3/4 - 7/8	RB	26	193472	193757		
8	12	3/4 - 7/8	BB	33	193490	168990		
8	12	3/4 - 7/8	RB	33	193542	193819		
10	12	3/4 - 7/8	BB	41	193613	193882		



## CR416 & CR417 Alloy Snatch Blocks

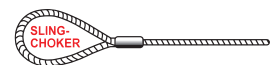
193427 - 193677 168972 - 193935

- Alloy Snatch Blocks with Hook or Shackle
- Entire block made from heat treated alloy steel. Use of heat treated alloy gives block only 60% of the weight of blocks of comparable capacities
- Available with a bronze bushed or roller bearing sheaves

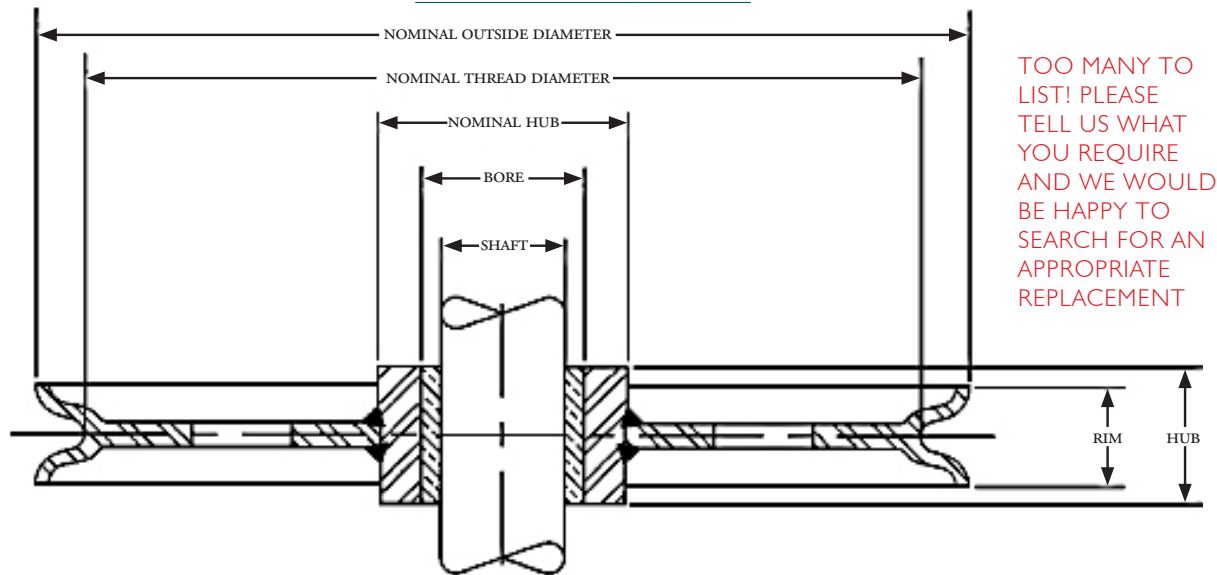
- Easy opening feature of "Champion" blocks retained. Hook and shackle assemblies can be interchanged. Pressure lube fittings
- Blocks furnished with dual rated wire line sheaves
- Fatigue Rated
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. These blocks meet other critical performance requirements including fatigue life, impact properties, and material traceability, not addressed by ASME B30.26

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Ultimate Load is 5 times the WLL for Eye Swivels. Ultimate Load is 4 times the Working Load Limit for CR416 & CR417 Snatch Blocks. NOTE: When ordering, please specify: size, block, hook or shackle, bushed or roller bearing, and wire rope



## Wire Rope Sheaves



### CRHS21 Single Wood Blocks

603831 - 610075

#### Regular Wood Blocks for Manila Rope

- Laser cut side plates- Grade 5 bolts secured with lock washers and staked nuts. Bronze bushed sheaves with larger bearing diameter for extended block life. Becketts furnished on all blocks.
- Fitting Types:  
HS - Latch Hook  
N - Swivel Hook With Latch  
S - Round Pin Anchor Shackle
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these blocks meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



### CRHS22 Double Wood Blocks

604634 - 611671

#### Regular Wood Blocks for Manila Rope

- Laser cut side plates- Grade 5 bolts secured with lock washers and staked nuts. Bronze bushed sheaves with larger bearing diameter for extended block life. Becketts furnished on all blocks.
- Fitting Types:  
HS - Latch Hook  
N - Swivel Hook With Latch  
S - Round Pin Anchor Shackle
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these blocks meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

CRHS21 Single Wood Block			
Size	Rope		
Inch	Dia.	WLL	Item
4	1/2	1,000	603831
5	5/8	1,200	603859
6	3/4	1,800	603877
8	7/8-1	2,800	603911
4	1/2	1,000	606437
5	5/8	1,200	606455
6	3/4	1,800	606473
8	7/8-1	2,800	606516
4	1/2	1,000	610039
5	5/8	1,200	610057
6	3/4	1,800	610075

CRHS22 Double Wood Block			
Size	Rope		
Inch	Dia.	WLL	Item
4	1/2	1,000	604634
5	5/8	1,200	604652
6	3/4	1,800	604670
8	7/8-1	2,800	604714
4	1/2	1,000	606838
5	5/8	1,200	606856
6	3/4	1,800	606874
8	7/8-1	2,800	606918
4	1/2	1,000	611635
5	5/8	1,200	611653
6	3/4	1,800	611671

Ultimate Load is 4 times the Working Load Limit.

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[www.slingchoker.com](http://www.slingchoker.com)

This catalogue was printed on August 11, 2021

RigPRO

L170 General Purpose Snatch Blocks						
Wire Line	Manila	Fitting	Sheave	WLL	Wt.	Item
3/8 - 1/2"	1-1/4"	Hook	4 1/8	5	13	599800
3/8 - 1/2"	1-1/4"	Hook	4 1/8	5	13	599819
3/8 - 1/2"	1-1/4"	Shackle	4 1/8	5	13	599828
3/8 - 1/2"	1-1/4"	Shackle	4 1/8	5	13	599837



## CRL170 Series General Purpose Snatch Blocks

599800 - 599837

- These Snatch Blocks open and close in seconds without the use of tools
- All parts are forged, hook is Forged Alloy Steel — Quenched and Tempered.
- Wire or manila rope may be used. Blocks furnished with dual rated wire line sheaves

CR418-CR419 Light Champion Single Sheave Snatch Block						
Size (In)	WLL	Wire Line	Brg.	Wt.	Hook Item	Shackle Item
3	2	5/16 - 3/8	BB	4.3	-	109091
3	2	5/16 - 3/8	BB	5	108038	109037
5	4	3/8 - 1/2	BB	12	108065	109064
6	8	5/8 - 3/4	BB	27	108127	109126
6	8	5/8 - 3/4	RB	27	108154	109153
8	8	5/8 - 3/4	BB	33	108225	109224
8	8	5/8 - 3/4	RB	33	108252	109251
10	8	5/8 - 3/4	BB	41	108323	109322
10	8	5/8 - 3/4	RB	41	108350	109359
12	8	5/8"	BB	48	169169	202961
12	8	5/8"	RB	48	199911	169347
12	8	3/4"	BB	48	108421	109420
12	8	3/4"	RB	48	108458	109457
14	8	5/8"	BB	55	194920	169356
14	8	5/8"	RB	55	199948	167857
14	8	3/4"	BB	55	108528	109527
14	8	3/4"	RB	55	108546	109545
16	15	3/4"	BB	130	199975	203041
16	15	3/4"	RB	130	200008	203087
16	15	7/8"	BB	130	108608	109607
16	15	7/8"	RB	130	108626	109625



## CR418 & CR419 Single Sheave Light Champion Snatch Blocks

108038 - 108644 109091 - 109643

- Light Champion Single Sheave Snatch Blocks with Hook or Shackle
- Forged alloy heat treated hooks. Forged steel swivel tees, yokes and shackles. Hook and shackle assemblies on 4-1/2" through 14" sizes can be interchanged
- Can be furnished with bronze bushings or roller bearings
- Opening feature permits insertion of rope while block is suspended from gin-pole
- 3" through 18" CR418 and CR419 blocks have exclusive bolt retaining spring to assure no lost bolts
- Pressure lube fittings
- 3" - 10" feature dual rated wire line sheaves
- CR418 & CR 419 are available in bronze bushed only. 3" and 4-1/2" have self lubricating bronze bushing. May be furnished in other rope sizes.

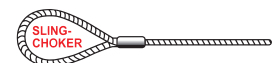
**116**

Ultimate Load is 4 times the Working Load Limit. Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Also meets other critical performance requirements set out by Crosby.

RigPRO

This catalogue was printed on August 11, 2021

[www.slingchoker.com](http://www.slingchoker.com)



CR408-CR409 Light Champion Double Sheave						
Size (In)	WLL	Wire Line	Brg.	Wt.	Hook Item	Shackle Item
4.5	4	3/8 - 1/2"	BB	18	104023	105022
6	12	5/8 - 3/4"	BB	45	104103	105102
6	12	5/8 - 3/4"	RB	45	104121	105120
8	12	5/8 - 3/4"	BB	53	104185	105184
8	12	5/8 - 3/4"	RB	53	104201	105200
10	12	5/8 - 3/4"	BB	70	104265	105264
10	12	5/8 - 3/4"	RB	70	104283	105282
12	12	5/8"	BB	90	194578	195185
12	12	5/8"	RB	90	168044	195229
12	12	3/4"	BB	90	104345	105344
12	12	3/4"	RB	90	104363	105362
14	12	5/8"	BB	100	194621	195247
14	12	5/8"	RB	100	194649	195265
14	12	3/4"	BB	100	104425	105424



## CR408 & CR409 Double Sheave Light Champion Snatch Blocks

**104023 - 104443 105022 - 105442**

- Light Champion Double Sheave Snatch Blocks with Hook or Shackle
- Light champion snatch block as a double sheave block
- Drop forged swivel hook or swivel shackle
- Can be furnished with bronze bushings or roller bearings
- Opening feature permits easy insertion of wire rope in both sheaves with removal of one bolt
- Pressure lube fittings
- 4-1/2" - 10" models furnished with dual rated wire line sheaves
- Fatigue Rated
- May be furnished in other wire rope sizes. NOTE: When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing, and wire rope size.
- Ultimate Load is 4 times the Working Load Limit.

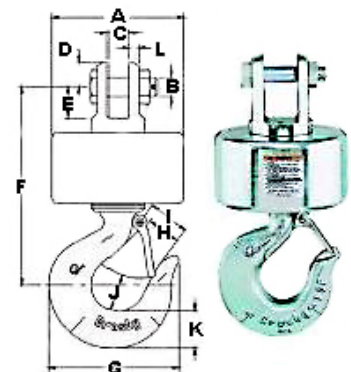
AS15 Angular Contact Bearing Swivel Overhaul Balls, Zinc Plated															
Wire Line	WLL	A	B	C	D	E	F	G	H	I	J	K	L	Wt.	Item
3/8	1.5	4	0.5	0.5	0.69	0.78	6.28	4.09	1.12	1.22	1.19	1.12	0.31	9	2009806
1/2	3	5	0.75	0.75	0.94	1.19	8.56	4.94	1.34	1.5	1.38	1.44	0.38	19	2009807
5/8	5	6.88	0.88	1.06	1.12	1.56	10.81	6.5	1.69	1.88	1.75	1.81	0.56	43	2003969
3/4	8.5	7	1.19	1.56	1.34	2.09	13.75	8.69	2.25	2.5	2.56	2.59	0.53	60	2009808

Ultimate Load is 5 times the Working Load Limit.

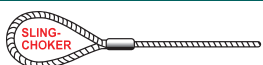
## CR-AS15 Angular Contact Bearing Swivel Overhaul Balls

**2009806 - 2009808**

- Zinc Plated to avoid corrosion, CR-AS15 Overhaul Balls:
- Utilizes Crosby Hooks which are forged, quenched and tempered and contain the patented QUIC-CHECK® marking
- Designed with angular contact bearings to maximize efficiency, reliability, and life of swivel and wire rope
- Are available with wide jaw opening that utilizes nylon spools and shields
- Are designed for applications where headroom is critical
- Have other upper fittings available upon request

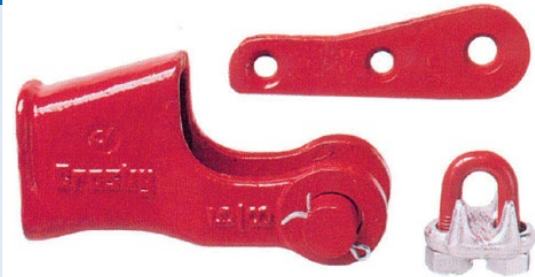


Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Also meets other critical performance requirements set out by Crosby.

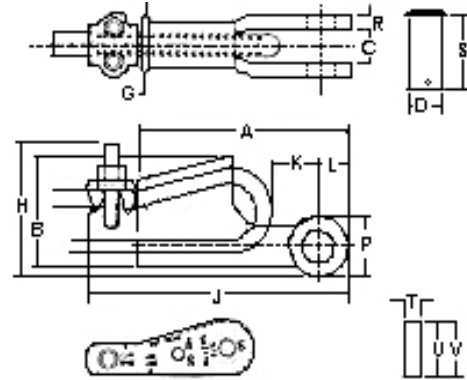


CR42I Terminator		
Wire Line	Wt.	Item
3/8	0.5	1035000
1/2	6.2	1035009
5/8	9.7	1035018
3/4	14.5	1035027
7/8	21.5	1035036
1	30.8	1035045
1 1/8	45.3	1035054
1 1/4	64.9	1035063

42I Wedge Only		
Wire Line	Wt.	Item
3/8	0.5	1035555
1/2	1.1	1035564
5/8	1.8	1035573
3/4	2.6	1035582
7/8	4.0	1035591
1	5.4	1035600
1 1/8	7.3	1035609
1 1/4	10.6	1035618



42IT Dimensions															
Wire Line	A	B	C	D	G	H	J	K	L	P	R	S	T	U	V
3/8	5.7	2.7	0.8	0.8	1.4	3.1	7.8	1.9	0.9	1.56	0.4	2.1	0.4	1.3	1.4
1/2	6.9	3.5	1.0	1.0	1.6	3.8	8.9	1.3	1.1	1.94	0.5	2.6	0.5	1.8	1.9
5/8	8.3	4.3	1.3	1.2	2.1	4.5	10.8	2.0	1.2	2.25	0.6	3.3	0.7	2.0	2.2
3/4	9.9	5.1	1.5	1.4	2.4	5.3	12.4	2.4	1.4	2.63	0.7	3.6	0.8	2.3	2.6
7/8	11.3	5.9	1.8	1.6	2.7	6.2	14.4	2.5	1.7	3.13	0.8	4.3	0.9	2.7	2.9
1	12.8	6.3	2.0	2.0	2.9	7.0	16.3	3.0	2.0	3.75	0.9	4.7	1.0	2.9	3.3
1 1/8	14.4	6.9	2.3	2.3	3.3	7.6	18.3	2.6	2.3	4.25	1.0	5.4	1.1	3.3	3.6
1 1/4	16.3	8.7	2.6	2.5	3.6	9.4	20.5	2.9	2.3	4.50	1.1	6.1	1.2	4.6	4.9



## CR42IT Terminator Wedge Sockets

**1035000 - 1035063 1035555 - 1035618**

**NOTE:** For intermediate wire rope sizes, use next larger size socket.

- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets. Secures the tail or "dead end" of the wire rope to the wedge, thus eliminates loss or "Punch out" of the wedge
- Terminations have an efficiency rating of 80% based on the catalogue strength of XXIP wire rope
- Basket is cast steel and individually magnetic particle inspected

- Eliminates the need for an extra piece of rope, and is easily installed
- The TERMINATOR™ wedge eliminates the potential breaking off of the tail due to fatigue. The tail, which is secured by the base of the clip and the wedge, is left undeformed and available for reuse
- Incorporates Crosby's patented QUIC-CHECK® "Go" and "No-Go" feature cast into the wedge. The proper size rope is determined when the following criteria are met: The wire rope should pass through the "Go" hole in the wedge. The wire rope should NOT pass through the "No-Go" hole in the wedge
- Utilizes standard Crosby Red-U-Bolt® wire rope clip
- The 3/8" through 1-1/8" standard S-42I wedge socket can be retro-fitted with the new style

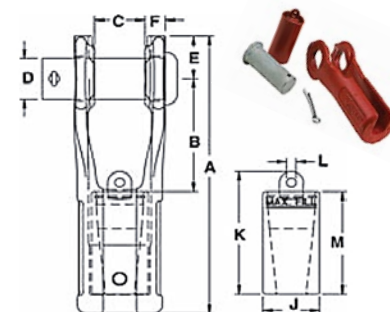
CR427 Button Spelter Socket												CR-SB427 Socket with Ferrule	CR-SB427 Socket (No Ferrule)	
Wire Rope Size		Dimensions (in.)										Wt.	Item	No.
(in.)	(mm)	A	B	C	D	E	F	J	K	L				
1/2 - 5/8	13-16	7.22	2.66	1.28	1.19	1.22	0.62	1.50	3.50	0.25	6.1	1052005	1052107	
5/8 - 3/4	16-19	8.56	3.12	1.53	1.38	1.44	0.75	1.75	4.28	0.38	10.3	1052014	1052116	
3/4 - 7/8	19-23	10.00	3.62	1.78	1.62	1.69	0.88	2.06	4.78	0.38	17.1	1052023	1052125	
7/8 - 1	22-26	12.88	5.48	2.03	2	2	0.89	2.44	5.62	0.62	4.52	1052032	1052134	
1-1/8 - 1-1/4	28-32	14.9	5.68	2.53	2.25	2.5	1.11	2.94	7.08	0.75	5.72	1052041	1052143	

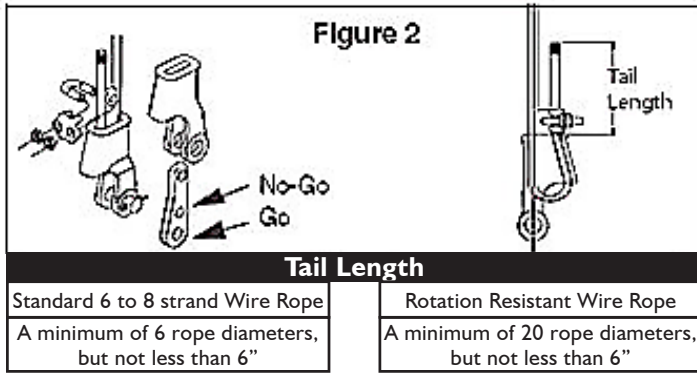
## CRSB427 Button Sockets

**1052005 - 1052041 1052107 - 1052143**

Button Spelter terminations have a 100% efficiency rating, based on the catalogue strength of the wire rope. Designed for use with mobile cranes. Can be used to terminate high performance, rotation resistant ropes, and standard 6 strand ropes.

Easy to install assembly utilizes Crosby® WIRELOCK® socketing compound. Sockets and buttons are re-usable, replacement buttons and sockets are available. Locking feature available to prevent rotation of rope. Button contains cap with eye that can be attached to, and used to pull, rope during reeving process.





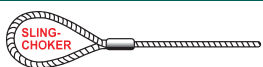
## Assembly Safety

Use only with standard 6 to 8 strand wire rope of designated size. For intermediate size rope, use next larger size socket. For example: When using 9/16" diameter wire rope use a 5/8" size Wedge Socket Assembly. Welding of the tail on standard wire rope is not recommended. The tail length of the dead end should be a minimum of 6 rope diameters but not less than 6" (See Fig. 2).

To use with Rotation Resistant wire rope (special wire rope constructions with 8 or more outer strands) ensure that the dead end is welded, brazed, or seized before inserting the wire rope into the wedge socket to prevent core slippage loss of rope lay. The tail length of the dead end should be a minimum of 20 rope diameters but not less than 6" (See Fig. 2).

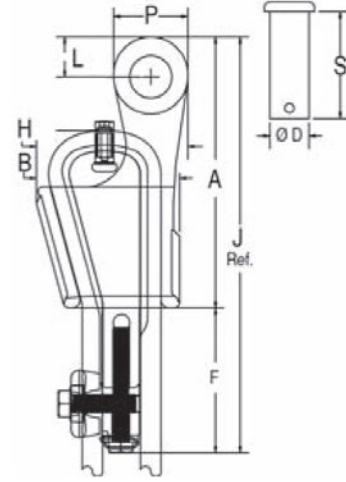
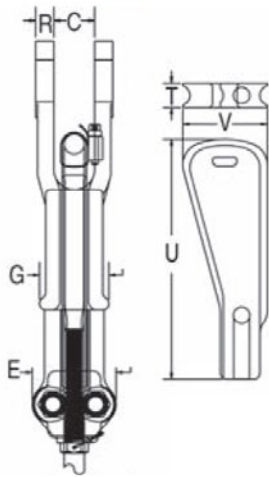
- Properly match socket, wedge and clip (See Tables on pg. 108) to wire rope size.
- Align live end of rope, with center line of pin (See Fig. 2)
- Secure dead end section of rope (See Fig. 2)
- Tighten nuts on clip to recommended torque (See Crosby Clips)
- Do not attach dead end to live end or install wedge backwards

**USE A HAMMER TO SEAT WEDGE AND ROPE AS DEEP INTO SOCKET AS POSSIBLE BEFORE APPLYING FIRST LOAD**



CR-S423T Super Terminator Wedge Socket			
Wire Rope			
Inch	(mm)	Wt.	Item
5/8	14-16	13.1	1035218
3/4	18-19	19.1	1035227
7/8	20-22	27.8	1035236
1	24-26	37.3	1035245
1-1/8	28	57.9	1035254
1-1/4	30-32	88.1	1035272

CR-S423T Super Terminator Wedge			
Wire Rope			
Inch	(mm)	Wt.	Item
5/8	14-16	13.1	1034018
3/4	18-19	19.1	1034027
7/8	20-22	27.8	1034036
1	24-26	37.3	1034045
1-1/8	28	57.9	1034054
1-1/4	30-32	88.1	1034063



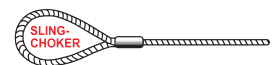
## CRS423 Super Terminator

1035218 - 1035272 1034018 - 1034063

- Wedge socket terminations have a minimum efficiency rating on most high performance, high strength, compacted strand, and rotation resistant wire ropes of 80% based on the catalogue breaking strength of the various ropes
- Eliminates the difficulty of installing high performance wire rope into a wedge socket termination
- Proper application of the Super TERMINATOR™ eliminates the "first load" requirement of conventional wedge socket terminations
- S-423TW Wedge Kit can be retrofitted onto existing Crosby S-421T TERMINATOR™ wedge sockets
- Wedge and accessories provided with a zinc finish

- Basket is cast steel and individually magnetic particle inspected
- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets
- Secures the tail or "dead end" of the wire rope to the wedge, thus eliminates loss or "punch out" of the wedge
- Eliminates the need for an extra piece of rope, and is easily installed
- The TERMINATOR™ wedge eliminates the potential breaking off of the tail due to fatigue
- The tail, which is secured by the base of the clip and the tension device, is left undeformed and available for reuse
- Available with Bolt, Nut, and Cotter Pin

CR-S423T Super Terminator Dimensions																	
Wire Rope		Dimensions															
Inch	(mm)	A	B	C	D	G	F	G	H	J	L	P	R	S	T	U	V
5/8	14-16	8.25	4.50	1.25	1.19	3.00	4.06	2.13	4.61	12.31	1.22	2.25	0.56	3.25	0.75	6.88	2.60
3/4	18-19	9.88	5.20	1.50	1.38	3.25	4.81	2.44	5.37	14.69	1.40	2.62	0.66	3.63	0.88	7.65	3.02
7/8	20-22	11.25	5.88	1.75	1.63	3.81	5.73	2.69	6.16	16.98	1.67	3.13	0.75	4.31	1.00	9.47	3.47
1	24-26	12.81	6.56	2.00	2.00	3.81	5.73	2.94	7.05	18.54	2.01	3.75	0.88	4.70	1.13	10.41	3.82
1-1/8	28	14.38	6.94	2.25	2.25	4.00	6.85	3.38	7.81	21.23	2.26	4.25	1.00	5.44	1.25	11.83	4.22
1-1/4	30-32	16.34	8.63	2.62	2.50	4.50	7.76	3.57	9.38	24.10	2.34	4.50	1.06	6.62	1.38	13.87	5.82





GS450 HD Wire Rope Clips-GS450											
Size	A	B	D	E	F	G	Min Clips	Torque	Turn Back	Wt.	Item
1/8"	0.22	0.72	0.47	0.41	0.81	0.94	2	4.5	3-1/4"	0.06	GS450-002
3/16"	0.25	0.97	0.59	0.5	0.94	1.16	2	7.5	3-3/4"	0.1	GS450-003
1/4"	0.31	1.03	0.75	0.66	1.19	1.44	2	15	4-3/4"	0.19	GS450-004
5/16"	0.38	1.38	0.88	0.72	1.31	1.69	2	30	5-1/4"	0.28	GS450-005
3/8"	0.44	1.5	1	0.91	1.63	1.94	2	45	6-1/2"	0.48	GS450-006
1/2"	0.5	1.88	1.19	1.13	1.91	2.28	3	65	11-1/2"	0.8	GS450-008
5/8"	0.56	2.38	1.31	1.34	2.06	2.5	3	95	12"	1.1	GS450-010
3/4"	0.62	2.75	1.5	1.41	2.25	2.84	4	130	18"	1.42	GS450-012
7/8"	0.75	3.12	1.75	1.59	2.44	3.16	4	225	19"	2.12	GS450-014
1"	0.75	3.5	1.88	1.78	2.63	3.47	5	225	26"	2.52	GS450-100
1-1/8"	0.75	3.88	2	1.91	2.81	3.59	6	225	34"	2.83	GS450-102
1-1/4"	0.88	4.25	2.31	2.19	3.13	4.13	7	360	44"	4.38	GS450-104
1-1/2"	0.88	4.94	2.59	2.44	3.41	4.44	8	360	54"	5.44	GS450-108
1-3/4"	1.13	5.75	3.06	2.94	3.81	5.28	8	590	61"	9.34	GS450-112
2"	1.25	6.44	3.38	3.28	4.44	5.88	8	750	71"	13	GS450-200

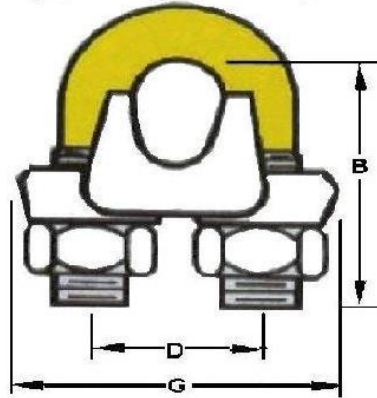
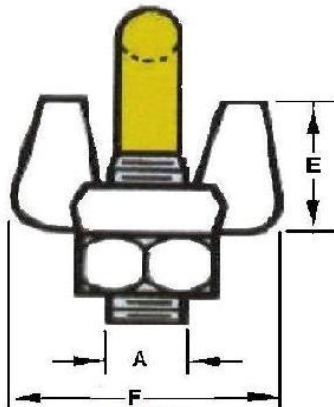
Efficiency rating of 80% for 1/8" - 7/8" sizes, and 90% for sizes 1" through 3-1/2".

## Heavy Duty Wire Rope Clips

### GS450-002 - 200

MEETS FEDERAL SPECIFICATION FF-C-450, TYPE I - CLASS I

EACH BASE HAS PRODUCT IDENTIFICATION CODE FOR MATERIAL TRACEABILITY



Galv. Malleable Clips	
Size	Item
1/8"	GS450M-002
3/16"	GS450M-003
1/4"	GS450M-004
5/16"	GS450M-005
3/8"	GS450M-006
1/2"	GS450M-008
5/8"	GS450M-010
3/4"	GS450M-012
7/8"	GS450M-014
1"	GS450M-100

These clips have no torque specifications and no catalogued efficiency Ratings. Hardware grade only

## Galvanized Malleable Clips

### GS450M-002 - 100



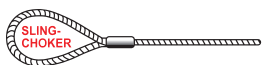
#### WARNING:

MALLEABLE CLIPS ARE NOT FOR OVERHEAD LIFTING OR ANY OTHER CRITICAL APPLICATION

THEY ARE INTENDED FOR HARDWARE TYPE APPLICATIONS

TYPICAL USES INCLUDES FENCING

FEDERAL SPECIFICATION FF-C-450, TYPE I CLASS 2



Safeline Clamps		
Size	Torque	Item
1/8"	35	SFCL-P002
3/16"	80	SFCL-P003
1/4"	145	SFCL-P004
5/16"	225	SFCL-P005
3/8"	325	SFCL-P006
1/2"	575	SFCL-P008
5/8"	900	TBA
3/4"	1300	SFCL-P012



**WARNING:**

SAFE-LINE CLAMPS ARE INTENDED FOR USE ONLY ON 6X19 IWRC OR 7X19 WIRE ROPE REGULAR-LAY

**CAUTION:**

NEVER USE THIS PRODUCT ON SYNTHETIC OR NATURAL FIBER ROPES

## Safe-Line Wire Rope Clamps

### SFCL-P002 - P012

Ideal for field installations that require quick and easy thimble rope terminations, with the reliability that wire rope clips cannot provide. Designed only for 6 x 19 IWRC or 7 x 19 right regular-lay wire rope sizes 1/8" through 3/4", the cadmium plated Safe-Line Clamp assembly includes a two-piece plug and cold-finish bar-steel socket.

The finished assembly provides a neat, clean profile (similar to a swage fitting) with no sharp edges or loose ends to snag. And they hold!

The Safe-Line Clamp is rated with an efficiency of over 90% of rated wire rope strength.

The clamp meets or exceeds all requirements for Military Standard MS-I 6843 and conforms to Federal Spec. FS-C-450. They are warranted for one year.

Gripples- Lockable (4:1)					
Size	Max Vertical WLL	Qty/Bag	Qty/Box	Wt./box	Item
1/16"	180	TBA	240	15.0	GRIP-LK001
1/8"	300	10	160	22.9	GRIP-LK002
5/32"	660	5	80	17.2	GRIP-LK0025
3/16"	880	5	80	17.2	GRIP-LK003
1/4"	1100	1	4	17.2	GRIP-LK004
5/16"	2200	2	20	14.0	GRIP-LK005
3/8"	3300	2	10	14.0	GRIP-LK006
Tensioning tools					
	Tensioning Tool- up to 1/4"				GRIP-T6
	Tensioning Tool- 5/16" to 3/8"				GRIP-T13
All boxes are supplied with 2 setting keys					

## Gripples

### GRIP-LK001 - LK005

Intended for hardware type applications such as fences or guy wires. Not suitable to make slings or for critical applications



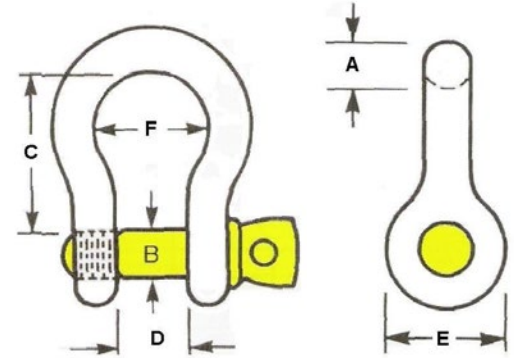
GS209 Screw Pin Anchor Shackles Galv.									
Size	WLL	A	B	C	D	E	F	Wt.	Item
3/16	1/3	0.19	0.25	0.88	0.38	0.56	0.56	0.06	GS209-003
1/4	1/2	0.25	0.31	1.13	0.47	0.61	0.61	0.10	GS209-004
5/16	3/4	0.31	0.38	1.22	0.53	0.75	0.75	0.19	GS209-005
3/8	1	0.38	0.44	1.44	0.66	0.91	0.91	0.31	GS209-006
7/16	1 1/2	0.44	0.50	1.69	0.75	1.06	1.06	0.38	GS209-007
1/2	2	0.50	0.63	1.88	0.81	1.19	1.19	0.72	GS209-008
5/8	3 1/4	0.62	0.75	2.38	1.06	1.50	1.50	1.37	GS209-010
3/4	4 3/4	0.81	0.88	2.81	1.25	1.81	1.81	2.35	GS209-012
7/8	6 1/2	0.97	1.00	3.31	1.44	2.09	2.09	3.62	GS209-014
1	8 1/2	1.06	1.13	3.75	1.69	2.38	2.38	5.03	GS209-100
1 1/8	9 1/2	1.25	1.25	4.25	1.81	2.69	2.69	7.41	GS209-102
1 1/4	12	1.38	1.38	4.69	2.03	3.00	3.00	9.50	GS209-104
1 3/8	13-1/2	1.50	1.50	5.25	2.25	3.31	3.31	13.53	GS209-106
1 1/2	17	1.62	1.63	5.75	2.38	3.63	3.63	17.20	GS209-108
1 3/4	25	2.25	2.00	7.00	2.88	4.19	4.19	27.78	GS209-112
2	35	2.40	2.25	7.75	3.25	4.81	4.81	45.00	GS209-200
2 1/2	55	3.13	2.75	10.50	4.13	5.69	5.69	85.75	GS209-208
6:1 Working Load Limit									

## Screw Pin Anchor Shackles

### GS209-003 - 208

Galvanized. Meets Federal Specification RR-C-271D, Type 1VA. Grade A, Class 1 or Class 2. Forged, Quenched, and Tempered.

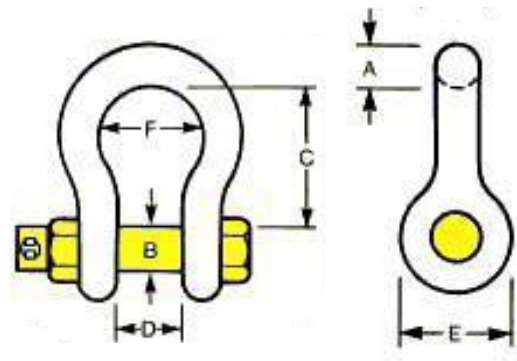
Alloy Pins. Traceable Yellow pin shackles are embossed with "Ocean", size, alloy pin ID, WLL, and production code.



GS2130 Safety Bolt Anchor Shackles Galv.										
Nom. Size	WLL	A	B	C	D	E	F	Pin Length	Wt.	Item
3/8	1	0.38	0.44	1.44	0.66	0.91	1.03	2.17	0.3	GS2130-006
7/16	1 1/2	0.44	0.50	1.69	0.75	1.06	1.16	2.51	0.5	GS2130-007
1/2	2	0.50	0.63	1.88	0.81	1.19	1.31	2.80	0.8	GS2130-008
5/8	3 1/4	0.63	0.75	2.38	1.06	1.50	1.69	3.53	1.7	GS2130-010
3/4	4 3/4	0.75	0.86	2.81	1.25	1.81	2.00	4.07	2.7	GS2130-012
7/8	6 1/2	0.88	1.00	3.31	1.44	2.09	2.28	4.71	4.0	GS2130-014
1	8 1/2	1.00	1.13	3.75	1.69	2.38	2.69	5.31	5.7	GS2130-100
1 1/8	9 1/2	1.13	1.25	4.25	1.81	2.69	2.91	5.90	8.3	GS2130-102
1 1/4	12	1.25	1.38	4.69	2.03	3.00	3.25	6.51	11.7	GS2130-104
1 3/8	13 1/2	1.38	1.50	5.25	2.25	3.31	3.63	7.21	15.8	GS2130-106
1 1/2	17	1.50	1.63	5.75	2.38	3.63	3.88	7.73	20.8	GS2130-108
1 3/4	25	1.75	2.00	7.00	2.88	4.19	4.00	9.05	33.9	GS2130-112
2	35	2.00	2.25	7.75	3.25	4.81	5.75	10.41	52.3	GS2130-200
6:1 Working Load Limit										

## Safety Anchor Bolt Anchor Shackles

### GS2130-006 - 200

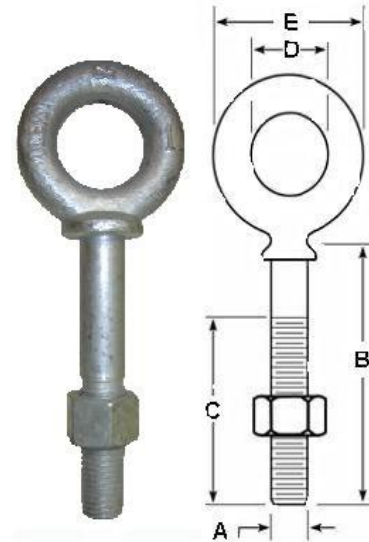


GS277 Eye Bolt Shoulder Nut								
Size	WLL	A	B	C	D	E	Wt.	Item
1/4 x 2	650	0.25	2.00	1.50	0.50	0.88	0.1	GS277-004X02
1/4 x 4	650	0.25	4.00	2.50	0.50	0.88	0.1	GS277-004X04
5/16 x 2-1/4	1,200	0.31	2.25	1.50	0.62	1.12	0.1	GS277-005X02
5/16 x 4-1/4	1,200	0.31	4.25	2.50	0.62	1.12	0.2	GS277-005X04
3/8 x 2-1/2	1,550	0.38	2.50	1.50	0.75	1.38	0.2	GS277-006X02
3/8 x 4-1/2	1,550	0.38	4.50	2.50	0.75	1.38	0.3	GS277-006X04
1/2 x 3-1/4	2,600	0.50	3.25	1.50	1.00	1.75	0.4	GS277-008X03
1/2 x 6	2,600	0.50	6.00	3.00	1.00	1.75	0.6	GS277-008X06
5/8 x 4	5,200	0.62	4.00	2.00	1.25	2.25	0.7	GS277-010X04
5/8 x 6	5,200	0.62	6.00	3.00	1.25	2.25	1.0	GS277-010X06
3/4 x 4-1/2	7,200	0.75	4.50	2.00	1.50	2.75	1.4	GS277-012X04
3/4 x 6	7,200	0.75	6.00	3.00	1.50	2.75	1.7	GS277-012X06
7/8 x 5	10,600	0.88	5.00	2.50	1.75	3.25	2.3	GS277-014X05
1 x 6	13,300	1.00	6.00	3.00	2.00	3.75	3.7	GS277-100X06
1 x 9	13,300	1.00	9.00	4.00	2.00	3.75	4.2	GS277-100X09
1-1/4 x 8	21,000	1.25	8.00	4.00	2.50	4.50	6.5	GS277-104X08
1-1/4 x 12	21,000	1.25	12.00	4.00	2.50	4.50	8.0	GS277-104X12
1-1/2 x 15	24,000	1.50	15.00	6.00	3.00	5.50	14.3	GS277-108X15
5:1 Working Load Factor								

## Oceanside Eye Bolt Shoulder Nut

### GS277-004X02 - 108X15

Forged carbon steel that is quenched and tempered. Hot dip galvanized - with heavy hex nuts. Embossed with "Ocean", size, and product ID for traceability to meet ASME B30.26

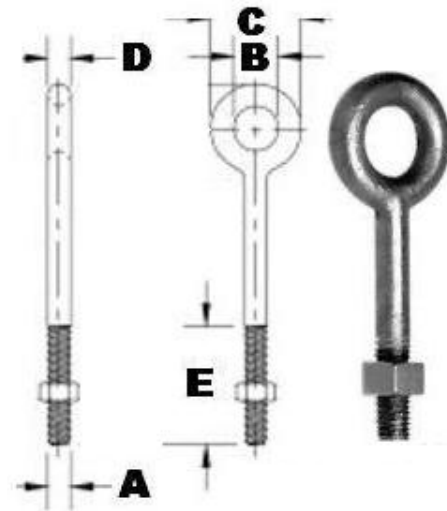


GS291 Eye Bolt- Regular Nut								
Size	WLL	A	B	C	D	E	Wt.	Item
3/8x2-1/2	1,550	0.38	1.50	2.50	0.75	1.50	0.23	GS291-006x0208
3/8x4-1/2	1,550	0.38	2.50	4.50	0.75	1.50	0.30	GS291-006x0408
3/8 x 6	1,550	0.38	2.50	6.00	0.75	1.50	3.52	GS291-006X06
1/2x3-1/4	2,600	0.50	1.50	3.25	1.00	2.00	0.50	GS291-008X0304
1/2 x 6	2,600	0.50	3.00	6.00	1.00	2.00	6.61	GS291-008X06
1/2x8	2,600	0.50	3.00	8.00	1.00	2.00	0.82	GS291-008X08
1/2 x 10	2,600	0.50	3.00	10.00	1.00	2.00	8.80	GS291-008X10
5/8 x 4	5,200	0.62	2.00	4.00	1.25	2.50	1.03	GS291-010X04
5/8x6	5,200	0.62	3.00	6.00	1.25	2.50	1.18	GS291-010X06
5/8 x 8	5,200	0.62	3.00	8.00	1.25	2.50	13.51	GS291-010X08
5/8 x 10	5,200	0.62	3.00	10.00	1.25	2.50	15.36	GS291-010X10
5/8 x 12	5,200	0.62	4.00	12.00	1.25	2.50	16.71	GS291-010X12
3/4x4-1/2	7,200	0.75	2.00	4.25	1.50	3.00	1.69	GS291-012X0408
3/4x6	7,200	0.75	3.00	6.00	1.50	3.00	1.85	GS291-012X06
3/4 x 8	7,200	0.75	3.00	8.00	1.50	3.00	20.79	GS291-012X08
3/4 x 10	7,200	0.75	3.00	10.00	1.50	3.00	23.50	GS291-012X10
3/4 x 13	7,200	0.75	4.00	12.00	1.50	3.00	25.70	GS291-012X12
1 x 13	13,300	1.00	4.00	12.00	2.00	4.00	54.00	GS291-100X12
5:1 Working Load Factor								

## Oceanside Eye Bolt Regular Nut

### GS291-006X0208 - 100X12

Forged carbon steel that is quenched and tempered. Hot dip galvanized - with heavy hex nuts. Embossed with "Ocean", size, and product ID for traceability to meet ASME B30.26



Machine Eye Bolts GS 279 Standard							
Size	WLL Lbs. 5:1	Shank Dia.	Shank Length	Eye ID	Eye OD	Wt.	Item
1/4 x 1	650	1/4"	1.00	0.75	1.13	0.05	GS279-004
5/16 x 1-1/8	1,200	5/16"	1.25	0.88	1.38	0.09	GS279-005
3/8 x 1-1/4	1,550	3/8"	1.25	1.00	1.62	0.15	GS279-006
1/2 x 1-1/2	2,600	1/2"	1.50	1.19	1.95	0.30	GS279-008
5/8 x 1-3/4	5,200	5/8"	1.75	1.38	2.38	0.58	GS279-010
3/4 x 2	7,200	3/4"	2.00	1.50	2.76	0.89	GS279-012
7/8 x 2-1/4	10,600	7/8"	2.25	1.75	3.25	1.29	GS279-014
1 x 2-1/2	13,300	1"	2.50	2.00	3.75	1.99	GS279-100
1-1/4 x 3	21,000	1-1/4"	3.00	2.50	4.50	3.96	GS279-104
1-1/2 x 3-1/2	24,000	1-1/2"	3.50	3.00	5.50	6.54	GS279-108

Machine Eye Bolts OC 279M Metric							
Size	WLL Lbs. 5:1	Shank Dia.	Shank Length	Eye ID	Eye OD	Wt.	Item
M6 x 1.0	452	6	25.5	12.5		0.1	GS279M-06
M8 x 1.25	724	8	28.5	15.5		0.1	GS279M-08
M10 x 1.5	1,088	10	31.5	19.0		0.1	GS279M-10
M12 x 1.75	1,996	12	38.0	25.0		0.3	GS279M-12
M16 x 2.0	2,317	16	34.0	31.0		0.6	GS279M-16
M20 x 2.5	4,716	20	51.0	38.0		0.9	GS279M-20
M22	6,532	22	57.0	44.5		1.3	GS279M-22
M24 x 3.0	9,072	24	63.5	51.0		2.0	GS279M-24

## Swivel Hoist Rings

### GS279M-06 - 108

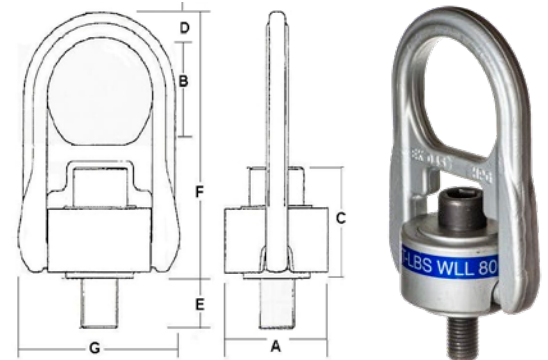
- Forged alloy steel, quenched and tempered
- 360 degree swivel with 180 Degree picot
- 20,000 cycle fatigue rated to 1.5 times WLL
- Rated 100% at 90 degree angle - 100% magnaflux crack detection

## Machine Eye Bolts Standard

### GS279-004 - 108

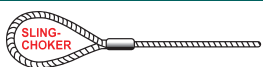
## Machine Eye Bolts Metric

### GS279M-06 - 32



GS1000 Swivel Hoist Ring HD Bushing											
Size	A	B	C	D	E	F	G	Torque	WLL	WT	Item
5/16"-18	1.57	1.61	1.63	0.35	0.93	4.02	2.56	7	800	0.97	GS279M-06
3/8"-16	1.57	1.61	1.69	0.35	1.18	4.02	2.56	12	1,000	0.97	GS279M-08
1/2"-13	2.56	2.52	2.29	0.59	1.46	6.22	4.09	28	2,500	3.81	GS279M-10
5/8"-11	2.56	2.52	2.41	0.59	1.45	6.22	4.09	60	4,000	3.81	GS279M-12
3/4"-10	2.56	2.52	2.54	0.59	1.71	6.22	4.09	100	5,000	3.81	GS279M-16
3/4"-10	3.39	3.11	2.91	0.75	1.33	8.03	5.28	100	7,000	8.53	GS279M-20
7/8"-9	3.39	3.11	3.04	0.75	1.58	8.03	5.28	160	8,000	8.53	GS279M-22
1"-8	3.39	3.11	3.16	0.75	1.83	8.03	5.28	230	10,000	8.53	GS279M-24
1-1/4"-7	4.72	4.37	4.16	1.18	2.17	11.26	7.64	470	15,000	22.71	GS279M-24
1-1/2"-6	4.72	4.37	4.32	1.18	3.67	11.26	7.64	800	24,000	24.7	GS279M-24

Minimum ultimate load is 5 times the WLL. Proof load is 2.5 times the WLL. The depth of thread needs to be a minimum of 1 times the thread diameter for steel, 1.25 times for cast iron and 2 times for aluminum



GS264 Pad Eye					
Size	Eye ID	Shoulder Dia.	Overall Length	Wt.	Item
2	3/4"	1-1/16"	1-5/8"	0.17	GS264-2
4	1"	1-7/16"	2-11/32"	0.5	GS264-4
5	1-1/4"	1-3/4"	2-3/4"	0.825	GS264-5

## Pad Eye

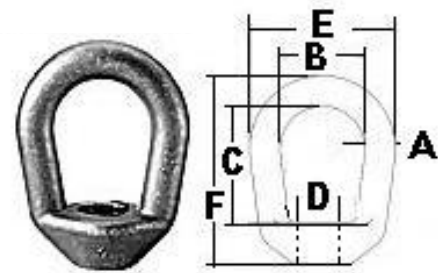
GS264-2 - 5



GS400 Eye Nuts									
Tap Size	WLL	A	B	C	D	E	F	Wt.	Item
1/4"	520	0.25	0.75	1.06	0.66	1.25	1.69	0.09	GS400-004
5/16"	850	0.25	0.75	1.06	0.66	1.25	1.69	0.09	GS400-005
3/8"	1,250	0.31	1.00	1.25	0.75	1.63	2.06	0.18	GS400-006
1/2"	2,250	0.38	1.25	1.50	1.00	2.00	2.50	0.28	GS400-008
5/8"	3,600	0.50	1.50	2.00	1.19	2.50	3.19	0.58	GS400-010
3/4"	5,200	0.63	1.75	2.38	1.38	3.00	3.88	1.00	GS400-012
7/8"	7,200	0.75	2.00	2.63	1.63	3.50	4.31	1.70	GS400-014
1"	10,000	0.88	2.25	3.06	1.88	4.00	5.00	2.75	GS400-100
1-1/4"	15,500	1.00	2.50	3.50	1.94	4.50	5.75	3.85	GS400-104

## Eye Nuts

GS400-004 - 104



Rod- B7 Threaded RH			Nuts- Grade 8		Washers Grade 8
Size	Length	Item	Item	Item	Item
1/4	3 Feet	ROD-004	NUT8-004	WAS8-004	
5/16	3 Feet	ROD-005	NUT8-005	WAS8-005	
3/8	3 Feet	ROD-006	NUT8-006	WAS8-006	
1/2	3 Feet	ROD-008	NUT8-008	WAS8-008	
5/8	3 Feet	ROD-010	NUT8-010	WAS8-010	
3/4	3 Feet	ROD-012	NUT8-012	WAS8-012	
7/8	3 Feet	ROD-014	NUT8-014	WAS8-014	
1	3 Feet	ROD-100	NUT8-100	WAS8-100	
1 1/4	3 Feet	ROD-104	NUT8-104	WAS8-102	
1 1/2	3 Feet	ROD-108	NUT8-108	WAS8-104	



**GRADE 8  
HARDWARE**

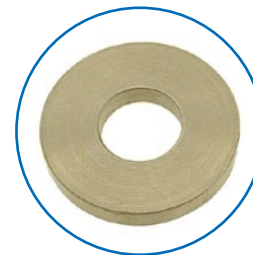
**Threaded RH Rod**

ROD-004 - 108



**Nuts**

NUT8-004 - 108



**Washers**

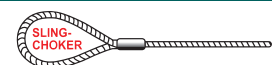
WAS8-004 - 104

126

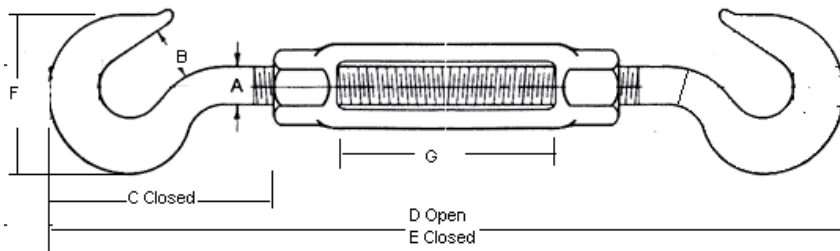
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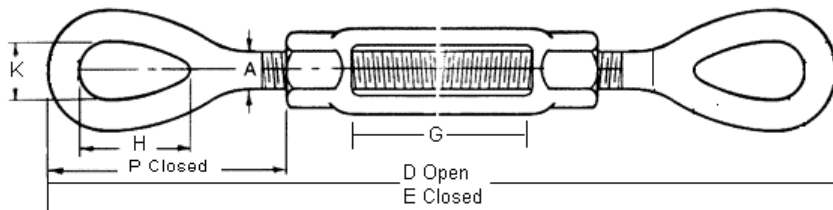
GS223 Hook & Hook Turnbuckle										
Size	WLL	A	B	C	D	E	F	G	Wt.	Item
				Closed	Open	Closed				
5/16 x 4-1/2	700	0.31	0.50	1.94	13.81	9.31	1.50	4.5	0.47	GS223-005X04
3/8 x 6	1,000	0.38	0.56	2.30	17.72	11.72	1.77	6	0.78	GS223-006X06
1/2 x 6	1,500	0.50	0.66	2.94	19.38	13.38	2.28	6	1.60	GS223-008X06
1/2 x 9	1,500	0.50	0.66	2.94	25.38	16.38	2.28	9	1.83	GS223-008X09
5/8 x 6	2,250	0.63	0.90	3.69	21.25	15.25	2.81	6	2.75	GS223-010X06
5/8 x 9	2,250	0.63	0.90	3.69	27.25	18.25	2.81	9	3.50	GS223-010X09
3/4 x 9	3,000	0.75	0.98	4.52	29.28	20.28	3.33	9	3.89	GS223-012X09
3/4 x 12	3,000	0.75	0.98	4.52	34.28	23.28	3.33	12	5.43	GS223-012X12
7/8 x 12	4,000	0.88	1.13	5.19	37.00	25.00	3.78	12	8.10	GS223-014X12
1 x 12	5,000	1.00	1.25	5.84	38.69	26.69	4.25	12	11.93	GS223-100X12



## Hook & Hook Turnbuckle

GS223-005X04 - GS223-100X12

GS226 Eye & Eye Turnbuckle										
Size	WLL	A	D	E	G	H	K	P	Wt.	Item
			Open	Closed				Closed		
5/16 x 4-1/2	800	0.31	14.12	9.62	4.50	0.94	0.44	2.09	0.47	GS226-005X04
3/8 x 6	1,200	0.38	18.16	12.16	6.00	1.12	0.53	2.52	0.75	GS226-006X06
1/2 x 6	2,200	0.50	19.96	13.96	6.00	1.44	0.72	3.23	1.60	GS226-008X06
1/2 x 9	2,200	0.50	25.96	16.96	9.00	1.44	0.72	3.23	1.83	GS226-008X09
1/2 x 12	2,200	0.50	32.08	19.08	12.00	1.44	0.72	3.23	2.14	GS226-008X12
5/8 x 6	3,500	0.63	21.68	15.68	6.00	1.75	0.88	3.90	2.75	GS226-010X06
5/8 x 9	3,500	0.63	27.68	18.68	6.00	1.75	0.88	3.90	3.13	GS226-010X09
5/8 x 12	3,500	0.63	34.93	21.68	12.00	1.75	0.88	3.90	3.42	GS226-010X12
3/4 x 9	5,200	0.75	29.62	20.62	9.00	2.09	1.00	4.69	4.61	GS226-012X09
3/4 x 12	5,200	0.75	35.62	23.62	12.00	2.09	1.00	4.69	5.43	GS226-012X12
7/8 x 12	7,200	0.88	36.82	24.82	12.00	2.38	1.25	5.10	8.10	GS226-014X12
1 x 12	10,000	1.00	39.97	27.72	12.00	3.00	6.36	6.36	11.93	GS226-100X12



## Eye & Eye Turnbuckle

GS226-005X04 - GS226-100X12

OCEANSIDE TURNBUCKLES ARE FORGED, WITH QUENCHED AND TEMPERED END FITTINGS, BODIES HEAT TREATED BY NORMALIZING, AND HOT DIP GALVANIZED STEEL. ENDS ARE PAINTED YELLOW FOR QUICK RECOGNITION. EMBOSSED WITH "OCEAN", SIZE, AND PRODUCT IDENTIFICATION FOR TRACEABILITY TO MEET ASME B30.26.

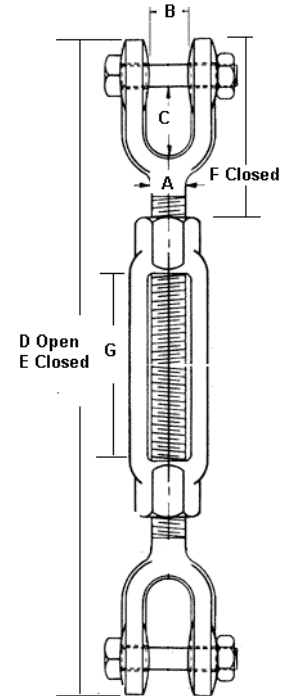
GS 228 Jaw & Jaw Turnbuckle											
Size	WLL	A	B	C	D		E		G	Wt.	Item
					Open	Closed	Open	Closed			
1/4 x 4	500	0.25	0.41	0.62	11.90	7.90	1.58	4	0.36	GS228-004X04	
5/16 x 4-1/2	800	0.31	0.47	0.87	13.90	9.40	1.98	4.5	0.52	GS228-005X04	
3/8 x 6	1,200	0.38	0.50	0.87	17.38	11.38	2.12	6	0.81	GS228-006X06	
1/2 x 6	2,200	0.50	0.63	1.06	19.00	13.00	2.75	6	1.50	GS228-008X06	
1/2 x 9	2,200	0.50	0.63	1.06	25.00	16.00	2.75	9	1.74	GS228-008X09	
1/2 x 12	2,200	0.50	0.63	1.06	31.00	19.00	2.75	12	2.40	GS228-008X12	
5/8 x 6	3,500	0.63	0.75	1.31	20.88	14.88	3.50	6	2.72	GS228-010X06	
5/8 x 9	3,500	0.63	0.75	1.31	26.88	17.88	3.50	9	3.24	GS228-010X09	
5/8 x 12	3,500	0.63	0.75	1.31	32.88	20.88	3.50	12	3.74	GS228-010X12	
3/4 x 6	5,200	0.75	0.94	1.50	22.60	16.60	4.18	6	4.11	GS228-012X06	
3/4 x 9	5,200	0.75	0.94	1.50	28.60	19.60	4.18	9	5.10	GS228-012X09	
3/4 x 12	5,200	0.75	0.94	1.50	34.60	22.60	4.18	12	6.65	GS228-012X12	
3/4 x 18	5,200	0.75	0.94	1.50	46.60	28.60	4.18	18	7.00	GS228-012X18	
7/8 x 12	7,200	0.88	1.13	1.75	36.32	24.32	4.85	12	8.17	GS228-014X12	
7/8 x 18	7,200	0.88	1.13	1.75	48.32	30.32	4.85	18	10.78	GS228-014X18	
1 x 6	10,000	1.00	1.19	2.06	26.06	20.06	5.53	6	10.18	GS228-100X06	
1 x 12	10,000	1.00	1.19	2.06	38.06	26.06	5.53	12	12.00	GS228-100X12	
1 x 18	10,000	1.00	1.19	2.06	50.06	32.06	5.53	18	14.00	GS228-100X18	
1 x 24	10,000	1.00	1.19	2.06	62.06	38.06	5.53	24	17.00	GS228-100X24	
1-1/4 x 12	15,200	1.25	1.75	2.81	42.54	29.54	7.21	12	20.59	GS228-104X12	
1-1/4 x 18	15,200	1.25	1.75	2.81	53.54	35.54	7.21	18	24.25	GS228-104X18	
1-1/4 x 24	15,200	1.25	1.75	2.81	68.04	41.54	7.21	24	28.20	GS228-104X24	
1-1/2 x 18	21,400	1.50	2.06	2.81	58.50	37.50	7.88	18	36.75	GS228-108X18	
1-1/2 x 24	21,400	1.50	2.06	2.81	70.50	43.50	7.88	24	41.60	GS228-108X24	
2 x 24	37,000	2.00	2.62	3.69	76.72	52.72	11.86	24	92.25	GS228-200X24	
2-1/2 x 24	60,000	2.50	3.06	4.44	82.18	58.18	13.56	24	165.00	GS228-208X24	

## Jaw & Jaw Turnbuckle

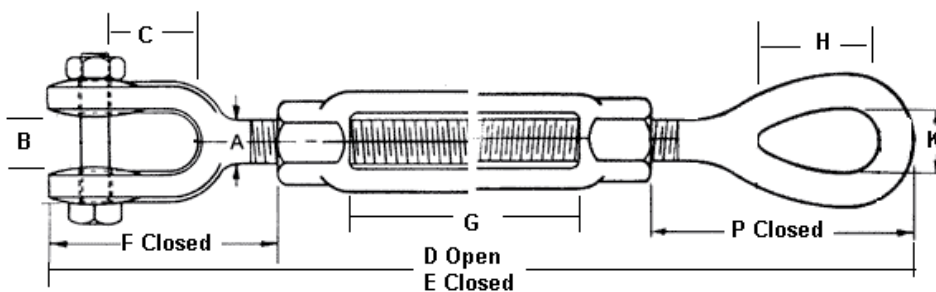
### GS228-004X04 - 212X24

Oceanside turnbuckles are forged, with quenched and tempered end fittings, bodies heat treated by normalizing, and hot dip galvanized steel. Ends are painted yellow for quick recognition.

Embossed with size, and product identification for traceability to meet ASME B30.26.



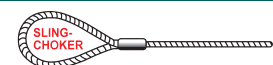
GS 227 Eye & Jaw Turnbuckle															
Size	WLL	A	B	C	D		E		G	H	K	P		Wt.	Item
					Open	Closed	Open	Closed				Open	Closed		
3/8 x 6	1,200	0.38	0.50	0.87	17.77	11.77	2.12	6.00	1.12	0.53	2.52	0.76	GS227-006X06		
1/2 x 6	2,200	0.50	0.63	1.06	19.48	13.48	2.75	6.00	1.44	0.72	3.23	1.53	GS227-008X06		



## Eye & Jaw Turnbuckle

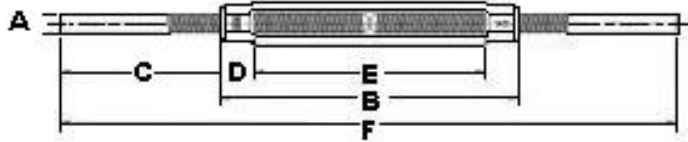
### GS227-006X06 GS227-008X06

OCEANSIDE TURNBUCKLES ARE FORGED, WITH QUENCHED AND TEMPERED END FITTINGS, BODIES HEAT TREATED BY NORMALIZING, AND HOT DIP GALVANIZED STEEL. ENDS ARE PAINTED YELLOW FOR QUICK RECOGNITION. EMBOSSED WITH "OCEAN", SIZE, AND PRODUCT IDENTIFICATION FOR TRACEABILITY TO MEET ASME B30.26.





GS 251 Stub End Turnbuckle									
Size	WLL	A	B	C	D	E	F	Wt.	Item
1/2 x 6	2,200	0.50	6.00	7.50	0.75	4.25	16.00	1.25	GS251-008X06
5/8 x 6	3,500	0.63	6.00	7.88	0.94	4.06	16.00	2.11	GS251-010X06
3/4 x 6	5,200	0.75	6.00	8.25	1.13	4.38	17.00	3.27	GS251-012X06
7/8 x 6	7,200	0.88	6.00	8.63	1.31	4.69	18.00	4.78	GS251-014X06
1 x 6	10,000	1.00	6.00	9.00	1.50	5.00	19.00	6.36	GS251-100X06
1 -1/4 x 6	15,200	1.25	6.00	9.13	1.56	5.44	20.00	10.18	GS251-104X06
1-1/2 x 12	21,400	1.50	12.00	15.75	1.88	5.38	26.50	20.44	GS251-108X12



## Stub End Turnbuckle

**GS251-008X06**  
**GS251-108X12**

OCEANSIDE TURNBUCKLES ARE FORGED, WITH QUENCHED AND TEMPERED END FITTINGS, BODIES HEAT TREATED BY NORMALIZING, AND HOT DIP GALVANIZED STEEL. ENDS ARE PAINTED YELLOW FOR QUICK RECOGNITION. EMBOSSED WITH "OCEAN", SIZE, AND PRODUCT IDENTIFICATION FOR TRACEABILITY TO MEET ASME B30.26.

GS 2510 Body		
Size	WLL	Item
3/8 x 6	1,200	GS2510-006
1/2 x 6	2,200	GS2510-008
5/8 x 6	3,500	GS2510-010
3/4 x 6	5,200	GS2510-012
7/8 x 6	7,200	GS2510-014
1 x 6	10,000	GS2510-100
1-1/4 x 6	15,200	GS2510-104
1-1/2 x 6	21,400	GS2510-108



## Turnbuckle Body

**GS2510-006**  
**GS2510-108**

GSTBKL Bottle Turnbuckle		
Size	Break	Item
3/8 x 6	4,500	GSTBKL-006
1/2 x 7	6,200	GSTBKL-008
5/8 x 9	9,700	GSTBKL-010
3/4 x 9	13,500	GSTBKL-012
7/8 x 12	19,200	GSTBKL-014
1 x 13	24,800	GSTBKL-100
1-1/4 x 15	45,000	GSTBKL-104

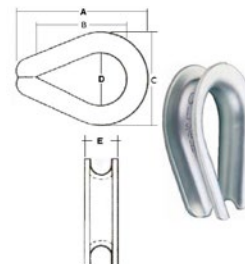


## Bottle Turnbuckle

**GSTBKL-006 - 104**

GS 414 Thimbles Heavy Duty Galvanized							
Rope Dia.	A	B	C	D	E	Wt.	Item
1/4"	2.19	1.50	1.63	0.88	0.41	0.07	GS414-004
5/16"	2.50	1.81	1.88	1.06	0.50	0.12	GS414-005
3/8"	2.88	2.13	2.13	1.13	0.63	0.22	GS414-006
7/16"	3.25	2.38	2.38	1.25	0.72	0.35	GS414-007
1/2"	3.63	2.75	2.75	1.50	0.89	0.51	GS414-008
9/16"	3.63	2.69	2.75	1.50	0.89	0.51	GS414-009
5/8"	4.25	3.13	3.25	1.75	1.00	0.76	GS414-010
3/4"	5.00	3.81	3.75	2.00	1.22	1.58	GS414-012
7/8"	5.50	4.25	4.25	2.25	1.38	1.78	GS414-014
1"	6.13	4.94	4.50	2.50	1.56	3.14	GS414-100
1-1/8"	7.00	5.88	5.13	2.88	1.88	4.00	GS414-102
1-1/4"	9.00	6.81	6.25	3.50	2.25	8.11	GS414-104
1-1/2"	9.06	7.13	6.50	3.50	2.62	12.95	GS414-108
1-3/4"	12.19	8.50	9.00	4.50	3.06	17.75	GS414-112
2"	15.13	10.38	12.00	6.00	3.38	27.75	GS414-200
2-1/4"	17.13	11.88	14.00	7.00	3.88	39.50	GS414-204

GS 411 Thimbles Light Duty Galvanized							
Rope Dia.	A	B	C	D	E	Wt.	Item
1/8"	1.94	1.06	1.31	0.69	0.25	0.04	GS411-002
3/16"	1.94	1.06	1.31	0.69	0.31	0.04	GS411-003
1/4"	1.94	1.06	1.31	0.69	0.38	0.04	GS411-004
5/16"	2.13	1.25	1.50	0.81	0.44	0.04	GS411-005
3/8"	2.38	1.47	1.63	0.94	0.53	0.01	GS411-006
1/2"	2.75	1.75	1.88	1.13	0.69	0.13	GS411-008
5/8"	3.50	2.38	2.25	1.38	0.91	0.35	GS411-010
3/4"	3.75	2.69	2.50	1.63	1.08	0.47	GS411-012
7/8"	5.00	3.19	3.50	1.88	1.27	0.85	GS411-014

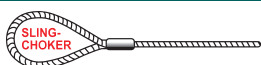


## Light Duty Thimbles

**GS411-002 - 100**

## Heavy Duty Thimbles

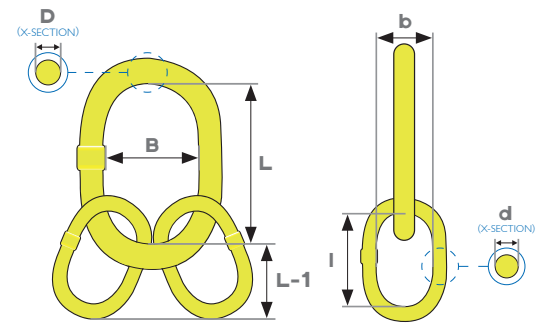
**GS414-004 - 204**



Sub Assemblies										
Size	WLL	L-I	L	B	D	I	b	d	Wt.	Item
3/4"	11,000	10.20	5.90	3.50	0.75	4.30	2.40	0.55	4.0	7201792
7/8"	17,600	11.80	6.30	3.70	0.87	5.50	3.20	0.67	6.2	7201801
1"	21,300	13.40	7.50	4.30	0.98	5.90	3.50	0.75	7.0	7201810
1-1/4"	35,200	14.20	7.90	4.70	1.20	6.30	3.70	0.87	13.0	7201819
1-5/8"	57,200	16.90	9.90	5.90	1.60	7.10	4.10	1.10	29.0	7201828
2"	77,000	19.70	11.80	7.90	2.00	7.90	4.30	1.30	51.0	7201837
2-1/4"	110,100	22.00	11.80	7.90	2.20	10.20	5.50	1.50	70.0	7201846
2-1/2"	165,100	24.00	13.80	7.90	2.40	10.20	5.50	1.80	100.0	7201855
2-3/4"	220,200	26.80	15.80	9.90	2.80	11.00	6.30	2.00	150.0	7201864
3-1/4"	275,300	26.80	15.80	9.90	3.10	11.00	6.30	2.20	190.0	7201873

## Sub Assemblies

### 7201792 - 7201864



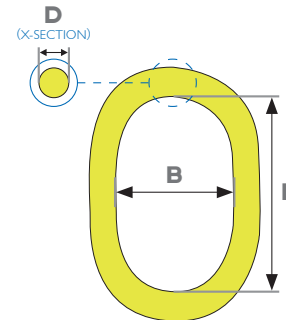
Master Links							
MM	Inch	WLL	L	B	D	Wt.	Item
11	3/8"	3,300	3.90	2.40	0.43	0.4	7201513
14	1/2"	7,000	4.70	2.80	0.55	0.9	7201522
17	5/8"	11,400	5.50	3.20	0.67	1.5	7201531
19	3/4"	12,300	5.90	3.50	0.75	2.2	7201540
22	7/8"	17,200	6.30	3.70	0.87	3.3	7201549
28	1"	29,900	7.50	4.30	0.99	4.9	7201558
30	1-1/4"	35,200	7.90	4.70	1.20	7.7	7201567
34	1-3/8"	45,300	9.50	5.50	1.30	11.0	7201576
38	1-1/2"	68,000	9.90	5.90	1.50	15.0	7201585
40	1-5/8"	70,400	9.90	5.90	1.60	18.0	-
45	1-3/4"	84,900	11.80	7.10	1.80	26.0	7201603
50	2"	102,600	11.80	7.90	2.00	33.0	7201612
55	2-1/4"	143,100	11.80	7.90	2.20	40.0	7201621
60	2-1/2"	160,000	13.80	7.90	2.40	55.0	7201630
70	2-3/4"	220,200	15.80	9.90	2.80	88.0	7201369
80	3-1/4"	275,300	15.80	9.90	3.20	117.0	7201648

## Master Links

### 7201513 - 7201648

Gunnebo Lifting master links are made using the most modern technology.

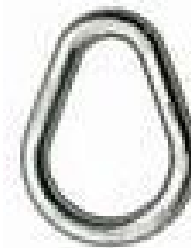
The design is wider than many standard alloy steel master links to accommodate modern crane hooks. The additional width, especially in larger sizes, allows the fabricator to install thimbles for larger sized wire ropes used in bridle configurations.



Weldless Pear Shape Link (GS341) (5:1)						
Size	WLL	Inside	I.W.		Wt.	Item
		Length	Small End	Large End		
3/8"	1,800	2.25	0.75	1.50	0.13	GS341-006
1/2"	2,900	3.00	1.00	2.00	0.55	GS341-008
5/8"	4,200	3.75	1.25	2.50	1.10	GS341-010
3/4"	6,000	4.50	1.50	3.00	1.95	GS341-012
7/8"	8,300	5.25	1.75	3.50	2.78	GS341-014
1"	10,800	6.00	2.00	4.00	4.30	GS341-100
1-1/4"	16,750	7.75	2.50	5.00	8.50	GS341-104

## Weldless Pear Shaped Link

### GS341-006 - 104



GS320A Alloy Eye Hooks with Latch							
WLL Ton	A	B	C	D	E	WT	Item
1.5	0.91	1.03	3.66	0.97	0.81	0.80	GS320A-015
2	1.12	1.06	4.09	1.00	0.84	1.10	GS320A-02
3	1.25	1.22	4.69	1.12	1.19	1.70	GS320A-03
4.5	1.56	1.50	5.78	1.34	1.38	3.60	GS320A-045
7	2.00	1.88	7.38	1.69	1.78	6.70	GS320A-07
11	2.44	2.25	9.06	2.06	2.12	12.00	GS320A-11
15	2.84	2.50	10.06	2.27	2.56	18.50	GS320A-15
22	3.50	3.58	12.53	3.02	2.88	33.80	GS320A-22
5:1 Safety Factor							

## Alloy Eye Hooks With Latch

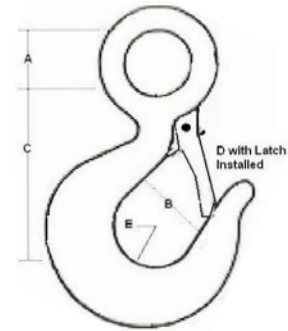
GS320A-015 - 22



GS320C Carbon Eye Hooks with Latch							
WLL Ton	A	B	C	D	E	WT	Item
0.75	0.75	0.94	3.22	0.88	0.81	0.50	GS320C-0075
1	0.91	1.03	3.66	0.97	0.81	0.80	GS320C-01
1.5	1.12	1.06	4.09	1.00	0.84	1.10	GS320C-015
2	1.25	1.22	4.69	1.12	1.19	1.70	GS320C-02
3	1.56	1.50	5.78	1.34	1.38	3.60	GS320C-03
5	2.00	1.88	7.38	1.69	1.78	6.70	GS320C-05
7.5	2.44	2.25	9.06	2.06	2.12	12.00	GS320C-075
10	2.84	2.50	10.06	2.27	2.56	18.50	GS320C-10
15	3.50	3.58	12.53	3.02	2.88	33.80	GS320C-15
5:1 Safety Factor							

## Carbon Eye Hooks With Latch

GS320C-0075 - 15



GS 322A Swivel Hoist Hook- Alloy					
WLL Ton	ID Bail Width	Throat No latch	Throat With Latch	Wt.	Item
7	2.50	1.88	1.69	10.29	GS322A-07
11	2.75	2.25	1.06	18.62	GS322A-11
15	3.13	2.50	2.25	25.43	GS322A-15
22	4.06	3.38	3.13	47.25	GS322A-22
5:1 Safety Factor					

## Alloy Swivel Hoist Hooks

GS322A-07 - 22

GS 322C Swivel Hoist Hooks- Carbon					
WLL Ton	ID Bail Width	Throat No latch	Throat With Latch	Wt.	Item
0.75	1.25	0.94	0.88	0.78	GS322C-0075
1	1.50	1.03	0.97	1.32	GS322C-01
1.5	1.75	1.06	1.00	2.02	GS322C-015
2	1.75	1.22	1.13	2.57	GS322C-02
3	2.00	1.50	1.34	4.89	GS322C-03
5	2.50	1.88	1.69	10.29	GS322C-05
7.5	2.75	2.25	1.06	18.62	GS322C-075
5:1 Safety Factor					

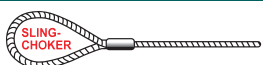
## Carbon Swivel Hoist Hooks

GS322C-0075 - 075

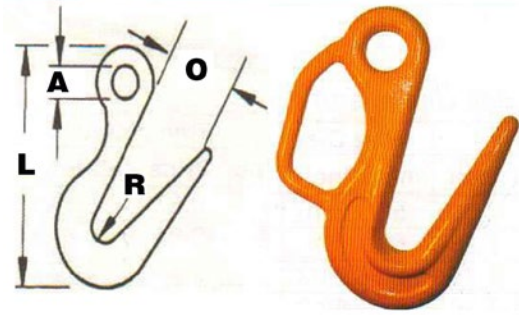
Eye & Swivel Hooks come with latch and are forged carbon or alloy steel that is quenched and tempered.



EMBOSSSED WLL WITH 5:1 SAFETY FACTOR. EMBOSSSED WITH "OCEAN" AND PRODUCT IDENTIFICATION FOR TRACEABILITY. ALL HOOKS ARE POWDER COATED YELLOW FOR QUICK RECOGNITION.



GS378 Sorting (Pelican) Hooks							
WLL at TIP	WLL at Bottom	I.D. of Eye "A"	Overall Length	Opening at Top "O"	Radius at Bottom "R"	Wt.	Item
2	7.5	1.38	9.69	2.81	0.625	6.42	GS378



## Sorting (Pelican) Hooks

### GS378

Sorting hooks (Pelican hooks) allow for ideal handling of items such as pipe, piling, etc. They are one of the few hooks that offer a working load at the bottom of the hook and at the tip.

GS 350 Sliding Choker Hook								
Rope Size	WLL	A	E	H	P	S	Wt.	Item
3/8-1/2"	3,400	0.63	3.43	0.94	0.71	0.71	1.30	GS350-6
9/16-5/8"	5,200	0.83	3.86	1.14	0.79	0.87	2.00	GS350-9

## Sliding Choker Hooks

### GS350-6 - 9

Sliding choker hooks minimize damage to the sling when choking and allow for quick, repetitive chocking. A typical installation will have thimble eyes. 5:1 Design Factor

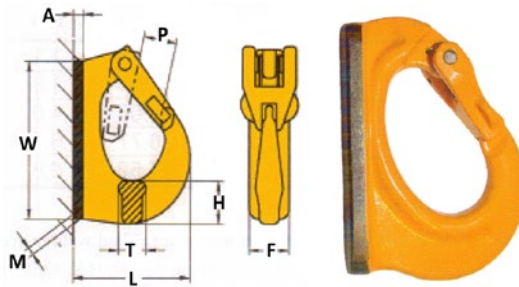


Weld on Bucket Hook											
WLL	A	F	H	L	M	P	T	W	Weld		Item
									Bead "a"	Wt.	
3	0.35	1.38	1.18	4.21	0.34	1.1	0.91	5.24	6mm	3.1	GSBH-03
4	0.39	1.65	1.49	4.49	0.28	1.1	1.18	5.59	7mm	4.2	GSBH-04
5	0.47	1.73	1.85	5.31	0.28	1.18	1.22	6.57	8mm	6.6	GSBH-05
10	0.51	2.2	2.2	6.69	0.31	1.73	1.65	8.74	9mm	13.6	GSBH-10

## Weld-On Bucket Hooks

### GSBH313-03 - 10

Yoke's weld-on bucket hook has one of the heaviest latches in the industry. Please ask for detailed welding instructions. 5:1 Design Factor

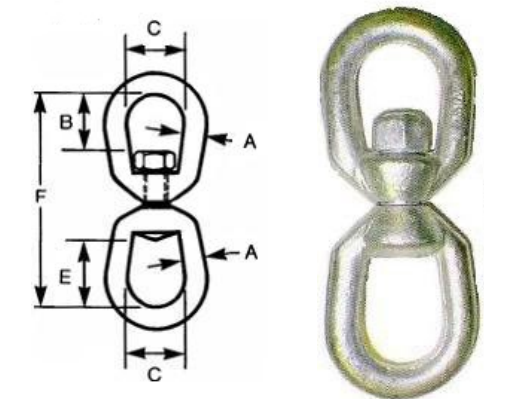


GS402 Eye & Eye Swivel								
Size	WLL	A	B	C	1/2 Length		Wt.	Item
					Side "E"	"F"		
3/8"	2,250	2.00	0.94	1.25	2.50	5.06	0.7	GS402-006
1/2"	3,600	2.50	1.31	1.50	3.19	6.44	1.3	GS402-008
5/8"	5,200	3.00	1.56	1.75	3.88	7.81	2.5	GS402-010
3/4"	7,200	3.50	1.75	2.00	4.31	8.69	4.0	GS402-012
1"	12,500	4.50	2.31	2.50	5.75	11.63	9.0	GS402-100
1-1/4"	18,000	5.63	2.69	3.13	6.75	13.36	16.4	GS402-104
1-1/2"	45,200	7.00	4.19	4.00	10.00	20.13	45.8	GS402-108

## Eye & Eye Swivel

### GS402-006 - 108

These swivels are forged, quenched, and tempered, hot dip galvanized, and conform to federal specification RR-C-271D, Type VII, Class 2. 5:1 Design Factor



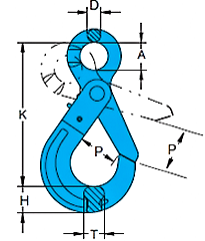
Self Locking Eye Hook (Yoke)- G100												
Chain Size	4:1	5:1	Wire	A	D	H	K	P	T	Wt.	Item	
Size	WLL	WLL	Sling									
1/4"-5/16	5,700	4,560	3/8"	0.98	0.44	0.94	5.35	1.34	0.79	1.7	28XSLEH-07-08	
3/8"	8,800	7,040	1/2"	1.26	0.51	1.19	6.57	1.73	1.02	3.0	28XSLEH-10	
1/2"	15,000	12,000	5/8"	1.56	0.62	1.50	8.15	2.05	1.19	5.9	28XSLEH-13	
5/8"	22,600	18,080	3/4"	2.05	0.83	1.91	9.92	2.36	1.56	12.3	28XSLEH-16	
3/4"	35,300	28,240	1"	2.52	0.91	1.96	11.10	3.54	1.91	18.7	28XSLEH-18-20	

## Self-Locking Eye Hooks

### 28XSLEH-07-08 - 018-20

Self-Locking (positive latching) hooks latch automatically as the load is applied.

The latch is integral and is quite robust.



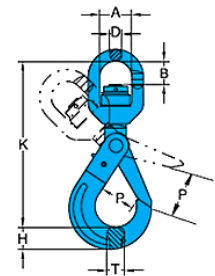
Self Locking Swivel Hook- Bushing (Yoke)- G100												
Chain Size	4:1	5:1	Wire	A	B	D	H	K	P	T	Wt.	Item
Size	WLL	WLL	Sling									
1/4"-5/16	5,700	4,560	3/8"	1.42	0.79	0.51	1.02	5.94	1.38	0.79	2.40	28XSSLH-07-08
3/8"	8,800	7,040	1/2"	1.63	1.06	0.62	1.34	6.75	1.73	1.02	4.40	28XSSLH-10
1/2"	15,000	12,000	5/8"	1.81	0.94	0.83	1.56	8.23	2.05	1.19	8.80	28XSSLH-13
5/8"	22,600	18,080	3/4"	2.36	1.56	0.91	2.17	10.43	2.36	1.56	14.90	28XSSLH-16
3/4"	35,300	28,240	1"	2.91	3.23	0.98	2.56	14.09	3.54	1.91	25.50	28XSSLH-18-20
7/8"	42,700	34,160	1-1/8"	3.15	2.48	1.14	2.48	16.93	3.15	1.93	35.20	28XSSLH-22
1"	59,700	47,760	1-1/4"	4.13	3.78	1.26	2.72	18.90	3.90	2.20	47.40	28XSSLH-28

## Self-Locking Swivel Hooks

### 28XSSLH-07-08 - 28

Self Locking (positive latching) hooks latch automatically as the load is applied. The latch is integral and is quite robust.

This hook features a bushing swivel bearing allowing the hook to swivel to the correct location. It will not swivel under load.

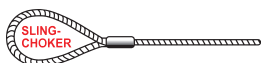
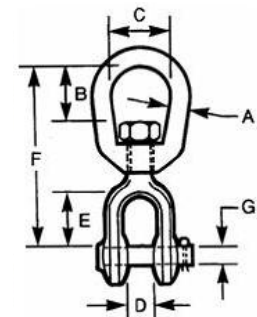


GS403 Jaw & Eye Swivel Forged												
Size	WLL	A	B	C	D	E	F	G	Lgth	Wt.	Item	
3/8"	2,250	2.00	0.94	1.25	0.63	1.06	3.63	0.38	4.75	0.66	GS403-006	
1/2"	3,600	2.50	1.31	1.50	0.75	1.31	4.50	0.50	6.06	1.34	GS403-008	
5/8"	5,200	3.00	1.56	1.75	0.94	1.50	5.31	0.63	7.31	2.48	GS403-010	
3/4"	7,200	3.50	1.75	2.00	1.13	1.75	6.06	0.75	8.31	3.88	GS403-012	
1"	12,500	4.50	2.31	2.50	1.75	2.06	8.56	0.88	11.69	9.84	GS403-100	
1-1/4"	18,000	5.69	2.69	3.13	2.06	2.81	9.44	1.13	13.13	15.75	GS403-104	

## Jaw & Eye Swivel

### GS403-006 - 104

These swivels are forged, quenched, and tempered, hot dip galvanized, and conform to federal specification RR-C-271D, Type VII, Class 2



GS21 Wood Blocks- Single Sheave							
Shell Size	Rope Dia.	O.D.	Rim	Pin	WLL	Wt.	Item
3"	3/8"	1-3/4"	1/2"	3/8"	500	1.00	GS21-3
4"	1/2"	2-1/4"	5/8"	3/8"	1,000	2.00	GS21-4
5"	5/8"	3"	3/4"	3/8"	1,200	2.50	GS21-5
6"	3/4"	3-1/2"	1"	1/2"	1,800	4.00	GS21-6
8"	7/8"	4-3/4"	1-1/8"	5/8"	2,800	9.50	GS21-8
WLL 4:1							

## Single Sheave Wood Blocks

### GS21-3 - 8

For use with fibre rope, these wood blocks have bronze-brushed sheaves and are furnished with becketts.

GS22 Wood Blocks- Double Sheave							
Shell Size	Rope Dia.	O.D.	Rim	Pin	WLL	Wt.	Item
3"	3/8"	1-3/4"	1/2"	3/8"	500	1.00	GS22-3
4"	1/2"	2-1/4"	5/8"	3/8"	1,000	2.00	GS22-4
5"	5/8"	3"	3/4"	3/8"	1,200	2.50	GS22-5
6"	3/4"	3-1/2"	1"	1/2"	1,800	4.00	GS22-6
8"	7/8"	4-3/4"	1-1/8"	5/8"	2,800	9.50	GS22-8

## Double Sheave Wood Blocks

### GS22-3 - 8

For use with fibre rope, these wood blocks have bronze-brushed sheaves and are furnished with becketts.

Wooden Snatch Block			
Rope Size	WLL	Shell Size	Item
7/8"	2,400	6	GSWSB-014
1-1/8"	4,800	8	GSWSB-102
WLL 4:1			

## Wood Snatch Blocks

### GSWSB-014 - 100

For use with fibre rope. These snatch blocks have bronze-brushed sheaves and can open for easy access

Gin Block				
Rope Dia	WLL Lbs.	Size	Wt.	Item
1"	1,000	12"	12.7	GS350
WLL 3:1				

## Gin Block

### GS350

For Manila Rope. For light hoisting by roofers and contractors. Furnished with a drop forged swivel latch hook.



Yarding Block				
Wire Size	WLL Tons	Size	Wt.	Item
1/4"-5/16"	1.5	3"	4.0	GSB-3
3/8"	3	4"	6.0	GSB-4
1/2"	4.5	5"	8.0	GSB-5
9/16"	6	6"	10.0	GSB-6
5/8"	8	8"	15.0	GSB-8
WLL 4:1				

## Yarding Blocks

### GSB-3 - 8

- Roller Bearings
- Grease Nipple
- Economical
- Tight quarters minimizing risk of rope slipping out of sheave groove



Yarding Block T316				
Wire Size	WLL Tons	Size	Wt.	Item
9/16"	6	6"	10.0	GSBS-6
5/8"	8	8"	15.0	GSBS-8
WLL 4:1				

## Yarding Blocks T316

### GSBS-6 - 8

- T316 Stainless Steel
- Roller Bearings
- Grease Nipple
- Economical
- Tight quarters minimizing risk of rope slipping out of sheave groove



Jet Snatch Block				
Size	Cap Tons	Rope Dia.	Wt.	Item
3" Single	0.5	3/8"	3.0	J130103
4" Single	1	7/16"	5.0	J130104
5" Single	1 1/2	1/2"	10.0	J130105
6" Single	2	5/8"	16.0	J130106
8" Single	4	3/4"	32.0	J130108
3" Double	1/2	3/8"	4.0	J130203
4" Double	1	7/16"	7.0	J130204

## Jet Snatch Blocks

### J1302-03 - 04

- Extremely light weight
- Stamped steel side plates
- Hook with Latch
- Double sheave has anchor point
- Easily opened



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GS418 Single Snatch Block- Hook				
Wire Size	Sheave Dia.	WLL	Wt. Lbs.	Item
3/8"	3"	2	4	GS418-006
1/2"	4.5"	4	6	GS418-008
5/8"	6"	8	8	GS418-010
3/4"	8"	8	10	GS418-012

## Single Snatch Block - Hook

GS418-006 - GS418-012



GS419 Single Snatch Block-Shackle				
Wire Size	Sheave Dia.	WLL	Wt. Lbs.	Item
3/8"	3"	2	4	GS419-006
1/2"	4.5"	4	6	GS419-008
5/8"	6"	8	8	GS419-010
3/4"	8"	8	10	GS419-012

## Single Snatch Block - Shackle

GS419-006 - GS419-012



GS408 Double Snatch Block- Hook				
Wire Size	Sheave Dia.	WLL	Wt. Lbs.	Item
1/2"	4.5"	4	6	GS408-008
5/8"	6"	8	8	GS408-010
3/4"	8"	8	10	GS408-012

## Double Snatch Block - Hook

GS408-008 - GS408-012



GS409 Double Snatch Block-Shackle				
Wire Size	Sheave Dia.	WLL Ton	Wt. Lbs.	Item
1/2"	4.5"	4	6	GS409-008
5/8"	6"	8	8	GS409-010
3/4"	8"	8	10	GS409-012

## Double Snatch Block - Shackle

GS409-008 - GS409-012



GS421 Single HD Snatch Block-Shackle				
Wire Size	Sheave Dia.	WLL Ton	Wt. Lbs.	Item
3/4"-7/8"	8	15	64	GS421-014
1"-1-1/8"	8	15	65	GS421-102

## Single Heavy Duty Snatch Block - Shackle

GS421-014 - 102



GS420 Single HD Snatch Block- Hook				
Wire Size	Sheave Dia.	WLL Ton	Wt. Lbs.	Item
1"-1-1/8"	8	15	65	GS420-102

## Single Heavy Duty Snatch Block - Hook

GS420-102



GS431 Single HD Snatch Block- Shackle				
Wire Size	Sheave Dia.	WLL Ton	Wt. Lbs.	Item
1"	18	25	292	GS431-100
1-1/8"	20	30	418	GS431-102

## Single Heavy Duty Snatch Block - Shackle w/ Large Dia. Sheaves

GS431-100 - 102



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GS Snatch Blocks have a Working Load Limit of 4:1. Furnished with bronze bushing, grease nipple, shackle connection, and heavy plate steel side plates.

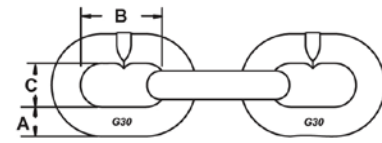


## Grade 30 Chain

### CHG3(Z/G/Pail)-003 - 08

Grade 30 Chain, commonly called proof coil. Typical uses include barrier chains, light construction, marine industry, etc. Available in self-coloured, bright zinc, and hot dip galvanized.

**GRADE 30 CHAIN IS NOT TO BE USED FOR OVERHEAD LIFTING.**



Grade 30 Chain Specifications						
Size	WLL	A	B	C	Wt./ft.	Links/ft.,
3/16	800	0.213	0.970	0.360	0.37	12.37
1/4	1,300	0.270	1.220	0.460	0.60	9.84
5/16	1,900	0.309	1.220	0.460	0.81	9.84
3/8	2,650	0.386	1.370	0.600	1.33	8.76
1/2	4,500	0.500	1.730	0.810	2.27	6.94
5/8	6,900	0.625	1.916	0.855	3.63	6.26
3/4	10,600	0.781	2.397	1.070	5.68	5.01

Grade 30 Proof Coil- Pail Bright Zinc		
In.	pail	Item
3/16	250	CHG3Z-Pail-03
1/4	140	CHG3Z-Pail-04
5/16	90	CHG3Z-Pail-05
3/8	60	CHG3Z-Pail-06
1/2	40	CHG3Z-Pail-08

Grade 30 Proof Coil Self Coloured			
In.	Full	Half	Item
3/16	850		CHG3-003
1/4	800	400	CHG3-004
5/16	550	275	CHG3-005
3/8	400	200	CHG3-006
1/2	350	200	CHG3-008
5/8	NA	150	CHG3-010
3/4	170	100	CHG3-012

Grade 30 Proof Coil Bright Zinc			
In.	Full	Half	Item
1/4	800	400	CHG3Z-004
5/16	550	275	CHG3Z-005
3/8	400	200	CHG3Z-006

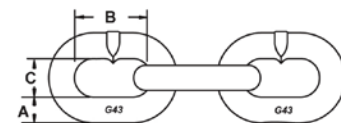
Grade 30 Proof Coil Hot Galvanized			
In.	Full	Half	Item
3/16	850	500	CHG3G-003
1/4	800	400	CHG3G-004
5/16	550	275	CHG3G-005
3/8	400	200	CHG3G-006
1/2	200	100	CHG3G-008
5/8	250	150	CHG3G-010
3/4	170	100	CHG3G-012

## Grade 43 Chain

### CHG4(Z/G/Pail)-004 - 012

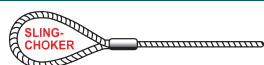
Grade 43 Chain, commonly called High Test. Typical uses include logging, towing, and marine industry. Available in bright zinc, zinc plated, and hot dip galvanized.

**GRADE 43 CHAIN IS NOT TO BE USED FOR OVERHEAD LIFTING.**

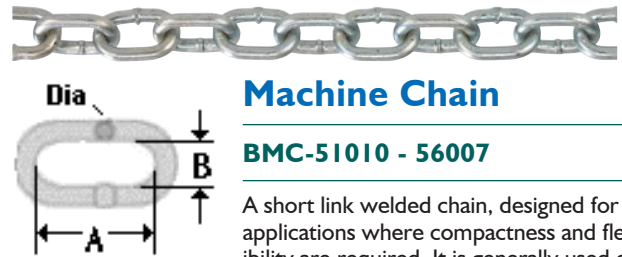


Grade 43 Chain Specifications						
Size	WLL	A	B	C	Wt./ft.	Links/ft.,
1/4	2,600	0.270	1.220	0.460	0.60	9.84
5/16	3,900	0.327	1.100	0.500	0.98	10.91
3/8	5,400	0.386	1.370	0.600	1.33	8.76
1/2	9,200	0.500	1.730	0.600	2.27	6.93
5/8	13,000	0.625	1.916	0.855	3.63	5.63
3/4	20,200	0.781	2.397	1.070	5.68	5.66

Grade 43- High Test Self Coloured			
In.	Full	Half	Item
1/4	800	400	CHG4-004
5/16	550	275	CHG4-005
3/8	400	200	CHG4-006
1/2	350	200	CHG4-008
5/8	150	75	CHG4-010
3/4	100	50	CHG4-012



Machine Chain								
Size	Dia.	A	B	Feet	Pkg.	WL	Wt.	Item
#2	0.150	0.61	0.26	125	Reel	325	23.75	BMC-51011
#2	0.150	0.61	0.26	100	Reel	325	19	BMC-56007
#3	0.140	0.59	0.24	80	Reel	270	12	BMC-51012
#4	0.120	0.55	0.21	100	Reel	215	11	BMC-51010



## Machine Chain

**BMC-51010 - 56007**

A short link welded chain, designed for applications where compactness and flexibility are required. It is generally used on tailgates, farm, and industrial equipment.

Machine Chain- Twist								
Size	Dia.	A	B	Feet	Pkg.	WL	Wt.	Item
#2	0.150	0.58	0.22	125	Reel	310	25	BMC-51020
#4	0.120	0.52	0.17	100	Reel	200	13	BMC-51021
2/0	0.19	0.7	0.28	75	Reel	520	0.255	BMC-51022
2/0	0.19	0.73	0.28	150	Pail	520	51	BMC-51063

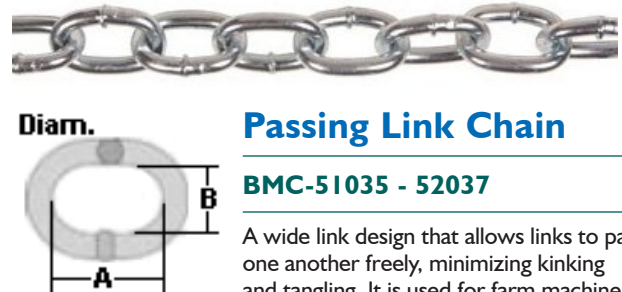


## Machine Chain - Twist

**BMC-51023 - 51063**

A short link welded chain, designed for applications where compactness and flexibility are required. It is generally used on tailgates, farm, and industrial equipment.

Passing Link Chain								
Size	Dia.	A	B	Feet	Pkg.	WL	Wt.	Item
2/0	0.192	0.73	0.28	120	Reel	520	25	BMC-51035
2/0	0.192	0.73	0.28	225	Pail	520	101	BMC-52037



## Passing Link Chain

**BMC-51035 - 52037**

A wide link design that allows links to pass one another freely, minimizing kinking and tangling. It is used for farm machinery, animal ties, and as a general utility chain.

Mid Link Chain-Self Coloured					
Inside Inch					
Dia.	WLL	Length	Width	Packaging	Item
3/8"	6,440	2.03	0.80	400	CHMID-10
1/2"	13,888	1.89	0.94	200	CHMID-13
5/8"	19,040	2.50	1.00	100	CHMID-16
3/4"	27,440	2.97	1.13	50	CHMID-19



## Mid Link Chain - Self Coloured

**CHMID-10 - 19**

A particularly long inside length allows for a multitude of uses. WLL is 4:1.

Chain Stud Link- 90 Foot				
Dia.	Grade	Wt./90 Ft.	Breaking Load	Item
1"	2	860	83,600	CH-G2A-100
1-1/8"	2	1,080	105,000	CH-G2A-102
1-1/4"	2	1,350	129,000	CH-G2A-104
1-1/2"	2	1,940	183,500	CH-G2A-108
2"	3	3,360	454,000	CH-G2A-200
2-1/4"	3	4,250	570,000	CH-G2A-204
2-1/2"	3	5,270	692,000	CH-G2A-208

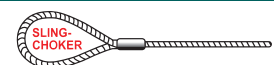
## Anchor Chain Stud Link - 90'

**CH-G2A-100 - 208**

Available new and used, these prices are for reference only. Please call us for an updated price for your current needs

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Grade 30 & 43 chain is manufactured to meet ASTM & NACM specifications. permanent identification on chain. 100% proof tested. available in full drums, half drums, pails, etc.

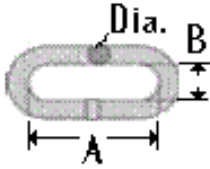




## Coil Chain

**BMC-51015 - 51018**

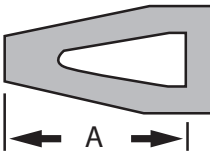
Longer links than proof coil or machine chain and is therefore less flexible. Uses include animal chain, agricultural implement chain, and platform guard rail chain.



## Sash Chain

**BMC-51060 - 51061**

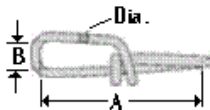
A stamped, flat link chain that is widely used when a flat metal chain is required. Sash chain operates smoothly over pulleys. Also suitable for lamp chain, tool boxes, and many other applications



## Tenso (Double Loop) Chain

**BMC-51050 - 52146**

A machine woven, weldless chain with two identical size loops securely knotted in the center. This is a general utility chain for hardware and manufacturing applications, such as playground and gym equipment, florescent lights, boats, gates, porch swings, halters, and tie-out chain



## Single Jack Chain

**BMC-51047 - 51038**

A weldless chain shaped in a figure 8 pattern, Single Jack Chain is used in areas that do not require high strength, such as hanging signs, light fixtures, and scales.



Coil Chain									
Size	Dia.	A	B	Feet	Pkg.	WL	Wt.	Item	
2/0	0.19	1.29	0.32	200	Pail	520	54	BMC-51017	
#4	0.12	1.11	0.21	100	Reel	205	10	BMC-51015	
2/0	0.19	1.29	0.32	125	Reel	520	33.75	BMC-51016	
#2	0.15	1.18	0.26	125	Reel	310	22.5	BMC-51018	

Coil Chain- Twist Link									
Size	Dia.	A	B	Feet	Pkg.	WL	Wt.	Item	
2/0	0.192	1.24	0.29	75	Reel	495	25	TBA	

Sash Chain							
Size	Inch	mm	Pkg.	WLL	Wt.	Item	
#8	0.29		Reel	75	8	BMC-51060	
#35	0.035	0.9	Reel	105	7	BMC-51061	

Tenso (Double Loop) Chain									
Size	Dia.	A	B	Feet	Pkg.	Finish	WL	Wt.	Item
#1	0.105	1.540	0.281	125	Reel	Zinc	155	10.0	BMC-51145
#1	0.105	1.540	0.281	250	Reel	Zinc	155	20.0	BMC-51052
#1	0.105	1.540	0.281	425	Pail	Zinc	155	34.0	BMC-51067
#2	0.091	1.330	0.160	200	Reel	Zinc	115	24.0	BMC-51057
#2	0.091	1.330	0.160	800	Box	Zinc	115	96.0	BMC-51058
#3	0.080	1.100	0.187	200	Reel	Zinc	90	12.0	BMC-51053
#3	0.080	1.100	0.187	700	Reel	Zinc	90	42.0	BMC-51059
#4	0.072	1.020	0.171	250	Pail	Zinc	70	12.5	BMC-51054
#1/0	0.120	1.780	0.312	200	Reel	Zinc	200	24.0	BMC-51051

Single Jack Chain- Steel									
Size	Dia.	Length	Feet	Pkg.	Finish	WLL	Wt.	Item	
#10	0.135	0.930	150	Reel	Zinc	43	18.0	BMC-51040	
#12	0.105	0.770	100	Reel	Zinc	29	9.0	BMC-51041	
#12	0.105	0.770	100	Reel	Brass	29	9.0	BMC-51044	
#14	0.080	0.660	190	Reel	Poly Black	16	9.5	BMC-51140	
#14	0.080	0.660	200	Reel	Black	16	10.0	BMC-51047	
#14	0.080	0.660	200	Reel	Zinc	16	10.0	BMC-51042	
#14	0.080	0.660	200	Reel	Brass	16	10.0	BMC-51045	
#16	0.062	0.520	250	Reel	Zinc	11	6.9	BMC-51043	
#16	0.062	0.520	250	Reel	Bronze	11	6.9	BMC-51046	
#18	0.470	0.390	200	Reel	Zinc	5	3.4	BMC-51038	

Security Chain				
Size In	Size mm	Links / ft	Hardness	Item
9/32"	7	12.7	62 RC / 10%	14827
3/8"	10	8.7	62 RC / 10%	11696
1/2"	12	6.8	62 RC / 6%	56847



## Pewag Security Chain

**14827 - 56847**

Square case hardened security chain with an electro-galvanized finish.

Bolt Cutters			
Length	Capacity	Wt.	Item
9"	1/8" Proof Coil	1	BOLTC-09
14"	3/16" Proof Coil	2.6	BOLTC-14
18"	1/4" Proof Coil	4	BOLTC-18
24"	5/16" Proof Coil	5	BOLTC-24
30"	3/8" Proof Coil	7	BOLTC-30



## Bolt Cutters

**BOLTC-14 - 30**

## Electro-Hydraulic Chain Cutters

### CUT-CH4

Electro-Hydraulic power for cutting and opening chain links, wire rope and rods.

- 120V AC, 5 amps, 7' power cord
- Dimensions  
Height: 19"  
Width: 6 3/8"  
Depth: 8 3/4"
- Cutting Capacity  
3/8" Grade 100 Chain  
1/2" Grade 40 Chain  
3/8" Aircraft Cable



Chain Cutters			
Type	Capacity	Wt.	Item
Ratchet	3/8" Proof coil	9.1	Cut-CH1
Hydraulic	3/8" High Test	30	Cut-CH2
Hydraulic	3/8" Transport	30	Cut-CH3
Electro-Hydraulic	3/8" Grade 100	70	Cut-CH4



## Chain Cutters

**CUT-CH1 - 3**

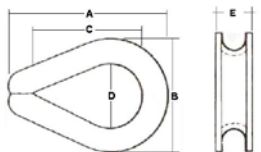
Thimbles Heavy Duty T304 Stainless							
Size	A	B	C	D	E	WT.	Item
1/4	2.19	1.63	1.50	0.88	0.41	0.07	GS414S-004
5/16	2.50	1.88	1.81	1.06	0.50	0.12	GS414S-005
3/8	2.88	2.13	2.13	1.13	0.63	0.22	GS414S-006
1/2	3.63	2.75	2.75	1.50	0.89	0.51	GS414S-008
5/8	4.35	3.25	3.13	1.75	1.00	0.76	GS414S-010
3/4	5.00	3.75	3.81	2.00	1.22	1.58	GS414S-012

Thimble Light Duty T304SS		
Rope Dia.	Item	
1/16	GS411S-001	
1/8	GS411S-002	
3/16	GS411S-003	



## Heavy / Light Duty Thimbles

**GS414S-004 - 012**  
**GS411S-001 - 003**



Type 304 Stainless Steel thimbles

Shackles T316 Stainless Steel Rated			
Nom. Size	WLL	WT.	Item
1/4"	0.5	0.3	GS209S-004
5/16"	0.75	0.4	GS209S-005
3/8"	1	0.6	GS209S-006
1/2"	2	1.4	GS209S-008
5/8"	3	2.3	GS209S-010
3/4"	4	3.6	GS209S-012



## Screw Pin Anchor Shackles

**GS209S-004 - 012**

Type 316 Stainless Steel, drop forged shackles with rated capacities

HD Clips T304 Stainless	
Size	Item
1/8"	GS450S-002
3/16"	GS450S-003
1/4"	GS450S-004
5/16"	GS450S-005
3/8"	GS450S-006
1/2"	GS450S-008
5/8"	GS450S-010



## Heavy Duty Wire Rope Clips

**GS450S-002 - 010**

Type 304 Stainless Steel clips with heavy hex nuts

Shoulder Nut Eye Bolt- T304		
Size	WLL	Item
1/4 x 2	500	GS277S-004X02
1/4 x 4	500	GS277S-004X04
5/16 x 2-1/4	798	GS277S-005X02
5/16 x 4-1/4	798	GS277S-005X04
3/8 x 2-1/2	1,196	GS277S-006X02
3/8 x 4-1/4	1,196	GS277S-006X04
1/2 3-1/4	2,195	GS277S-008X03
1/2 x 6	2,195	GS277S-008X06
5/8 x 4	3,493	GS277S-010X04
5/8 x 6	3,493	GS277S-010X06
3/4 x 4-1/2	5,189	GS277S-012X04
3/4 x 6	5,189	GS277S-012X06
7/8 x 5	7,185	GS277S-014X05
1 x 6	8,675	GS277S-100X06
1 x 9	8,675	GS277S-100X09

WARNING! These swivels are not load rated						
Swivel E&E-T304SS NON LOAD RATED		Swivel J&E-T304SS NON LOAD RATED			Swivel E&E-Flex T304SS NON LOAD RATED	
Size	Item	Size	Item	T08-\$	Size	Item
1/4"	GSSWEESS-004	1/4"	GSSWJESS-004	\$15.35	3/4"	GSSWEEFSS-012
5/16"	GSSWEESS-005	5/16"	GSSWJESS-005	\$23.89	1"	GSSWEEFSS-100
3/8"	GSSWEESS-006	3/8"	GSSWJESS-006	\$28.76		
1/2"	GSSWEESS-008	1/2"	GSSWJESS-008	\$55.07		
5/8"	GSSWEESS-010	5/8"	GSSWJESS-010	\$91.76		
3/4"	GSSWEESS-012	3/4"	GSSWJESS-012	\$213.52		



## Eye & Eye Flex Swivel

**GSSWEEFSS-004 - 012**



## Shoulder Nut Eye Bolt

**GS277S-004X02 - 100X09**

Type 304 Steel Eye Bolt

WARNING! These swivels are not load rated						
Swivel E&E-T304SS NON LOAD RATED		Swivel J&E-T304SS NON LOAD RATED			Swivel E&E-Flex T304SS NON LOAD RATED	
Size	Item	Size	Item	Size	Item	
1/4"	GSSWEESS-004	1/4"	GSSWJESS-004	3/4"	GSSWEEFSS-012	
5/16"	GSSWEESS-005	5/16"	GSSWJESS-005	1"	GSSWEEFSS-100	
3/8"	GSSWEESS-006	3/8"	GSSWJESS-006			
1/2"	GSSWEESS-008	1/2"	GSSWJESS-008			
5/8"	GSSWEESS-010	5/8"	GSSWJESS-010			
3/4"	GSSWEESS-012	3/4"	GSSWJESS-012			



## Jaw & Eye Swivel

**GSSWJESS-004 - 012**



## Eye & Eye Swivel

**GSSWEESS-004 - 012**



Turnbuckle Jaw & Jaw St/St		
Size	WLL	Item
1/4 X 4	460	GS228S-004
5/16 X 4-1/2	780	GS228S-005
3/8 X 6	1,160	GS228S-006
1/2 X 6	2,150	GS228S-008
5/8 X 6	3,500	GS228S-010
3/4 X 6	5,140	GS228S-012



### Jaw & Jaw Turnbuckles

**GS228S-004 - 012**

Snap Hooks- T304							
Size	mm	Inch	mm	Inch	Wt.	WLL	Item
5 x 50	50	2.00	5	3/16	0.02	200	GSSHS-05
6 x 60	60	2.36	6	1/4	0.06	240	GSSHS-06
7 x 70	70	2.75	7	9/32	0.10	360	GSSHS-07
8x 80	80	3.16	8	5/16	0.15	460	GSSHS-08
10 x 100	100	4.00	10	3/8	0.32	700	GSSHS-10
12 x 140	140	5.00	12	1/2	0.60	1,120	GSSHS-12



### Snap Hooks T304

**GSSSH-05 - 12**

Snap Hook ST/ST				
WLL	F	H	Wt.	Item
500	4-1/8"	3/4"	0.26	BM-S71
600	4-3/4"	1-1/8"	0.42	BM-S72



### Snap Hooks

**BM-S71 - S72**

Rapid Links-Quick Links- T304						
Size	A	C	D	Wt.	WLL	Item
1/8	0.246	0.394	1.594	0.01	330	GSQLS-002
3/16	0.246	0.453	1.900	0.03	520	GSQLS-003
1/4	0.315	0.512	2.311	0.07	750	GSQLS-004
5/16	0.413	0.650	2.953	0.13	1,525	GSQLS-005
3/8	0.433	0.669	3.224	0.22	1,800	GSQLS-006
1/2	0.512	0.807	4.150	0.78	3,300	GSQLS-008



### Rapid Links Quick Links T304

**GSRLS-002 - 008**

Eye Slip Hook, AISI Stainless Steel 316						
Chain Size	WLL	A	B	C	Wt.-Lbs	Item
1/4"	950	0.52	0.62	3.5	0.5	GSSEH-07
5/16"	1,250	0.64	0.7	4.05	0.55	GSSEH-08
3/8"	2,000	0.72	0.79	4.75	0.92	GSSEH-09
1/2"	3,000	0.93	1.06	6	1.9	GSSEH-13

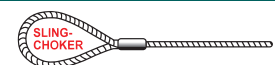


### Eye Slip Hooks AISI T316 SS

**GSSEH-07 - 13**

### Sling-Choker Manufacturing More Than You Think

Our thing is rigging - with experience to be proud of, but we're experts at more than you think. For 40 years, we've developed product lines that specifically serving niche industries - becoming a go-to distributor for many. From pumps to safety gear to warehouse outfitting, we can get what you need.



# CROSBY® CLIPS

## WARNINGS AND APPLICATION INSTRUCTIONS



**G-450**  
(Red-U-Bolt®)



**SS-450**  
(316 Stainless Steel)

**⚠ WARNING**

- Failure to read, understand, and follow these instructions may cause death or serious injury.
- Read and understand these instructions before using clips.
- Match the same size clip to the same size wire rope.
- Prepare wire rope end termination only as instructed.
- Do not use with plastic coated wire rope.
- Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next, check and retighten nuts to recommended torque (See Table 1, this page).

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

The number of clips shown (see Table 1) is based upon using RRL or RLL wire rope, 6 x 19 or 6 x 36 Class, FC or IWRC; IPS or XIP, XXIP. If Seale construction or similar large outer wire type construction in the 6 x 19 Class is to be used for sizes 1 inch and larger, add one additional clip. If a pulley (sheave) is used for turning back the wire rope, add one additional clip.

The number of clips shown also applies to rotation-resistant RRL wire rope, 8 x 19 Class, IPS, XIP, XXIP sizes 1-1/2 inch and smaller; and to rotation-resistant RRL wire rope, 19 x 7 Class, IPS, XIP, XXIP sizes 1-3/4 inch and smaller.

For other classes of wire rope not mentioned above, we recommend contacting Crosby Engineering to ensure the desired efficiency rating.

For elevator, personnel hoist, and scaffold applications, refer to ANSI A17.1 and ANSI A10.4. These standards do not recommend U-Bolt style wire rope clip terminations. The style wire rope termination used for any application is the obligation of the user.

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

1. Refer to Table 1 in following these instructions. Turn back specified amount of rope from thimble or loop.



Figure 1

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

2. When two clips are required, apply the second clip as near the loop or thimble as possible. Use torque wrench to tighten evenly, alternating until reaching the recommended torque.

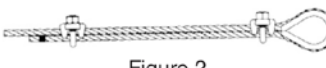


Figure 2

When more than two clips are required, apply the second clip

as near the loop or thimble as possible, turn nuts on second clip firmly, but do not tighten. Proceed to Step 3.

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



Figure 3

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

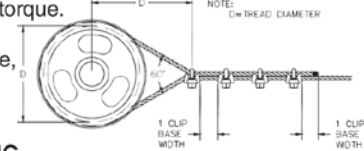


Figure 4

### 5. WIRE ROPE SPLICING PROCEDURES:

The preferred method of splicing two wire ropes together is to use inter-locking turnback eyes with thimbles, using the recommended number of clips on each eye (See Figure 5).

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



Figure 5

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

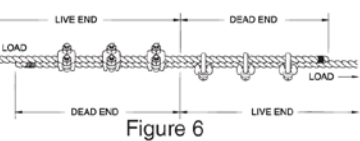


Figure 6

### 6. IMPORTANT

Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next, check and use torque wrench to retighten to recommended torque. In accordance with good rigging and maintenance practices, the wire rope end termination should be inspected periodically for wear, abuse, and general adequacy.

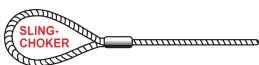
Clip Size (in.)	Rope Size (in.)	Minimum No. of Clips	Amount of Rope to Turn Back in Inches	* Torque in Ft.Lbs.
1/8	1/8	2	3-1/4	4.5
3/16	3/16	2	3-3/4	7.5
1/4	1/4	2	4-3/4	15
5/16	5/16	2	5-1/4	30
3/8	3/8	2	6-1/2	45
7/16	7/16	2	7	65
1/2	1/2	3	11-1/2	65
9/16	9/16	3	12	95
5/8	5/8	3	12	95
3/4	3/4	4	18	130
7/8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

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

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

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

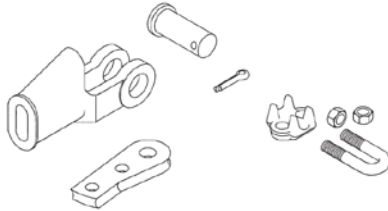
THIS SERIES OF WARNINGS AND INSTRUCTIONS  
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# WEDGE SOCKET

## WARNINGS AND APPLICATION INSTRUCTIONS

Extended Wedge Socket Assembly U.S. Patent No. 5,553,360 and Canada Patent No. 2,217,004

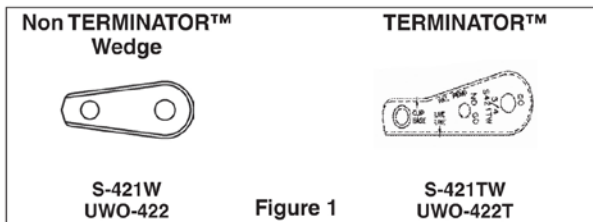


S-421T / US-422T  
"TERMINATOR"™

**NOTE:** The design of the basket for the S-421T 1-1/4" TERMINATOR™ Wedge Socket does not allow proper fit to the old style Crosby S-421W wedge (see Fig. 1). **Do not assemble or use.**

The design of the basket for each US-422T TERMINATOR™ Wedge Socket does not allow proper fit to the old style UWO-422 wedge (See Fig. 1). **Do not assemble or use.**

All S-421T and US-422T TERMINATOR™ baskets are marked with a capital "T" or TERMINATOR™.



**QUIC-CHECK®** "Go" and "No-Go" features cast into wedge. The proper size wire rope is determined when the following criteria are met:  
1. The wire rope shall pass thru the "Go" hole in the wedge.  
2. The wire rope shall NOT pass thru the "No-Go" hole in the wedge.



### Important Safety Information – Read and Follow Inspection/Maintenance Safety

- Always inspect socket, wedge and pin before using.
- Do not use part showing cracks.
- Do not use modified or substitute parts.
- Repair minor nicks or gouges to socket or pin by lightly grinding until surfaces are smooth. Do not reduce original dimension more than 10%. Do not repair by welding.
- Inspect permanent assemblies annually, or more often in severe operating conditions.
- Do not mix and match wedges or pins between models or sizes.
- Always select the proper wedge and socket for the wire rope size.

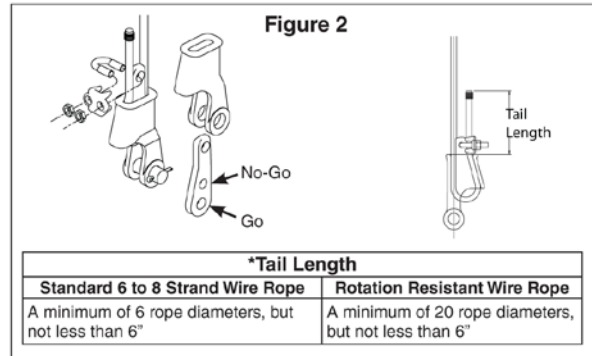
### Assembly Safety

- Use only with standard 6 to 8 strand wire rope of designated size. For intermediate size rope, use next larger size socket. For example: When using 9/16" diameter wire rope use a 5/8" size Wedge Socket Assembly. Welding of the tail on standard wire rope is not recommended. The tail length of the dead end should be a minimum of 6 rope diameters but not less than 6" (See Figure 2).
- **To use with Rotation Resistant** wire rope (special wire rope constructions with 8 or more outer strands) ensure that the dead end is welded, brazed or seized before inserting the wire rope into the wedge socket to prevent core slippage or loss of rope lay. The tail length of the dead end should be a minimum of 20 rope diameters but not less than 6" (See Figure 2).
- Properly match socket, wedge and clip (See Table 1) to wire rope size.

- Align live end of rope, with center line of pin. (See Figure 2)
- Secure dead end section of rope. (See Figure 2)
- Do not attach dead end to live end or install wedge backwards (See Fig. 3).
- **Use a hammer to seat Wedge and Rope as deep into socket as possible before applying first load.**

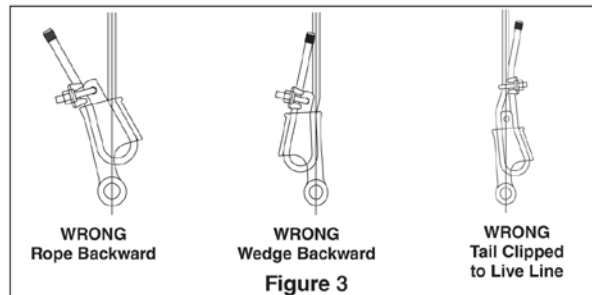
## WARNING

- **Loads may slip or fall if the Wedge Socket is not properly installed.**
- **A falling load can seriously injure or kill.**
- **Read and understand these instructions before installing the Wedge Socket.**
- **Do not side load the Wedge Socket.**
- **Apply first load to fully seat the Wedge and Wire Rope in the socket. This load should be of equal or greater weight than loads expected in use.**
- **Do not interchange wedges between S-421T and US422T or between sizes.**
- **Do not assemble an old style 1-1/4" S-421W wedge into an S-421T 1-1/4" TERMINATOR™ basket.**
- **Do not assemble an old style UWO-422 wedge into a US-422T TERMINATOR™ basket.**



Rope Size	3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4
Clip Size	3/8	1/2	5/8	3/4	7/8	1	1-1/8	1-1/4
* Torque Ft./lbs.	45	65	95	130	225	225	225	360

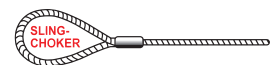
\* The tightening torque values shown are based upon the threads being clean, dry, and free of lubrication.



### Operating Safety

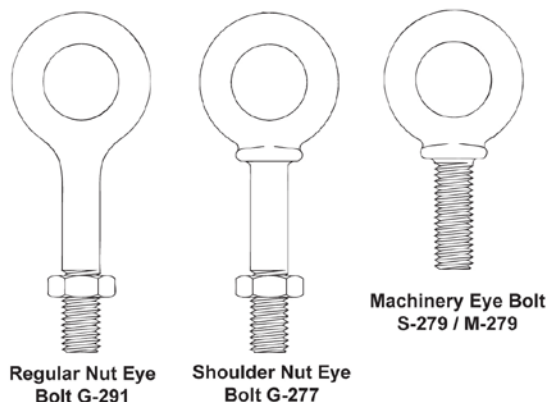
- Apply first load to fully seat the Wedge and Wire Rope in the socket. This load should be of equal or greater weight than loads expected in use.
- Efficiency rating of the Wedge Socket termination is based upon the catalog breaking strength of Wire Rope. The efficiency of a properly assembled Wedge Socket is 80%.
- During use, do not strike the dead end section with any other elements of the rigging (Called two blocking).

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## FORGED EYE BOLT WARNINGS AND APPLICATION INSTRUCTIONS



### Important Safety Information - Read & Follow

#### Inspection/Maintenance Safety:

- Always inspect eye bolt before use.
- Never use eye bolt that shows signs of wear or damage.
- Never use eye bolt if eye or shank is bent or elongated.
- Always be sure threads on shank and receiving holes are clean.
- Never machine, grind, or cut eye bolt.

#### Assembly Safety:

- Never exceed load limits specified in Table 1 & Table 2.
- Never use regular nut eye bolts for angular lifts.
- Always use shoulder nut eye bolts (or machinery eye bolts) for angular lifts.
- For angular lifts, adjust working load as follows:

Direction of Pull (from In-Line)	Adjusted Working Load
45 degrees	30% of rated working load
90 degrees	25% of rated working load

- Never undercut eye bolt to seat shoulder against the load.
- Always countersink receiving hole or use washers with sufficient I.D. to seat shoulder.
- Always screw eye bolt down completely for proper seating.
- Always tighten nuts securely against the load.

Size (in.)	Working Load Limit (lbs.)
1/4	650
5/16	1,200
3/8	1,550
1/2	2,600
5/8	5,200
3/4	7,200
7/8	10,600
1	13,300
1-1/8	15,000
1-1/4	21,000
1-1/2	24,000
1-3/4	34,000
2	42,000
2-1/2	65,000

**WARNING**

- Load may slip or fall if proper eye bolt assembly and lifting procedures are not used.
- A falling load can seriously injure or kill.
- Read and understand both sides of these instructions, and follow all eye bolt safety information presented here.
- Read, understand, and follow information in diagrams and charts below before using eye bolt assemblies.

### Shoulder Nut Eye Bolt – Installation for Angular Loading

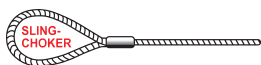
**IN-LINE**

- The threaded shank must protrude through the load sufficiently to allow full engagement of the nut.
- If the eye bolt protrudes so far through the load that the nut cannot be tightened securely against the load, use properly sized washers to take up the excess space BETWEEN THE NUT AND THE LOAD.
- Thickness of spacers must exceed this distance between the bottom of the load and the last thread of the eye bolt.
- Place washers or spacers between nut and load so that when the nut is tightened securely, the shoulder is secured flush against the load surface.

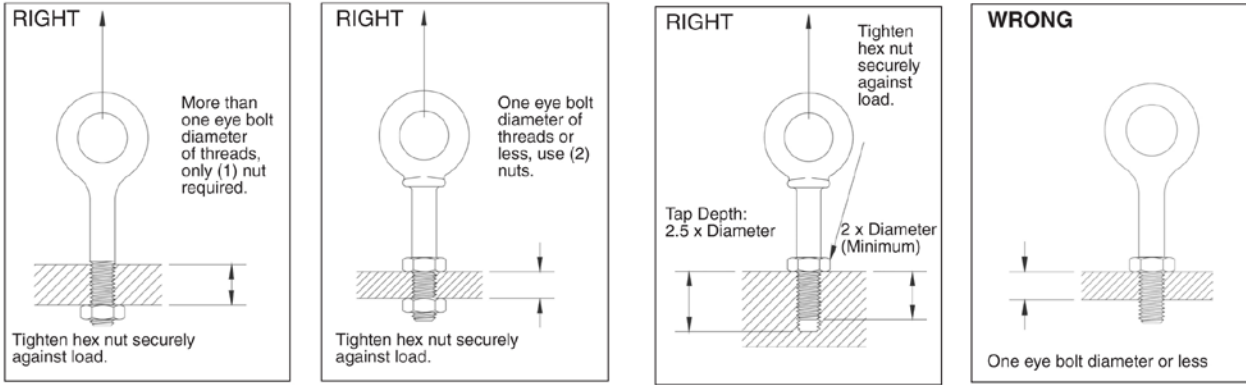
**Figure 1**

Metric Size	Working Load Limit - kg
m6	200
m8	400
m10	640
m12	1000
m16	1800
m20	2500
m24	4000
m27	5000
m30	6000
m36	8500
m42	14000
m48	17300
m64	29500

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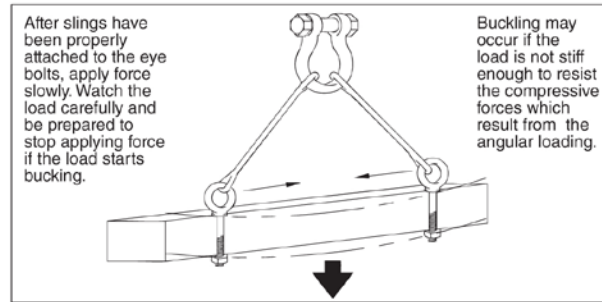
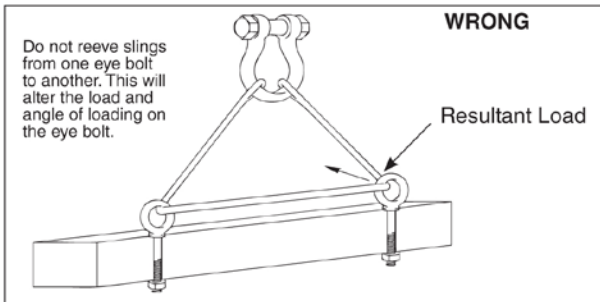


**Important – Read and understand these instructions before using eye bolts.  
Regular Nut & Shoulder Nut Eye Bolt – Installation for In-Line Loading**



**Operating Safety**

- Always stand clear of load.
- Always lift load with steady, even pull – do not jerk.
- Always apply load to eye bolt in the plane of the eye – not at an angle.
- Never exceed the capacity of the eye bolt—see Table 1 & 2.
- When using lifting slings of two or more legs, make sure the loads in the legs are calculated using the angle from the vertical sling angle to the leg and properly size the shoulder nut or machinery eye bolt for the angular load.



**Machinery Eye Bolt - Installation for In – Line & Angular Loading**

These eye bolts are primarily intended to be installed into tapped holes.

1. After the loads on the eye bolts have been calculated, select the proper size eye bolt for the job.

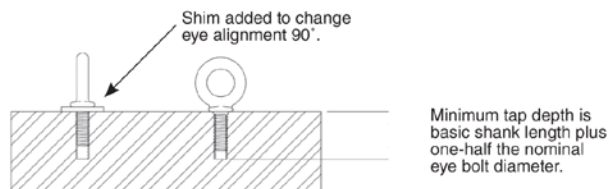
For angular lifts, adjust working load as follows:

Direction of Pull (from In-Line)	Adjusted Working Load
45 degrees	30% of rated working load
90 degrees	25% of rated working load

2. Drill and tap the load to the correct sizes to a minimum depth of one-half the eye bolt size beyond the shank length of the machinery eye bolt.
3. Thread the eye bolt into the load until the shoulder is flush and securely tightened against the load.
4. If the plane of the machinery eye bolt is not aligned with the sling line, estimate the amount of unthreading rotation necessary to align the plane of the eye properly. Remove the machinery eye bolt from the load and add shims (washers) of proper thickness to adjust the angle of the plane of the eye to match the sling line. Use Table 3 to estimate the required shim thickness for the amount of unthreading rotation required.

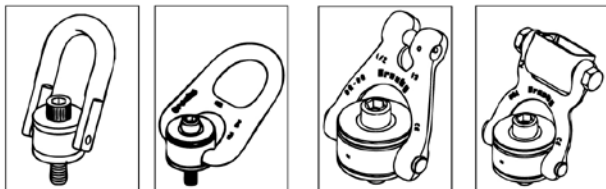
**Table 3**

Eye Bolt Size (in.)	Shim Thickness Required to Change Rotation 90° (in.)	Eye Bolt Size (mm)	Shim Thickness Required to change Rotation 90° (mm)
1/4	.0125	M6	.25
5/16	.0139	M8	.31
3/8	.0156	M10	.38
1/2	.0192	M12	.44
5/8	.0227	M16	.50
3/4	.0250	M20	.62
7/8	.0278	M24	.75
1	.0312	M27	.75
1-1/8	.0357	M30	.88
1-1/4	.0357	M36	1.00
1-1/2	.0417	M42	1.13
1-3/4	.0500	M48	1.25
2	.0556	M64	1.50
2-1/2	.0625	—	—



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## CROSBY SWIVEL HOIST RING WARNINGS AND APPLICATION INSTRUCTIONS



**HR-125/SS-125**  
 (Red Washer)  
**HR-125M**  
**SS-125M**  
 (Silver Washer)

**HR-1000**  
 (Red Washer)  
**HR-1000M**  
 (Silver Washer)  
**HR-1000CT**  
 (Blue Washer)

**HR-125C**

**HR-125W**

### Hoist Ring Application Assembly Safety

- Use swivel hoist ring only with a ferrous metal (steel, iron) or soft metal (i.e., aluminum) loads (work piece). Do not leave threaded end of hoist ring in aluminum loads for long time periods due to corrosion.
- After determining the loads on each hoist ring, select the proper size hoist ring using the Working Load Limit ratings in Table 1, 2, 3, 5 and 6 for UNC threads and Table 4 and 7 for Metric threads.
- Drill and tap the work piece to the correct size to a minimum depth of one-half the threaded shank diameter plus the threaded shank length. See rated load limit and bolt torque requirements imprinted on top of the swivel trunnion (See Table 1 through Table 7).
- Install hoist ring to recommended torque with a torque wrench making sure the bushing flange meets the load (work piece) surface.
- Never use spacers between bushing flange and mounting surface.
- Always select proper load rated lifting device for use with Swivel Hoist Ring.
- Attach lifting device ensuring free fit to hoist ring bail (lifting ring) (Fig. 1).
- Apply partial load and check proper rotation and alignment. There should be no interference between load (work piece) and hoist ring bail (Fig. 2).
- Special Note: When a Hoist Ring is installed with a retention nut, the nut must have a full thread engagement and must meet one of the following standards to develop the Working Load Limit (WLL).

#### 1. ASTM A-563

- A. Grade D Hex Thick
- B. Grade DH Standard Hex

#### 2. SAE Grade 8 — Standard Hex

### Hoist Ring Inspection / Maintenance

- Always inspect hoist ring before use.
- Regularly inspect hoist ring parts (Fig.3).
- Never use hoist ring that shows signs of corrosion, wear or damage.
- Never use hoist ring if bail is bent or elongated.
- Always be sure threads on shank and receiving hole are clean, not damaged, and fit properly.
- Always check with torque wrench before using an already installed hoist ring.
- Always make sure there are no spacers (washers) used between bushing flange and the mounting surface. Remove any spacers (washers) and retorque before use.

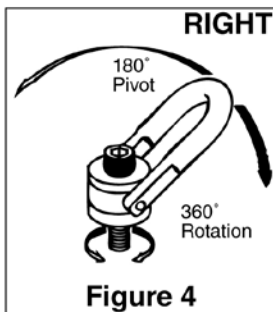
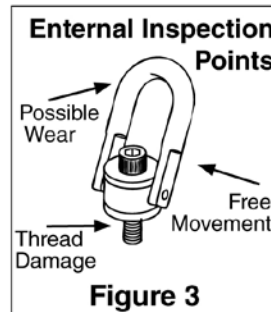
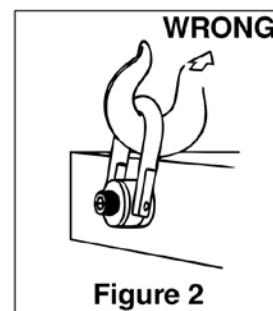
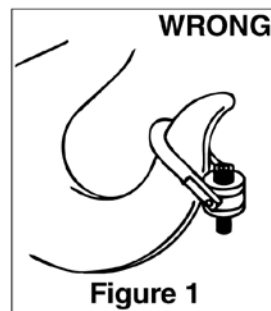
- Always ensure free movement of bail. The bail should pivot 180 degrees and swivel 360 degrees (Fig. 4).
- Always be sure total work piece surface is in contact with hoist ring bushing mating surface. Drilled and tapped hole must be 90 degrees to load (work piece) surface.

### ⚠ WARNING

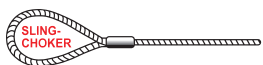
- Loads may slip or fall if proper Hoist Ring assembly and lifting procedures are not used.
- A falling load may cause serious injury or death.
- Install hoist ring bolt to torque requirements listed in tables 1, 2, 3, 4, 5, 6 & 7 for the HR-125, HR-1000, HR125C, HR-1000CT, HR-125M, HR-1000M and HR125W, SS-125 and SS-125M respectively.
- Web sling HR-125W spool bolt must be securely tightened in place. The jam nut must then be securely tightened onto the connecting bolt, see Table 5, last column.
- Read, understand and follow all instructions and chart information.
- Do not use with damaged slings, chain, or webbing. For inspection criteria see ASME B30.9.
- Use only genuine Crosby parts as replacements.
- HR-125C chain connecting pin must be properly secured with the locking pin into the clevis ear.
- Before use tighten bolt first, then thighten nut (HR-125W).

### Operating Safety

- Never exceed the capacity of the swivel hoist ring, see Tables 1, 2, 3, 5 and 6 for UNC threads and Tables 4 and 7 for Metric threads. (See next page for tables.)
- When using lifting slings of two or more legs, make sure the forces in the legs are calculated using the angle from the horizontal sling angle to the leg and select the proper size swivel hoist ring to allow for the angular forces.



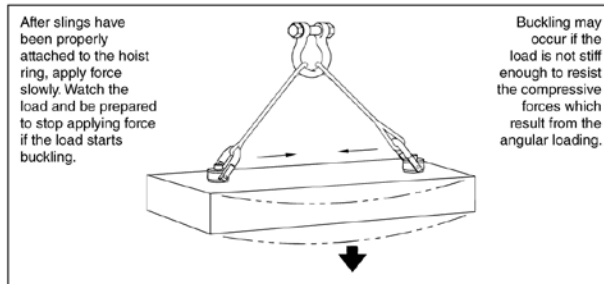
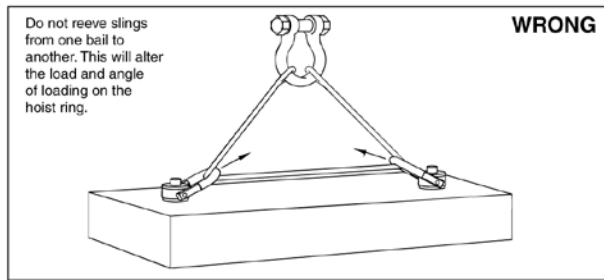
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Working Load Limit* 5:1 (lbs.)	Hoist Ring Bolt Torque Ft. †	HR-125		HR-1000	
		Bolt Size ‡ (in.)	Effective Thread Projection Length (in.)	Bolt Size ‡ (in.)	Effective Thread Projection Length (in.)
800 ††	7	5/16 - 18 x 1.50	.58	5/16 - 18 x 1.50	.52
1000 ††	12	3/8 - 16 x 1.50	.58	3/8 - 16 x 1.50	.52
2500	28	1/2 - 13 x 2.00	.70	1/2 - 13 x 2.25	.69
2500 ††	28	1/2 - 13 x 2.50	1.20	1/2 - 13 x 2.75	1.19
4000	60	5/8 - 11 x 2.00	.70	5/8 - 11 x 2.25	.69
4000 ††	60	5/8 - 11 x 2.75	1.45	5/8 - 11 x 3.00	1.44
5000	100	3/4 - 10 x 2.25	.95	3/4 - 10 x 2.50	.94
5000 ††	100	3/4 - 10 x 2.75	1.45	3/4 - 10 x 3.00	1.44
7000 **	100	3/4 - 10 x 2.75	.89	3/4 - 10 x 3.00	.85
7000 ††**	100	3/4 - 10 x 3.50	1.64	3/4 - 10 x 3.50	1.35
8000	160	7/8 - 9 x 2.75	.89	7/8 - 9 x 3.00	.85
8000 ††	160	7/8 - 9 x 3.50	1.64	7/8 - 9 x 3.50	1.35
10000	230	1 - 8 x 3.00	1.14	1 - 8 x 3.50	1.35
10000 ††	230	1 - 8 x 4.00	2.14	1 - 8 x 4.50	2.35
15000	470	1-1/4 - 7 x 4.50	2.21	1-1/4 - 7 x 5.00	2.09
24000	800	1-1/2 - 6 x 6.75	2.97	1-1/2 - 6 x 5.50	2.59
30000	1100	2 - 4-1/2 x 6.75	2.97	—	—
50000	2100	2-1/2 - 4 x 8.00	4.00	—	—
75000	4300	3 - 4 x 10.50	5.00	—	—
100000	5100	3-1/2 - 4 x 13.00	7.00	—	—

\*\* Ultimate Load is 4.5 times Working Load Limit for 7000# Hoist Ring when Tested in 90° orientation. All sizes are individually proof tested to 2-1/2 times the Working Load Limit.

†, ††, ††† (See footnote at bottom of Table 4).



Working Load Limit 4:1 (lbs.) **	Hoist Ring Bolt Torque in Ft. lbs. †	Bolt Size (in.) ‡	Effective Thread Projection Length (in.)	Spectrum 8 Chain Size (in. - mm)
4500	60	5/8 - 11 x 2.00	.71	1/4 - 5/16 - 7 - 8
4500 ††	60	5/8 - 11 x 2.75	1.46	1/4 - 5/16 - 7 - 8
7100	100	3/4 - 10 x 2.75	.90	3/8 - 10
7100 ††	100	3/4 - 10 x 3.50	1.65	3/8 - 10
12000	230	1 - 8 x 3.00	1.15	1/2 - 13
12000 ††	230	1 - 8 x 4.00	2.15	1/2 - 13
18100	470	1-1/4 - 7 x 4.50	2.22	5/8 - 16

Working Load Limit 5:1 (lbs.) *	Hoist Ring Bolt Torque in Ft. lbs. †	Bolt Size (in.) ‡	Effective Thread Projection Length (in.)
2200 ††	28	1/2 - 13 x 2.25	.69
3600 ††	60	5/8 - 11 x 2.25	.69
5400 ††	100	3/4 - 10 x 3.00	.85
7200 ††	160	7/8 - 9 x 3.00	.85
10000 ††	230	1 - 8 x 3.50	1.35
13500 ††	470	1 1/4 - 7 x 5.00	2.09
21500 ††	800	1 1/2 - 6 x 5.50	2.59
28000 ††	1100	2 - 4.5 x 7.50	3.21

Working Load Limit (kg)**		Hoist Ring Bolt Torque in Nm †	HR-125M		HR-1000M	
Design Factor 5:1	HR-125M Design Factor 4:1		Bolt Size ‡ (mm)	HR-125M Effective Thread Projection Length (mm)	Bolt Size ‡ (mm)	HR-1000M Effective Thread Projection Length (mm)
400	500	10	M 8 X 1.25 X 40	16.9	M 8 X 1.25 X 40	15.2
450	550	16	M 10 X 1.50 X 40	16.9	M 10 X 1.50 X 40	15.2
1050	1300	38	M 12 X 1.75 X 50	17.2	M 12 X 1.75 X 55	15.2
1900	2400	81	M 16 X 2.00 X 60	27.2	M 16 X 2.00 X 65	25.5
2150	2700	136	M 20 X 2.50 X 65	31.2	M 20 X 2.50 X 70	30.5
3000	3750	136	M 20 X 2.50 X 75	28.1	M 20 X 2.50 X 80	25.4
4200	5250	312	M 24 X 3.00 X 80	33.1	M 24 X 3.00 X 90	35.4
7000	8750	637	M 30 X 3.50 X 120	65.1	M 30 X 3.50 X 140	66.2
11000	13750	1005	M 36 X 4.00 X 150	60.6	M 36 X 4.00 X 150	56.2
12500	15600	1005	M 42 X 4.50 X 160	70.6	—	—
13500	16900	1350	M 48 X 5.00 X 160	101	—	—
22300	27900	2847	M 64 X 6.00 x 204	101	—	—
31500	39400	5830	M 72 x 6.00 x 265	132	—	—
44600	55800	6914	M 90 x 6.00 x 330	177	—	—

\* Ultimate load is 5 times the Working Load Limit. Individually proof tested to 2-1/2 times the Working Load Limit.  
 \*\* Ultimate load is 4 times the Working Load Limit. Individually proof tested to 2-1/2 times the Working Load Limit.  
 \*\*\* Individually proof tested to 2-1/2 times the Working Load Limit based on 4:1 design factor.  
 † Tightening torque values shown are based upon threads being clean, dry and free of lubrication.  
 †† Long bolts are designed to be used with soft metal (i.e., aluminum) work piece. While the long bolts may also be used with ferrous metal (i.e., steel & iron) work pieces, short bolts are designed for ferrous work pieces only.  
 ‡ Bolt specification is a Grade 8 Alloy socket head cap screw to ASTM A574. All threads are UNC.  
 ‡‡ Bolt specification is a Grade 12.9 Alloy socket head cap screw to DIN 912. All threads are metric (ASME/ANSI B18.3.1m)  
 ‡‡‡ Bolt specification is a Grade L7 or L43 Alloy socket head cap screw. All threads are UNC.  
 ‡‡‡ Tighten bolt to specified torque, then tighten nut to specified torque  
 All Swivel Hoist Rings are individually proof tested.

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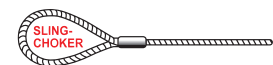


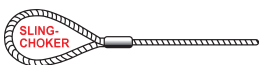
Table 5								
HR-125W Swivel Hoist Ring to Webbing								
HR-125W Web Sling				HR-125W Working Load Limit 5:1 (tons) *	Hoist Ring Bolt Torque in Ft. lbs. †	Bolt Size (in.) ‡	Effective Thread Projection Length (in.)	Torque in Ft. - lbs. Spool bolt and nut †††
Round Sling Size (in.)	Web Width (in.)	Eye Width (in.)	Ply. (in.)					
1 & 2	2	2	2	3-1/4	100	3/4 - 10 x 2.75	.90	90
1 & 2	2	2	2	3-1/4	100	3/4 - 10 x 3.50	1.65	90
3	3	1.5	2	4-1/2	230	1 - 8 x 3.00	1.15	110
3	3	1.5	2	4-1/2	230	1 - 8 x 4.00	2.15	110
4	4	2	2	6-1/4	470	1-1/4 - 7 x 4.50	2.22	130

Table 6			
SS-125 ¥¥			
Working Load Limit (lbs.) ¥	Torque in Ft. Lbs. †	Bolt Size (in.) §	Effective Thread Projection (in.)
400	3.5	5/16 - 18 x 1	.29
400	3.5	5/16 - 18 x 1.25	.54
500	6	3/8 - 16 x 1.25	.54
1250	14	1/2 - 13 x 2	.78
1250	14	1/2 - 13 x 2.25	1.03
1250	14	1/2 - 13 x 2.5	1.28
2000	30	5/8 - 11 x 2	.78
2000	30	5/8 - 11 x 2.25	1.03
2000	30	5/8 - 11 x 2.5	1.28
2500	50	3/4 - 10 x 2.25	1.03
2500	50	3/4 - 10 x 2.75	1.53
3500	50	3/4 - 10 x 2.75	1.04
3500	50	3/4 - 10 x 3.25	1.54
4000	80	7/8 - 9 x 2.75	1.04
4000	80	7/8 - 9 x 3	1.29
5000	115	1 - 8 x 3	1.29
5000	115	1 - 8 x 3.25	1.54
5000	115	1 - 8 x 4	2.29
7500	235	1-1/4 - 7 x 4	1.89
12000	400	1-1/2 - 6 x 5.5	2.70
15000	400	2 - 4-1/2 x 5.75	2.96
25000	1050	2-1/2 - 4 x 8	4.00
25000	1050	2-1/2 - 8 x 8	4.00
37500	2150	3 - 4 x 10.25	5.00
50000	2550	3-1/2 - 4 x 13	7.00

Table 7			
SS-125M ¥¥			
SS-125M ¥¥ Working Load Limit (Kg) ¥	Torque in Nm. †	Bolt Size (mm) §§	Effective Thread Projection (mm)
200	4	M 8 x 1.25x30	13
250	8	M 10 x 1.50x35	18
525	18	M 12 x 1.75x50	19
950	40	M 16 x 2.00x60	29
1075	68	M 20 x 2.50x65	34
1500	68	M 20 x 2.50x75	32
2100	108	M 24 x 3.00x80	37
2100	108	M 30 x 3.50x110	58
3500	318	M 30 x 3.50x95	42
3500	318	M 30 x 3.50x115	62
5500	542	M 36 x 4.00x135	64
6250	542	M 42 x 4.50x155	82
6750	542	M 48 x 5.00x155	82
11150	1423	M 64 x 6.00x205	101
15750	2915	M 72 x 6.00x265	132
22300	3459	M 90 x 6.00x330	177

¥ Ultimate load is 5 times the Working Load Limit. Individually proof tested to 2 times the Working Load Limit.  
 ¥¥ All components are 316 Stainless Steel, except Bolt Retainers, which are made from 15-7 PH (UNS 15700) magnetic stainless steel.  
 § Bolt specification is 316 Stainless Steel socket head cap screw to ASTM F837 Group 1 (316).  
 §§ Bolt specification is 316 Stainless Steel socket head cap screw to ASTM F837M (316). All threads are Metric (ASME/ANSI B18.3.1M).

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# Rigging Hardware - ASME B30.26

## SECTION 26-1.8: INSPECTION, REPAIR, AND REMOVAL



### Initial Inspection (26-1.8.1)

Prior to use, all new, altered, modified, or repaired shackles shall be inspected by a designated person to verify compliance with the applicable provisions of this Chapter. Written records are not required.

### Frequent Inspection (26-1.8.2)

- (a) A visual inspection shall be performed by the user or other designated person each day before the shackle is used. Rigging hardware in semi-permanent and inaccessible locations where frequent inspections are not feasible shall have periodic inspections performed.
- (b) Conditions such as those listed in para. 26-1.8.4 or any other condition that may result in a hazard shall cause the shackle to be removed from service. Shackles shall not be returned to service until approved by a qualified person.
- (c) Written records are not required.

### Periodic Inspection (26-1.8.3)

- (a) A complete inspection of the shackle shall be performed by a designated person. The shackle shall be examined for conditions such as those listed in Section 26-1.8.4 and a determination made as to whether they constitute a hazard.
- (b) Periodic Inspection Frequency
  - (1) Periodic inspection intervals shall not exceed 1 yr. The frequency of periodic inspections should be based on
    - (a) frequency of shackle use
    - (b) severity of service conditions
    - (c) nature of lifting or load-handling activities
    - (d) experience gained on the service life of shackles used in similar circumstances
  - (2) Guidelines for the time intervals are
    - (a) normal service — yearly
    - (b) severe service — monthly to quarterly
    - (c) special service — as recommended by a qualified person
- (c) Written records are not required.

### Removal Criteria (26-1.8.4)

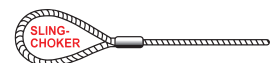
- Shackles shall be removed from service if damage such as the following is visible and shall only be returned to service when approved by a qualified person:
- (a) missing or illegible manufacturer's name or trademark and/or rated load identification
  - (b) indications of heat damage, including weld spatter or arc strikes
  - (c) excessive pitting or corrosion
  - (d) bent, twisted, distorted, stretched, elongated, cracked, or broken load-bearing components
  - (e) excessive nicks or gouges
  - (f) a 10% reduction of the original or catalog dimension at any point around the body or pin
  - (g) incomplete pin engagement
  - (h) excessive thread damage
  - (i) evidence of unauthorized welding
  - (j) other conditions, including visible damage, that cause doubt as to the continued use of the shackle

### Repairs and Modifications (26-1.8.5)

- (a) Repairs, alterations, or modifications shall be as specified by the shackle manufacturer or a qualified person.
- (b) Replacement parts, such as pins, shall meet or exceed the original equipment manufacturer's specifications.

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# Safe-T-RIG

Safe-T-RIG, a Sling-Choker brand, is our product line dedicated to continued safety in general lifting applications. Containing spreader beams, lifters, hoists, lever tools, cranes, jibs, trolleys, beam clamps, and so much more. These products, perfect for your clamping, lifting, and handling needs, ensure have what you need to rig the right way.

## LB HEAVY DUTY LEVER HOIST

### L5LB008 - L5LB090

The L5LB forged an entirely new, industry-leading benchmark by being smaller, lighter, and stronger than any other lever hoist on the market. Its proven strength and durability stand up in an endless array of gruelling applications, including environments where temperatures drop to a bone-chilling -40 °C. ASME B30.21 Safety Standard.

- Rugged, high-impact stamped steel housing
- Compact and lightweight
- Open design for easy inspection and cleaning without dismantling the unit



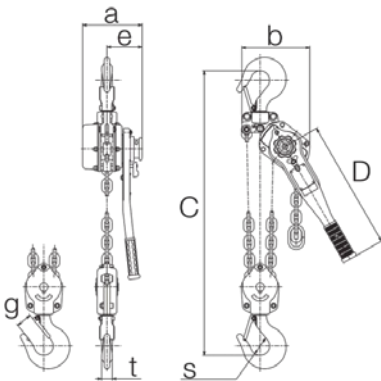
LB/LB-SC HEAVY DUTY LEVER HOISTS							
Capacity (tonne)	Model	Standard Lift (ft)	Hand Pull to Lift Full Load (kg)	Headroom (in)	Handle Length (in)	Load Chain Falls	Ship Weight (lbs)
3/4	L5LB008	5	27	11	9.75	1	13
1 1/2	L5LB015	5	32	13.25	10.5	1	18
2 1/2	L5LB025	5	37	14.75	10.5	1	25
3	L5LB030	5	35	15.5	16.5	1	33
6	L5LB060	5	36	21.25	16.5	2	57
9	L5LB090	5	39	26.75	16.5	3	88

## LB-SC HEAVY DUTY LEVER HOIST WITH OVERLOAD PROTECTION

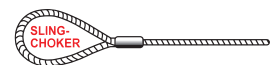
### L5LB008 - L5LB090

With all the benefits of the standard Kito LB and also equipped with an integrated slip clutch, the LB-SC is guaranteed to help prevent injuries or damages on the job site. The slip clutch engagement is smooth and seamless with no erratic motion to make sure the load remains steady while lifting. Your people are safer and your hoist lasts longer with less down time for maintenance. That's why the LB-SC is increasingly becoming the trusted choice for heavy industry. ASME B30.21 Safety Standard.

- Slip Clutch: Engages during an excessive overload keeping the load stationary



Capacity (tonne)	Model	C	D	a	b	e	g	s	t
3/4	L5LB008	280	245	144	119	97	23.5	35.5	14
1 1/2	L5LB015	335	265	159	126	100	32	42.5	19
2 1/2	L5LB025	375	265	173	150	102	36.5	47	21
3	L5LB030	395	415	190	159	112	39	50	24.5
6	L5LB060	540	415	190	217	112	50	60	34
9	L5LB090	680	415	190	304	112	72.5	85	41.5







## SER HEAVY DUTY ELECTRIC CHAIN HOIST

### SER003S - SER030C

Need a single phase powered hoist with the duty cycle of a three-phase hoist? Look no further than the SER. Designed to exceed H4 industrial use ratings, the SER is equipped with a TEFC motor and a maintenance-free, self-adjusting, pull-rotor brake. That means you'll get a single phase hoist that's able to handle the long lifts and long shifts of any industrial job. Meets ASME B30.16 and ASME 4.

- Die-cast aluminum frame and completely sealed body
- Induction-hardened, durable alloy steel helical and spur gears submersed in an oil bath

Capacity (tonne)	Model	Headroom (in)	Standard Lift (ft)	Speed (ft/min)		Output (HP)	Motor Current Draw (amps)		Load Chain Falls	Ship Weight (lbs)
				Hoist Lifting	Trolley Traversing		115V	230V		
1/2	SER005L	14	10	7	.	0.34	7.7	3.9	1	84
1/2	SER005S	14.5	10	15	.	0.6	16.9	8.5	1	104
1	SER010L	16	10	7	.	0.6	16.9	8.5	1	110
1	SER010S	17	10	14	.	1.2	23.9	12	1	159
2	SER020L	22.5	10	7	.	1.2	23.9	12	1	174
3	SER030C	29.5	10	3.5	.	1.2	23.9	12	2	207

## M3CB HEAVY DUTY HAND CHAIN HOIST

### M3CB005 - M3CB200

The CB proves its unmatched pulling power in the most extreme conditions. Exceptional, heavy-grade components make this a long lasting workhorse that tackles severe -40° C temperatures and truly hostile Northern winters. ASME B30.16 Safety Standard.

- Heavy-duty, high-impact steel construction (similar weight to aluminum)
- Double pawl springs for extremely reliable operation and instant brake activation

Capacity (tonne)	Model	Standard Lift (ft)	Hand Pull to Lift Full Load (kg)	Chain Pulled to Lift One Meter (m)	Hook Mount Only	Headroom (in)				Load Chain Falls
						Plain Trolley		Geared Trolley		
						Hook	Lug	Hook	Lug	
1/2	M3CB005	8	24	25	11.25	14.5	11.6	15	12	1
1	M3CB010	8	29	43	11.6	15	12	15	12	1
1 1/2	M3CB015	8	35	57	13.75	18.5	14	18.5	14	1
2	M3CB020	10	36	70	14.75	19	15	19	15	1
2 1/2	M3CB025	10	33	99	16.5	22	17	22	17	1
3	M3CB030	10	36	114	20	26	21	26	21	2
5	M3CB050	10	34	198	23.6	31	26	31	26	2
7 1/2	M3CB075	12	35	297	30.5	34.3	----	34.3	----	3
10	M3CB100	12	36	396	30	33.9	----	33.9	----	4
15	M3CB150	12	37	594	40.25	----	----	45.3	----	6
20	M3CB200	12	36 x 2	396 x 2	46.5	----	----	51.6	----	8

CM Cyclone Chain Hoist							
Cap Tons	Std. Lift	Reeving	Min. Dist. Between Hooks (In)	Ft. Hand Chain/Ft Lift	Chain Pull @ Cap. (Lbs.)	Wt.	Item
1/4	10	1	12 7/8	22 1/2	23	37	4621
1/2	10	1	12 7/8	22 1/2	46	37	4622
1	10	1	14	30	69	40	4624
1 1/2	10	1	17 5/16	40 1/2	80	65	4625
2	10	1	17 5/16	52	83	64	4626
3	10	2	21 1/2	81	85	96	4627
4	10	2	21 1/2	104	88	96	4628
5	10	3	24 1/4	156	75	128	4629
6	10	3	24 1/4	156	90	132	4630
8	10	4	34 1/2	208	89	235	4631
10	10	5	35 1/2	260	95	249	4632



## CM Cyclone Hand Chain Hoist

### CM4621 - CM4632

One of the most popular and reliable hoists ever designed, the Cyclone combines superior engineering, efficiency, and durability. Available in a variety of capacities from 1/4 ton to 10 tons, Cyclone features:

- Most interchangeability of parts in the industry
- Standard load limiter for simple, automatic over-load protection
- Enclosed contoured Weston-type automatic brake for positive load control
- High-efficiency spur gearing for greater lift with minimum effort
- Rugged hoist alloy chain for added strength and durability
- Fully machined, forged lift wheel pockets for easier lifting and smooth free chaining
- High-strength aluminum alloy castings in frame and covers
- Inspected over 75 times to meet or exceed HMI and ASME/ANSI performance and safety standards
- Standard hand chain drop is 2 feet less than lift, (example: 8 foot lift hoist has 6 foot hand chain drop)

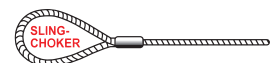
#### Options:

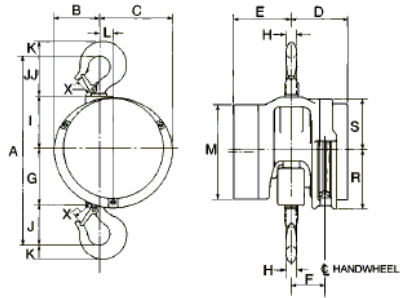
- Chain containers
- Zinc-plated load and hand chain
- Aluminum unwelded hand chain
- Latchlok hooks
- Bronze hooks
- Eye-type suspension
- Bullard hooks and units without Load Limiter optional, depending on capacity



## Sling-Choker Manufacturing More Than You Think

Our thing is rigging - with experience to be proud of, but we're experts at more than you think. For 40 years, we've developed product lines that specifically serving niche industries - becoming a go-to distributor for many. From pumps to safety gear to warehouse outfitting, we can get what you need.

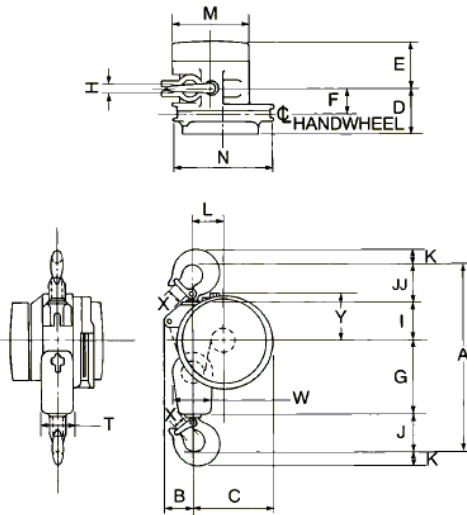




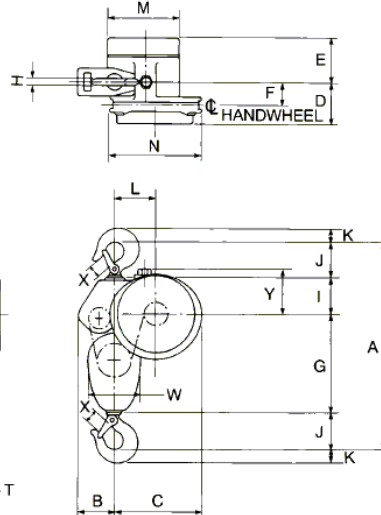
1/4 - 2 ton

## ENSURE COMPLIANCE & MAKE PROJECT MANAGEMENT EASIER

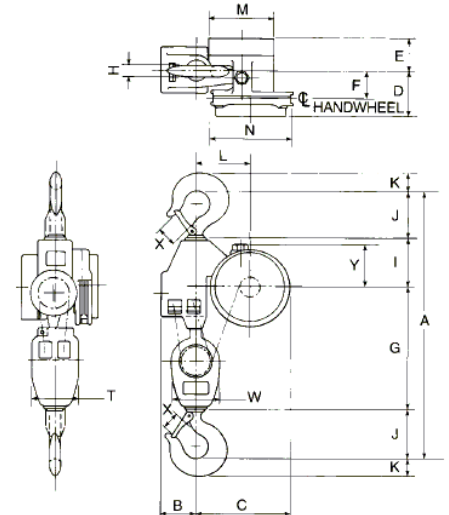
WITH OUR RFID TRACKING AND INSPECTION SYSTEM, **PROTRAK**, ENSURING COMPLIANCE TAKES LESS TIME AND SAVES YOU MONEY.



3 - 4 ton

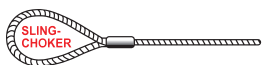


5 - 6 ton



8 - 10 ton

Specs	Cyclone Clearance Dim. (In), Rated Capacity * (tons)								
	1/4	1/2	1	1-1/2 & 2	3 & 4	5	6	8	10
A	12 7/8	12 7/8	14	17 5/16	21 1/2	24 1/4	25 1/4	34 1/2	35 1/2
B	3 11/16	3 11/16	3 11/16	4 7/16	3 5/16	4 7/16	4 7/16	4 3/4	4 3/4
C	7 3/16	7 7/16	7 7/16	6 11/16	8 15/16	10 5/16	10 5/16	12 3/4	12 3/4
D	4 1/8	4 1/8	4 1/8	5 1/16	5 1/16	4 7/8	4 7/8	5 13/16	5 13/16
E	3 1/4	3 1/4	3 1/4	4 13/16	4 13/16	5	5	4 1/16	4 1/16
F	2 1/8	2 1/16	2 1/16	3 1/8	3	2 15/16	2 15/16	3 3/4	3 3/4
G	3 7/8	3 7/8	3 3/4	5 7/16	8 1/4	11 13/16	11 13/16	17 7/16	17 7/16
H	1 1/16	1 1/16	1 7/16	1 1/8	1 1/4	1 1/4	1 3/8	1 11/16	1 13/16
I	3 3/4	3 3/4	3 3/4	4 13/16	4 1/4	4 7/16	4 7/16	6 1/16	6 1/16
J	2 5/8	2 5/8	2 15/16	3 5/8	4 1/8	4 1/8	4 5/8	5 5/8	6 1/8
JJ	2 5/8	2 5/8	3 9/16	3 11/16	4 7/8	-	-	-	-
K	15/16	15/16	1 1/8	1 1/2	1 11/16	1 11/16	1 7/8	2 1/4	2 9/16
L	1 3/4	1 3/4	1 3/4	1 1/4	3 1/2	4 7/8	4 7/8	7 5/16	7 5/16
M	7 1/16	7 1/16	7 1/16	8 5/8	8 5/8	8 5/8	8 5/8	8 5/8	8 5/8
N	-	-	-	-	10 7/8	10 7/8	10 7/8	10 7/8	10 7/8
R	5 7/16	5 7/16	5 7/16	5 7/16	-	-	-	-	-
S	4 11/16	4 11/16	4 11/16	4 11/16	-	-	-	-	-
T	-	-	-	-	3 7/8	4	4	6 3/8	6 3/8
W	-	-	-	-	4 1/2	6 1/4	6 1/4	6 7/16	6 7/16
X	1 1/32	1 1/32	1 1/8	1 5/16	1 5/8	1 5/8	1 3/4	2 1/16	2 5/16
Y	-	-	-	v	5 1/8	5 7/8	5 7/8	5 9/16	5 9/16



CM Series 622 Chain Hoist					
Cap. Tons	Std. Lift	Ft. Hand Chain Per Ft. of Lift	Chain Pull @ Cap. Lbs.	Wt.	Item
1/2	10	53	29	18	2255A
1/2	15	53	29	25	2208A
1/2	20	53	29	30	2231A
1/2	30	53	29	38	2263A
1	10	77	37	26	2256A
1	15	77	67	30	2210A
1	20	77	37	38	2262A
1	30	77	37	48	2264A
2	10	82	80	61	2258A
2	15	82	80	71	2213A
2	20	82	80	80	2233A
2	30	85	80	85	2272A
3	10	65	154	89	2259A
3	15	65	154	99	2223A
3	20	65	154	109	2214A
5	10	105	147	91	2260A
5	15	105	147	107	2257A
5	20	105	147	123	2234A

## CM Series 622 Chain Hoist

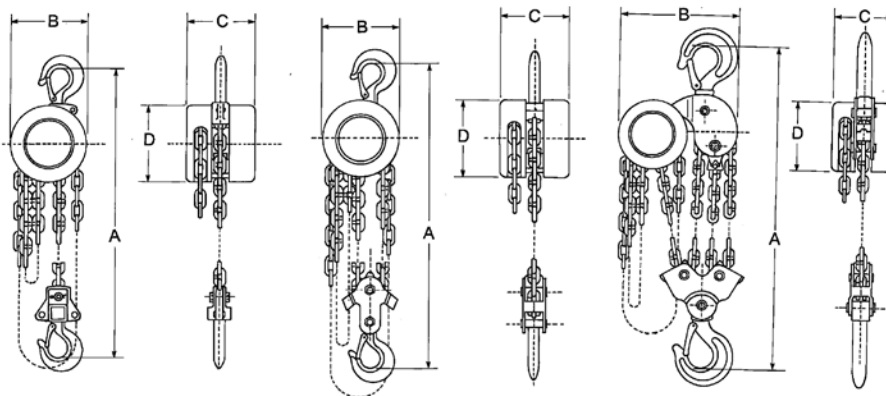
### CM2208 - CM2264

A simple, efficient, and economical design plus a hardened load chain for long wear, this chain hoist offers value. A compact design, low headroom, and its lightweight steel construction allows for easy installation, even in confined spaces. The Weston-type load brake requires no lubrication, and a hand wheel cover with guide slots minimizes jamming and slipping.

Forged swivel hooks with latches reduce twisting of chain and unintentional unhooking of load when chain is slack. Standard hand chain drop is 2 feet less than lift (example: 8 ft lift hoist has 6 ft hand chain drop).

- ONE YEAR WARRANTY
- METRIC RATED

CM Series 622 Chain Hoist (Clearances)						
Dimension	1/2 Ton	1 Ton	2 Ton	3 Ton	5 Ton	10 Ton
A (Headroom)	11 5/8	13	18 1/8	21 29/32	23 7/8	27 9/16
B (Width)	4 15/16	5 19/32	8 5/16	8 5/16	8 5/16	14 3/32
C (Depth)	4 5/16	5 1/16	6 5/8	6 5/8	6 5/8	6 5/8
D (Diameter)	4 5/16	4 15/16	5 19/32	8 5/16	8 5/16	8 5/16
Hook opening (Upper)	1 1/16	1 1/32	1 1/4	1 5/16	1 13/16	2 1/2
Hook Opening (Lower)	1 1/16	1 1/32	1 1/4	1 5/16	1 13/16	2 1/2



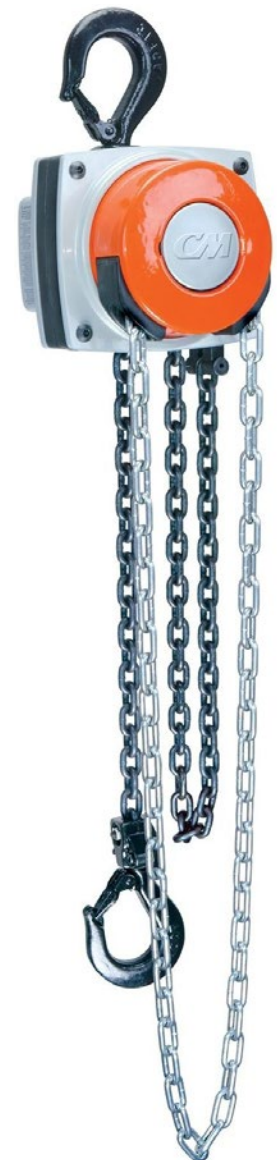
CM Hurricane With Load Limiter					
Cap. Tons	Std. Lift	Ft. Hand Chain Per Ft. of Lift	Chain Pull @ Cap. Lbs.	Wt.	Item
1/2	10	44	30	23	5623A
1/2	15	44	30	28	5624A
1/2	20	44	30	33	5625A
1/2	30	44	30	43	5651A
1	10	54	49	26	5626A
1	15	54	49	33	5627A
1	20	54	49	41	5628A
1	30	54	49	58	5653A
2	10	74	71	45	5629A
2	15	74	71	48	5630A
2	20	74	71	51	5631A
3	10	92	87	68	5635A
3	15	92	87	79	5636A
3	20	92	87	90	5637A
5	10	76	174	122	5639A
5	15	76	174	142	5640A
5	20	76	174	162	5641A
10	10	102	261	210	5643A
10	15	102	261	240	5644A
10	20	102	261	270	5645A

## CM Hurricane Chain Hoist

### CM5623A - CM5651A

The new CM Hurricane unleashes a full circle of flexibility for lifting and pulling - now with overload protection. The CM Hurricane's unique 360° rotating hand chain guide allows for the hoist operator to work from almost any position. Has improved braking power and a powder coated finish for corrosion protection.

There is a standard load limiter for simple, automatic overload protection. Internal gears and pinions are heat treated steel for high strength and long life. Chain Guide & Stripper assures load chain alignment. 5 Year Warranty against defects in materials and workmanship.



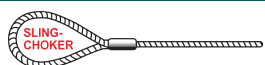
CM 640 Lever Hoist									
Chain Pull		Min. Dist.	Lever		Hook Throat				
Cap. Tons	Std. Lift	@ Cap. Lbs.	Between Hooks (In)	Length Inch	Reeving	Opening Inches	Wt.	Item	
3/4	5	58	10 3/4	21 1/4	1	1 1/32	16	4043	
1 1/2	5	14 1/4	21 1/4	1	1	1 1/8	26	4045	
3	5	95	16 15/16	21 1/4	2	1 7/32	38	4047	

## CM Series 640 Lever Hoist

### CM4043 - CM4050

The CM Lever Hoist is designed for heavy-duty construction and industrial applications. Used to pull, lift, drag, or stretch, it features:

- Tough aluminum alloy construction and powder coat finish. Weatherproof for outdoor service.
- Simple construction with fewer parts for ease of maintenance and lower inventories
- Hoist-alloy hardened steel link type load chain for strength, long wear life and flexibility
- Weatherized Weston-type automatic braking system for positive load control
- Easy, one-hand operation and control - only 58 pounds of pull required for 3/4 ton model capacity



CM Series 653 Lever Operated Hoist								
Cap. Tons	Std. Lift	Reeving	Chain Pull @ Cap. Lbs.	Lever Length Inch	Hook Throat Opening Inches	Min. Dist. Between Hooks (In)	Wt.	Item
3/4	5	1	33	11	1 1/8	12 5/8	19	5310
3/4	10	1	33	11	1 1/8	12 5/8	21	5311
3/4	15	1	33	11	1 1/8	12 5/8	26	5312
3/4	20	1	33	11	1 1/8	12 5/8	28	5313
1	5	1	44	11	1 1/8	14-3/16	27	5328
1 1/2	5	1	51	11	1 1/8	12 5/8	31	5315
1 1/2	10	1	51	16 1/4	1 1/4	14 13/16	36	5316
1 1/2	15	1	51	16 1/4	1 1/4	14 13/16	41	5317
1 1/2	20	1	51	16 1/4	1 1/4	14 13/16	45	5318
2	5	1	68	16 1/4	1 1/4	14 13/16	31	5329
3	5	1	77	16 1/4	1 9/16	18 11/16	51	5320
3	10	1	77	16 1/4	1 9/16	18 11/16	59	5321
6	5	1	77	16 1/4	2 3/16	23 1/4	76	5330
6	10	1	77	16 1/4	2 3/16	23 1/4	94	5331
6	15	1	77	16 1/4	2 3/16	23 1/4	110	5332
6	20	1	77	16 1/4	2 3/16	23 1/4	126	5333



## CM Series 653 Lever Hoist

### CM5310 - CM5333

- Impact resistant, stamped steel frame, gear case and cover for durability and light weight
  - Hardened steel load sharing gears
  - Double pawl arrangement for assured load control
  - Two chain guide rollers for positive chain engagement.
  - Weston type braking system for positive load control & positioning
  - Simple one-handed, free chaining for fast load attachment
- FIVE YEAR WARRANTY  
- METRIC RATED

CM Wire Rope Lever Hoist								
Single Party Line Capacity Lbs.	Lift Feet	Double Line Hook to Hook-Inch	Cap. Lbs.	Lift Feet	Min. Dist. Between Hooks (In)	Cable Specifications	Wt.	Item
1,000	13.75	19	---	---	---	3/16"x16'	8.5	04601W
1,000	13.5	21	2,000	6.5	27	3/16"x16'	10.5	04602W
1,500	13	21	---	---	---	1/4"x15'	9.5	04610W
1,500	12.5	21	3,000	6	27	1/4"x15'	11.5	04611W
1,500	21.5	22.5	3,000	10.25	28.5	1/4"x15'	13.25	04620W
1,500	21.5	25	3,000	10.25	33.5	1/4"x15'	16	04621W
2,000	12.5	22.5	4,000	6	28.5	9/32"x15'	13.5	4631W

## CM Wire Rope Lever Hoist

### CM04601W - CM4631W

- Handle designed for overload protection. Handle bends to warn of hazardous condition
- Fast cable take-up. Winding wheel provided for quick take-up or positioning of cable
- Swivel Latch Hooks
- Tested to 125% of capacity, Domestic Made
- Lightweight and rugged; special cast aluminum



Series 602 & 603 Mini Ratchet Lever Hoist						
Cap. Lbs.	Std. Lift	Chain Parts	Lift with One full Lever Turn	Handle Pull At WLL (Lbs.)	Wt.	Item
550	5	1	3.15	56	6	210
550	10	1	3.15	56	7	214
Series 602 Carry Bag						212
1100	5	1	1.57	78	7	215
1100	10	1	1.57	78	8	216
Series 603 Carry Bag						217

## CM Series 602 & 603 Mini Ratchet Lever Hoist

### CM0210 - CM0217

Our compact Mini-Hoists perform just like the larger hoists, except they're small enough to fit in the palm of your hand.

- Plated load chain is standard—Weston type load brake
- Use in confined conditions with one hand operation
- Forged upper and lower hooks with latches standard
- Hardened link type steel load chain for strength and long wear
- Free chaining feature serves to quickly attach the load

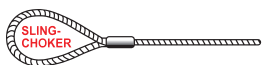


Bandit				
Cap.	Lift	Pull to Lift @ Cap.	Wt.	Item
3/4T	5	45	13.6	BAN07505R
3/4T	10	45	15.7	BAN07510R
1-1/2T	5	64	20.7	BAN15005R
1-1/2T	10	64	24.3	BAN15010R

## CM Bandit

### CMBAN07505R - CMBAN15010R

- Rugged, yet lightweight, design and construction can be easily transported and used in even the most confining spaces
- Easy free chaining feature allows for quick take up and positioning of slack chain. Designed not to accidentally free chain while under load
- 360° rotating handle allows for versatile rigging options when working in tight spaces
- Enclosed Weston type load brake stays clean and dry for positive load positioning
- Upper and lower hooks feature standard forged safety latches that provide positive and secure load engagement. Hooks are bolted on for easy removal and inspection
- Upper and lower hooks feature extra wide throat openings to allow for easier attachment to pick points. Hooks swivel 360° for faster positioning. Hooks made in the USA
- Standard powder coat finish on housing and zinc plating on major components for extra protection against corrosion when working in harsh environments
- 100% load tested gold chromate chain. Proven chain integrity and corrosion resistance. Chain made in the USA

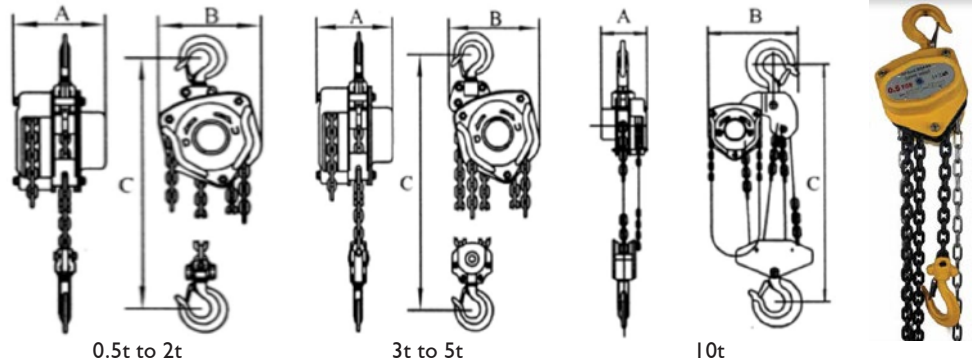


GS619 Manual Chain Hoist With Overload Protection									
Cap. Metric Tonnes	Std. Lift	Parts of Chain	Dim. In. a	b	c	Effort to Lift Rated Load N	Load Chain mm's	Chain Wt. Lb./M	Item
1	10	1	5.51	6.22	12.48	309	6	26.4	GS619-01-10
1	20	1	5.51	6.22	12.48	309	6	26.4	GS619-01-20
1 1/2	10	1	6.34	6.85	15.71	320	8	41.8	GS619-015-10
1 1/2	20	1	6.34	6.85	15.71	320	8	41.8	GS619-015-20
2	10	1	6.34	7.36	16.30	360	8	44	GS619-02-10
2	20	1	6.34	7.36	16.30	360	8	44	GS619-02-20
3	10	2	6.34	7.83	18.31	340	8	59.4	GS619-03-10
3	20	2	6.34	7.36	16.30	340	8	59.4	GS619-03-20
5	10	2	7.32	9.96	25.04	414	10	100.1	GS619-05-10
5	20	2	7.32	9.96	25.04	414	10	100.1	GS619-05-20
10	10	4	8.15	15.67	31.42	414	10	182.6	GS619-10-10
10	20	4	8.15	15.67	31.42	414	10	182.6	GS619-10-20

## GS 619 With Overload Protection

### GS619-005-10 - 10-20

Full parts breakdown is available. Meets or exceeds ASME B30.16

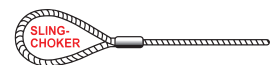
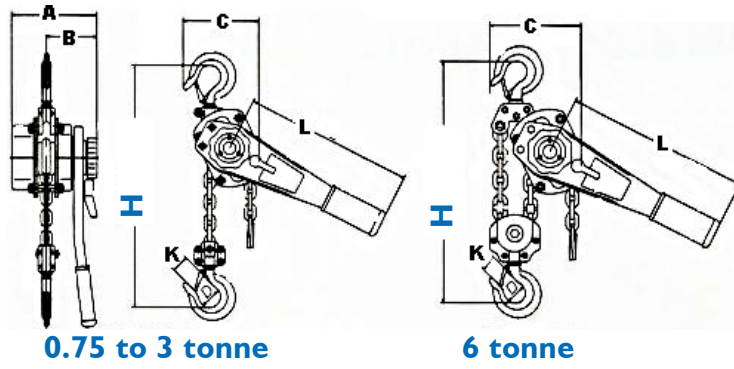


GS622 Lever Puller with Overload Protection														
Cap. Metric Tonnes	Std. Lift	Parts of Chain	A	B	C	D	H	L	K	Wt. Lbs.	Force to Lift Rated Load (Kn's)	Load Chain mm's	Chain Wt. Lb./M	Item
3/4	1.5	1	5.83	3.54	5.35	1.57	12.80	11.02	1.34	15.4	140	6	1.76	GS622-075
1-1/2	1.5	1	6.77	3.86	6.30	1.77	14.96	16.14	1.50	24.2	220	8	3.08	GS622-15
3	1.5	1	7.87	4.53	7.09	2.28	18.90	16.14	1.89	46.2	320	10	4.84	GS622-3
6	1.5	2	7.87	4.53	9.25	2.52	24.41	16.14	2.05	68.2	340	10	9.68	GS622-6
9	1.5	3	7.87	4.53	12.60	3.35	27.56	16.14	2.28	101.2	360	10	14.52	GS622-9



## GS Lever Puller

### GS622-075 - 9







## Compact Aluminium Lever Hoist

### GS-6-0.25TLPAL - GS-6-1.5TLPAL

Aluminum body and light weight. The load chain sprocket is made of heat treated alloy steel with precision machining. Chain guides provide smooth chain operation. Double regulating wheel structure and double pawl guarantee safe and reliable brake operation. Suitable for high altitude and small space operation. The existing brake separation technology can be quickly adjusted to a suitable working position. The hooks are alloy steel, heat treated and includes cast safety latch. Grade 80 load chain is accorded with EN818-7 standard, ASME B30.21.

Part Number	GS-6-0.25TLPAL	GS-6-0.5TLPAL	GS-6-0.75TLPAL	GS-6-1.5TLPAL
WLL (t)	0.25	0.5	0.75	1.5
Standard Lift Meters	1	1	1.5	1.5
Strands of Load Chain	1	1	1	1
Net Weight per Standard Lift (kg)	1.9	2.7	4.8	7
Running Test Load (kN)	3.1	6.1	9.2	18.4
Force to Lift Rated Load (N kg)	206 (21)	255 (26)	303 (31)	362 (37)
Load Chain Diameter (mm)	4	5	5.6	7.1
Chain Weight (kg/m)	0.36	0.55	0.68	1.2

## CM Series 632

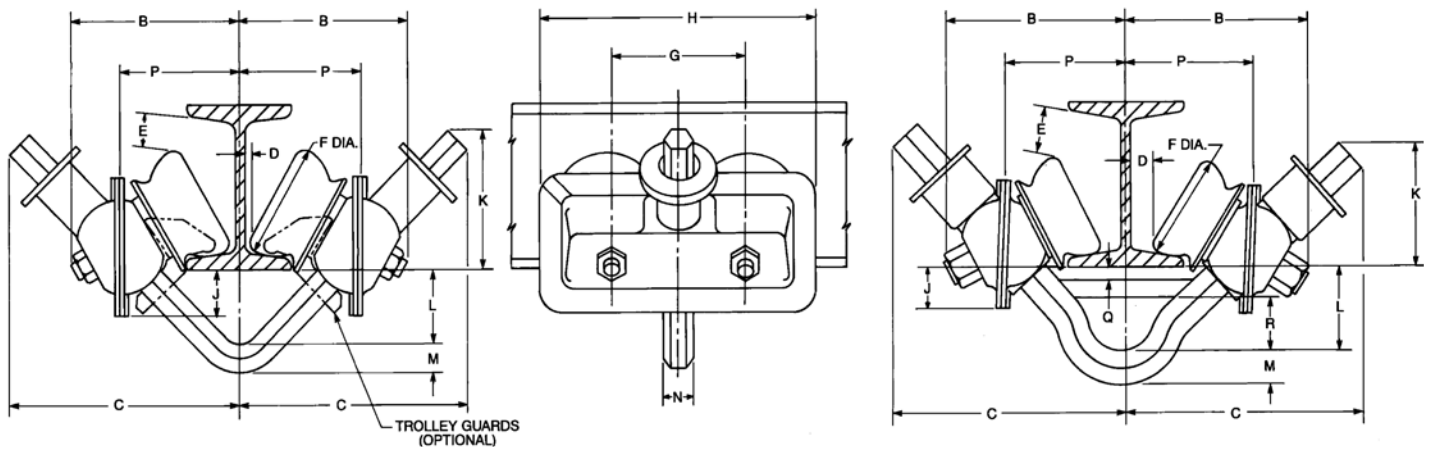
### CM3222 - CM3230

Close Radius Trolley- Negotiates radius curves as tight as 7'-10". Bearings pre-packed for lifetime lubricant. Exclusive Dial-Fit Collar quickly adapts trolley to wide range of beams and patented rails.

CM 632 Trolley- Adj. for Std. S- Beams						
WLL	Beam Depth	Flange Width	Tread Dia. (In)	Min. Curve	Wt.	Item
1/4 & 1/2	4-12"	2-5/16-5-1/16"	2.75	7	9	3222
1	4-12"	2-5/16-5-1/16"	2.75	7	10	3224
1-1/2-2	6-15"	3 3/8 - 5 5/8"	3.50	10	23	3226
3	6-15"	4 - 6 1/4"	3.50	10	29	3230



Dimensions	B	C	D	E	F	G	H	J	K	L	M	N	P
1/4 & 1/2	4 1/4	5 7/8	3/16	13/16	2 3/4	3 3/8	7	3 3/8	1 13/16	1 13/16	11/16	7/8	3
1	4 3/8	6	3/16	13/16	2 3/4	3 3/8	7	1 1/8	3 1/2	1 5/8	7/8	1	3 1/8
1 1/2 & 2	5 5/8	7 1/2	3/8	2 3/16	3 1/2	4 1/2	9	1 1/2	4 3/8	2	1 1/8	1 1/4	3 7/8
3	6 3/16	8 1/16	11/16	4 1/16	3 1/2	4 1/2	9	1 5/8	4 13/16	2 5/8	1 1/8	1 1/4	4 15/16



# CTP™

## ADJUSTABLE TROLLEY CLAMP

### QUICK & EASY INSTALLATION

The CTP Adjustable Trolley Clamp requires no tools for installation.

### THE SMART & ECONOMICAL CHOICE

With its competitive price and universal hanging clevis able to accept most hoists, the CTP is a tremendous value.

### CORROSION RESISTANT

Features a zinc-plated spindle for added protection against the elements.

### SAFE & SECURE

The unique locking nut handle prevents spindle from loosening.

### METRIC RATED

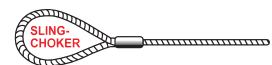
### CAPACITIES UP TO 6,600 LBS.

The heavy duty adjustable trolley clamp designed for easy installation while offering superior strength and stability throughout its long service life.



CM CTP Adjustable Trolley Clamp

Capacity		I beam Width	Minimum Radius Curve	Wheel Diameter	Item
2,200 Lbs	1 Ton	2-1/4 TO 6 In	24 In	2.36 In	55024
	907 Kgs	57.15 TO 152.4	609.6mm	59.644mm	
4,400 Lbs	2 Ton	3 to 7-7/8 In	35 In	3.27 In	55025
	1,814 Kgs	76.2 to 200.025mm	889mm	83.058mm	
4,400 Lbs	2 Ton	7-7/8 to 11-7/8 In	35 In	3.27 In	55026
	1,814 Kgs	200.025 to 301.625 In	889mm	83.058mm	
6,600 Lbs	3 Ton	3 tp 7-7/8 In	45 In	4.37 In	55027
	2,721.5 Kgs	76.2 to 200.025mm	1143mm	110.998mm	

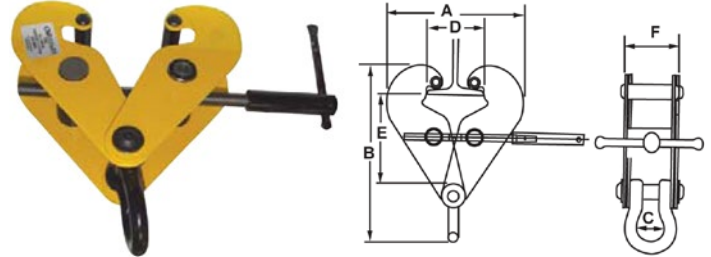


Screwlok Beam Clamp with Shackle									
WLL	Flange	A	B	C	D	E	F	Wt.	Item
2,200	3 to 8-1/4	12.625	12.125	1.750	8.250	5.375	2.625	11.0	SC921
4,400	3 to 8-1/4	12.625	12.875	1.750	8.250	5.375	2.875	13.5	SC922
6,600	4 to 10-5/8	16.125	14.750	1.750	10.625	6.500	4.000	17.5	SC923
6,600	3 to 12	17.375	16.500	1.750	12.000	8.625	4.000	20.0	SC923/L
11,000	4 to 10-5/8	16.125	13.375	2.125	10.625	8.500	4.375	22.0	SC925
11,000	3 to 12	17.125	17.125	2.125	12.000	8.625	4.375	26.5	SC925/L

## CM Screwlok Beam Clamp w/ Shackle

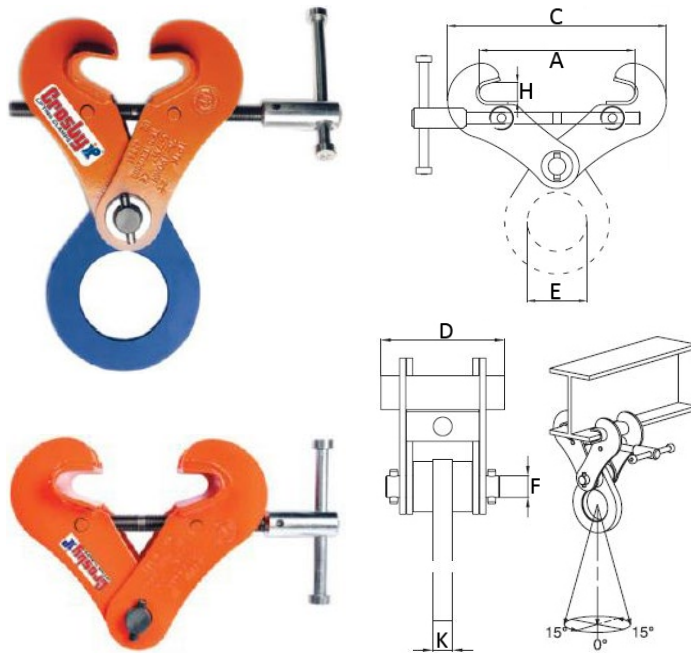
### CMSC921 - CMSC925/L

- Designed to fit flanges of most structural beams
- A semi-permanent lifting point for use with manual or electric hoists
- Shackle incorporated for load suspension



IPTK- Crosby IP Beam Clamp									
WLL	Jaw A	C	D	E	H	K	Wt.	Item	
2	3-7 1/2	A+3 5/32	4.92	2.95	1.00	0.78	13.0	2700996	
3	3-7 1/2	A+3 5/32	4.92	2.95	1.00	0.78	15.0	2700997	
4	5 7/8 - 11 1/4	A+3.9375	4.92	2.95	1.38	0.78	19.0	2700998	
5	4 3/4 - 13 3/4	A+7 46/64	4.92	2.95	1.69	0.78	25.0	2700994	

IPTKW- Beam Clamp without Eye									
WLL	Jaw A	C	D	F	H	Wt.	Item		
2	3-7 1/2	A+3 5/32	4.92	1.11	1.00	9.0	2700966		
3	3-7 1/2	A+3 5/32	4.92	1.11	1.00	10.0	2700967		
4	5 7/8 - 11 1/4	A+3.9375	4.92	1.11	1.38	14.0	2700968		
5	4 3/4 - 13 3/4	A+7 46/64	4.92	1.11	1.69	19.0	2700969		



## Crosby IPTK Beam Clamp With Eye

### 2700996 - 2700994

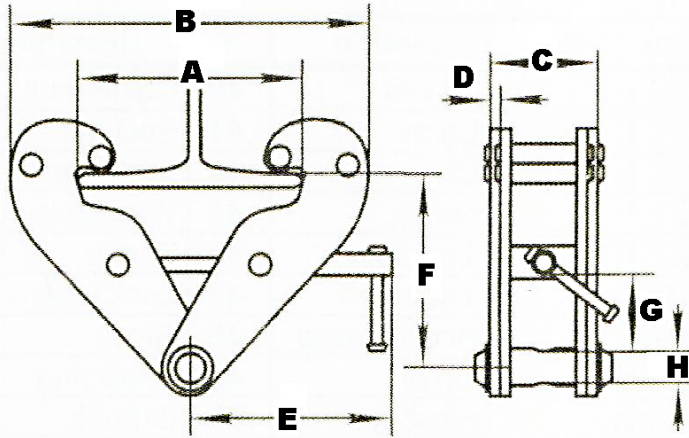
The Crosby IPTK Series: for the transfer of steel beams and attachment of tackle eye:

- Is available in capacities of 2 through 5 metric tons
- Has a wide variety of jaw openings available from 3" to 40"
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required
- Individually Proof Tested to 2 times the Working Load Limit
- Each product is individually serialized. Serial number is included on the test certificate with maintenance and warranty logbook

## Crosby IPTKW Beam Clamp Without Eye

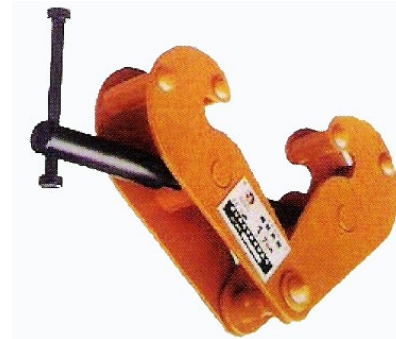
### 2700966 - 2700969

GSBC Beam Clamps										
WLL	Adj. Beam	B Min		F Min			Item			
Tonne	Width	A Max	Max	C	D	E	Max	G	H	
1	2.95-8.66	10.24	7.09-14.17	2.52	0.2	8.46	4.02-6.1	0.98	0.87	GSBC01T
2	2.95-8.66	10.24	7.09-14.17	2.91	0.24	8.46	4.13-6.1	0.98	0.87	GSBC02T
3	3.15-12.6	13.94	9.25-19.29	4.06	0.31	10.24	5.51-8.86	1.77	0.94	GSBC03T
5	3.15-12.6	25.75	9.25-19.29	4.33	0.39	10.24	5.51-8.86	1.77	1.10	GSBC05T
10	3.54-12.6	14.37	12.6-19.88	4.72	0.47	11.02	6.69-9.25	1.97	1.57	GSBC10T

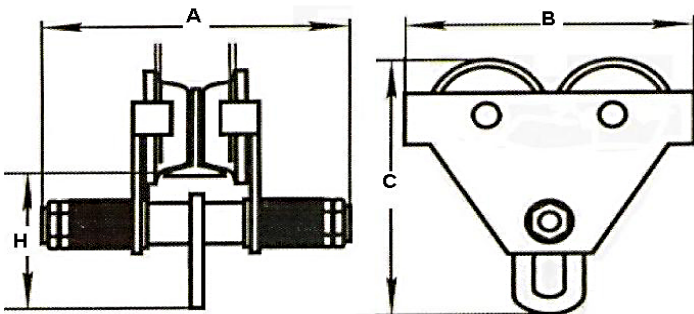


## GS Beam Clamps

GSBC01T - GSBC10T



GS619T Trolley							
Cap	I-Beam	A	B	C	H	Wt. Lb.	Item
	Width In.						
0.5 te	2.52-5.51	9.06	8.35	7.81	4.45	15.4	GS619T-005
1 te	2.52-5.51	10.00	10.04	9.11	5.04	26.4	GS619T-01
1.5 te	2.99-6.5	10.87	10.97	10.43	5.71	39.6	GS619T-015
2 te	2.99-6.5	11.57	11.89	10.94	5.98	48.4	GS619T-02
3 te	2.99-7.99	13.54	13.54	13.31	7.32	66.0	GS619T-03
5 te	3.46-7.99	14.17	14.88	15.47	8.62	121.0	GS619T-05
10 te	4.92-7.99	15.87	17.91	19.29	10.85	204.6	GS619T-10



## GS Trolley

GS619T-005 - 10





## Tirfor TU Series Heavy Duty Griphoist

**GH-18019 - 18039**

The powerful TIRFOR TU range is found wherever there is a need for lifting or pulling heavy loads on construction sites, in civil engineering and many more industries.

TIRFOR machines are quickly installed to give continuous controlled operation in any position and under the most arduous conditions.

The TIRFOR TU range of machines is used for heavy duty applications whenever there is a need for lifting or pulling heavy loads over long periods in difficult conditions.

Tirfor TU Series				
Model	Cap	Wire Line	Wt.	Item
TU17	1,760	8.3	21	008492024
TU28	3,520	11.5	45	016099024
TU32	7,000	16.3	65	032199024



## Tirfor T Series Lightweight Griphoist

**GH-18109 - 18129**

The TIRFOR T500 machines are compact and lightweight. They are easy to handle and operate with a high mechanical advantage to lift, pull and position with unlimited length of wire rope. Carefully manufactured and assembled to very strict quality control standards, each machine is individually tested to 50% overload.

The TIRFOR T500 light duty range of machines is recommended where limited space and portability are important criteria.

Tirfor T Series				
Model	Cap	Wire Line	Wt.	Item
T508	1,760	8.3	17	008699124
T516	3,520	11.5	35	017099124
T532	7,000	16.3	58	033099124



## Tirfor Pull-All J3 / J5

**GH-5469 - 5479**

The PULL-ALL JOCKEY winch-hoist, is easy to operate and very compact. It weighs less than 4 lbs, but can lift 700 lbs.

It's the mini-strongman!

The SUPER PULL-ALL can lift 1,500 lbs. and weighs in at 8 lbs. For larger loads, there is the SUPER-JOCKEY.

Tirfor Pull All Jockey				
Cap. Lbs.	Pulling Capacity	Rope Length	Wt. Lbs.	Item
700	1,100	32	8.36	GH-J3
1,100	1,760	32	8.14	GH-J5



## Swivel Hooks for T Series

**GH-21857 - 21877**

Optional swivel hooks for above models.

Swivel Hooks for T Series	
Description	Item
Swivel Hook for T 508D	GH-21857
Swivel Hook for T516D	GH-21867
Swivel Hook for T532D/TU-32	GH-21877



8.3mm (5/16") for T508, TU-17, T7 hoists  
4x26, Preformed with Safety Hook  
Breaking Strength 10,588 lbs.

Lgth. Ft.	Wt.	Item
33	9.9	GH-08X033
50	3.9	GH-08X050
66	17.6	GH-08X066
98	19.4	GH-08X098
148	26.4	GH-08X148
197	10.6	GH-08X197

11.5mm (7/16") for T516, TU-16, TU28, T13  
4x26, Preformed with Safety Hook  
Breaking Strength 21,154 Lbs.

Lgth. Ft.	Wt.	Item
33	15.0	GH-11X033
50	20.2	GH-11X050
66	23.2	GH-11X066
98	32.6	GH-11X098
148	51.5	GH-11X148
197	66.9	GH-11X197

16.3mm, (5/8") for T532, TU-32, T35  
4x36, Preformed with Safety Hook  
Breaking Strength 40,503 lbs.

Lgth. Ft.	Wt.	Item
33	26.2	GH-16X033
50	37.6	GH-16X050
66	48.8	GH-16X066
98	71.5	GH-16X098
148	105.2	GH-16X148
197	139.0	GH-16X197



## Tractel MAXIFLEX Wire Ropes (8, 11, 16mm)

### GH-08X033 - 16X197

MAXIFLEX Wire Rope is an integral component of every winch supplied by Tractel (except our chain hoists, of course).

Selecting the correct wire rope and following a routine maintenance and inspection program will ensure that your hoists operate efficiently for many years.

Using Maxiflex wire rope in all of our manual and powered hoists will ensure the highest level of performance for your equipment. Maxiflex wire rope is specifically developed and constructed for use in Tractel products.

Tirvit Wire Rope Puller For Pulling			
Model	Rope Dia.	Force (lbs)	Item
F2	2-8 (3/32"-5/16")	900	GH-1029
F3	7-15 (5/16"-9/16")	1,300	GH-1039
F4	14-18 (9/16"-11/16")	1,750	GH-1049

## Tirvit Wire Rope Puller

### GH-1029 - 1049

The TIRVIT tensioning device comprises a guide frame on which an operating lever is hinged. This lever alternately drives two self-gripping automatic jaws which grip the cable or wire rope



Coni-Klam			
Model	Rope Dia.	Force (lbs)	Item
EC10	3/32 - 5/16	2,200	GH-1269
EC14	5/16 - 9/16	4,400	GH-1289
EC21	9/16 - 11/16"	6,600	GH-1309

## Coni-Klam Wire Rope Gripper

### GH-1269 - 1309

A wire rope gripper to quickly lengthen a rope or sling. The wire rope is held by a pair of serrated jaws, operated by a self-gripping wedge



Blocstop-Safety Devices for Wire Rope			
Rope Dia	KH	Wt./Lbs.	Item
8.3mm	680	4.4	GH-3219
11.5mm	1,360	7.9	GH-3129
16.3mm	2,720	18.9	GH-3149

## Blocstop

### GH-3129 - GH-3219

The Blocstop is a fall-arrest secondary safety device when fitted to an appropriate Tirfor wire rope. The Blocstop is particularly well suited as a safety device on suspended cradles and platforms. It may also be used to hold or restrain any other loads during lifting and pulling applications. The Blocstop may be used:

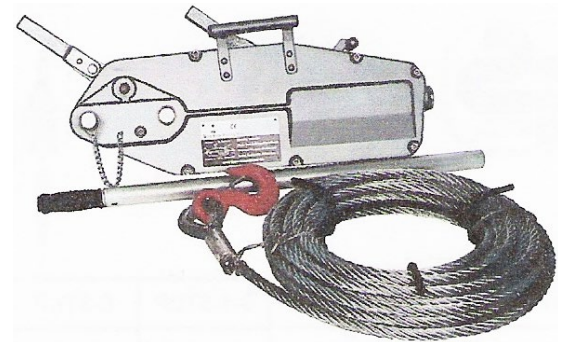
- Mounted on a separate safety wire rope if required by safety regulations for suspended scaffolding and platforms. The Blocstop holds the load safely should there be any defect in the suspension wire rope or malfunction of the lifting machine
- Mounted on the suspension or tensioned wire rope, the Blocstop protects the load against malfunction of the lifting/tensioning device



GS Wire Rope Cable Winch c/w Cable					
WLL	Rope. Dia.	Drive Step	Std. Wire Rope Length- Feet	Wt.	Item
1,600	8mm	1	65.62	13.2	GSTU-08
3,200	11mm	1	65.62	26.4	GSTU-16
6,400	16mm	2	32.81	50.6	GSTU-32

## GS Wire Rope Cable Winch

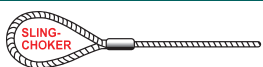
### GSTU-08 - 32



Optional- Swivel Hooks		
WLL	Wt.	Item
1 T	0.78	GS322C-01
2 T	2.57	GS322C-02
5 T	5	GS322C-05

## Swivel Hooks

### GS322C-01 - 05





# straightpoint®

*making the lifting industry a safer place*



## Straightpoint Tension Load Cells

Tension Load Cells from Straightpoint. Manufacturer and supplier of a wide range of tension digital dynamometers, load cells available 0.5t to 500t with larger capacities available on unrivalled lead times. Systems and connected instrumentation and a full range of accessories. Number one choice for the global rigging industry. Hoists to heavy lift. Tension dynamometer load cells and force sensor measurement systems manufactured by Straightpoint are renowned for measurement that achieves high accuracy, and is safe, reliable and stable.

Recognised by industries across the world for the design and quality of their products, Straightpoint also enjoys an unrivalled reputation for setting industry-standard service, fast delivery, free support and flexibility. A dedicated team of staff at the ready for your needs and technical support.

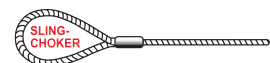
## Radiolink plus

Radiolink plus is designed to be rigged with Crosby standard shackles - DNV-GL type approved wireless tension load cell capable of weighing and dynamic load monitoring in capacities from 1t to 500t – from stock with an ATEX and IECEx version available for hazardous areas, zones 0, I & 2. **Two versions of the RLP are available:**

- Long range 2.4GHz version providing industry leading wireless range of 700m or 2300ft to SP's SW-HHP handheld or software options.
- Bluetooth output and can be connected to any smart phone running our free HHP app on iOS or Android at ranges up to 100m or 328ft.
- The versatile RLP is supplied with an update rate of 3Hz and can be easily configured to run at industry leading speeds of up to 200Hz making it ideal for dynamic force measurement.



Part Number	RLP1T	RLP2T5	RLP6T5	RLP12T	RLP25T	RLP35T	RLP55T
Capacity	1000kg	2.5te	6.5te	12te	25te	35te	55te
	2200lb	5500lb	14300lb	26000lb	55000lb	77000lb	120000lb
Resolution	0.5kg	0.001te	0.001te	0.002te	0.005te	0.005te	0.01te
	1lb	2lb	2lb	5lb	10lb	10lb	20lb
Units	kg	te	te	te	te	te	te
	lb	lb	lb	lb	lb	lb	lb
Weight	1.5kg	1.5kg	2.4kg	3.7kg	5kg	8.6kg	13kg
	3.3lb	3.3lb	5.3lb	8.2lb	11lb	19lb	28.7lb
Safety Factor	12:1	7:1	7:1	7:1	5:1	5:1	5:1

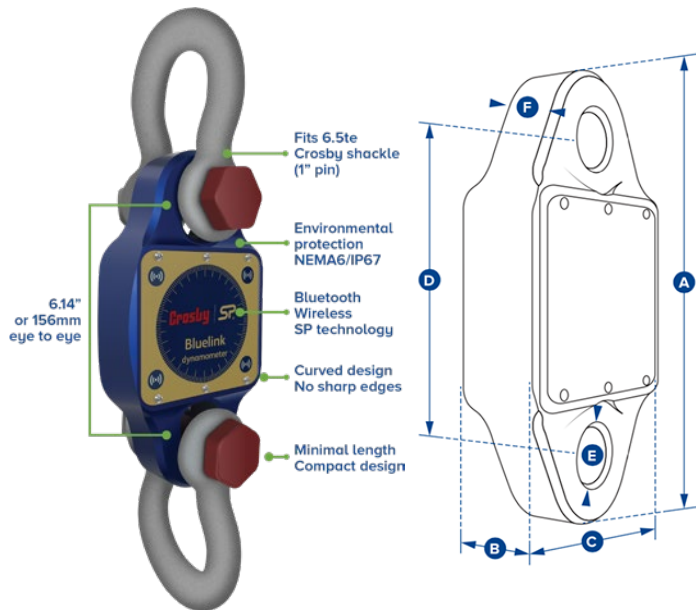




## BlueLink Digital Dynamometer

Designed to replace outdated mechanical products still in the field this 14,300lb (6500kg) Dynamometer, the “BlueLink” is the latest SP product to feature our proprietary Bluetooth wireless technology.

The Bluetooth signal effortlessly connects to any iOS or Android smartphone that has our free HHP app installed and provides the operator a wireless range of up to 328ft or 100m – allowing them to stand themselves in a safe position from the load with no requirement to read a load on the loadcell itself. The app will also allow the operator to log data versus time or on events such as over or underload and the adjustable alarm will alert the operator on their smartphone if any overload is occurring.



<b>Part Number:</b>	<b>BLD6.5t</b>
<b>Capacity</b>	6.5te 14,300lbs
<b>Resolution</b>	0.001te 2lb
<b>Weight</b>	1.5kg 3.3lbs
<b>Safety Factor</b>	5:1
<b>Battery Life</b>	500hrs
<b>Operating Temp</b>	-10°C to +50°C / 14° to 122°F
<b>Accuracy</b>	+/- 0.2% of full scale
<b>Range</b>	100 metres / 328 feet
<b>Data Rate</b>	3Hz
<b>Protection</b>	IP67 / NEMA6
<b>Dimension A</b>	224 mm 8.82 in
<b>Dimension B</b>	44 mm 1.73 in
<b>Dimension C</b>	113.64 mm 4.47 in
<b>Dimension D</b>	156 mm 6.14 in
<b>Dimension ØE</b>	27.5 mm 1.08 in
<b>Dimension F</b>	26 mm 1.02 in

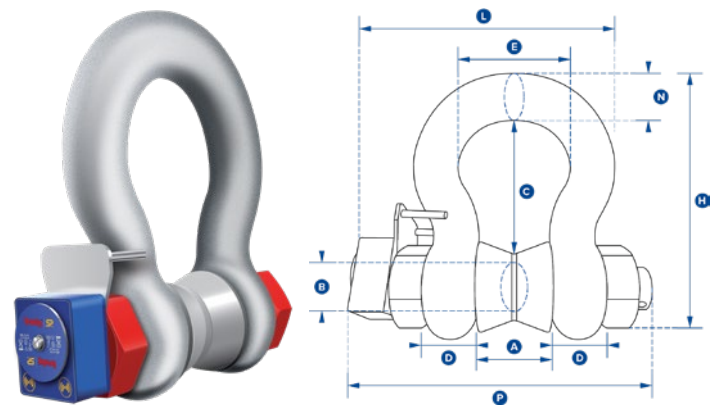
Part Number	WLS 3.25T	WLS 6.5T	WLS 12T	WLS 25T	WLS 55T
<b>Capacity</b>	3.25te 7150lb	6.5te 14300lb	12te 26400lb	25te 55000lb	55te 120000 lbs
<b>Resolution</b>	0.005te 10lb	0.005te 10lb	0.01te 20lb	0.02te 50lb	0.05te 100lb
<b>Units</b>	tonne lb				
<b>Weight</b>	2.8kg 6.16lb	3.2kg 7lb	8kg 17.6lb	18kg 40lb	25kg 55lb
<b>Safety Factor</b>	5:1 when used with bobbin				
<b>Operating Temp</b>	-10 to +50 °C 14 to 122 °F				
<b>Accuracy</b>	+/- 1% FS				
<b>Range</b>	700metres(100m if Bluetooth) 2300 feet (326ft if Bluetooth)				

## BlueLink Digital Dynamometer

Straightpoint's Wireless Loadshackle (WLS) provides the perfect solution to limited headroom or super heavy lift projects. Available from stock in capacities from 3.25t to 400t (up to 3000t available POA) the WLS is constructed using industry leading shackles from Crosby.

Two versions of the WLS are available:

- Long range 2.4Ghz version providing industry leading wireless range of 700m or 2300ft to SP's SW-HHP handheld or software options.
- Bluetooth output and can be connected to any smart phone running our free HHP app on iOS or Android at ranges up to 100m/328ft.

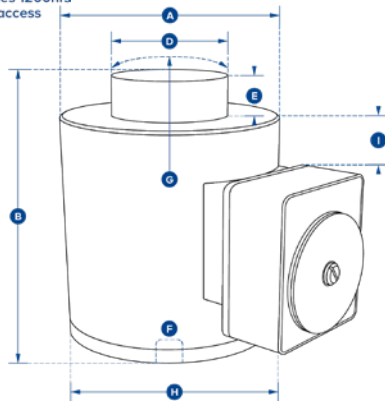
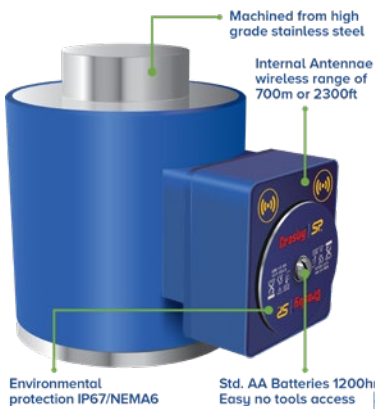
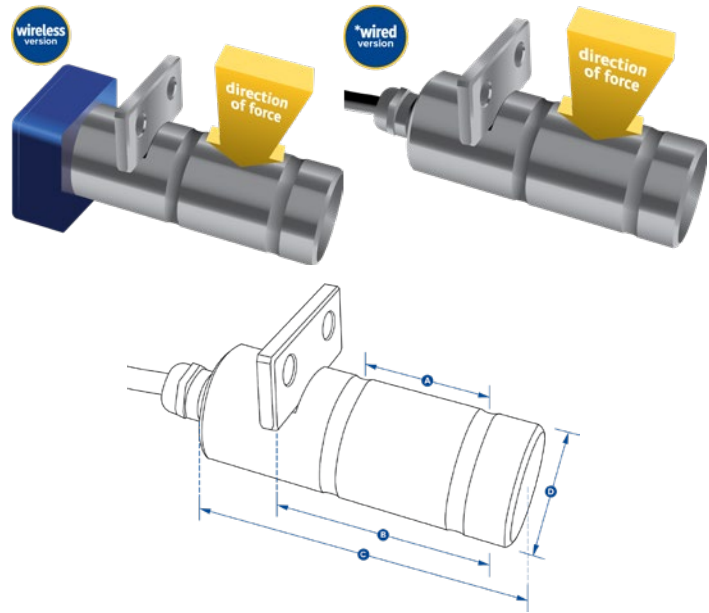


## Load Sensor - Cabled / Wireless Loadpin

The Straightpoint range of Loadpins (LMP's) or shear pins are designed for use in applications where an end of line load cell cannot be used or when an integrated solution is required in applications such as pulley or sheave axles, moorings, supports, winches or support blocks.

Three versions loadpin are available:

- Long range 2.4GHz version providing industry leading wireless range of 700m or 2300ft to SP's SW-HHP handheld or software options. This version may be ATEX or IECEx approved.
- Bluetooth output and can be connected to any smart phone running our free HHP app on iOS or Android at ranges up to 100m or 328ft.
- Cabled version with mV/V or analogue or digital output. Subsea option also available.



## Wireless Compression Load Cell - WNI

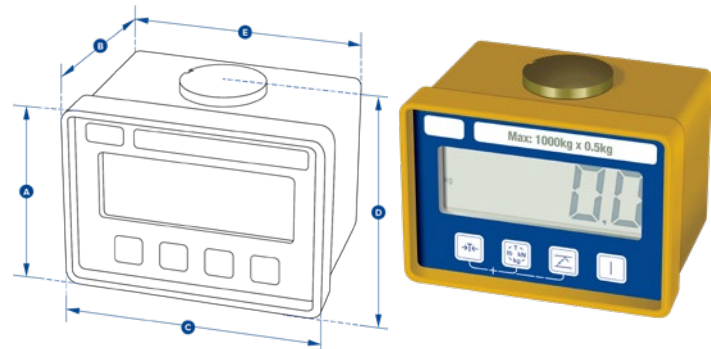
The Straightpoint Wireless Compression LoadSafe (WNI). No longer hindered by troublesome and hard to maintain cables, large scale projects can be completed in a fraction of time previously required. Multiple compression loadcells can all connect wirelessly to our range of PC software via a USB dongle, to our iOS and Android app or to our SW-HHP wireless handheld display. Maintenance and repair costs are all but eliminated due to the absence of cables and connectors, and the products flexibility opens the door to a large number of applications in the heavy lift, energy, defence, rigging, shipping, and general transportation sectors.

Part Number	WNI5TC	WNI10TC	WNI25TC	WNI50TC
Capacity	5te	10te	25te	50te
	11,000lb	22,000lb	55,000lb	110,000lb
Resolution	0.001te	0.002te	0.005te	0.01te
	2lb	5lb	10lb	20lb
Weight	6.2kg	6.2kg	6.2kg	6.2kg
	13.64lb	13.64lb	13.64lb	13.64lb
Safety Factor	3:1			
Battery Life	Loadcell 1200hrs continuous			
Operating Temp	-10 to +50 °C (14 to 158 °F)			

## Compression Load Cell - Loadblock plus

The Loadblock Plus is a low capacity, self-indicating compression loadcell, used in many testing and load monitoring applications worldwide. The integral display eliminates the need for a separate display or cable assemble that can be easily damaged. Applications include the measurement of loads associated with the testing of hydraulic presses, cylinders or jacks.

This latest version of our Loadblock has advanced features and benefits providing solutions for today's complicated load test and force monitoring needs. Features include full function push button controls for tare, units of measure (lbs, kg, kN, and tonnes), peak hold, pre-set tare, audible set-point alarm and an overload counter.

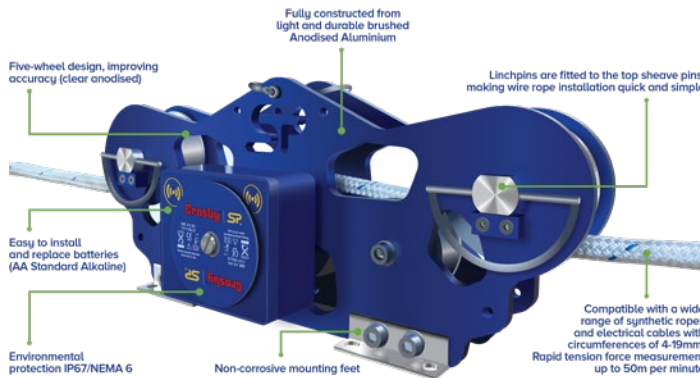
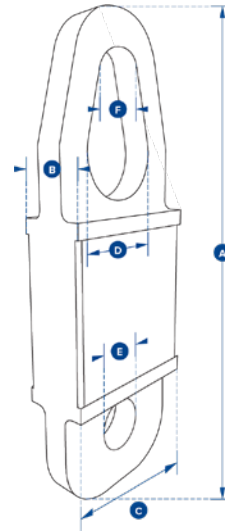
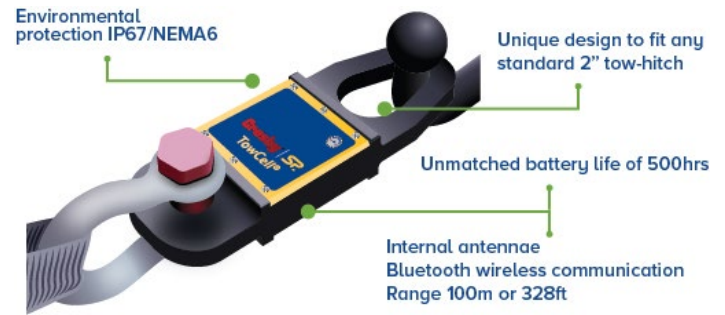


## Towbar Load Cell - Towcell®

Straightpoint has developed a 25kN, wireless tension load cell specifically engineered for the emergency services, salvage and 4 x 4 industries. The Towcell® allows for increased safety and the avoidance of costly overloads by providing real-time monitoring of tensile towing forces during recovery, clearance and salvage efforts.

The Towcell® is rugged, lightweight, compact and can be installed, with ease, onto any tow bar, whether it's a standard 52mm or 2" ball or pin assembly and is ready to use in seconds.

Part Number:	Towcell-Bluetooth
Capacity	25kN
Resolution	0.01kN
Weight	1.4kg (3lbs)
Safety Factor	5:1
Battery Life	500Hrs continuous
Operating Temp	-10°C to +50°C / 14° to 122°F
Accuracy	+/- 0.1% FS
Range	100 metres / 328 feet
Protection	IP67 / NEMA6
Dimension A	300mm (11.81")
Dimension B	43mm (1.70")
Dimension C	101mm (4.00")
Dimension ØD	51mm (2.00")
Dimension ØE	27mm (1.06")
Dimension ØF	31mm (1.22")



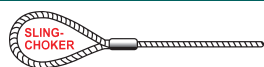
Part Number	Cablesafe
Capacity	10te (22,000lb)
Resolution	0.01 te (20lb)
Wire rope Ø mm	4-19mm (5/32"-3/4")
Weight	4.5kg (10lbs)
Battery Life	500hrs
Operating Temp	-10 to +50 °C (14 to 122 °F)
Accuracy	±2% full scale
Range	Bluetooth 100m (328ft)
Protection	IP67/NEMA6
Max Speed	20 m/min (65 ft/min)

## Rope Tension Meter - Cablesafe

A new addition to the TIMH range, the CableSafe is the continued evolution of SP's running line tensiometers. When used in the field, it will allow the user to monitor tension with exceedingly high levels of accuracy, which ensures that rope/cables do not become over-stretched or break.

When using a capstan winch to unwind electrical cable from a reel/spool, you will be able to integrate the CableSafe within this setup to ensure that it is being pulled at a safe tension level. This helps the line maintain its transmissions capability, prevent it becoming a fire hazard risk, and it also stops the need of furthering work in order to remove and replace it. The contractor is gifted with decreased liability and dramatically increased peace of mind, using CableSafe on cable pulls reduces liabilities on cable installations. Ideal for the following applications:

- Measure tension when pulling electrical cables – protect against fractures or elongation
- Measuring tension on synthetic rope when erecting delicate structures using gin poles and capstan winch





## Boom Angle Indicator

- Boom angle indicators can be installed and used by an operator within an hour
- Angle indicator accurate to within half a degree
- With no moving parts and all solid state components, the boom angle indicator requires minimal maintenance
- Our boom angle indicator is rugged, able to function at efficiency between -40°F to 140°F (-40°C to 60°C)
- Battery life of 5+ years with free replacement batteries for life



## Wind Speed Transducer

- Wind speed indicator design able to be installed on any crane within an hour, with information directed to one easy-to-read display for efficient user functionality
- All of our wind speed indicators are wireless and maintenance free
- Our wind speed transducer is functional in extreme environments with temperature testing from -40°F to 140°F (-40°C to 60°C)
- Battery life of 5+ years with free replacement batteries for life
- The wind speed transducer is designed to swivel to maintain an upright vertical position regardless of boom angle
- Technical specifications are flexible to meet any customer's specific needs

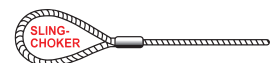
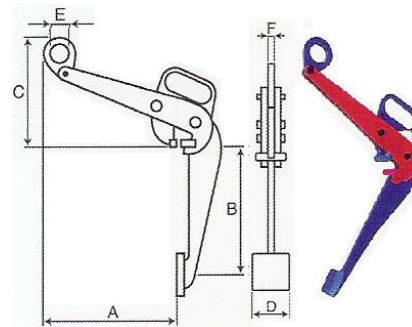
CRIPDV Vertical Drum Lifter									
WLL	Jaw	A	B	C	D	E	F	Wt.	Item
1/2	12	14.77	11.42	5.94	1.97	0.47	15	2700118	

## IPDV Vertical Drum Lifter

2700118

The IPDV Drum Lifting clamp can also be used single-handedly. You can use it individually or with a number of clamps under a spreader beam to load or unload containers and cargo holds

**Crosby** IP  
LIFTING CLAMPS



Drum Lifters- Ratchet Strap		
Cap. (lbs)	Wt.	Item
1000	3.6	DS23-36

## Drum Lifter Ratchet Strap

### DS23-36

Drum Lifter straps offer a speedy and effective way to move drums. Quickly install by tightening the ratchet strap, and you have a safe, effective way to move those drums



Drum Lifter- Chain		
Cap. (tons)	Wt.	Item
0.375	2	GSDRUML

## Drum Lifter Chain

### GSDRUML

Drum Lifter chains can handle a steel drum in either vertical or horizontal positions. Drum grabs are designed for steel drums only



IPSC													Wt.	Item
WLL	Jaw A	B	C	D	E	F	G	H	J	K				
1.5	0 - 1.25	3.58	5.63	9.02	1.77	6.17	1.81	2.05	0.63	2.05	10	2701640		
3	0 - 2.00	4.14	6.50	10.44	1.97	1.48	2.13	2.33	0.75	2.36	13	2701641		

## IPSC Positioning Clamps

### 2701640 - 2701641

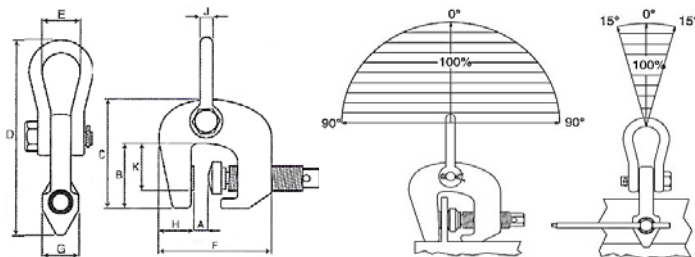
CRIPSC clamps are suitable for use in positioning & turning of steel plates and sections. Available in capacities of 1.5 through 3 tones.

Jaw openings are available from 0" to 2". Clamps are suitable for steel with a surface hardness up to 30 Rc.

Individually proof tested to 2 times the working load limit with certification.

Each product is individually serialized, with the serial number and proof load test date stamped on body. Serial number is included on the test certificate with maintenance and warranty logbook.

Maintenance replacement kits are available.



**Crosby** **IP**  
LIFTING CLAMPS



IP10 Plate Lifting Clamp													
Model	WLL	Jaw A	B	C	D	E	F	G	H	J	K	Wt.	Item
IP10	0.5	0 - .63	1.73	5.05	8.16	1.19	4.53	1.61	1.11	--	0.39	4	2701674
IP10	1	0 - .75	1.75	5.47	8.46	1.19	4.47	1.63	1.5	--	0.39	4.4	2701662
IP10	2	0 - 1.38	3.08	7.91	13.23	2.75	7.47	2.41	2.17	--	0.63	15	2701676
IP10	3	0 - 1.63	3.94	9.95	17.17	2.95	8.86	3.08	2.36	--	0.78	30.4	2701664
IP10	4.5	0 - 1.63	3.94	9.95	17.17	2.95	8.86	3.23	2.56	--	0.78	33	2701666
IP10	6	0 - 2.00	4.95	11.89	20.28	3.16	11.5	3.31	3.73	1.58	0.78	51.8	2701668
IP10/J	6	2.00-4.00	4.95	11.89	20.28	3.16	13.46	3.31	3.74	1.58	0.78	62.9	2701705
IP10	9	0 - 2.00	4.95	12.8	21.66	3.17	12.2	3.13	4.14	1.73	0.78	60.6	2701670
IP10/J	9	2.00 - 3.88	4.95	12.8	21.84	3.16	14.17	3.13	4.14	1.73	0.78	62.8	2701672
IP10	12	0 - 2.13	6.3	15.39	22.83	3.16	13.03	4.61	5.39	1.61	1	108	2701678
IP10/J	12	2.13 - 4.25	7.02	17.28	24.8	3.16	16.34	4.61	5.39	1.61	1	128	2701680
IP10	16	.25 - 2.50	7.02	18.31	27.17	3.47	15.63	4.69	6.03	1.92	1	150	2701682
IP10/J	16	2.50 - 5.00	8.19	20.52	29.38	3.47	18.58	4.99	6.34	1.92	1	200	2701684
IP10	22.5	.25 - 3.13	8.73	21.81	31.5	4.33	18.5	5.45	7.33	1.92	1	238	2701686
IP10/J	22.5	3.13 - 6.13	9.95	24.72	34.64	4.33	22.64	5.36	7.72	1.92	1	243	2701688

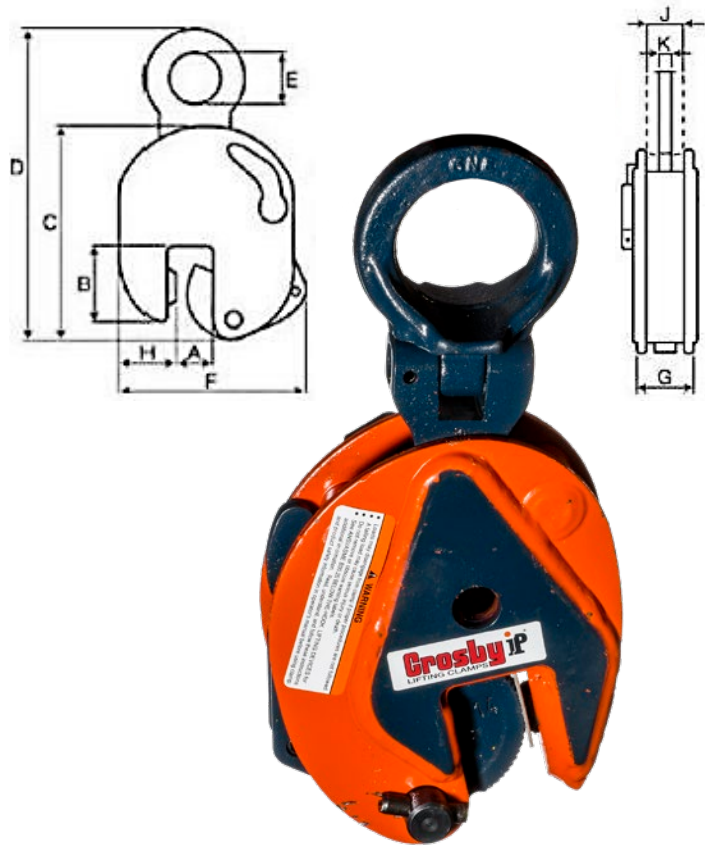
## IP10 Plate Lifting Clamp

### 2701674 - 2701688

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

- Available in capacities of 0.5 through 30 metric tons
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required
- Individually Proof Tested to 2 times the Working Load Limit with certification
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. Serial number is included on the test certificate with maintenance and warranty logbook
- Full 180° turning range for material transfer, turning or moving
- Lock open, lock closed ability with latch for pretension on material and then release of material
- Maintenance replacement kits are available

MINIMUM WLL IS 10% OF MAXIMUM WLL



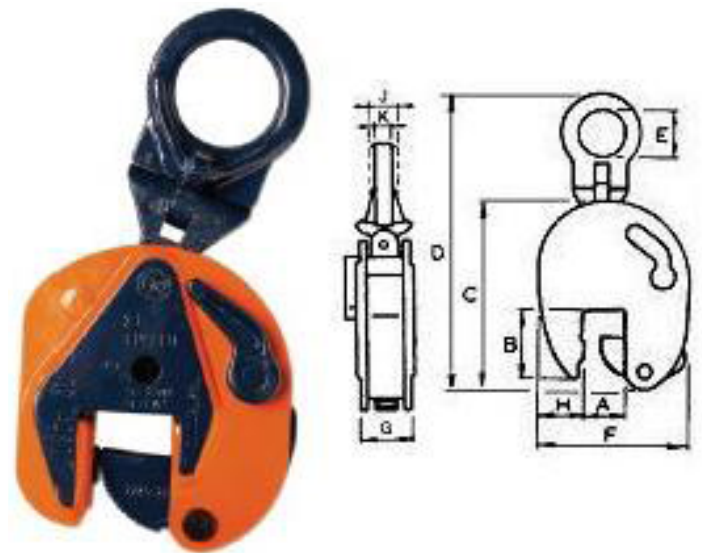
IPUI0 Universal Plate Lifting Clamp													
Model	WLL	Jaw A	B	C	D	E	F	G	H	J	K	Wt.	Item
IPUI0	0.5	0 - .63	1.73	5.05	8.97	1.19	4.53	1.61	1.11	--	0.39	4.2	2701675
IPUI0	1	0 - .75	1.75	5.47	8.75	1.19	4.47	1.63	1.5	--	0.39	4.6	2701663
IPUI0	2	0 - 1.38	3.08	7.91	14.64	2.75	7.47	2.41	2.17	--	0.63	16.8	2701677
IPUI0	3	0 - 1.63	3.94	9.95	17.52	2.95	8.86	3.08	2.36	--	0.78	32.6	2701665
IPUI0	4.5	0 - 1.63	3.94	9.95	17.52	2.95	8.86	3.23	2.56	--	0.78	35.3	2701667
IPUI0	6	0 - 2.00	4.95	11.89	20.67	3.16	11.5	3.31	3.73	1.73	0.78	52.9	2701669
IPUI0/J	6	2-4.00	4.96	11.89	20.67	3.15	13.46	3.31	3.74	1.73	0.79	67.3	2702469
IPUI0	9	0 - 2.00	4.95	12.8	21.92	3.17	12.2	3.13	4.14	1.73	0.78	65	2701671
IPUI0/J	9	2.00 - 3.88	4.95	12.8	22.13	3.16	14.17	3.13	4.14	1.73	0.78	67.2	2701673
IPUI0	12	0 - 2.13	6.3	15.39	24.53	3.16	13.03	4.61	5.39	1.61	I	125.7	2701679
IPUI0/J	12	2.13 - 4.25	7.02	17.28	26.5	3.16	16.34	4.61	5.39	1.61	I	130	2701681
IPUI0	16	.25 - 2.50	7.02	18.31	28.89	3.47	15.63	4.69	6.03	1.77	I	174	2701683
IPUI0/J	16	2.50 - 5.00	8.19	20.52	31.11	3.47	18.58	4.99	6.34	1.77	I	203	2701685

## IPUI0 Universal Plate Lifting Clamp

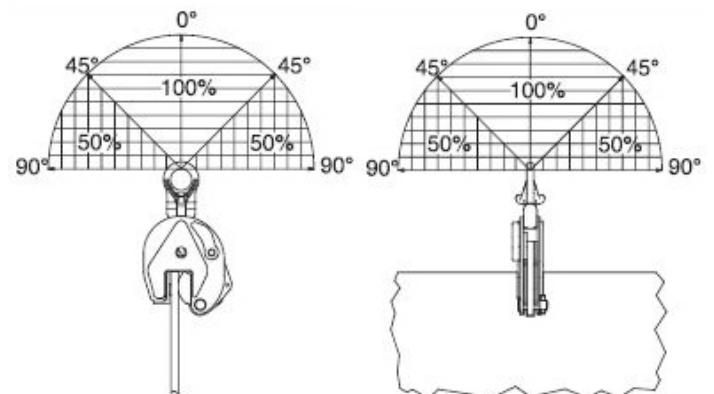
### 2701675 - 2701685

The IPUI0 vertical lifting clamp is used for the lifting, turning, moving or vertical transfer of sheet, plates, or fabrications from horizontal to vertical and down to horizontal (180°) as needed. The hinged hoisting eye allows for the clamp to place and lift the load from any direction, or with a multiple leg sling without side-loading the clamp.

- Universal - For Lifting in any Direction
- Available in capacities of 0.5 through 30 metric tons
- Wide variety of jaw openings available: 0" to 6.13"
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required
- Individually Proof Tested to 2 times the Working Load Limit with certification
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. Serial number is included on the test certificate with maintenance and warranty logbook
- Full 180° turning range for material transfer, turning or moving
- Lock open, lock closed ability with latch for pretension on material and then release of material
- Maintenance replacement kits are available.



MINIMUM WLL IS 10%  
OF MAXIMUM WLL



IPHI0E Horizontal Clamps 0-2.36 Jaw Opening											
WLL-Pair	B	C	E	F	G	H	J	K	L	Wt.	Item
2.00	4.61	0.63	0.87	4.29	10.10	4.33	0.79	1.58	0.35	12.1	2703542
3.00	4.61	0.79	1.02	4.29	10.50	4.73	0.79	1.89	0.43	16.5	2703543
4.50	5.2	0.99	1.18	4.10	11.00	5.12	0.79	1.89	0.47	23.2	2703544
6.00	5.63	0.99	1.42	4.85	12.60	5.12	0.79	1.89	0.55	28.7	2703545
9.00	6.19	1.18	1.69	5.24	13.00	5.52	0.99	2.44	0.63	40.8	2703546
12.00	6.78	1.18	1.85	5.56	13.90	5.91	0.99	2.44	0.67	47.4	2703547

IPHI0JE Horizontal Clamps 2.36-4.73 Jaw Opening											
WLL-Pair	B	C	E	F	G	H	J	K	L	Wt.	Item
3.00	6.97	0.79	1.02	4.29	10.50	4.73	0.79	1.89	0.43	19.8	2703553
4.50	7.56	0.99	1.18	4.10	11.00	5.12	0.79	1.89	0.47	6.5	2703554
6.00	8	0.99	1.42	4.85	12.60	5.12	0.79	1.89	0.56	33	2703555
9.00	8.55	1.18	1.69	5.24	13.00	5.52	0.99	2.44	0.63	45.2	2703556
12.00	9.14	1.18	1.85	5.56	13.90	5.91	0.99	2.44	0.67	25.9	2703557

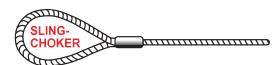
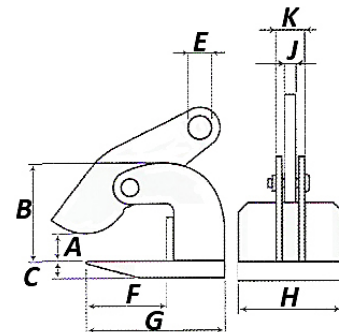
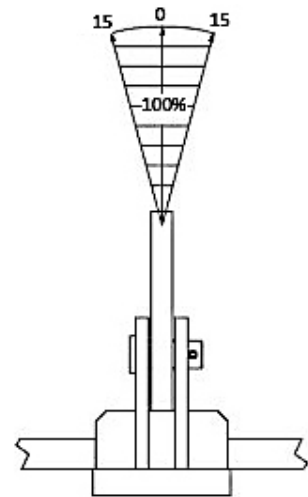
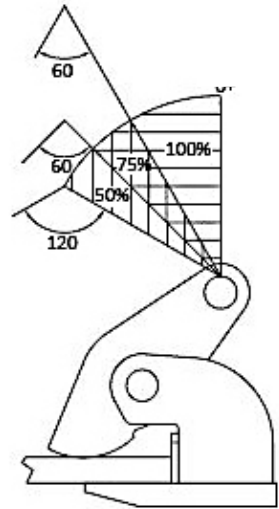
CRIPHOZ Horizontal Clamp (Sagging)											
WLL-Pair	Jaw A	B	C	E	F	G	H	J	K	Wt.	Item
0.75	0-1.19	3.70	0.63	0.63	2.76	4.65	3.19	0.47	0.47	6.6	2705401
1.50	0-1.75	5.24	0.63	0.87	4.92	7.56	3.94	0.63	0.47	12.1	2705402
3.00	0-1.75	5.39	0.79	1.02	4.92	7.87	4.72	0.79	0.39	17.6	2705403
4.50	0-1.75	5.43	0.98	1.18	4.96	8.66	4.72	0.79	0.39	18.7	2705404
6	0-2.38	3.76	1.18	1.42	5.31	9.25	5.12	0.79	0.79	34.2	2705405
9	0-2.38	8.31	1.18	1.69	6.54	10.87	6.30	0.98	0.79	45.2	2705406
12	0-2.38	8.54	1.57	1.85	6.61	11.57	7.48	0.98	0.75	83.8	2705407
15	0-2.38	8.66	1.57	1.85	7.20	12.48	9.84	0.98	0.87	83.8	2705408

## IPHTONZ Horizontal Lifting & Transfer Plate Clamps

**2703542 - 2703547**  
**2703553 - 2703557**  
**2705401 - 2705408**

The IPHTONZ horizontal lifting clamps are for use in the lifting and transfer in horizontal position of non-sagging materials or of bundles of non-sagging material. These clamps must be used in pairs or more

- For Non Sagging materials
- Available in capacities of 0.75 through 25 metric tons
- Wide variety of jaw openings available: 0" to 4"
- Welded alloy steel body for strength and smaller size. Forged alloy components, where required
- Individually Proof Tested to 2 times the Working Load Limit with certification
- Company name (Crosby IP), logo, Working Load Limit and jaw opening permanently stamped on body
- Each product is individually serialized, with the serial number and Proof Load test date stamped on body. Serial number is included on the test certificate with maintenance and warranty logbook





Universal Vertical Plate Lifting Clamp			
Capacity	Opening	Wt.	Item
0.8	0-15mm	4	GSIPU-008
1.6	1-20mm	17	GSIPU-016
3.2	0-25mm	102	GSIPU-032
8.0	0-45mm	75	GSIPU-080
12.0	0-54mm	103	GSIPU-120

## Universal Vertical Plate Lifting Clamp

### GSIPU-008 - 120

- Individually proof tested to 2x the WLL
- Universal eye for lifting in any direction
- Lock open or closed

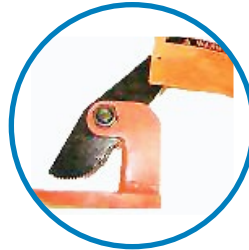


Horizontal Plate Clamp		
WLL per Pair	Opening	Item
1.5 ton	0 - 2 3/8	GSIPHONZ-015
3 ton	0 - 2 3/8	GSIPHONZ-03

## Horizontal Plate Clamp

### GSIPHONZ-015 - 03

- Individually proof tested to 2x the WLL
- Must be used in pairs



Load Leveler (WLL 6,000 Lbs.)	
Description	Item
Load Leveler. 30" Min Length, 46" Max.	OTC-1812

## Load Leveler

### OTC-1812

- Improved design over conventional spreader bars
- Carriage on main support beam moved by turning lead screw; this permits fine adjustment of the tilt angle of component being lifted
- Turn lead screw manually or with air-powered tools
- Spreader bar adjustment secured with locking bolts
- Max. lifting capacity: 6,000 lbs.; distance between hooks: min. 30", max. 46"; chain grade: 80

Spare Jaw	
Ton	Item
0.8	GSIPU-J008
1.6	GSIPU-J016
3.2	GSIPU-J032
8	GSIPU-J080
12	GSIPU-J120

Lock Handle & Spring	
Ton	Item
0.8	GSIPU-LHS008
1.6	GSIPU-LHS016
3.2	GSIPU-LHS032
8	GSIPU-LHS080
12	GSIPU-LHS120

Spare Pivot & Bolt	
Ton	Item
0.8	GSIPU-PB008
1.6	GSIPU-PB016
3.2	GSIPU-PB032
8	GSIPU-PB080
12	GSIPU-PB120

Spare Jaw Pin	
Ton	Item
0.8	GSIPU-JP008
1.6	GSIPU-JP016
3.2	GSIPU-JP032
8	GSIPU-JP080
12	GSIPU-JP120

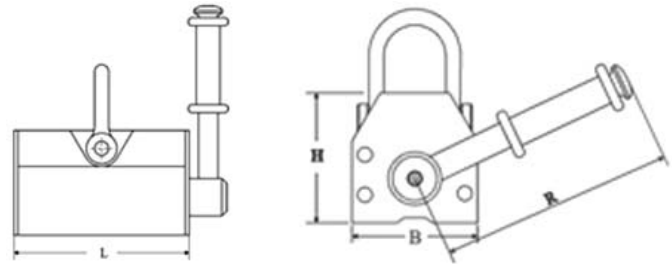
## Universal Vertical Plate Lifting Clamp Spare Parts

### GSIPU-J/LH/PB/JP008 - J/LH/PB/JP120

- J - Spare Jaw
- LH - Lock Handle & Spring
- PB - Pivot & Bolt
- JP - Jaw Pin



Permanent Lift Magnets								
Horizontal Load Capacity (kg)	Horizontal [Max.] Breakaway Force (kg)	Round Bar or Vertical Capacity (kg)	Dimensions (mm)				Weight (kg)	Part Number
			L	B	H	R		
100	350	30	92	66	70	145	3	PML-100
300	1050	100	165	88	96	176	10	PML-300
600	2100	200	236	118	120	219	23	PML-600
1000	3500	300	264	172	168	285	54	PML-1000
2000	7000	600	378	223	216	462	130	PML-2000



Reduction of capacity for material type	% of capacity
Temperature < 80°C	100%
Humidity < 80%	100%
Low Carbon Steel	100%
St 52	95%
Alloy Steel	80%
High Carbon Steel	70%
Cast Iron	45%
Nickel	45%
Austenitic Stainless Steel	0%
Brass	0%
Aluminium	0%

## Permanent Magnet Lifters

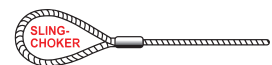
### PML-100 - PML-2000

Prior to operation, any rust and any debris must be removed from the components surface.

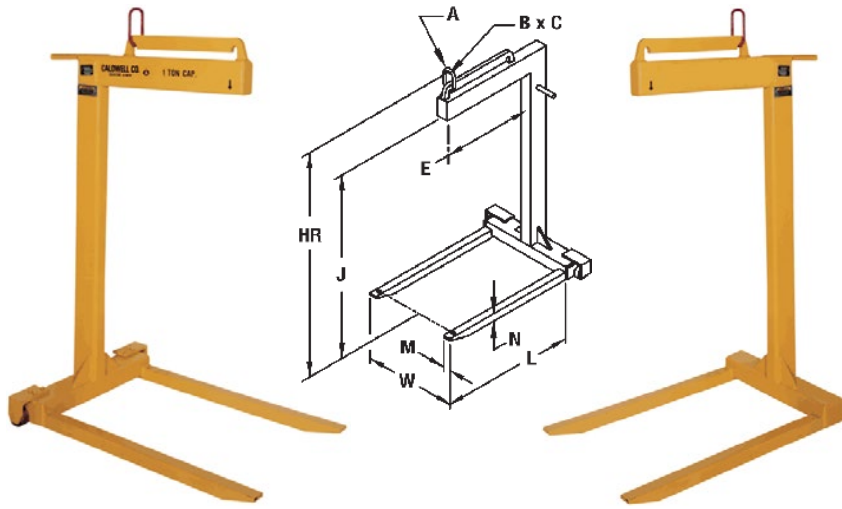
Full lifting capacity is only achieved when the lifting magnet has complete contact with the item being lifted. Performance will be affected if the surface of the materials to be lifted contains holes or is uneven. Some materials will have differing abilities to carry magnetism. Apart from mild steel, a reduction factor needs to be applied so that the clamping force can be effectively calculated.

- Operating temperature maximum 80°C.
- Other sizes available on request.

Permanent Lift Magnets Flat & Round Material Handling							
Part Number	Maximum Capacity SWL (kg)	Flat Material		Maximum Capacity SWL (kg)	Round Material		Tear off Force (kg)
		Minimum Thickness (mm)	Maximum Length of Material (mm)		Diameter (mm)	Maximum Length of Material (mm)	
PML-100	100	30	2000	30	200-300	2000	350
PML-300	300	40	2500	100	200-300	2500	1050
PML-600	600	50	3000	200	200-400	3000	2100
PML-1000	1000	60	3500	300	200-400	3500	3500
PML-2000	2000	70	3500	600	200-400	3500	7000



CW-93W Wheeled Pallet Lifter												
Cap	L (in.)	M (in.)	N (in.)	W (in.)	E (in.)	A (in.)	B (in.)	C (in.)	J (in.)	HR (in.)	WT	Item
1 Ton	36	2	2	25	24	1/2	2.50	3.75	48	60	245	CW-93W-01-48
2 Ton	36	4	2	25	24	3/4	2.75	4.50	48	62	405	CW-93W-02-48



## CW-93W Wheeled Pallet Lifter

### CW-93W-01-48 - 02-48

Wheels allow for movement of unit without crane. Dual lift points eliminates need for counterweights. Extremely lightweight for ease of handling. Complies with ASME Standards.

## CW-94 Lightweight Pallet Lifter

### CW-94-1-48 - 3-48

Dual lift points eliminates need for counterweight. Extremely lightweight for ease of handling

Maintenance free — No moving parts. Complies with ASME Standards.

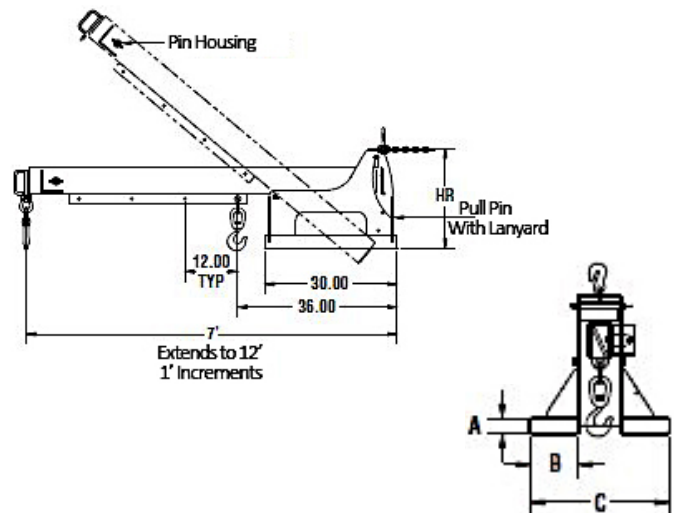
CW-94 Lightweight Pallet Lifter												
Cap	L (in.)	M (in.)	N (in.)	W (in.)	E (in.)	A (in.)	B (in.)	C (in.)	J (in.)	HR (in.)	WT	Item
1 Ton	36	2	2	25	24	1/2	2.50	3.75	48	58	245	CW-94-1-48
2 Ton	36	4	2	25	24	3/4	2.75	4.50	48	62	425	CW-94-2-48
3 Ton	36	4.5	2.5	27	24	1	3.50	5.00	48	65	610	CW-94-3-48

CW-PB Telescopic Pivoting Fork Lift Boom													
3'-6' Cap. Lbs.	A (in.)	B (in.)	C (in.)	HR (in.)	O (in.)	Maximum Capacity @ Hook Position (Lbs.)						Wt. Lbs.	Item
						7'	8'	9'	10'	11'	12'		
3,000	2-1/2	7-1/2	22-1/2	22-5/8	1.00	3,000	2,600	2,200	1,900	1,600	1,500	350	CW-PB-30
4,000	2-1/2	7-1/2	22-1/2	22-5/8	1.09	3,200	2,600	2,200	1,900	1,600	1,500	350	CW-PB-40
6,000	2-1/2	7-1/2	22-1/2	22-5/8	1.36	5,000	4,200	3,500	3,000	2,700	2,500	420	CW-PB-60
8,000	2-1/2	7-1/2	22-1/2	22-5/8	1.61	7,000	5,700	4,800	4,100	3,600	3,100	540	CW-PB-80

## CW-PB Telescopic Pivoting Forklift Boom

### CW-PB-30 - 80

The Pivot Boom, Model PB, has a telescoping boom with a maximum horizontal reach of 12 feet. This model is available in 3,000, 4,000, 6,000 and 8,000 lb. capacities. The versatile Model PB is adjustable vertically in five increments up to a maximum of 40 degrees.



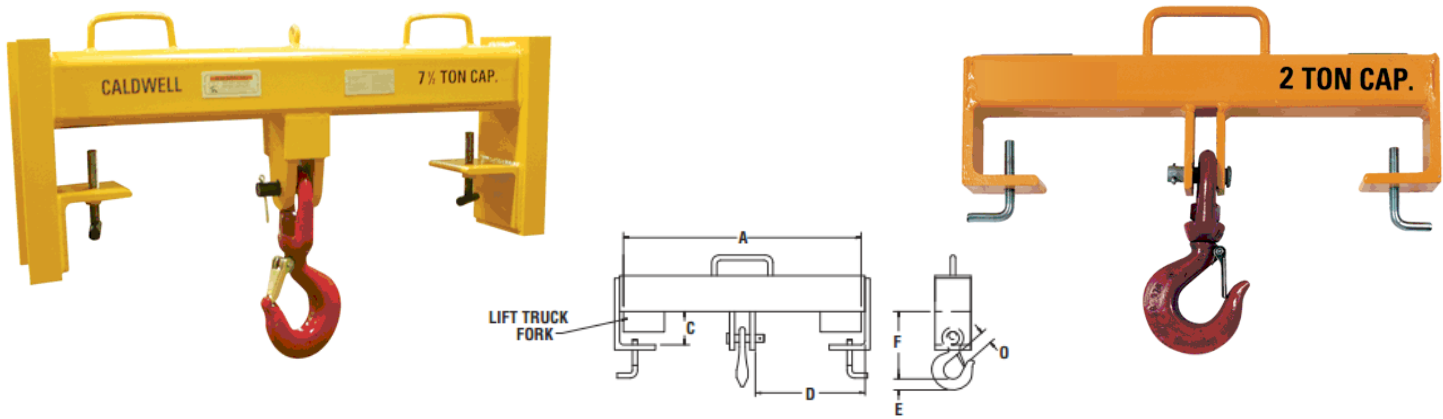
CW-M10 Single Hook Forklift Beam - Swivel Hook								
Cap. (lbs.)	A (in.)	C (in.)	D (in.)	F- Swivel) (in.)	E (in.)	O (in.)	Wt. (lbs.)	Item
4,000	20	3 1/4	9 1/8	8 7/8	1 1/8	1 5/32	21	CW-M10S-02-20
10,000	24	3 1/4	10 3/4	11 7/16	1 13/16	1 11/16	42	CW-M10S-05-24
10,000	36	3 1/4	16 3/4	11 7/16	1 13/16	1 11/16	80	CW-M10S-05-36
15,000	36	4 1/4	16 1/4	15 3/4	2 1/4	2 7/32	166	CW-M10S-07.5-36
20,000	36	4 1/4	16	16 7/16	2 19/32	2 13/32	180	CW-M10S-10-36
30,000	36	4 1/4	15 7/8	16 5/16	2 19/32	2 13/32	210	CW-M10S-15-36

## Single Hook Forklift Beam w/ Swivel Hook

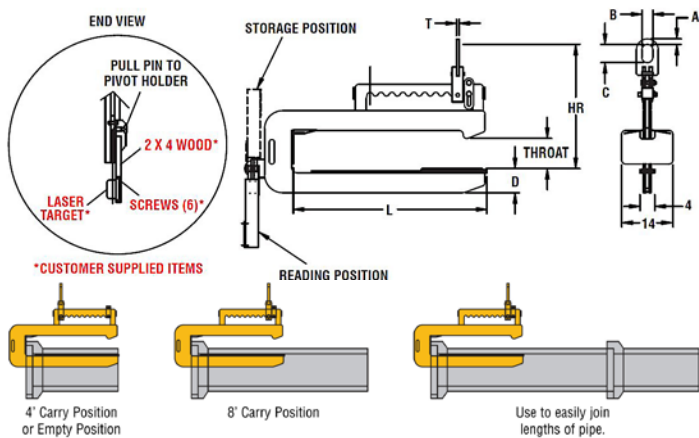
### CW-M10S-10-36 - M30-10-24

Caldwell Forklift beams are specifically designed to make fork lifts more versatile by providing positive handling of loads otherwise impractical for fork lifts.

- Easy attachment, no special wrenches or tools required
- Strong & Sturdy—all welded construction
- Easy to see, highly visible yellow paint
- Custom designs are available



CW-CPL Leveling Pipe Lifter											
WLL Lbs.	Min. Pipe Diameter	Throat In.	Arm "D"	Arm Length- In.	HR Headroom	A In.	B In.	C In.	T In.	Wt. Lbs.	Item
3,000	8"	8"	6.62	53	33.8	1.5	3	5	0.75	300	CW-CPL-01
6,000	10"	8"	6.87	53	35.63	1.5	3	5	1	500	CW-CPL-03
9,000	10"	8"	7.44	54	37.31	2	4	7	1.25	700	CW-CPL-04
12,000	12"	8.5"	8.38	54.5	39.25	2	4	7	1.25	750	CW-CPL-06
18,000	12"	10"	8.25	55	41.63	2	4	7	1.25	1100	CW-CPL-09
30,000	14"	12"	10.75	58	48.12	2.5	4	7	1.5	1550	CW-CPL-15

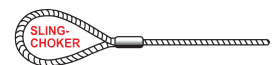


## CW-CPL Leveling Pipe Lifter

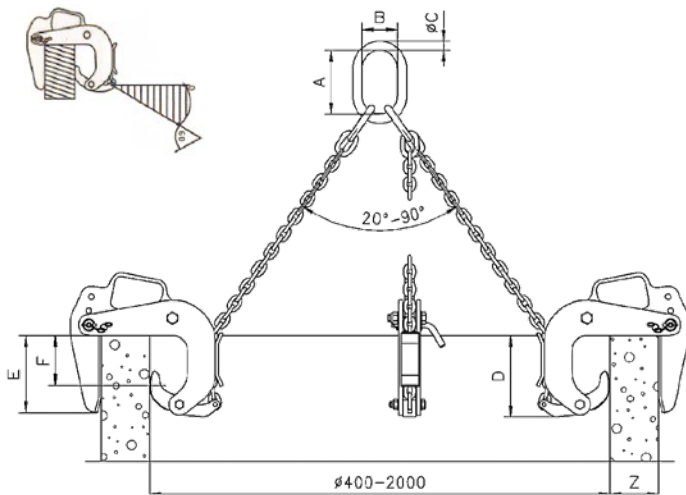
### CW-CPL-01 - 15

- Lets you place and position concrete pipe up to 8' In length
- Stand up leveling bail adjusts for carrying pipe lengths. Adjustable bail stop makes repetitive lifts easier
- Pipe stop helps drive the pipe into position
- Built in laser target holder allows operator to set and laser position at the same time. Laser target, 2x4's and screws not included
- Complies with ASME Standards

180



CM-BTG - Concrete Pipe Lifting Clamp									
WLL kg'S	Z Jaw MM	E Mouth Depth MM	F Lift Line MM	A MM	B MM	C MM	D MM	Wt. Kgs.	Item
1,500	40-12	165	100	135	75	18	180	75	CM-BTG-1500
3,000	50-180	245	175	180	100	26	310	172	CM-BTG-3000



Manhole Sleeve Lifter		
WLL	WT	Item
1,000	25	CW-MCL-1/2
1,500	30	CW-MCL-3/4

## LTC Series Concrete Pipe Fitting Clamp

### CM-BTG-1500 - 3000

The BTG concrete pipe lifting clamps are sold in sets of three and they come complete with chain slings (the working load limits shown are based on a set of three clamps).

They are designed for the vertical transportation of concrete pipe sections with a diameter of up to 2000mm. The jaw capacity is designed for pipe thickness of 40 - 200mm. Attachment and removal of the clamps from the pipes is extremely easy due to the simple and straightforward design.

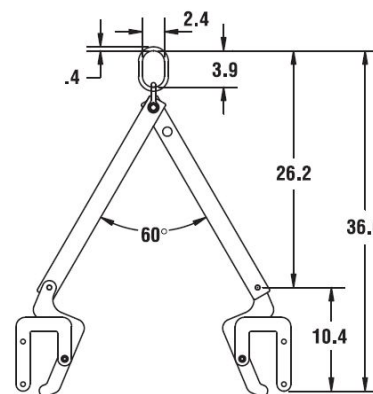


## Manhole Sleeve Lifter

### CW-MCL-1/2 - 3/4

Quick and efficient way to place cast manhole sleeves. Easily attaches to and releases from the load.

Complies with ASME Standards

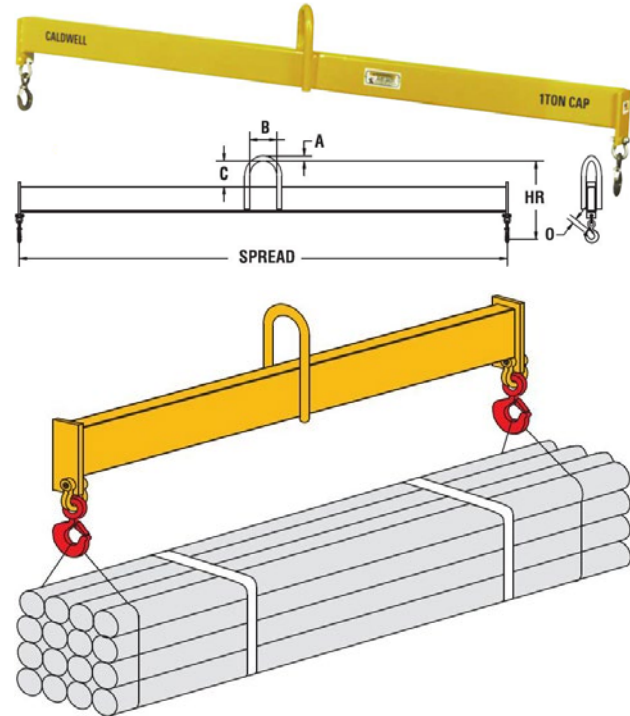


CW-M19 Fixed Spread Lifting Beam								
Cap Tons	Spread Feet	A (in.)	B (in.)	C (in.)	H (in.)	HR (in.)	Wt. (lbs.)	Item
1/2	2	0.75	3	5	0.875	13.31	20	CW-M19-1/2-2
1/2	3	0.75	3	5	0.875	13.31	26	CW-M19-1/2-3
1/2	4	0.75	3	5	0.875	13.31	33	CW-M19-1/2-4
1/2	6	0.75	3	5	0.875	13.31	48	CW-M19-1/2-6
1/2	8	0.75	3	5	0.875	13.31	75	CW-M19-1/2-8
1/2	10	0.75	3	5	0.875	14.31	93	CW-M19-1/2-10
1	2	1	6	5	0.89	14.31	26	CW-M19-1-2
1	3	1	6	5	0.89	14.31	35	CW-M19-1-3
1	4	1	6	5	0.89	14.31	44	CW-M19-1-4
1	6	1	6	5	0.89	15.31	72	CW-M19-1-6
1	8	1	6	5	0.89	15.31	93	CW-M19-1-8
1	10	1	6	5	0.89	15.31	131	CW-M19-1-10
2	3	1	6	5	1	16.75	45	CW-M19-2-3
2	4	1	3	5	1	16.75	55	CW-M19-2-4
2	6	1	3	5	1	19.75	89	CW-M19-2-6
2	8	1	3	5	1	19.75	114	CW-M19-2-8
2	10	1	3	5	1	19.75	138	CW-M19-2-10
3	3	1.5	6	5	1	18	58	CW-M19-3-3
3	4	1.5	6	5	1	20	87	CW-M19-3-4
3	6	1.5	6	5	1	20	118	CW-M19-3-6
3	8	1.5	6	5	1	20	222	CW-M19-3-8
3	10	1.5	6	5	1	20	272	CW-M19-3-10

## CW-M19 Fixed Spread Lifting Beam

### CW-M19-1/2-2 - 3-10

- Fixed spread. Provides clearance in low headroom applications
- Eye hooks with hook latches standard
- Designed and manufactured to ASME B30.20

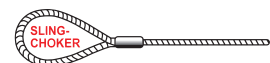
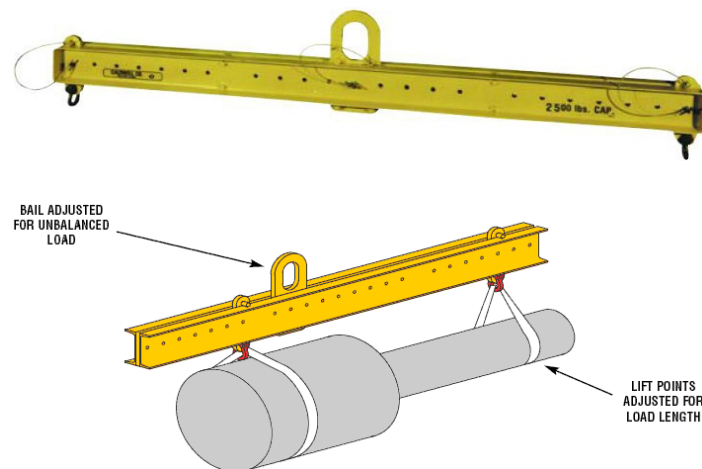
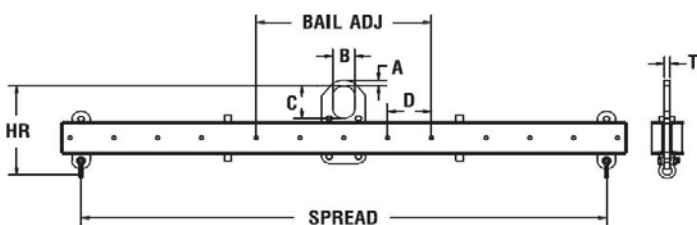


CW-M17 Adjustable Lifting Beam													
Capacity Ton	Spread		Bail		Headroom (in.)	Shackle Tons	A	B	C	T	Wt.	Item	
	Max	Min	Range	D									
1.25	72	36	24	3	14.7	2	1.5	3	5	0.625	150		CW-M17-01
2	72	36	24	3	14.7	2	1.5	3	5	0.625	155		CW-M17-02
4	96	54	36	3	19.8	3.25	2	4	7	0.75	285		CW-M17-04
5	120	60	36	3	19.8	3.25	2	4	7	0.75	475		CW-M17-05

## CW-M17 Adjustable Lifting Beam

### CW-M17-01 - 04

- Bail adjusts horizontally for lifting unbalanced loads
- Provides clearance in low headroom applications
- Spread adjusts in 6" increments along lifting beam, shackles included
- Designed and manufactured to ASME B30.20

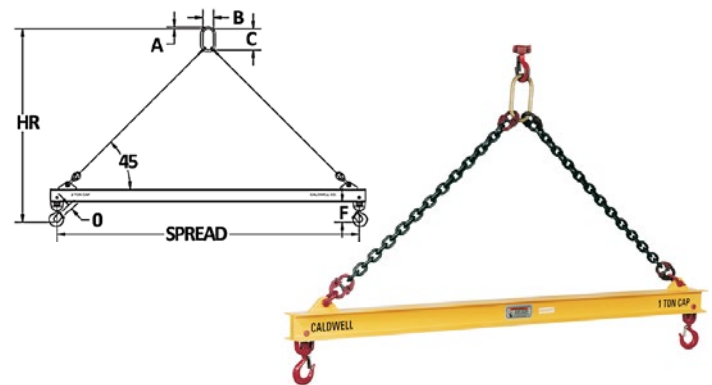


Model 30 - Fixed Spreader Beams											
Cap. Tons	Item #	Spread Feet								Other	
		4 Foot	6 Foot	8 Foot	10 Foot	12 Foot	16 Foot	20 Foot	24 Foot	Dimensions	
2	Item #	CW-M30-02-04	CW-M30-02-06	CW-M30-02-08	CW-M30-02-10	CW-M30-02-12	CW-M30-02-16	CW-M30-02-20	CW-M30-02-24	A = 1/2	F = 4-1/4
	Head-room	34	46	58	70	82	106	132	156	B = 2-1/2	O = 31/32
	Weight	45	60	82	95	115	225	408	445	C = 5	
5	Item #	CW-M30-05-04	CW-M30-05-06	CW-M30-05-08	CW-M30-05-10	CW-M30-05-12	CW-M30-05-16	CW-M30-05-20	CW-M30-05-24	A = 1	F = 6
	Head-room	37	49	61	73	83	110	134	158	B = 3-1/2	O = 1-1/16
	Weight	62	78	100	117	168	305	435	661	C = 7	
10	Item #	CW-M30-10-04	CW-M30-10-06	CW-M30-10-08	CW-M30-10-10	CW-M30-10-12	CW-M30-10-16	CW-M30-10-20	CW-M30-10-24	A = 1-1/4	F = 8-1/8
	Head-room	41	53	64	77	86	113	138	163	B = 4-3/8	O = 1-1/2
	Weight	100	122	156	180	240	380	532	915	C = 8-3/4	
15	Item #	CW-M30-15-04	CW-M30-15-06	CW-M30-15-08	CW-M30-15-10	CW-M30-15-12	CW-M30-15-16	CW-M30-15-20	CW-M30-15-24	A = 1-1/2	F = 9-1/4
	Head-room	43	55	65	80	92	116	140	167	B = 5-1/4	O = 1-3/4
	Weight	126	155	185	242	270	420	665	953	C = 10-1/2	

## CW-M30 Fixed Spreader Beam

### CW-M30-02-04 - 20-24

- Ideal where headroom is not limited and adds stability to lift
- Available with standard chain or wire rope rigging
- Available with Adjust-A-Leg® rigging for off center load adjustment (minimum lifting capacity will be approx. 10-15% of beam rating)
- Wide range of additional sizes and capacities available
- Complies with ASME standards
- Available: Up to 40 tons and 24' Long



## CW-MH90 Fixed Height Gantry

- Adjustable span standard on 10'-16' spans
- 1 through 5 tones
- Bolted connections on spans of 20'-24' and all 8 ton units
- Balanced design allows for easy rolling, even under load
- Conforms to AISC, OSHA, and CMAA specifications
- Simple bolt together construction, 4 - steel swivel casters standard

## CW-MKA90 Aluminum Gantry With Adjustable Height & Span

The all aluminum gantry is perfect for applications where crane weight is critical

- Balanced design allows for easy rolling, even under load
- Conforms to AISC, OSHA, and CMAA specifications
- Bolt together construction & easy set up and maintenance
- 4 poly-coated swivel casters
- Span adjustability with height adjustable from max in 6" increments

# JIB CRANES

## The Most Extensive Product Line in North America



O'Brien offers one of North America's largest ranges of jib cranes. A technical data book of standard jib crane solutions from up to 40,000 lbs capacity is available on request. Specially engineered jib cranes are produced in capacities of up to 80,000 lbs.

The two basic formats of jib cranes are free standing and wall mounted, each of which may be equipped with chain or wire rope hoists. We offer under and over braced jib arms to maximize lift or travel.

Free standing jib cranes can be constructed for maximum slewing angles of 360 degrees. We offer a variety of fixing solutions including anchor bolts and wall plates.

As a licensed partner with Vetter Krantechnik since 1985, we have been providing the best quality jib cranes in North America.

**Licensed Partner**

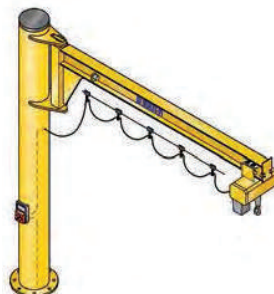


## FEATURES

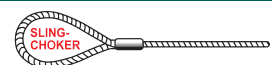
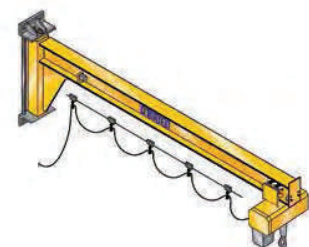
- Capacities up to 80,000 lbs
- Outreach ranges up to 65 ft
- Mast heights up to 40 ft
- Degree of rotation up to 360°
- Independent head assembly for ease of installation
- Mounting styles include standard or direct mount base plate, which needs no concrete foundations
- Custom solutions available

## CONFIGURATIONS

O'Brien Free Standing Jib Crane



O'Brien Wall Mounted Jib Crane





# HOISTS

## The Most Reliable Lifting Components



O'Brien offers a wide variety of hoists to suit your needs. From 0.25 to 200 tonnes capacity we offer a complete line of electric chain and wire rope hoists.

Our exclusive partnership with Street Crane allows us to offer you the world's most comprehensive range of advanced hoists. Their hoists are known for worldwide quality and reliability.



### STREET LX ELECTRIC CHAIN HOIST

Most of our lifting and transportation solutions for light loads are powered by the Street LX electric chain hoist, which provides precision lifting and durability at a very competitive price. The LX hoist is designed to meet the need for ultra efficient lifting and material handling in today's competitive environment. This new generation hoisting technology is based on a highly modular and versatile concept with a significant number of hoist and trolley constructions.

### FEATURES

- Capacities up to 5 tonnes
- Variety of supply voltage and speed options available
- Ideal for light lifting demands
- Efficient handling
- Designed for applications with lug suspension or powered, push or hand geared trolley
- Quick release electrics with plug and sockets for crane applications

# WORKSTATION CRANES

## Kit Form Cranes Fabricated to Your Specification



O'Brien MET-TRACK Floor Mounted Workstation Bridge Crane

O'Brien MET-TRACK® workstation cranes enable you to achieve effortless and reliable area-serving overhead handling for a wide variety of applications. Each system is configured with the operator in mind and includes the principle feature of ease of movement, designed to reduce fatigue and ensure accurate load positioning.

Floor mounted systems are not a permanent part of your factory and therefore can easily be relocated in the future. The installation is often much simpler and does not apply stresses to the building roof structure.

Quality materials and construction ensure operational reliability and safety and facilitate long life combined with minimum maintenance.

All workstation crane products come with a 5 year or 10,000 hour use warranty from date of the shipment for defects in material and workmanship.

### Licensed Partner



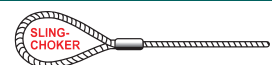
## FEATURES

- Capacities up to 4,000 lbs
- Bridge lengths up to 34 ft
- Runway supports up to 30 ft
- Modular kit form
- Low cost
- 5 year warranty
- Simple to install and/or extend
- All kits individually sized to suit exact space requirements
- Rigid runways offer superior load positioning
- Enclosed track provides easy movement and long life • Installs on any standard 6" concrete floor
- Multiple track profiles and span capabilities

## CONFIGURATIONS

O'Brien MET-TRACK Floor Mounted Workstation Crane

O'Brien MET-TRACK Ceiling Mounted Workstation Crane



As dedicated rigging and hoisting specialists, **Sling-Choker Mfg.** ensures that you have access to the biggest names in the industry - innovative and traditional. By directly supplying a full range of products from brands like...

**Columbus McKinnon, Kito, O'Brien, Caldwell, & Demag**

we aim to provide you with complete supply solutions that fulfill all your requirements.

This product showcase is a testimony to what we can do for you - be your trusted source for your growing industrial needs, because at Sling-Choker, we do **more than you think.**

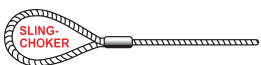


# INSPECTIONS

CRANES DOORS PUMPS SLINGS

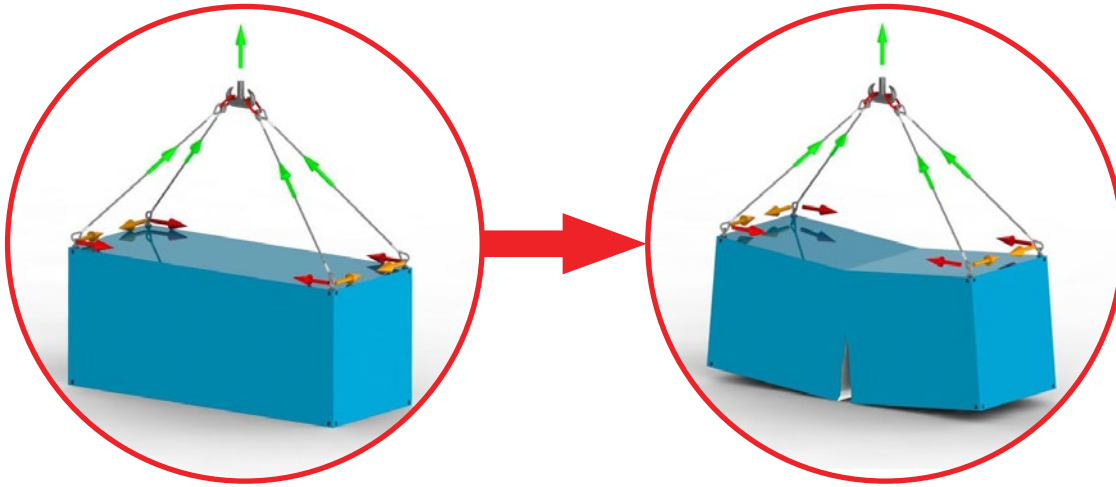


Available at select branches, we ensure your products keep working for you after you put them in the field. Our qualified and experienced team members will ensure you are operating safely and efficiently with as little downtime as possible. Contact us today to see what ongoing services we can offer you and your products.



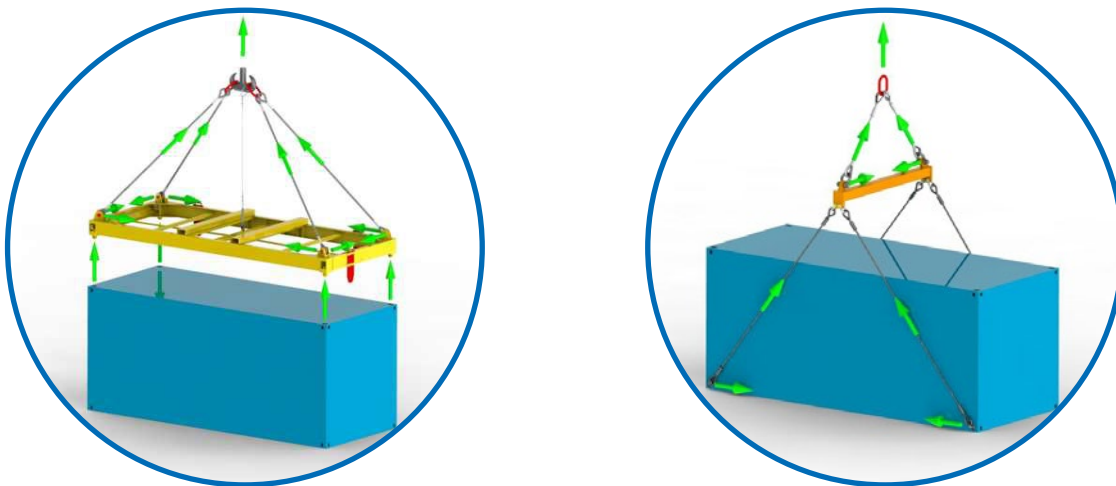
## Lifting Containers Without a Spreader System

A typical 4-legged sling, attached to the four top corners of a container induces compression loads in the roof plane of the container, especially lengthwise. Containers are not designed to take this compression load at the roof plane in a lengthwise direction. The actual strength of the roof varies from container to container, depending on the manufacturer, age, size ... Therefore it is possible that several lifts are made with only a 4-legged sling, and that no particular problem is noticed. The operator is lured into believing that this is a safe way of handling the containers. However, due to this practice, unseen damage is done to the container and every lift can lead to the instant breaking of the container.



## Lifting Containers With a Spreader System

When using a spreader system, the compression load is no longer induced on the roof of the container, but directly onto the spreader. The top frame of the container is thus free of compression loads. The container is now lifted vertically, which is the only configuration for top lifting allowed by the international standard (ISO 1496). The use of a spreader also has several other advantages, such as quicker handling of the containers and less operators required.



### Inspection Classification (21-1.3.1)

(a) Initial Inspection. Prior to initial use, all new, altered, or modified hoists shall be inspected by a designated person to verify compliance with the applicable provisions of this volume.

(b) Inspection Procedures. Inspection procedures for hoists in regular service are divided into two general classifications based upon the intervals at which inspection should be performed. The intervals in turn are dependent upon the nature of the critical components of the hoist and the degree of their exposure to wear, deterioration, or malfunction. The two general classifications are herein designated as frequent and periodic, with respective intervals between inspections as defined below.

(1) Frequent Inspection. Visual examinations by the operator or other designated person with records not required.

(a) normal service — monthly

(b) heavy service — weekly to monthly

(c) severe service — daily to weekly

(d) special or infrequent service — as recommended by a qualified person before and after each occurrence

(2) Periodic Inspection. Visual inspection by a designated person who makes records of external conditions to provide the basis for a continuing evaluation. An external coded mark on the hoist is an acceptable identification in lieu of records. (A metal stamp mark shall not be made in a highly stressed area.)

(a) normal service — yearly.

(b) heavy service — semiannually. If external conditions indicate, disassembly should be done to permit detailed inspection.

(c) severe service — quarterly. If external conditions indicate, disassembly should be done to permit detailed inspection.

(d) special or infrequent service — as recommended by a qualified person before the first such occurrence and as directed by the qualified person for any subsequent occurrences.

### Frequent Inspection (21-1.3.2)

(a) Frequent inspections shall be performed at intervals defined in para. 21-1.3.1(b)(1) and shall include observations during operation/

(b) A designated person shall determine whether conditions found during the inspection constitute a hazard and whether a more detailed inspection is required.

(c) The following items shall be inspected:

(1) operating mechanisms for proper operation, proper adjustment, and for unusual sounds such as, but not limited to, binding noise of the chain, bearing squeal

(2) hooks in accordance with ASME B30.10, frequent inspection

(3) hook latches, if used, for proper operation

(4) load chain in accordance with para. 21-1.6.1(c) or 21-1.7.1(c)

(5) load chain reeving for compliance with the recommendations of the hoist manufacturer or a qualified person

(6) hoist lever for bends, cracks, or other damage

(7) damage to the support for the hoist

### Periodic Inspection (21-1.3.3)

(a) Periodic inspections shall be performed at intervals defined in para. 21-1.3.1(b)(2). These inspections may be performed with the hoist at its location, and do not require the hoist to be disassembled.

(b) Covers and other items normally supplied to allow inspection of components should be opened or removed for the inspection and then closed or replaced before restoring the hoist to normal operation unless further maintenance is required.

(c) A designated person shall determine whether conditions found during inspection constitute a hazard and whether disassembly is required.

(d) The following items shall be inspected:

(1) the items listed in para. 21-1.3.2

(2) fasteners for evidence of loosening

(3) load blocks, suspension housings, levers, chain attachments, clevises, yokes, suspension bolts, shafts, gears, bearings, pins, rollers, and locking and clamping devices for evidence of wear, corrosion, cracks, and distortion

(4) hook retaining nuts or collars, and pins; welds or rivets used to secure the retaining members for evidence of damage

(5) load sprockets or idler sprockets for evidence of damage and wear

(6) the brake mechanism on friction brake hoists for evidence of worn, glazed, or oil contaminated friction disks; worn pawls, cams, or ratchets; corroded, stretched, or broken pawl springs

(7) supporting structure or trolley, if used, for evidence of damage

(8) labels, required by para. 21-1.1.4, for legibility and replacement

(9) end connections of load chains for evidence of wear, corrosion, cracks, damage, and distortion including overtravel restraints

(10) the hoist and hoist mounting for evidence of missing items

### Hoists Not in Regular Service (21-1.3.4)

(a) A hoist that has been idle for a period of one month or more, but less than one year, shall be given an inspection conforming with the requirements of para. 21-1.2.2 before it is placed in service.

(b) A hoist that has been idle for a period of one year shall be given an inspection conforming with the requirements of para. 21-1.2.3 before it is placed in service.



### Inspection Classification (20-1.3.1)

#### (a) Initial Inspection

(1) New and reinstalled lifters shall be inspected by a designated person prior to initial use to verify compliance with applicable provisions of this volume.

(2) Altered, repaired, or modified lifters shall be inspected by a designated person. The inspection may be limited to the provisions affected by the alteration, repair, or modification, as determined by a qualified person.

#### (b) Inspection Intervals

Inspection procedure for lifters in regular service is divided into three general classifications based upon the intervals at which inspection should be performed. The intervals, in turn, are dependent upon the critical components of the lifters and the degree of their exposure to wear, deterioration, or malfunction. The three general classifications are herein designated as every lift, frequent, and periodic, with respective intervals between inspections as defined below.

(1) Every Lift Inspection. Visual examination by the operator before and during each lift made by the lifter.

(2) Frequent Inspection. Visual examinations by the operator or other designated persons with records not required.

(a) Normal Service — Monthly

(b) Heavy Service — Weekly to Monthly

(c) Severe Service — Daily to Weekly

(d) Special or Infrequent Service — as recommended by a qualified person before and after each occurrence.

(3) Periodic Inspection. Visual inspection by a qualified person making records of apparent external conditions to provide the basis for a continuing evaluation. An external code mark on the lifter is an acceptable identification in lieu of records.

(a) Normal service for equipment in place — yearly

(b) Heavy service [as in (a) above, unless external conditions indicate that disassembly should be done to permit detailed inspection] — semiannually

(c) Severe service [as in (b) above] — quarterly

(d) Special or infrequent service — as recommended by a qualified person before the first such occurrence and as directed by the qualified person for any subsequent occurrences.

### Every Lift Inspection (20-1.3.2)

Items such as the following shall be inspected by the operator before and/or during every lift for any indication of damage as specifically indicated, including observations during operation for any damage that might occur during the lift:

(a) Surface of the load for debris

(b) Condition and operation of the controls

(c) condition and operation of the indicators and meters when installed

### Frequent Inspection (20-1.3.3)

Items such as the following shall be inspected for damage at intervals as defined in para. 20-1.3.1(b)(2), including observations during operation for any indications of damage that might appear between inspections. A qualified person shall determine whether any indications of damage constitute a hazard or will require more frequent inspection. For all lifters, inspect:

(a) Structural members for deformation, cracks, or excessive wear on any part of the lifter

(b) Loose or missing guards, fasteners, covers, stops, or nameplates

(c) all functional operating mechanisms and automatic hold-and-release mechanisms for misadjustments interfering with operation

### Periodic Inspection (20-1.3.4)

Complete inspection of the lifter shall be performed at intervals defined in para. 20-1.3.1(b)(3). Any deficiencies, such as listed below, shall be examined and determination made as to whether they constitute a hazard. These inspections shall include the requirements of para. 20-1.3.3 and, in addition, items such as the following:

(a) loose bolts or fasteners

(b) cracked or worn gears, pulleys, sheaves, sprockets, bearings, chains, and belts

(c) excessive wear of friction pads, linkages, and other frictional parts

(d) excessive wear at hoist hooking points and load support clevises or pins

### Lifting Devices Not in Regular Use (20-1.3.5)

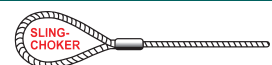
A lifter that has been idle for a period of one month or more is to be given an inspection in accordance with para. 20-1.3.3 before being placed in service.

### Inspection Records (20-1.3.6)

Dated inspection reports shall be made on critical items such as those listed in para. 20-1.3.4. Records should be available to appointed personnel for each periodic inspection and when the lifter is either modified or repaired.

### Repairs (20-1.3.7)

Any indications of damage disclosed by the inspection requirements of Section 20-1.3 shall be corrected according to the procedures outlined in para. 20-1.3.9 before operation of the lifter is resumed.





# RopePRO

RopePRO, a Sling-Choker brand, is our product line dedicated to providing the highest quality of natural & synthetic rope that you can expect, Containing various cords & ropes, RopePRO carries a wide selection to fit your needs, including winch, binding, and descending lines, in addition to any heavy duty accessory you'll need.

Manila Rope				
Dia	Dia	Bale Length	NBL	Item
1/4"	6.4mm	1,250	540	RPMAN-004
5/16"	7.9mm	1,725	900	RPMAN-005
3/8"	9.5mm	1,220	1,220	RPMAN-006
1/2"	12.7mm	600	2,385	RPMAN-008
5/8"	16mm	600	3,960	RPMAN-010
3/4"	19mm	600	4,860	RPMAN-012
7/8"	7.9mm	600	6,930	RPMAN-014
1"	19mm	600	8,100	RPMAN-100

3 Strand Nylon Rope (Jumbo Reel)				
Dia	Spool Length	NBL	Wt./ Reel	Item
3/16"	2,125	1,000	18	RPNJ-003
1/4"	1,300	1,650	18	RPNJ-004
5/16"	975	2,550	18	RPNJ-005
3/8"	630	3,700	18	RPNJ-006
1/2"	335	6,400	18	RPNJ-008
5/8"	200	10,400	18	RPNJ-010
3/4"	125	14,200	18	RPNJ-012

3 Strand Nylon Rope (IND)				
Dia	Spool Length	NBL	Wt./ Reel	Item
1/4"	1,200	1,540	18	RPNYIND-004
5/16"	1,200	2,860	30	RPNYIND-005
3/8"	1,200	3,696	42	RPNYIND-006
1/2"	600	6,600	39	RPNYIND-008
5/8"	600	11,660	63	RPNYIND-010
3/4"	600	16,500	87	RPNYIND-012
7/8"	600	22,000	120	RPNYIND-014
1"	600	28,380	156	RPNYIND-100
1-1/8"	600	34,760	204	RPNYIND-102
1-1/4"	600	44,000	240	RPNYIND-104

Cotton Sash Cord-Reel		
Size	Reel Length	Item
#5 -5/32"	1000	RPSR05X1000
#6 -3/16"	760	RPSR06X760
#7 -7/32"	660	RPSR07X660
#8 -1/4"	500	RPSR08X500
#10 -5/16"	350	RPSR10X350
#12 -3/8"	240	RPSR12X240

Cotton Sash Cord-Hank		
Size	Hank Length	Item
#6 -3/16"	100	RPSH06X100
#7 -7/32"	100	RPSH07X100
#8 -1/4"	100	RPSH08X100
#10 -5/16"	100	RPSH10X100
#12 -3/8"	100	RPSH12X100

## Manila Rope

### RPMAN-004 - 100

Comes in 3-Strand Bales. Manila is a natural rope manufactured from selected high and medium grade fibres. Suiting many industrial needs in shipping, construction, agriculture and in paper mills where other low cost ropes can contaminate their product, our manila rope is best suited for jobs where economy, strength, and durability are required.



## 3 Strand Nylon Rope (JR)

### RPNJ-003 - 012

Comes in Jumbo Reels. Superior strength, stretches under load, UV resistant.

Common Uses: Docking, pulling, anchoring, pulley systems and winches, load bearing, and shock loads. Is chemical and UV resistant.

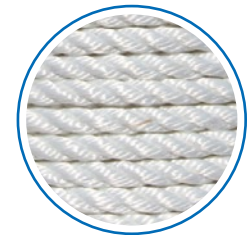


## 3 Strand Nylon Rope (IND)

### RPNYIND-004 - 112

Industrial Construction. Superior strength, stretches under load, UV resistant.

Common Uses: Docking, pulling, anchoring, pulley systems and winches, load bearing, and shock loads. Is chemical and UV resistant.



## Cotton Sash Cord Reel

### RPSR05X1000 - RPSR12X240



## Cotton Sash Cord Hank

### RPSH06X100 - RPSH16X100

100% cotton yarn. It is an excellent cord for applications where good knot tying and handling characteristics are important. It is manufactured with a solid braid, non-rotating construction.



3 Strand Polypropylene Rope (Jumbo Reel)				
Dia	Spool Length	NBL	Wt./ Reel	Item
3/16"	2,125	720	8	RPPJ-003
1/4"	1,300	1,050	8	RPPJ-004
5/16"	975	1,700	8	RPPJ-005
3/8"	630	2,450	8	RPPJ-006
1/2"	335	3,600	8	RPPJ-008
5/8"	200	5,500	8	RPPJ-010
3/4"	125	8,000	8	RPPJ-012

### 3 Strand Polypropylene Rope (JR)

#### RPPJ-003 - 012

Most economical, very light and buoyant with low stretch. High resistance to chemicals. Packaged in economical Jumbo Reels, Polypropylene Ropes are a great choice if you need an inexpensive general purpose rope.

3 Strand Polypropylene Rope (IND)				
Dia	Spool Length	NBL	Wt./ft.	Item
3/8"	1,200	2,400	0.027	RPP3-006
1/2"	1,200	4,200	0.049	RPP3-008
5/8"	1,200	5,900	0.085	RPP3-010
3/4"	1,200	8,500	0.109	RPP3-012
7/8"	1,200	12,850	0.142	RPP3-014
1"	600	14,000	0.192	RPP3-100
1-1/4"	600	21,500	0.296	RPP3-104
1-1/2"	600	30,500	0.433	RPP3-108

### 3 Strand Polypropylene Rope (IND)

#### RPP3-006 - 108

Industrial construction, with superior stranding over Jumbo Reel 3 Strand Polypropylene Rope.

Polypropylene 3 Strand Hydro One Specification						
Dia. mm	Dia. In.	Bale Length	Colour	BL	Wt.	Item
10	3/8	1,200	Orange/Red Tracer	1,750	27	RPP3H-10
12	1/2	1,200	Black/Red Tracer	3,090	51	RPP3H-12
16	5/8	1,200	Green/Red Tracer	6,100	85	RPP3H-16
19	3/4	1,200	Yellow/Red	7,700	128	RPP3H-19

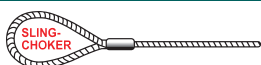
### 3 Strand Polypropylene Rope Hydro One Colours

#### RPP3H-10 - 19

Similar to above products, but the rope colours are akin to those used by Hydro One.



EXCELLENT ANTI-ABRASION PROPERTIES CONTRIBUTE TO A PROLONGED WORKING LIFE (OVER 10% COMPARED TO STANDARD ROPES). 3 STRAND POLYPROPYLENE DOES NOT HOLD A KNOT VERY WELL, AND BREAKS DOWN OVER TIME WHEN EXPOSED TO ULTRAVIOLET LIGHT. ULTIMATELY, THIS IS A VERY COST EFFECTIVE SUPER STRENGTH ROPE, AND CAN ALSO BE SPLICED.



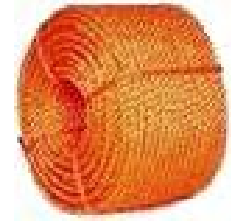
3 Strand Superdan. Yellow with Blue Tracer					
Dia.	Length	AB	MBL	Wt./Coil	Item
1/4"	1,200	1,830	1,670	14.4	RPSDAN-004
5/16"	1,200	3,480	3,170	26.4	RPSDAN-005
3/8"	1,200	4,320	3,920	32.4	RPSDAN-006
1/2"	600	7,560	6,870	29.4	RPSDAN-008
5/8"	600	12,700	11,500	51	RPSDAN-010
3/4"	600	16,000	14,600	65.4	RPSDAN-012
7/8"	600	23,200	21,100	97.8	RPSDAN-014
1"	600	26,700	24,300	115.2	RPSDAN-100

## Superdan

### RPSDAN-004 - 104

Excellent anti-abrasion properties contribute to a prolonged working life (over 10% compared to standard ropes). A cost effective super strength rope.

- Spliceable
- Specific gravity: 0.94 (Floats)
- UV and abrasion resistant
- High tenacity polyolefin fibre
- Melting point: 165°C
- Water absorption: None



Solid Braid Nylon 1000' Reels					
Inch	MM	AB	Lbs. 1000 FT	White Item	Coloured Item
1/16	1.6	270	1.43	RPSBN-016	RPSBNC-016
3/32	2.4	380	2.71	RPSBN-024	RPSBNC-024
7/64	2.8	566	3.86	RPSBN-028	RPSBNC-028
1/8	3.2	600	5.22	RPSBN-032	RPSBNC-032
9/64	3.6	630	TBA	RPSBN-036	RPSBNC-036
5/32	4	733	7.94	RPSBN-040	RPSBNC-040
11/64	4.4	875	TBA	RPSBN-044	RPSBNC-044
3/16	4.8	1,080	10.14	RPSBN-048	RPSBNC-048
13/64	5.2	1,120	TBA	RPSBN-052	RPSBNC-052
7/32	5.6	1,250	11.9	RPSBN-056	RPSBNC-056
1/4	6.4	1,460	15.43	RPSBN-064	RPSBNC-064

## Solid Braid Nylon Rope

### RPSBN(C)-016 - 064

Atlantic Braids Solid Braided Nylon is manufactured by braiding a 16 strand 2-over-1 nylon cover over a parallel nylon fiber core. The parallel fibers impart increased strength and durability to this non-splice-able low stretch cord.

- Easy Knotting
- Abrasion resistant
- Not Splice-able
- Low Stretch
- White rope is standard, though many colours are available
- Packaged in 250, 500, and 1000 foot reels

# ATLANTIC BRAIDS



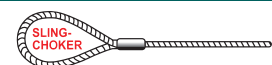
Solid Braid Polyester 1000' Reels					
Inch	MM	AB	Lbs. 1000 FT	White Item	Coloured Item
1/16	1.6	90	TBA	RPSBP-016	RPSBPC-016
3/32	2.4	140	TBA	RPSBP-024	RPSBPC-024
1/8	3.2	200	3.66	RPSBP-032	RPSBPC-032
5/32	4	280	5.56	RPSBP-040	RPSBPC-040
3/16	4.8	400	7.85	RPSBP-048	RPSBPC-048
7/32	5.6	580	TBA	RPSBP-056	RPSBPC-056
1/4	6.4	750	TBA	RPSBP-064	RPSBPC-064

## Solid Braid Polyester Rope

### RPSBP(C)-016 - 064

Atlantic Braids Solid Braided Polyester Rope is manufactured with 100% Spun Polyester. This product is soft and flexible to touch. Excellent for use as a general utility line or as a tie, drop or rigging line for theatres.

This rope offers easy knotting and is abrasion-resistant, while remaining non-spliceable and maintaining high elongation. White rope is standard, though many colours are available. Packaged in 250, 500, 1000, and 3000 ft. reels.



Double Braided Nylon (2-1)					
Dia In.	mm	Tensile		White	Coloured
		Lbs	Wt./100'	Item	Item
3/16	4.8	TBA	1	RPN21-048	RPN21C-048
1/4	6.4	2,100	2	RPN21-064	RPN21C-064
5/16	7.9	3,400	2	RPN21-079	RPN21C-079
3/8	9.5	4,800	4	RPN21-095	RPN21C-095
7/16	11.1	6,500	6	RPN21-111	RPN21C-111
1/2	12.7	8,300	7	RPN21-127	RPN21C-127
9/16	14.3	11,700	8	RPN21-143	RPN21C-143
5/8	15.9	15,200	12	RPN21-159	RPN21C-159
3/4	19.1	19,100	16	RPN21-191	RPN21C-191
7/8	22.2	26,000	22	RPN21-222	RPN21C-222
1	25.4	31,000	28	RPN21-254	RPN21C-254
1 1/8	28.6	42,500	33	RPN21-286	RPN21C-286
1 1/4	31.8	52,000	43	RPN21-318	RPN21C-318
1 3/8	34.9	60,000	49	RPN21-349	RPN21C-349
1 1/2	38.1	72,000	60	RPN21-381	RPN21C-381
1 3/4	44.5	100,000	82	RPN21-445	RPN21C-445
2	50.8	118,000	TBA	RPN21-508	RPN21C-508
2 1/4	57.2	146,000	TBA	RPN21-572	RPN21C-572

## Double Braided Nylon Rope (2-1)

### RPN21(C)-048 - 572

Atlantic Braids Double Braided (2-1) Nylon Rope is manufactured from 100% nylon yarn. This product is constructed with a braided core and cover. The result is a product which has high strength, controlled stretch and is abrasion resistant. Our DBN meets the Canadian government specification 40-GP 16M and features:

- High strength, controlled stretch, abrasion resistant
- Easily spliced
- Excellent shock absorption
- Applications include: tow lines, lifter lines, general utility
- White rope is standard, though many colours are available
- Packaged in 600 or 1200 foot reels



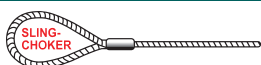
Double Braided Polyester (2-1)					
Dia In.	mm	Tensile		White	Coloured
		Lbs	Wt./100'	Item	Item
5/32	4.0	1,100	-	RPP21-040	RPP21C-040
3/16	4.8	1,600	-	RPP21-048	RPP21C-048
1/4	6.4	2,400	2	RPP21-064	RPP21C-064
5/16	7.9	3,400	2	RPP21-079	RPP21C-079
3/8	9.5	4,800	4	RPP21-095	RPP21C-095
7/16	11.1	6,600	6	RPP21-111	RPP21C-111
1/2	12.7	9,000	7	RPP21-127	RPP21C-127
9/16	14.3	12,400	8	RPP21-143	RPP21C-143
5/8	15.9	15,300	12	RPP21-159	RPP21C-159
3/4	19.1	19,000	16	RPP21-191	RPP21C-191
7/8	22.2	27,500	22	RPP21-222	RPP21C-222
1	25.4	34,000	28	RPP21-254	RPP21C-254
1 1/8	28.6	42,000	33	RPP21-286	RPP21C-286
1 1/4	31.8	53,000	43	RPP21-318	RPP21C-318
1 3/8	34.9	57,000	49	RPP21-349	RPP21C-349
1 1/2	38.1	69,200	60	RPP21-381	RPP21C-381
1 3/4	44.5	92,000	82	RPP21-445	RPP21C-445
2	50.8	106,000	TBA	RPP21-508	RPP21C-508
2 1/4	57.2	135,000	TBA	RPP21-572	RPP21C-572

## Double Braided Polyester Rope (2-1)

### RPP21(C)-040 - 572

Atlantic Braids Double Braided (2-1) Polyester Rope is manufactured from 100% polyester fibre, double braid polyester is constructed of a braided core and cover. This product provides the best combination of high strength, low elongation, and abrasion resistance of any polyester rope available today, also featuring:

- Low elongation
- High UV Resistance
- Excellent dielectric properties
- Applications include: tow lines, lifter lines, general utility
- White rope is standard, though many colours are available
- Packaged in 600 or 1200 foot reels



SupreemX-12				
Inch	MM	Average Strength	Lbs. 100 Ft.	Item
3/16	5.0	5,400	1.0	RPAB-05
1/4	6.0	8,600	1.6	RPAB-06
5/16	8.0	13,700	2.7	RPAB-08
3/8	9.0	19,600	3.6	RPAB-09
7/16	11.0	23,900	4.2	RPAB-11
1/2	12.0	34,000	6.4	RPAB-12
9/16	14.0	40,500	7.9	RPAB-14
5/8	16.0	52,800	10.2	RPAB-16
3/4	18.0	64,400	13.3	RPAB-19
7/8	22.0	90,800	19.6	RPAB-22

# ATLANTIC BRAIDS

Titan Braid				
Inch	MM	Average Strength	White Item	Coloured Item
3/8"	9.5	5,000	RPT-095	RPTC-095
7/16"	11.1	7,000	RPT-111	RPTC-111
1/2"	12.7	9,200	RPT-127	RPTC-127
9/16"	14.3	13,000	RPT-143	RPTC-143
5/8"	15.9	16,000	RPT-159	RPTC-159
3/4"	19.1	22,500	RPT-191	RPTC-191
7/8"	22.2	29,000	RPT-222	RPTC-222
1"	25.4	36,000	RPT-254	RPTC-254
1 1/8	28.6	47,000	RPT-286	RPTC-286
1 1/4	31.8	59,000	RPT-318	RPTC-318
1 1/2	38.1	80,000	RPT-381	RPTC-381
1 3/4	44.5	100,000	RPT-445	RPTC-445
2	50.8	125,000	RPT-508	RPTC-508

AB-Double BULLROPE				
Dia. In	Dia. mm	Avg. Tensile Lbs	Colour	Wt./100'
1/2	13	10,700	Blue	8.0
9/16	14	13,300	Red	11.0
5/8	16	18,500	Yellow	13.5
3/4	19	20,200	Green	17.8
7/8	22	28,900	Orange	26.0



## SupreemX-12

### RPAB-05 - 22

Atlantic Braids SupreemX-12 is manufactured with Dyneema® fibre and coated with polyurethane this 12-Strand braided rope is an excellent alternative to steel cable. This rope has extremely high strength, low stretch and is light weight. The polyurethane coating adds additional abrasion resistance for longer life. **This rope:**

- Is flexible
- Floats on water
- Can be spliced
- Is abrasion resistant
- Is high strength and light weight
- Applications include: arborist applications, winch lines, tow lines, conduit pulling lines
- Packaged in 600 or 1200 foot lengths



## Titan Braid

### RPT(C)-095 - 508

Atlantic Braids Titan Braid is manufactured with a braided polyester jacket and a braided nylon core. This premier quality rope combines the strength and durability of polyester with the elasticity of nylon creating a cord which exceeds the breaking strength of either fibres on their own. **This rope:**

- Is flexible and high strength
- Can be spliced
- Has high UV and abrasion resistance
- Applications include: tow lines, winch lines, rigging lines, bull rope, and for pulling and stringing lines
- Packaged in 600 or 1200 foot lengths



## AB-Double BULLROPE

AB-Double™ BULLROPE rope is manufactured from 100% high tenacity polyester fibre, double braid polyester rope is constructed of a braided core and cover. Ideal for use in arborist rigging applications. This product provides an excellent combination of high strength and low elongation. It also has great abrasion resistance due to the ABL coating. Standard lengths are 150' & 600'.

- Is high strength with high energy absorption
- Can be easily spliced
- Is UV, abrasion, and snag resistant
- Applications include: arborist applications, winch lines, tow lines, conduit pulling lines

Static-12				
Inch	MM	Avg. Tensile Lbs	Uncoated Item	Coated Item
3/16	4.8	1200	RP12P-048	RP12PC-048
1/4	6.4	2200	RP12P-064	RP12PC-064
5/16	7.9	3200	RP12P-079	RP12PC-079
3/8	9.5	5000	RP12P-095	RP12PC-095
7/16	11.1	8000	RP12P-111	RP12PC-111
1/2	12.7	11000	RP12P-127	RP12PC-127
5/8	15.9	16000	RP12P-159	RP12PC-159
3/4	19.1	21000	RP12P-191	RP12PC-191
7/8	22.2	30000	RP12P-222	RP12PC-222
1	25.4	36500	RP12P-254	RP12PC-254
1 1/8	28.6	48500	RP12P-286	RP12PC-286
1 1/4	31.8	56000	RP12P-318	RP12PC-318
1 5/16	33.4	65000	RP12P-334	RP12PC-334
1 3/8	34.9	71000	RP12P-349	RP12PC-349
1 1/2	38.1	82000	RP12P-381	RP12PC-381

Static Kernmantle				
Dia. In	Dia. Mm	Avg. Tensile Lbs	White Item	Coloured Item
3/16	4.8	1,200	RPSK-048	RPSKC-048
1/4	6.4	2,400	RPSK-064	RPSKC-064
5/16	7.9	3,800	RPSK-079	RPSKC-079
3/8	9.5	5,800	RPSK-095	RPSKC-095
7/16	11.1	6,800	RPSK-111	RPSKC-111
1/2	12.7	8,800	RPSK-127	RPSKC-127
9/16	14.3	10,200	RPSK-143	RPSKC-143
5/8	15.9	12,500	RPSK-159	RPSKC-159
3/4	19.1	15,000	RPSK-191	RPSKC-191

High Visibility Ropes					
Description	Dia. In	Dia. mm	AT	Wt./100'	Item
Neolite	0.5	12.7	7,500	0.09	RPNEO-127
Safety-Lite	0.5	12.7	7,500	0.09	RPSAF-127



## 12 Strand Polyester Rope

### RP12P/PC-048 - 445

Static-12™ is manufactured from 100% high tenacity continuous filament polyester, it has high strength, low stretch and it is abrasion resistant. The 12 strand construction gives the highest strength to weight ratio for Polyester. Static-12™ is easy to splice and can be coated for even greater durability.

- High strength
- Low stretch
- Abrasion resistant
- Easy to Splice



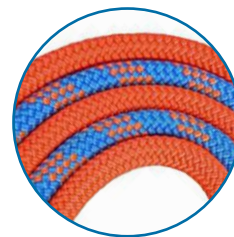
## ATLANTIC BRAIDS

## Static Kernmantle Rope

### RPSK(C)-048 - 191

Atlantic Braids Static Kernmantle is manufactured on a 32 carrier Kernmantle braider these industrial climbing and descent ropes are static. The static characteristic is achieved by manufacturing the core of the rope with twisted polyester strands. This rope:

- Is high strength and hydrophobic with low elongation
- Is a durable, abrasion and UV resistant rope
- Applications include use as climbing and descent lines
- Packaged in 600 or 1200 foot lengths



## High-Vis Ropes Neolite & Safety Lite

### RPNEO-127 - RPSAF-127

Atlantic Braids Neolite & Safety Lite ropes are manufactured as a 16-strand braided polyester cover with a polyester core. Neolite and Safety-Lite are highly flexible and low stretch. These ropes:

- Are highly visible
- Maintain diameter and low stretch
- Are snag and abrasion resistant
- Applications include use as rigging, climbing, and descent lines, as well as general utility lines



GS21 Wood Blocks- Single Sheave							
Size	Rope Dia.	O.D.	Rim	Pin	WLL	Wt.	Item
3"	3/8"	1-3/4"	1/2"	3/8"	500	1	GS21-3
4"	1/2"	2-1/4"	5/8"	3/8"	1000	2	GS21-4
5"	5/8"	3"	3/4"	3/8"	1200	2.5	GS21-5

## Single Sheave Wood Blocks

GS21-3 - 8



## Double Sheave Wood Blocks

GS22-3 - 8

GS22 Wood Blocks- Double Sheave							
Size	Rope Dia.	O.D.	Rim	Pin	WLL	Wt.	Item
3"	3/8"	1-3/4"	1/2"	3/8"	500	1	GS22-3
4"	1/2"	2-1/4"	5/8"	3/8"	1000	2	GS22-4
5"	5/8"	3"	3/4"	3/8"	1200	2.5	GS22-5
6"	3/4"	3-1/2"	1"	1/2"	1800	4	GS22-6

AS15 Angular Contact Bearing Swivel Overhaul Balls, Zinc Plated															
Wire Line	WLL	A	B	C	D	E	F	G	H	I	J	K	L	Wt.	Item
3/8	1.5	4	0.5	0.5	0.69	0.78	6.28	4.09	1.12	1.22	1.19	1.12	0.31	9	2009806
1/2	3	5	0.75	0.75	0.94	1.19	8.56	4.94	1.34	1.5	1.38	1.44	0.38	19	2009807
5/8	5	6.88	0.88	1.06	1.12	1.56	10.81	6.5	1.69	1.88	1.75	1.81	0.56	43	2003969
3/4	8.5	7	1.19	1.56	1.34	2.09	13.75	8.69	2.25	2.5	2.56	2.59	0.53	60	2009808

Ultimate Load is 5 times the Working Load Limit.

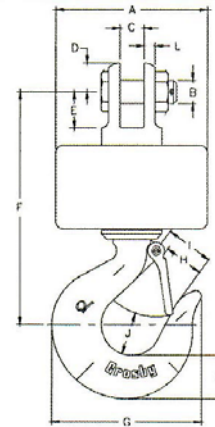
## Angular Contact Bearing Swivel Overhaul Balls

2009806 - 2009808

Utilize genuine Crosby hooks which are forged alloy steel, Quenched and Tempered, and contain the patented QUIC-CHECK® marking. Entire overhaul ball is zinc plated to resist corrosion.

Designed with angular contact bearings which maximize efficiency, reliability, and service life of swivel and extend the life of the rope.

Available with wide jaw opening that utilizes nylon spools and shields. Designed for applications where headroom is critical. Other upper fittings available upon request.



N41 IB Single Blocks with Loose Swivel Hooks							
Size	Sheave	Thick-ness	Pin Dia	Size	WLL	Wt.	Item
4	2.25	0.62	3/8	1/2"	2,000	3	757103
6	3.50	1	1/2	3/4"	3,000	6.25	757121

N412B Double Blocks with Loose Swivel Hooks							
Size	Sheave	Thick-ness	Pin Dia	Size	WLL	Wt.	Item
4	2.25	0.62	3/8	1/2"	3,000	3	757309
6	3.50	1	1/2	3/4"	4,000	6.25	757327

N413B Triple Blocks with Loose Swivel Hooks							
Size	Sheave	Thick-ness	Pin Dia	Size	WLL	Wt.	Item
4	2.25	0.62	3/8	1/2"	3,000	6	757504
6	3.50	1	1/2	3/4"	6,000	14	757522

## Blocks for Synthetic Rope

757103 - 757522

These blocks are built to carry the increased loads of synthetic fibre ropes.

All hooks are heat-treated alloy steel.

You can now use a smaller size rope, and in turn, a smaller block, providing capacities which were previously not possible.





## Heavy Duty Pulleys

### CMIRP105(D) - CMIRP135

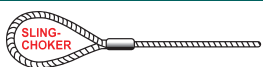
Now there's a pulley that is as serious about rescue as you are!

We're talking 16,000 pound breaking strength with 5/8" rope capability. The extra large rigging point accepts the largest karabiners — two of them. The extra wide, skirted side plates fully enclose 5/8" rope, keeping it away from rocks. Available in 3 or 4 inch sheave diameter, with needle bearings or bushings. Here is a hardcore pulley you can stake your life on.

CMIRP105				
Stainless Steel side plates, 3" alum. sheave, Bushing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
16,000	5/8"	6.5 x 4.25	1.35	0.921
CMIRP106				
An intermediate pulley for the worst conditions. Stainless Steel side plates, 3" alum. sheave, Bearing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
16,000	5/8"	6.5 x 4.25	1.35	0.941
CMIRP107				
The largest of our heavy duty series. Stainless Steel side plates, 4" alum. sheave, Bushing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
16,000	5/8"	7.5 x 5	1.8	0.937
CMIRP122				
Stainless Steel side plates, 4" alum. sheave, Bushing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
20,000	5/8"	8 x 4.75	2.2	0.923
CMIRP124				
Stainless Steel side plates, two 4" alum. sheaves, Bushing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
25,000	5/8"	9 x 4.75	3.95	1.98
CMIRP134				
Stainless Steel side plates, three 4" alum. sheaves, Bushing, and Zinc-plated Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
30,000	5/8"	8 x 4.75	5.2	n/r



CMIRP105D				
Double sheave version of the RPI05 Stainless Steel side plates, two 3" alum. sheaves, Bushing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
20,000	5/8"	7.25 x 4.25	2.35	n/r
CMIRP106D				
Double sheave version of the RPI06 Stainless Steel side plates, two 3" alum. sheaves, Bearing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
20,000	5/8"	7.5 x 4	2.3	n/r
CMIRP108				
The toughest of it's kind. Stainless Steel side plates, 4" alum. sheave, Bearing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
16,000	5/8"	7.5 x 5	1.8	0.956
CMIRP123				
High strength at low cost! Stainless Steel side plates, 4" alum. sheave, Bearing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
20,000	5/8"	8 x 4.75	2.2	0.946
CMIRP125				
Incredible features at an unbeatable value! Stainless Steel side plates, two 4" alum. sheaves, Bearing, and Stainless Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
25,000	5/8"	9 x 4.75	4	2.158
CMIRP135				
Stainless Steel side plates, three 4" alum. sheaves, Bearing, and Zinc-plated Steel axle.				
MBS Lbs.	Rope	Size	Wt.	Effic..
30,000	5/8"	8 x 4.75	5.25	n/r



## Classic 2 3/8" Pulleys

### CMIRP101 - CMIRP04

These are the original CMI rescue pulleys that set the standard for lightweight, compact, yet functional rescue pulleys almost 15 years ago. Now featuring stainless steel axles on all models, they are built around either glass-filled Celcon or aluminum sheaves and employ either a sintered bronze bushing or sealed needle bearing.

All models accept up to 5/8" diameter ropes and feature our now famous "wide skirt" side plate design for maximum rope protection. These are the most versatile rescue pulleys available.



CMIRP101					
Red Anodized alum. side plates, 2 3/8" Glass-filled Celcon sheave, n/a, and Stainless Steel axle.					
MBS Lbs.	Rope	Size In.	Wt.	Efficiency	
6,000	5/8"	4.25x3.25	0.35	0.933	



CMIRP102					
A step up in strength and durability. Black Anodized alum. side plates, 2 3/8" alum. sheave, Bushing, and Stainless Steel axle.					
MBS Lbs.	Rope	Size In.	Wt.	Efficiency	
6,000	5/8"	4.25x3.25	0.45	0.914	



CMIRP103					
For hostile environments and max. service life. Blue Anodized alum. side plates, 2 3/8" alum. sheave, Bearing, and Stainless Steel axle.					
MBS Lbs.	Rope	Size In.	Wt.	Efficiency	
6,000	5/8"	4.25x3.25	0.45	0.956	



CMIRP104					
High strength in a compact design. Stainless Steel side plates, 2 3/8" alum. sheave, Bearing, and Stainless Steel axle.					
MBS Lbs.	Rope	Size In.	Wt.	Efficiency	
8,500	5/8"	4.25x3.25	0.65	0.956	



## "Cable-Able" Pulleys

### CMIRC102 - CMIRC106

The "Cable-Able" series adds compatibility with steel cable. A hardened steel sheave treated with an exclusive anti-corrosion coating creates a rugged product that will outlast the elements and look good for years.

CMIRC102					
Black Anodized alum. side plates, 2 3/8" Steel sheave, Bushing, and Stainless Steel axle.					
MBS Lbs.	Rope	Size In.	Wt.	Efficiency	
6,000	5/8"	4.375x3.5	0.75	0.914	



CMIRC103					
Blue Anodized alum. side plates, 2 3/8" Steel sheave, Bearing, and Stainless Steel axle.					
MBS Lbs.	Rope	Size In.	Wt.	Efficiency	
6,000	5/8"	4.375x3.5	0.75	0.956	



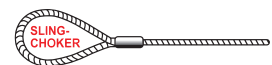
CMIRC104					
Stainless Steel side plates, 2 3/8" Steel sheave, Bearing, and Stainless Steel axle.					
MBS Lbs.	Rope	Size In.	Wt.	Efficiency	
8,500	5/8"	4.375x3.5	0.9	0.956	



CMIRC105					
Stainless Steel side plates, 2 3/8" Steel sheave, Bushing, and Stainless Steel axle. Lower attachment point integrated into side plates.					
MBS Lbs.	Rope	Size In.	Wt.	Efficiency	
8,500	5/8"	6x3.25	1	0.914	



CMIRC106					
Stainless Steel side plates, 2 3/8" Steel sheave, Bearing, and Stainless Steel axle. Lower attachment point integrated into side plates.					
MBS Lbs.	Rope	Size In.	Wt.	Efficiency	
8,500	5/8"	6x3.25	1.05	0.956	





## Service Line Pulleys

### CMIRPI14 - CMIRPI20(A)

Low cost merged with high quality and unmatched dependability! These pulleys are designed for rescuers on a budget. They may lack some of the “bells and whistles” of our Hi-Roller series, but provide the same rugged, dependable service CMI has built it’s name on.



CMIRPI14				
Black Anodized alum. side plates, 2” Steel sheave, Bushing, and Steel axle.				
MBS Lbs.	Rope.	Size In.	Wt.	Efficiency
7,500	1/2”	5x2.5	0.65	0.892



CMIRPI16				
Blue Anodized alum. side plates, 2” alum. sheave, Bearing, and Steel axle.				
MBS Lbs.	Rope.	Size In.	Wt.	Efficiency
7,500	1/2”	5x2.5	0.4	0.906



CMIRPI18				
Stainless Steel side plates, 2” Steel sheave, Bushing, and Stainless Steel axle.				
MBS Lbs.	Rope.	Size In.	Wt.	Efficiency
8,000	1/2”	5x2.5	0.75	0.892



CMIRPI19				
Stainless Steel side plates, two 2” alum. sheaves, Bearing, and Stainless Steel axle.				
MBS Lbs.	Rope.	Size In.	Wt.	Efficiency
11,000	1/2”	6.5x2.6	0.85	1.857



CMIRPI15				
Red Anodized alum. side plates, 2” alum. sheave, Bushing, and Steel axle.				
MBS Lbs.	Rope.	Size In.	Wt.	Efficiency
7,500	1/2”	5x2.5	0.45	0.892



CMIRPI17				
Stainless Steel side plates, 2” alum. sheave, Bearing, and Stainless Steel axle.				
MBS Lbs.	Rope.	Size In.	Wt.	Efficiency
8,000	1/2”	5x2.5	0.5	0.906



CMIRPI18A				
Stainless Steel side plates, 2” alum. sheave, Bushing, and Stainless Steel axle.				
MBS Lbs.	Rope.	Size In.	Wt.	Efficiency
8,000	1/2”	0x0	0.9	0.892



CMIRPI20				
Stainless Steel side plates, two 2” Steel sheaves, Bushing, and Stainless Steel axle.				
MBS Lbs.	Rope.	Size In.	Wt.	Efficiency
11,000	1/2”	6.5x2.6	0.85	1.729

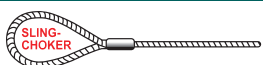


Jerk-It Kenetic Energy Recovery Ropes					
Dia. In	Dia. mm	WT LB/100ft	WT KG/100m	Tensile Str. lbs	Tensile Str. kg
3/8”	9.5mm	3.5lbs	5kg	4,800lbs	2,180kg
7/16”	11.1mm	5lbs	7.5kg	6,500lbs	2,950kg
1/2”	12.7mm	6.5lbs	10kg	8,300lbs	3,700kg
9/16”	14.3mm	9.5lbs	14kg	11,700lbs	5,300kg
5/8”	15.9mm	12lbs	18kg	15,200lbs	6,900kg
3/4”	19.1mm	15lbs	22.5kg	19,100lbs	8,600kg
7/8”	22.2mm	21lbs	31kg	26,000lbs	11,800kg
1”	25.4mm	25lbs	37.5kg	31,000lbs	14,100kg

Other diameter ropes available.

### Jerk-It Kenetic Energy Recovery Rope

Jerk-It™ line is a custom in-house spliced double braid manufactured from 100% nylon yarn. K.E.R.R. Lines use the kinetic properties of nylon to “sling-shot” objects free from mud, sand or snow. Available in a variety of colours, this line is a must have for any recreational off-roader as well as the professional dealing with heavy machinery which has become stuck.



## TuFFX-12 ATV Winch Lines

### ATV-S05X025 - S06X100

TuFFX-12™ is a 12-Strand HMPE Fibre Rope and steel cable replacement which is lightweight, floats in water and has very little stretch.

Our extensions have loops at both ends. These can be used to extend your winch line and can be used to anchor your quad for more extreme winching. Easily stored ... Almost anywhere!

ATV TuFFX-12 Winch Ropes				
Dia.	Dia.	Length	Strength	Item
mm	In.	Feet	Ave. Lbs	
4.8	3/16"	25	5,230	ATV-HMPE-S05X025
4.8	3/16"	50	5,230	ATV-HMPE-S05X050
4.8	3/16"	100	5,230	ATV-HMPE-S05X100
6.4	1/4"	25	8,260	ATV-HMPE-S06X025
6.4	1/4"	45	8,260	ATV-HMPE-S06X045
6.4	1/4"	50	8,260	ATV-HMPE-S06X050
6.4	1/4"	60	8,260	ATV-HMPE-S06X060
6.4	1/4"	100	8,260	ATV-HMPE-S06X100



TuFFX-12 Extensions				
Dia.	Dia.	Length	Strength	Item
mm	In.	Feet	Ave. Lbs	
4.8	3/16"	8	5,230	ATVE-HMPE-S06X25
6.4	1/4"	4	8,260	ATVE-HMPE-S06X45
6.4	1/4"	8	8,260	ATVE-HMPE-S06X50
6.4	1/4"	25	8,260	4X4-HMPE-S08X025
6.4	1/4"	45	8,260	4X4-HMPE-S08X050
6.4	1/4"	50	8,260	4X4-HMPE-S08X100



4x4 TuFFX-12 Winch Ropes				
Dia.	Dia.	Length	Strength	Item
mm	In.	Feet	Ave. Lbs	
7.9	5/16"	25	12,630	4X4-HMPE-S08X025
7.9	5/16"	50	12,630	4X4-HMPE-S08X050
7.9	5/16"	100	12,630	4X4-HMPE-S08X100
7.9	5/16"	125	12,630	4X4-HMPE-S08X125
9.5	3/8"	50	18,500	4X4-HMPE-S09X050
9.5	3/8"	100	18,500	4X4-HMPE-S09X100
9.5	3/8"	125	18,500	4X4-HMPE-S09X125
11.1	7/16"	100	22,300	4X4-HMPE-S11X100
11.1	7/16"	125	22,300	4X4-HMPE-S11X125
12.7	1/2"	50	36,200	4X4-HMPE-S13X050



ATV Snow Plow TuFFX-12 Winch Ropes				
Dia.	Dia.	Length	Strength	Item
mm	In.	Feet	Ave. Lbs	
4.8	3/16"	6	5,230	ATV-HMPE-S05X006
6.4	1/4"	6	8,260	ATV-HMPE-S06X006

## ROPE CHARACTERISTIC & SELECTION GUIDE

### NYLON

STRENGTH	
ROT/MILDEW RESISTANCE	
SUNLIGHT RESISTANCE	
STRETCH RESISTANCE	
CHEMICAL RESISTANCE	
ABRASION	
CRITICAL TEMPERATURE	Weakens at 350°F (177°C)
STORAGE	Dry or Wet
FLOATS	No
USES	Marine   Pet Leads   Awnings

### POLYESTER

STRENGTH	
ROT/MILDEW RESISTANCE	
SUNLIGHT RESISTANCE	
STRETCH RESISTANCE	
CHEMICAL RESISTANCE	
ABRASION	
CRITICAL TEMPERATURE	Weakens at 350°F (177°C)
STORAGE	Dry or Wet
FLOATS	No
USES	Flags   Clothesline   Tents

### POLYPROPYLENE

STRENGTH	
ROT/MILDEW RESISTANCE	
SUNLIGHT RESISTANCE	
STRETCH RESISTANCE	
CHEMICAL RESISTANCE	
ABRASION	
CRITICAL TEMPERATURE	Weakens at 250°F (121°C)
STORAGE	Dry or Wet
FLOATS	Yes
USES	Tie Down   Pools   All-Purpose

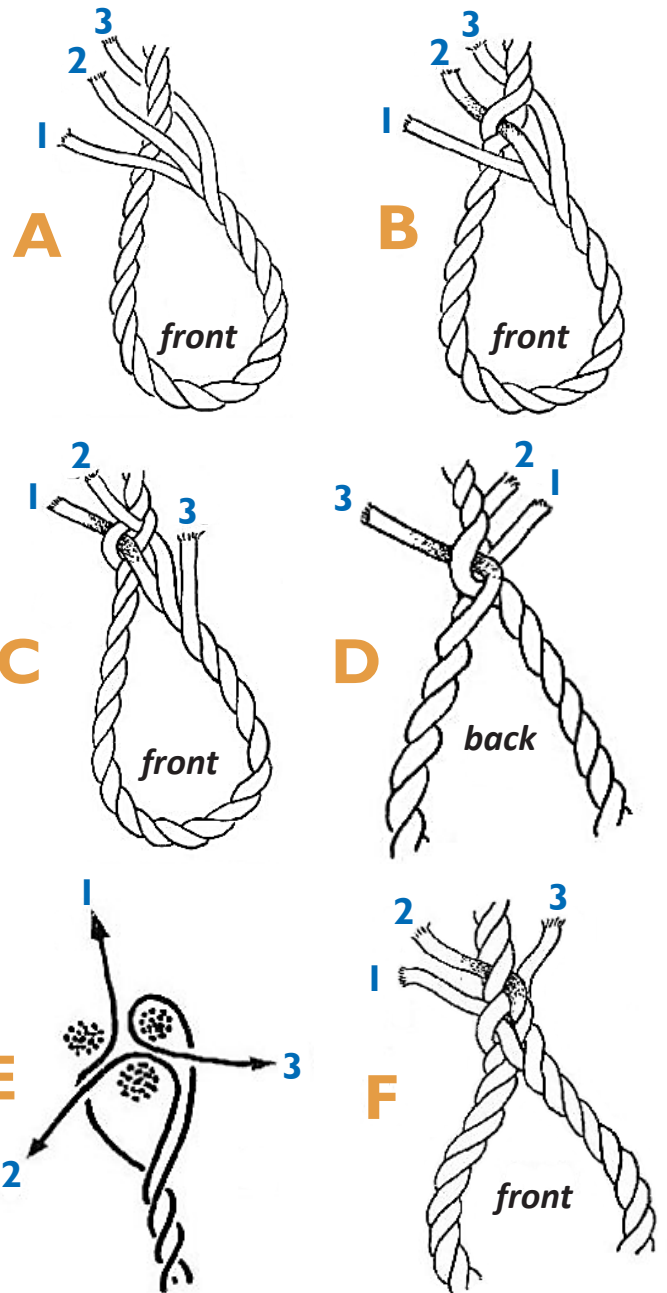
### SISAL/MANILA

STRENGTH	
ROT/MILDEW RESISTANCE	
SUNLIGHT RESISTANCE	
STRETCH RESISTANCE	
CHEMICAL RESISTANCE	
ABRASION	
CRITICAL TEMPERATURE	Weakens at 300°F (149°C)
STORAGE	Dry
FLOATS	No
USES	Garden   Agricultural   Decor

### COTTON

STRENGTH	
ROT/MILDEW RESISTANCE	
SUNLIGHT RESISTANCE	
STRETCH RESISTANCE	
CHEMICAL RESISTANCE	
ABRASION	
CRITICAL TEMPERATURE	Unaffected
STORAGE	Dry
FLOATS	No
USES	Sash Cord   Clothesline   Blinds

## HOW TO: EYE SPLICE FOR 3 STRAND SYNTHETIC ROPE



**A** Open more than enough for tucking. Place ends so two near eyes are across the lay of rope and the third is behind.

Tuck strand 2 under the main strand. **B**

**C** Tuck strand 1 under the next main strand, going in where strand 1 comes out.

Turn splice over & tuck strand 3 under the strand without an end under it, going the same way around the rope as the other two tucks. **D**

**E** There will now be one end projecting from each space in the rope. Pull the ends through to give even tension and a closed joint.

Tuck strand 2 again, over and under one main strand. **F**

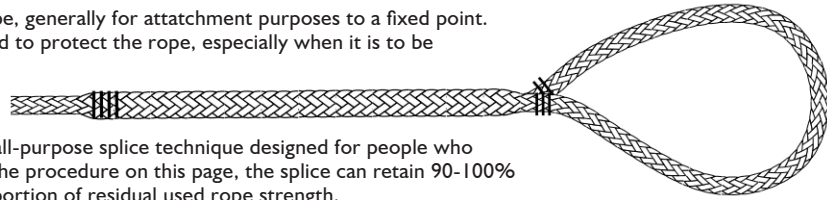
# 12-Strand Class 2 Eye Splicing Instructions



**Class 2 ropes are made in whole or part from any of the following high modulus fibres: Dyneema, Vectran, Technora, and Zylon**

The eye splice is used to place a permanent loop in the end of a rope, generally for attachment purposes to a fixed point. An eye is also used to form the rope around a thimble, which is used to protect the rope, especially when it is to be attached to a shackle, chain, or wire rope.

## FINISHED SPLICE

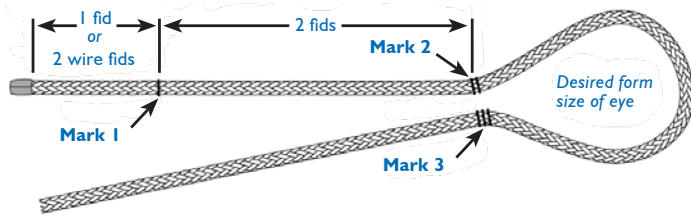


This eye splice may be performed on new or used rope. This is an all-purpose splice technique designed for people who generally splice used rope as frequently as new rope. By following the procedure on this page, the splice can retain 90-100% of average new rope strength and in used rope up to the same proportion of residual used rope strength.

## 1. Measuring

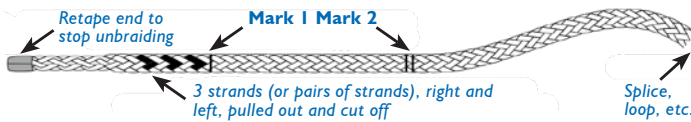
Tape end of line to be spliced and measure 1 tubular fid length (or 2 wire fid lengths) from taped end of line and make Mark 1.

From Mark 1, measure 2 tubular fid lengths (or 4 wire fid lengths) and make Mark 2. Now form desired eye size and make Mark 3.



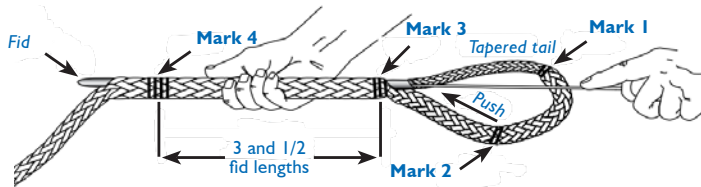
## 2. Making Taper

From Mark 1, in the direction of the taped end of the line, mark every second right and left strand for 3 strands. Pull every marked strand out of line and cut (tape at end can cause resistance and may have to be removed in order to pull out cut strands). Tapered end will now only have 6 strands remaining (or 4 strands for an 8-strand braid). Tape tapered tail tightly to keep from unbraiding.



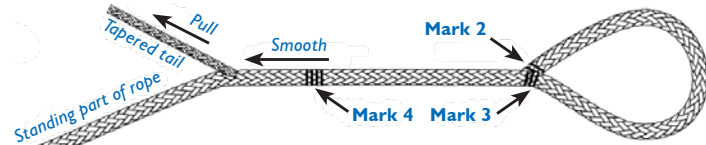
## 3. Burying Tail into Standing Part of Line

Measure 3 and 1/2 tubular fid lengths (7 wire fid lengths) from Mark 3 and make Mark 4. Insert fid and tapered tail at Mark 3 and bring fid out beyond Mark 4. Pull fid and tapered tail out. Do not let the line twist.

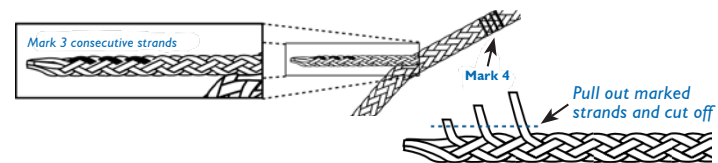


## 4. Finishing Burying

Remove fid. Pull hard on tapered tail with one hand. With the other hand, smooth bunched line towards eye splice until Marks 2 and 3 converge.



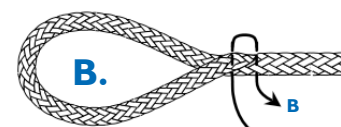
- Remove the fid and any tape at the end of the tail and mark 3 consecutive strands, as shown. Pull them out of the braid and cut off close to the body of the rope.
- Now, using both hands and the weight of the body, smooth the cover slack from mark 3 towards Mark 4. The tail will disappear into the rope, and a smooth, gradual taper should result.



## 5. Finishing Eye Splice

When finished, Mark 2 and Mark 3 should be at the same point at the vertex of the eye. This yields desired eye size. To finish eye splice, the splice must be lock stitched (procedure follows).

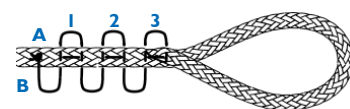
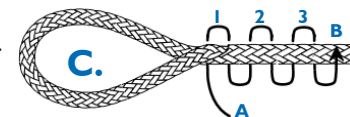
- Pass stitching twine through spliced area near throat of eye as shown.



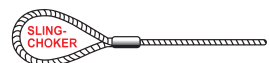
- Continue to reinsert as shown until you have at least 3 complete stitches on each side of the rope. Each stitch should cross over 2 strands in the rope.

- Reinsert twine through the rope. The twine should cover 2 strands from the exit point. Pull the twine snug, but not tight.

- Rotate spliced part of rope 90° and reinsert end A into spliced area in the same fashion as in Steps 1, 2, and 3. The splice will now be stitched on 2 planes perpendicular to each other. Make sure you do not pull the stitching too tight.



- Extract both ends of the twine together through the same opening in the braid in Step 3. Tie them together with a square knot and reinsert back into the braid. For double braids, reinsert the knot between the cover and core.





# PROSecure

PROSecure, a Sling-Choker brand, is our product line dedicated to making available the best load securement equipment. Containing truck tie downs, hooks, chains, load binders, synthetic straps, and many more tools that ensure efficiency and safety in load securement and transportation, PROSecure has you covered.

Grade 70 Chain				
Size	Links/ft.	WLL	Wt./ft.	Item
1/4"	14	3,150	0.75	CHG7-07
5/16"	9.5	4,700	0.97	CHG7-08
3/8"	9	6,600	1.51	CHG7-09
1/2"	7	11,300	2.78	CHG7-13
5/8"	TBA	15,800	3.5	CHG7-16

## Grade 70 Chain

### CHG7-07 - 16

Grade 70 transport chain is designed for load binding. G70 is also superior for towing and safety chains. Yellow zinc plated. Stamped "BATCH NUMBER" & "CG70" every 2 links. Custom chain lengths available on request.



Grade 70 Chain with Grab Hook Each end- (T07-\$)								
Chain	8	10	12	15	16	18	20	Adder
1/4"	CHG7-07X08-SGG	CHG7-07X10-SGG	CHG7-07X12-SGG	CHG7-07X15-SGG	CHG7-07X16-SGG	CHG7-07X18-SGG	CHG7-07X20-SGG	CHG7-07
5/16"	CHG7-08X08-SGG	CHG7-08X10-SGG	CHG7-08X12-SGG	CHG7-08X15-SGG	CHG7-08X16-SGG	CHG7-08X18-SGG	CHG7-08X20-SGG	CHG7-08
3/8"	CHG7-09X09-SGG	CHG7-09X10-SGG	CHG7-09X12-SGG	CHG7-09X15-SGG	CHG7-09X16-SGG	CHG7-09X18-SGG	CHG7-09X20-SGG	CHG7-09
1/2"	CHG7-13X13-SGG	CHG7-13X10-SGG	CHG7-13X12-SGG	CHG7-13X15-SGG	CHG7-13X16-SGG	CHG7-13X18-SGG	CHG7-13X20-SGG	CHG7-13

## Gr. 70 Chain w/ Grab Hook Each End

### CHG7-07X08-SGG - CHG7-13X20-SGG

Meets or exceeds all requirements of ASTM & NACM Standards

## Gr. 70 Chain w/ Grab Hook And Slip Hook

### CHG7-07X08-SGS - CHG7-13X20-SGS

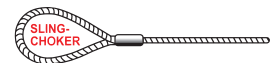
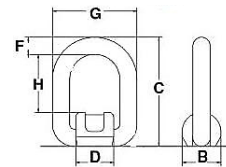
Meets or exceeds all requirements of ASTM & NACM Standards

Grade 70 Chain with Grab Hook and Slip Hook								
Chain	8	10	12	15	16	18	20	Adder
1/4"	CHG7-07X08-SGS	CHG7-07X10-SGS	CHG7-07X12-SGS	CHG7-07X15-SGS	CHG7-07X16-SGS	CHG7-07X18-SGS	CHG7-07X20-SGS	CHG7-07
5/16"	CHG7-08X08-SGS	CHG7-08X10-SGS	CHG7-08X12-SGS	CHG7-08X15-SGS	CHG7-08X16-SGS	CHG7-08X18-SGS	CHG7-08X20-SGS	CHG7-08
3/8"	CHG7-09X09-SGS	CHG7-09X10-SGS	CHG7-09X12-SGS	CHG7-09X15-SGS	CHG7-09X16-SGS	CHG7-09X18-SGS	CHG7-09X20-SGS	CHG7-09
1/2"	CHG7-13X13-SGS	CHG7-13X10-SGS	CHG7-13X12-SGS	CHG7-13X15-SGS	CHG7-13X16-SGS	CHG7-13X18-SGS	CHG7-13X20-SGS	CHG7-13

CR265 Weld On Pivot Link										
Factor		B	C	D	F	G	H	Min Filet Weld Size (in.)	Wt.	Item
5:1	4:1									
1	1.2	1.42	3.27	1.38	0.51	2.6	1.65	3/32	0.77	1290740
2.5	3.2	1.73	4.17	1.65	0.71	3.39	2.17	3/32	1.32	1290768
4	5	1.97	5.55	1.93	0.87	4.29	2.95	1/4	2.65	1290786
6.4	8	2.52	6.77	2.52	1.02	5.2	3.74	1/4	5.3	1290802
12	15	3.54	8.23	3.39	1.34	6.61	4.33	5/16	13	1290820

## Weld-On Pivot Link

### 1290740 - 1290820



CR330C Hooks, Clevis Grab			
Size	WLL	Wt.	Item
1/4"	2,600	0.36	1027105
5/16"	3,900	0.63	1027123
3/8"	5,400	1	1027141
7/16"	7,200	1.52	1027169
1/2"	9,200	2.22	1027187
5/8"	13,000	4.4	1027203
3/4"	20,200	6.5	1027221



## Carbon Clevis Grab Hooks

1027105 - 1027221

CR330A Hooks, Clevis Grab			
Size	WLL	Wt.	Item
1/4"	3,500	0.36	1027249
5/16"	4,700	0.63	1027267
3/8"	7,100	1	1027285
7/16"	8,750	1.52	1027301
1/2"	12,000	2.22	1027329
5/8"	15,800	4.4	1027347
3/4"	24,700	6.5	1027365



## Alloy Clevis Grab Hooks

1027249 - 1027365

CR331C Hooks, Clevis Slip			
Size	WLL	Wt.	Item
1/4"	1,950	0.55	1027383
5/16"	2,875	0.78	1027409
3/8"	4,000	1.2	1027427
7/16"	5,000	2.06	1027445
1/2"	6,500	2.83	1027463
5/8"	9,250	4.75	1027481



## Carbon Clevis Slip Hooks

1027383 - 1027481

CR331A Hooks, Clevis Slip			
Size	WLL	Wt.	Item
1/4"	2,750	0.55	1027524
5/16"	4,300	0.78	1027542
3/8"	5,250	1.2	1027560
7/16"	7,000	2.06	1027588
1/2"	9,000	2.83	1027604
5/8"	13,500	4.75	1027622



## Alloy Clevis Slip Hooks

1027524 - 1027622

CR247 Double Clevis Link			
Size	WLL	Wt.	Item
1/4"	2,600	0.38	1013021
5/16" - 3/8"	5,400	0.81	1013049
7/16"	7,000	1.25	1013067
1/2"	9,200	1.56	1013085



## Double Clevis Link

1013021 - 1013085

CR249 Twin Clevis Link			
Size	WLL	Wt.	Item
1/4"-5/16"	4,700	0.31	1012861
3/8"	660	0.44	1012889
7/16"-1/2"	11,300	0.98	1012905



## Twin Clevis Link

1012861 - 1012905

CRI50 Load Binder			
Size	WLL	Wt.	Item
5/16-3/8	5,400	7.02	1048128
3/8-1/2	9,200	12.47	1048146
1/2-5/8	13,000	19.68	1048164



## Load Binder

1048128 - 1048164

CRI40 Ratchet Load Binder			
Size	WLL	Wt.	Item
5/16-3/8	7,100	11.23	1048404
3/8-1/2	12,000	12.83	1048422
1/2-5/8	13,000	14.55	1048440



## Ratchet Load Binder

1048404 - 1048440

## Clevis Grab Hooks

GS330-004 - 008

OC330 Hooks, Clevis Grab			
Size	WLL	Wt.	Item
1/4"	3,150	0.55	GS330-004
5/16"	4,700	0.78	GS330-005
3/8"	6,600	1.2	GS330-006
1/2"	11,300	2.83	GS330-008



## Clevis Grab Hooks w/ Latch

GS330L-004 - 008

OC330L Hooks, Clevis Grab Latched			
Size	WLL	Wt.	Item
1/4"	3,150	0.55	GS330L-004
5/16"	4,700	0.78	GS330L-005
3/8"	6,600	1.2	GS330L-006
1/2"	11,300	2.83	GS330L-008



## Clevis Slip Hooks

GS331-004 - 010

OC331 Hooks, Clevis Slip			
Size	WLL	Wt.	Item
1/4"	3,150	0.55	GS331-004
5/16"	4,700	0.78	GS331-005
3/8"	5,250	1.2	GS331-006
1/2"	9,000	2.83	GS331-008
5/8"	13,500	4.75	GS331-010



## Clevis Slip Hooks w/ Latch

GS331L-004 - 008

OC331L Hooks, Clevis Slip Latched			
Size	WLL	Wt.	Item
1/4"	2,750	0.55	GS331L-004
5/16"	4,300	0.78	GS331L-005
3/8"	5,250	1.2	GS331L-006
1/2"	9,000	2.83	GS331L-008



## Load Binder

GS150-004 - 008

OC150 Load Binder			
Size	WLL	Wt.	Item
1/4-5/16	2,600	3.3	GS150-004
5/16-3/8	5,400	7.02	GS150-006
3/8-1/2	9,200	12.47	GS150-008



## Ratchet Load Binder

GS140-005 - 008

OC140 Ratchet Load Binder			
Size	WLL	Wt.	Item
5/16"-3/8"	6,600	11.23	GS140-005
3/8"-1/2"	9,200	12.83	GS140-006
1/2"-5/8"	13,000	14.25	GS140-008



## Quick Binder

GS140Q-005 - 008

Quick Binder			
Size	WLL	Wt.	Item
5/16"-3/8"	5,400	7.02	GS140Q-005
3/8"-1/2"	9,200	12.47	GS140Q-008



## Mini Load Binder

GS150-003

3/16"-9" Mini Load Binder 1.85" Take Up			
WLL 3.5:1	Wt.	Item	
250	1.75	GS150-003	
NOT LEGAL FOR TIE DOWN			



## Binder Lock

CT12015

Binder Lock	
Desc.	Item
Binder Lock	CT12015



## Twin Clevis Link

GS249-07 - 16

OC249 Twin Clevis Link			
Size	WLL	Wt.	Item
1/4"-5/16"	4,700	0.31	GS249-07
3/8"	6,600	0.44	GS249-09
7/16"-1/2"	11,300	0.98	GS249-11





## G8 Connectors

YG-07 - 13

G8 Connectors Yoke			
Size.	WLL Lbs	Wt.	Item
1/4"	4,500	0.4	28XCL-07-08
3/8"	7,100	0.6	28XCL-10
1/2"	12,000	1.5	28XCL-13



## G7 Connectors

TD-G07 - G16

G7 Connector			
Size.	WLL Lbs	Wt.	Item
1/4"	3,150	0.4	TD-G07
5/16"	4,700	0.05	TD-G08
3/8"	6,600	0.06	TD-G10
1/2"	11,300	1.5	TD-G13
5/8"	15,800	2.5	TD-G16



## Weld on Grab Hooks

CM90300 - CM90305

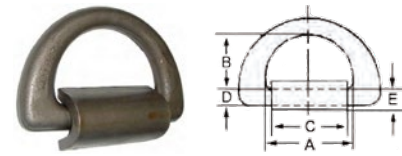
Weld On Grab Hook			
Size	WLL	Wt.	Item
5/16"	1,900	0.39	CM90300
3/8"	2,650	0.89	CM90304
1/2"	4,500	1.3	CM90305



## D-Ring Weld on Tie Downs

OC265

D Ring Weld On Tie Downs								
Size Inch	MBS Tons	A	B	C	D	E	Wt.	Item
		mm	mm	mm	mm	mm		
1	50	155	1.39	2.02	0.419	0.5	9.702	GS265



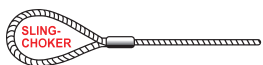
Weld On, Bolt on "D" Rings					
Size	W X L	NBS	WLL	Wt.	Item
1/4"	.98 x 1.85	900	300	0.2	CT85001
1/2"	2.25 x 2.5	11,000	3,666	1.0	CT85002
1/2"	2.25 x 2.5	11,000	3,666	1.1	CT85005
1/2"	2.25 x 2.5	11,000	3,666	1.1	CT85008
5/8"	3 x 3	18,000	6,000	1.9	CT85003
3/4"	3 x 3	26,500	8,833	2.7	CT85004
1"	3 x 3	47,000	15,666	4.2	CT85011
1"	3 x 4	47,000	15,666	4.7	CT85006
1"	3 x 4	47,000	15,666	4.7	CT85007
1"	3 x 4	47,000	15,666	4.7	CT85009
1"	U Bracket			0.7	CT85010



## Weld on Bolt on "D" Rings



Use With	WLL	Wt.	Item
	5,000	1.16	CT18070
	6,000	1.5	CT18072
For 18070	n/a	0.3	CT18073
For 18072	n/a	0.3	CT18074



## TRUCK & TRAILER WINCHES

### WELD ON

Style		WLL	Wt.	Item
Weld On	Standard	6,000	9.4	CT91200
Weld On	Low Profile	6,000	9	CT91204
Weld On	3 Bar Standard	6,000	14.4	CT91203



CT91200  
Standard



CT91204  
Low-Profile



CT91203  
Bar Standard

## TRUCK & TRAILER WINCHES

### SLIDING

Style		WLL	Wt.	Item
Sliding	Low Profile	6,000	9.4	CT91301
Sliding	Standard	6,000	10.8	CT91300
Sliding	Storable	6,000	6000	CT91600
Sliding	With Washers-Zinc	5,000	6000	CT91303
Sliding	Double L-Track	5,500	8	CT91304



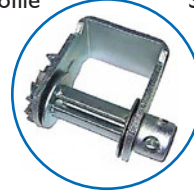
CT91301  
Low-Profile



CT91300  
Standard



CT91600  
Storable



CT91303  
W/ Washers



CT91304  
Double L Track

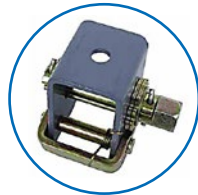
## TRUCK & TRAILER WINCHES

### PORTABLE

Style		WLL	Wt.	Item
Portable	Standard	5000	10	CT91400
Portable	2" Lasing	2933	3.6	CT71100



CT91400  
Standard



CT71100  
Lashing

## TRUCK & TRAILER WINCHES

### SLIDING

Style		WLL	Wt.	Item
Sliding	Overdrive	6,000	11	CT43573
Add On	Silver Cap		3.45	CT49723-10



CT43573  
Sliding



CT49723-10  
Ratcheting Cap

## WINCH BARS

Winch Bars		
Description	Wt.	Item
Standard-Chrome	5.0	CT70900
Standard- Black	5.0	CT70904
Combination- Chrome	5.8	CT70901
Combination- Chrome	6.8	CT70902



## WINCH STRAPS:

2" WIDE

### CHAIN ANCHOR

12	3.2	WS212-C
16	3.4	WS216-C
20	3.6	WS220-C
25	3.8	WS225-C
30	4.0	WS230-C



### D-RING

12	1.2	WS212-D
16	1.4	WS216-D
20	1.6	WS220-D
25	1.8	WS225-D
30	2.0	WS230-D



### FLAT HOOK

12	1.7	WS212-F
16	1.9	WS216-F
20	2.1	WS220-F
25	2.3	WS225-F
30	2.5	WS230-F



### TWISTED SNAP HOOK

12	1.7	WS212-TS
16	1.9	WS216-TS
20	2.1	WS220-TS
25	2.3	WS225-TS
30	2.5	WS230-TS



MADE RIGHT HERE IN CANADA, THESE SEWN WINCH STRAPS COME IN CUSTOMIZABLE LENGTHS AND WITH MANY ASSORTED END ATTACHMENTS. WITH A DESIGN FACTOR OF 3:1 THE WORKING LOAD LIMIT, THESE TOUGH TIE DOWNS ARE SURE TO KEEP ANY COMPLIANT LOAD IN PLACE.

### WIRE HOOK (7/16")

12	1.7	WS212-W
16	1.9	WS216-W
20	2.1	WS220-W
25	2.3	WS225-W
30	2.5	WS230-W



### WIRE HOOK (3/8")

12	1.7	WS212-W3
16	1.9	WS216-W3
20	2.1	WS220-W3
25	2.3	WS225-W3
30	2.5	WS230-W3



### GRAB HOOK

12	2.0	WS212-G
16	2.2	WS216-G
20	2.4	WS220-G
25	2.6	WS225-G
30	2.8	WS230-G

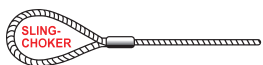
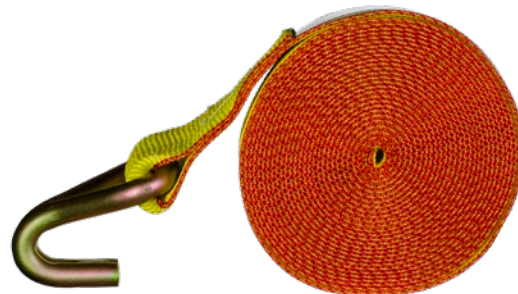


### SNAP HOOK

12	1.7	WS212-SN
16	1.9	WS216-SN
20	2.1	WS220-SN
25	2.3	WS225-SN
30	2.5	WS230-SN



NOT SURE IF YOU'RE COMPLIANT WITH TRANSPORTATION REGULATIONS? CALL US TODAY TO ENSURE YOUR LOADS ARE SECURED TO GOVERNMENT STANDARDS.



## WINCH STRAPS:

### 3" WIDE

#### CHAIN ANCHOR (3/8")

12	5.6	WS312-C
16	5.9	WS316-C
20	6.2	WS320-C
25	6.6	WS325-C
30	7.0	WS330-C



#### CHAIN ANCHOR (5/16")

12	4.6	WS312-CS
16	4.9	WS316-CS
20	5.2	WS320-CS
25	5.6	WS325-CS
30	6.0	WS330-CS



#### FLAT HOOK

12	2.6	WS312-F
16	2.9	WS316-F
20	3.2	WS320-F
25	3.6	WS325-F
27	3.8	WS327-F



## WINCH STRAPS:

### 4" WIDE

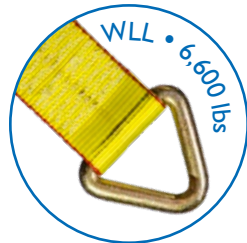
#### CHAIN ANCHOR

12	7.1	WS412-C
16	7.4	WS416-C
20	7.7	WS420-C
25	8.1	WS425-C
30	8.5	WS430-C



#### D-RING

12	4.6	WS412-D
16	4.9	WS416-D
20	5.2	WS420-D
25	5.6	WS425-D
30	6.0	WS430-D



MADE RIGHT HERE IN CANADA, THESE SEWN WINCH STRAPS COME IN CUSTOMIZABLE LENGTHS AND WITH MANY ASSORTED END ATTACHMENTS. WITH A DESIGN FACTOR OF 3:1 THE WORKING LOAD LIMIT, THESE TOUGH TIE DOWNS ARE SURE TO KEEP ANY COMPLIANT LOAD IN PLACE.

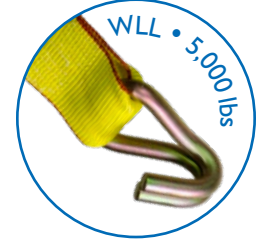
#### WIRE HOOK (3")

12	3.6	WS312-W3
16	3.9	WS316-W3
20	4.2	WS320-W3
25	4.6	WS325-W3
30	5.0	WS330-W3



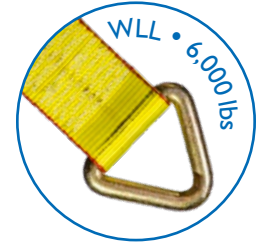
#### WIRE HOOK (1/2")

12	2.6	WS312-W
16	2.9	WS316-W
20	3.2	WS320-W
25	3.6	WS325-W
30	4.0	WS330-W



#### D-RING

12	2.6	WS312-D
16	2.9	WS316-D
20	3.2	WS320-D
25	3.6	WS325-D
30	4.0	WS330-D



#### WIRE HOOK

12	5.1	WS412-W
16	5.4	WS416-W
20	5.7	WS420-W
25	6.1	WS425-W
30	6.5	WS430-W



#### LOOP

6	2.5	WS406-L
12	3.1	WS412-L
16	3.4	WS416-L
20	3.7	WS420-L
25	4.1	WS425-L



#### FLAT HOOK

12	4.6	WS412-F
16	4.9	WS416-F
20	5.2	WS420-F
25	5.6	WS425-F
30	6.0	WS430-F



## RATCHET STRAPS:

1" WIDE

### WIRE HOOK

10	RS11810-W
12	RS11812-W
16	RS11816-W
20	RS11820-W

### WIRE HOOK (NARROW)

10	RS11810-H
12	RS11812-H
16	RS11816-H
20	RS11820-H

### WIRE HOOK (XL)

10	RS11810-WXL
12	RS11812-WXL
16	RS11816-WXL
20	RS11820-WXL

### WIRE HOOK (NARROW) & FLOATING D-RING

10	RS11810-HD
12	RS11812-HD
16	RS11816-HD
20	RS11820-HD

### SNAP HOOK

10	RS11210-SN
12	RS11212-SN
16	RS11216-SN
20	RS11220-SN

### S-HOOK

10	RS11210-S
12	RS11212-S
16	RS11216-S
20	RS11220-S

### RETRACTABLE

6	RS106-PK2
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OUR SEWN RATCHET STRAPS COME IN CUSTOMIZABLE LENGTHS WITH MANY END ATTACHMENTS, IN ADDITION TO A WIDE-HANDLE RATCHET COMPONENT. WITH A DESIGN FACTOR OF 3:1 THE WORKING LOAD LIMIT, THESE TOUGH TIE DOWNS ARE SURE TO KEEP ANY COMPLIANT LOAD IN PLACE.



## RATCHET STRAPS:

2" WIDE

### FLAT HOOK

12	RS21812-FXL
16	RS21816-FXL
20	RS21820-FXL
25	RS21825-FXL
27	RS21827-FXL
30	RS21830-FXL

### WIRE HOOK (7/16")

12	RS21812-WXL
16	RS21816-WXL
20	RS21820-WXL
25	RS21825-WXL
27	RS21827-WXL
30	RS21830-WXL

### TWISTED SNAP HOOK

12	RS21812-TSL
16	RS21816-TSL
20	RS21820-TSL
25	RS21825-TSL
30	RS21830-TSL

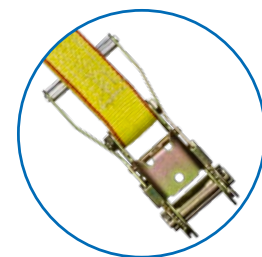
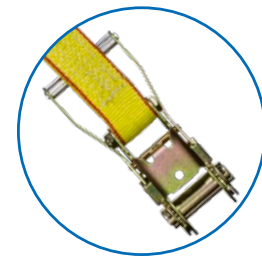
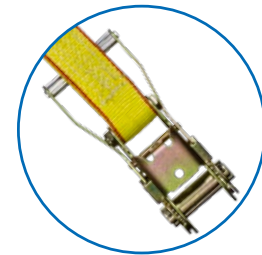
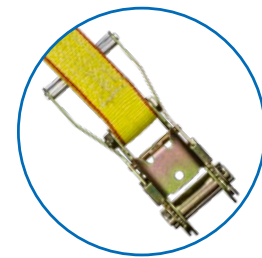
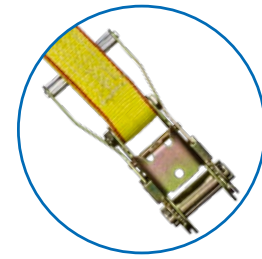
### WIRE HOOK (3/8")

12	RS21812-W3S
16	RS21816-W3S
20	RS21820-W3S
25	RS21825-W3S
30	RS21830-W3S

### CHAIN ANCHOR

12	RS23312-C
16	RS23316-C
20	RS23320-C
25	RS23325-C
30	RS23330-C

OUR SEWN RATCHET STRAPS COME IN CUSTOMIZABLE LENGTHS WITH MANY END ATTACHMENTS, IN ADDITION TO A WIDE-HANDLE RATCHET COMPONENT. WITH A DESIGN FACTOR OF 3:1 THE WORKING LOAD LIMIT, THESE TOUGH TIE DOWNS ARE SURE TO KEEP ANY COMPLIANT LOAD IN PLACE.



## RATCHET STRAPS:

3" WIDE

### FLAT HOOK

12	RS31812-F
16	RS31816-F
20	RS31820-F
25	RS31825-F
27	RS31827-F
30	RS31830-F

### WIRE HOOK (1/2")

12	RS31812-W
16	RS31816-W
20	RS31820-W
25	RS31825-W
30	RS31830-W

### GRAB HOOK (3/8")

12	RS31812-G
16	RS31816-G
20	RS31820-G
25	RS31825-G
30	RS31830-G

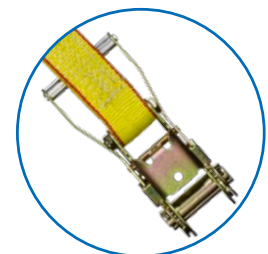
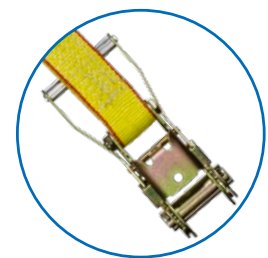
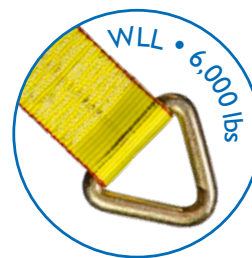
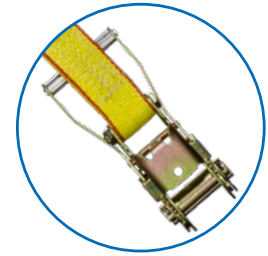
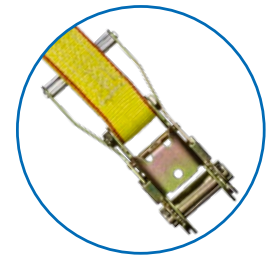
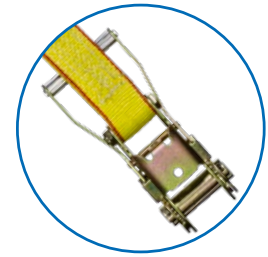
### WIRE HOOK (3/8")

12	RS31812-D
16	RS31816-D
20	RS31820-D
25	RS31825-D
30	RS31830-D

### CHAIN ANCHOR

12	RS33312-C
16	RS33316-C
20	RS33320-C
25	RS33325-C
30	RS33330-C

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## RATCHET STRAPS:

### 4" WIDE

### FLAT HOOK

12	RS41812-F
16	RS41816-F
20	RS41820-F
25	RS41825-F
30	RS41830-F

### WIRE HOOK (1/2")

12	RS41812-W
16	RS41816-W
20	RS41820-W
25	RS41825-W
30	RS41830-W

### D-RING

12	RS41812-D
16	RS41816-D
20	RS41820-D
25	RS41825-D
30	RS41830-D

### CHAIN ANCHOR

12	RS43312-C
16	RS43316-C
20	RS43320-C
25	RS43325-C
30	RS43330-C

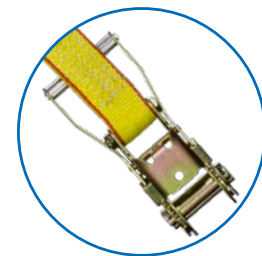
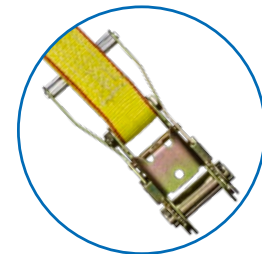
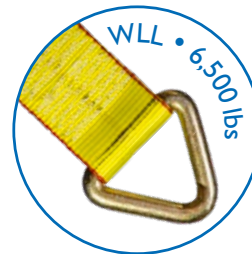
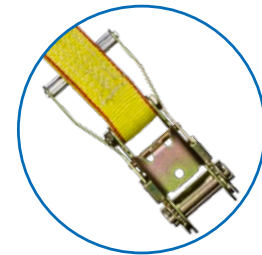
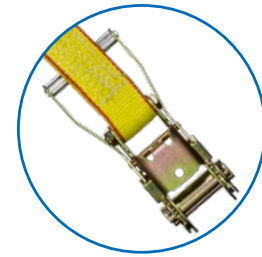
### Ratchet Strap Winder

#### CT92500

Ratchet Strap Winder		
Description	Wt.	Item
Std.	3.25	CT92500



OUR SEWN RATCHET STRAPS COME IN CUSTOMIZABLE LENGTHS WITH MANY END ATTACHMENTS, IN ADDITION TO A WIDE-HANDLE RATCHET COMPONENT. WITH A DESIGN FACTOR OF 3:1 THE WORKING LOAD LIMIT, THESE TOUGH TIE DOWNS ARE SURE TO KEEP ANY COMPLIANT LOAD IN PLACE.



### StrapPac

#### KIN-15602

This storage bag provides a quick and easy method to store the loose end of a ratchet strap

StrapPac	
Description	Item
StrapPac	KIN-15602





## Adjustable Wheel Tie Down w/ Ratchet Tail End

### CTWT1807-1

Wraps over the tire and secures with a ratchet on one end and a wire hook on the other end. Includes a wear sleeve to protect the strap against damage. This system comes with floating D-Ring. WLL of 1,666 lbs.



## 16" Wheel Tie Down w/ Ratchet Tail End

### CTWT1600

Popular style of wheel tie-down strap for quick and easy vehicle loading. Wraps over the tire and secures with a ratchet on one end and a wire hook on the other end. WLL of 1,666 lbs.



## Soft Hooks

### CTSH112 - CTSL124

Eliminates damage to handlebars and other miscellaneous chrome.

Soft Hooks		
Style	Length	Item
"8"	12	CTSH112
"8"	16	CTSH116
"8"	24	CTSH124
Loop	12	CTSL112
Loop	16	CTSL116
Loop	24	CTSL124
Black, Blue, Grey & Yellow		

## Tie Down Bars

### CT70906 - CT70907

24", 28", or 36" Tie Down Bars fit the chain ratchets found on auto transporters. A knurled grip has been included for added safety.



## Short Bed Netting Long Bed Netting

For short beds - 72" W x 80" L

For standard beds - 72" W x 96" L

Cargo Nets		
Description	Size	Item
Short Bed	72Wx80L	KIN-50199-10
Long Box	72Wx96L	KIN-50199-11



## Axle Straps

### CTX218 - CTX236-3

Single or Triple ply with wear pads. WLL of 1,666/3,335 lbs.



## Adj. Wheel Tie Down w/ Ratchet Ends

### CTWT1800-2

Fits 16-22" Tires. WLL of 3,335 lbs.



Auto Tie Down	
Description	Item
Wheel Tie Down	CTWT1807-1
Wheel Tie Down	CTWT1600
Axle Strap-1 Ply. 18"	CTX218
Axle Strap-1 Ply. 24"	CTX224
Axle Strap-1 Ply. 28"	CTX228
Axle Strap-1 Ply. 36"	CTX236
Axle Strap-3 Ply. 18"	CTX218-3
Axle Strap-3 Ply. 24"	CTX224-3
Axle Strap-3 Ply. 28"	CTX228-3
Axle Strap-3 Ply. 36"	CTX236-3
Wheel Tie Down	CTWT1800-2
24" Tie Down Bar	CT70906
28" Tie Down Bar	CT70905
36" Tie Down Bar	CT70907

## Log Truck Wrapper Cables

### WRAP004X32 - WRAP005X32

Grade 70 tail chains with grab hook and tagged with WLL

Log Truck Aircraft Cable Wrapper Cables Tagged & Stamped		
Description.	WLL	Item
1/4" x 32'	2,300	WRAP004X32
5/16"x32'	3,300	WRAP005X32

Log Truck Power-Pac Wrappers		
Description.	WLL	Item
8 x 32 Rope	4,130	WRAP08-32ROPE
8 x 32 Assy	4,130	WRAP08-32ASY
11 x 21	7,166	WRAP11-21ROPE
11 x 28	7,166	WRAP11-28ASY
Replacement parts		
4 x 6 Web	7,166	WS406-L
5/16 Con.	4,700	TD-G07
3/8 con	6,600	TD-G08
5/16 Tail	4,700	CT38160
3/8 Tail	6,600	CT38160-3

## Chain & Web V-Slings with RTJ Cluster Hooks

### CTVC536-RTJ

The abrasion resistant webbing is gentle on the vehicle, but extremely tough for heavy applications. The heavy duty forged 3/4" master ring is pear shaped to accept your winch hook easily. WLL of 4,700 lbs. Each leg is constructed of 3" 2 ply. Chain V-Sling also available.

**NOT FOR RECOVERY OR FOR OVERHEAD LIFTING**

Heavy Duty Tow Slings			
Size	Ply	Breaking Load	Item
2x30'	1	15,000	TOW1-02X30
3x25'	1	24,000	TOW1-03X25
4x16'	1	32,000	TOW1-04X16
4x25'	1	32,000	TOW1-04X25
6x12'	1	48,000	TOW1-06X12
6x25'	1	48,000	TOW1-06X25
8x30'	1	58,700	TOW1-08X30
4x25'	2	57,000	TOW2-04X25
Heavy Equipment Tow Slings			
4x30'	2	57,000	TOW2-04X30
6x20'	2	100,000	TOW2-06X20
6x30'	2	100,000	TOW2-06X30
8x30'	2	128,000	TOW2-08X30
8x50'	2	128,000	TOW2-08X50
12x50'	2	200,000	TOW2-12X50



## Log Truck Power-Pac Wrappers

### WRAP08-32ROPE

Easy to handle chain that can be replaced if damaged. Has equivalent stretch to wire and eliminates any chance of fish hook or jagger injury.



1/4" G70 Transport Chain & Cluster RTJ-hook		
Lgth.	WLL	Item
4 ft.	3,150	CT38170-4
5 ft.	3,150	CT38170-5
6 ft.	3,150	CT38170-6
8 ft.	3,150	CT38170-8



1/4" G70 Transport Chain & Cluster RTJG-hook		
Lgth.	WLL	Item
4 ft.	3,150	CT38171-4
5 ft.	3,150	CT38171-5
6 ft.	3,150	CT38171-6
8 ft.	3,150	CT38171-8



## 15" J-Hook

CM92859

WLL 4,700 lbs  
Weighs 3.5 lbs



## 4" Mini J-Hook

CM92711

WLL 4,700 lbs  
Weighs 1.11 lbs



## J-Hook & Grab Hook

CT38180

WLL 4,700 lbs  
Weighs 3.5 lbs



## T & Grab Hook

CT38181

WLL 4,700 lbs  
Weighs 1.25 lbs



## Cluster RTJ Hook

CT38170

WLL 4,000 lbs  
Weighs 2.21 lbs



## 8" J-Hook

CM91259

WLL 4,700 lbs  
Weighs 2.89 lbs



## T & Mini J-Hook

CT38182

WLL 4,700 lbs  
Weighs 1.35 lbs



## Cluster RTJ Hook With 3 Links

CT38270

WLL 4,000 lbs  
Weighs 2.56 lbs



## Cluster RTCG Hook

CT38271

WLL 4,700 lbs  
Weighs 3.10 lbs



## Cluster RTJG Hook

CM638317

WLL 4,700 lbs  
Weighs 3.10 lbs



### Auto Tie Down Accessories

Description	Item
15" J Hook	CM92859
8" J Hook	CM91259
4" Mini J Hook	CM92711
T & Mini J Hook	CT38187
T Hook	CM93406
R Hook	CM93423
J Hook & Grab   Hook	CT38180
5/8 Pear Shaped Link	CM95664
Cluster RTJ- Hook w/ 3 Links	CT38270
Cluster RTJ Hook	CT38170
Cluster RJ/TG Hook	CM638317
T & Grab Hook	CT38181
Cluster RTCG Hook	CT38271
Web V-Slings	
V-Slings-3 x24 -RTJ	CTVA324-RTJ
V-Slings-3 x30 -RTJ	CTVA330-RTJ
Chain V-Slings	
V-Slings Adjust 5/16x3 RJ/T	638331

## Snappi Hookers

TD-BG09 - BG31

With an easily identifiable blue colour and operational durability to -40°C, Snappi Hookers offer 2-1/2x safe stretch, and are non-cracking.

Meets DOT safe working load limit. 50 lb SWL. Made to ISO9001/ AS9100 certification. Stamped with 50 lb SWL as required by DOT.

Snappi Hookers	
Size	Item
9"	TD-BG09
15"	TD-BG15
20"	TD-BG20



## Solid Rubber Rope

CT61238 - CT61239

Provides fast and secure tie down of tarps. Use the Rubber Rope Hook to make custom length tarp ties. Hooks are sold 100 per bag.

Rubber Rope			
Dia.	Description	Wt.	Item
3/8	3/8" x 150' Roll	9	CT61238
7/16	7/16" x 150' Roll	11	CT61239
	Rubber Rope Hook	0.1	CT61240



# General Load Securement Requirements

## Cargo must be secured firmly on or within a vehicle by:

- Structures of adequate strength
- Dunnage (loose materials used to support and protect cargo) or Dunnage bags (inflatable bags intended to fill space between articles of cargo or between cargo and the wall of the vehicle)
- Shoring bars
- Tie-downs
- A combination of the above

## Cargo Placement and Restraint

Articles of cargo that are likely to roll must be restrained by chocks, wedges, a cradle or other equivalent means to prevent rolling. They must remain fastened or secured while the vehicle is moving. Articles of cargo placed beside each other and secured by tie-downs placed across the cargo must be:

- Placed in direct contact with each other
- Prevented from shifting toward each other while the vehicle is moving

## Minimum Working-Load Limits

The aggregate working-load limit of the tie-downs used for an article or a group of articles of cargo must be at least 50 percent of the weight of that article or group of articles. The aggregate working-load limit is the sum of:

- The working load limit for each tie-down that goes from an anchor point on the vehicle to an attachment point on an article of cargo (direct tie-down)
- The working-load limit for each tie-down that goes from an anchor point on the vehicle, through or over the cargo, and then attaches to another anchor point on the vehicle (indirect tie-down)

## Minimum Number of Tie-Downs

The cargo-securement system used to secure cargo must consist of the minimum required number of tie-downs. This requirement is in addition to complying with rules concerning the aggregate working load limit. When an article of cargo is not blocked or positioned to prevent movement in the forward direction, the number of tie-downs needed depends on the length and weight of the articles. There must be at least:

- One tie-down for articles 1.52 metres or less in length, and 500 kilograms or less in weight
- Two tie-downs if the article is: 1.52 metres (five feet) or less in length and more than 500 kilograms (1,100 lb.) in weight OR Greater than 1.52 metres (five feet) but less than 3.04 metres (10 feet), regardless of weight

For example, one tie-down is required if the article of cargo is 1.52 metres in length (five feet) and does not exceed 500 kilograms (1,100 lb.). If the article of cargo is greater than 1.52 metres in length but less than 3.04 metres, then two tie-downs would be needed, regardless of the weight. When an article of cargo is not blocked or positioned to prevent forward movement and the item is longer than 3.04 metres (10 feet) in length, then it must be secured by:

- Two tie-downs for the for the first 3.04 metres (10 feet) of cargo
- One tie-down for each additional 3.04 metres (10 feet) or fraction thereof

If an article is blocked or braced by a header board, bulkhead or other articles that are adequately secured to prevent forward movement, then it must be secured by at least:

- One tie-down for every 3.04 metres of article length, or fraction thereof

## Cargo-securement standards require

That all devices and systems used to secure cargo to, or within, a vehicle must be capable of meeting the performance criteria. All vehicle structures, systems, parts and components used to secure cargo must be in proper working order when in use. This means that they cannot be damaged or weakened, so as to affect their performance.

The cargo-securement standard has a reference for manufacturing standards for certain types of tie-downs, including steel strapping, chain, synthetic webbing, wire rope, and cordage. Changes in the references do not necessarily mean that the older securement devices need to be replaced.

## Proper Use of Tie-Downs

Each tie-down must be attached and secured so that it doesn't become loose, unfastened, opened or released while the vehicle is moving. All tie-downs and other components of a cargo-securement system must be located inside any rub rails, whenever practical. Also, edge protection must be used whenever a tie-down would be subject to wear or cutting at the point where it touches an article of cargo. The edge protection must resist wear, cutting and crushing.

## Use of Unmarked Tie-Downs

The cargo-securement standards do not allow the use of a tie-down, or component of a tie-down, to secure cargo to a vehicle unless it is marked by the manufacturer with respect to its working load limit.

## Unrated and Unmarked Anchor Points on Commercial Vehicles

The cargo-securement rules do not require the rating and marking of anchor points on a vehicle or on cargo. While vehicle manufacturers are encouraged to rate and mark anchor points, the new rules do not include this as a requirement.

## Front-End Structures on Commercial Vehicles

Rules concerning front-end structures or header boards are included in NSC Standard 10, and cover commercial vehicles transporting cargo that is in contact with the front-end structure of the vehicle.

## Special Rule for Special-Purpose Vehicles

Generally, the basic rules concerning the minimum number of tie-downs do not apply to a vehicle transporting one or more articles of cargo such as machinery or manufactured structural items (for example, steel or concrete beams, crane booms, girders, trusses and so on), which because of their design, size, shape or weight must be secured by special methods.

However, any article of cargo carried on that vehicle must be adequately secured by devices that are capable of meeting the performance requirements and the working-load limit requirements.





# TRANS+

TRANS+, a Sling-Choker brand, is our product line dedicated to excellence in materials management and hose applications. Containing various industrial hoses, fittings, assemblies, and accessories, TRANS+ covers your material transfer needs, with products that suit a wide range of specifications.

G33 Carbon Steel Combination Nipple			G33G Galvanized	
Pipe Size	Hose Size	Item		Item
1/2"	1/2"	G33-050		G33G-050
3/4"	3/4"	G33-075		G33G-075
1"	1"	G33-100		G33G-100
1-1/4"	1-1/4"	G33-125		G33G-125
1-1/2"	1-1/2"	G33-150		G33G-150
2"	2"	G33-200		G33G-200
2-1/2"	2-1/2"	G33-250		G33G-250
3"	3"	G33-300		G33G-300
4"	4"	G33-400		G33G-400
5"	5"	G33-500		G33G-500
6"	6"	G33-600		G33G-600
8"	8"	G33-800		
10"	10"	G33-1000		
12"	12"	G33-1200		
Jump Sizes				
1"	1-1/4"	G33-100-125		
1-1/4"	1-1/2"	G33-125-150		

## Combination Nipple

**G33(G)-050 - G33(G)-1200**

Carbon Steel or Galvanized

**Green Line**  
HOSE & FITTINGS



WE OFFER HOSE MENDERS IN A VARIETY OF MATERIALS TO SUIT THE PRODUCTS IN THIS CATALOGUE

## Victaulic Combination Nipple

**G33V-150 - 1200**

Grooved Carbon Steel



G33V Victaulic Grooved Carbon Steel Combination Nipple	
Pipe Size	Item
1-1/2"	G33v-150
2"	G33V-200
2-1/2"	G33V-250
3"	G33V-300
4"	G33V-400
5"	G33V-500
6"	G33V-600
8"	G33V-800
10"	G33V-1000
12"	G33V-1200

G20S Plated Steel Hose Mender	
Pipe Size	Item
3/8"	G20S-038
1/2"	G20S-050
5/8"	G20S-063
3/4"	G20S-075
7/8"	G20S-088
1"	G20S-100
1-1/8"	G20S-113
1-1/4"	G20S-125
1-1/2"	G20S-150
2"	G20S-200
2-1/2"	G20S-250
3"	G20S-300
4"	G20S-400
5"	G20S-500
6"	G20S-600

## Plated Steel Hose Mender

**G20S-038 - 1200**

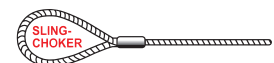


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TRANS+

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[www.slingchoker.com](http://www.slingchoker.com)



G31BLS Brass Male Long Shank Coupling	
Size	Item
3/4"	G31BLS-075
1"	G31BLS-100
1-1/4"	G31BLS-125
1-1/2"	G31BLS-150
2"	G31BLS-200

G30G Gaskets Short & Long Shank Couplings	
Size	Item
1"	G30G-100
1-1/4"	G30G-125
1-1/2"	G30G-150
2"	G30G-200
2-1/2"	G30G-250
3"	G30G-300

G32BLS Brass Female Long Shank Coupling	
Size	Item
3/4"	G32BLS-075
1"	G32BLS-100
1-1/4"	G32BLS-125
1-1/2"	G32BLS-150
2"	G32BLS-200

## Brass Male Long Shank Coupling

## Short & Long Shank Gaskets

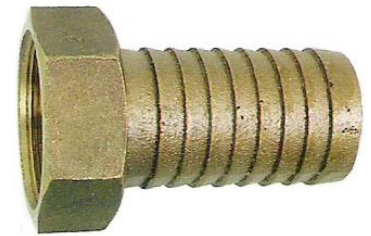
## Brass Female Long Shank Coupling

**G318BLSC-075 - 200**

**G30G-100 - 400**

**G328BLSC-075 - 200**

Brass long shanks are typically used on wash down hoses where the longer shank provides extra fitting retention. 3/4" and 1" fittings are machined brass—larger sizes are cast.



Cast Iron Foot Valve & Strainer	
Size	Item
1-1/2"	G34FV-150
2"	G34FV-200
2-1/2"	G34FV-250
3"	G34FV-300
4"	G34FV-400
6"	G34FV-600
8"	G34FV-800

G34FV Replacement Leather	
Size	Item
1-1/2"	G34FVL-150
2"	G34FVL-200
2-1/2"	G34FVL-250
3"	G34FVL-300
4"	G34FVL-400
6"	G34FVL-600
8"	G34FVL-800

G34FVS Replacement Strainer	
Size	Item
1-1/2"	G34FVS-150
2"	G34FVS-200
2-1/2"	G34FVS-250
3"	G34FVS-300
4"	G34FVS-400
6"	G34FVS-600
8"	G34FVS-800

## Foot Valve & Strainer

## Foot Valve & Strainer Replacement Leather

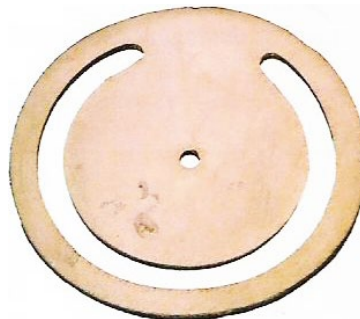
## Replacement Strainer

**G34FV-150 - 800**

**G34FVL-150 - 800**

**G34FVS-150 - 800**

Cast iron foot valves employ a leather flapper that prevents the pump from losing its prime. They are ideal where the pump must be left unattended for long periods. The weight of the iron ensures that the valve remains in the water.



### G 34 Round Hole Strainer (Plated Steel)

Hole		
Size	Size	Item
1-1/2"	3/8"	G34-150
2"	3/8"	G34-200
2-1/2"	3/8"	G34-250
3"	3/8"	G34-300
4"	3/8"	G34-400
6"	1"	G34-600

### Long Strainer

#### G34L-150 - 400

Long and slim for use in narrow or confined openings. The design is generally no wider than the hose itself. Popular when pumping from ice covered water supplies.



G20B Brass Hose Mender	
Pipe Size	Item
1/8"	G20B-013
3/16"	G20B-019
1/4"	G20B-025
5/16"	G20B-031
3/8"	G20B-038
1/2"	G20B-050
5/8"	G20B-063
3/4"	G20B-075

### Brass Hose Mender

#### G20B-013 - 075



Ground Joint Female Spud	
Size	Item
1/2"	G29F-050
3/4"	G29F-075
1"	G29F-100
1-1/4"	G29F-125
1-1/2"	G29F-150
2"	G29F-200
2-1/2"	G29F-250
3"	G29F-300
4"	G29F-400

### Ground Joint Female Spud

#### G29F-050 - 400



### Round Hole Strainer

#### G34-150 - 800

Made from Zinc plated steel. The open area of 50% allows removal of damaging debris while still maintaining adequate flow.



G34L Long Strainer (Plated Steel)		
Hole		
Size	Size	Item
1-1/2"	3/8"	G34L-150
2"	3/8"	G34L-200
3"	3/8"	G34L-300

Ground Joint Female Stem	
Size	Item
1/2"	G29S-050
3/4"	G29S-075
1"	G29S-100
1-1/4"	G29S-125
1-1/2"	G29S-150
2"	G29S-200
2-1/2"	G29S-250
3"	G29S-300

### Ground Joint Female Stem

#### G29S-050 - 400

For heavy duty applications such as steam, air supply, construction, road building and drilling. Coarse threads make G29 Couplings easy to couple in the field and the heavy duty wing nuts can be tightened using a hammer.



Ground Joint Wing Nut	
Size	Item
1/2"	G29N-050
3/4"-1"	G29N-075
1-1/4"-1-1/2"	G29N-125
2"	G29N-200
2-1/2"	G29N-250
3"	G29N-300
4"	G29N-400

### Ground Joint Wing Nut

#### G29N-050 - 400





Ground Joint Double Spud	
Size	Item
1/2"	G29DS-050
3/4"-1"	G29DS-075
1-1/4"-1-1/2"	G29DS-125
2"	G29DS-200
3"	G29DS-300

## Ground Joint Double Spud

**G29DS-050 - 300**



Ground Joint Male Spud	
Size	Item
1/2"	G29M-050
3/4"	G29M-075
1"	G29M-100
1-1/4"	G29M-125
1-1/2"	G29M-150
2"	G29M-200

## Ground Joint Male Spud

**G29M-050 - 200**



G23S Steel Male NPT Hose Barb		
Hose Size	Pipe Size	Item
1/8"	1/4"	G23S-013-025
1/4"	1/4"	G23S-025-025
1/4"	3/8"	G23S-025-038
1/4"	1/2"	G23S-025-050
3/8"	1/4"	G23S-038-025
3/8"	3/8"	G23S-038-038
3/8"	1/2"	G23S-038-050
1/2"	3/8"	G23S-050-038
1/2"	1/2"	G23S-050-050
1/2"	3/4"	G23S-050-075
3/4"	1/2"	G23S-075-050
3/4"	3/4"	G23S-075-075
3/4"	1"	G23S-075-100
1"	3/4"	G23S-100-075
1"	1"	G23S-100-100
1-1/4"	1-1/4"	G23S-125-125
1-1/2"	1-1/2"	G23S-150-150
2"	2"	G23S-200-200
2-1/2"	2-1/2"	G23S-250-250
3"	3"	G23S-300-300

G29C Bolt Clamps				
Nom Size	Hose Min	O.D. Max	Cross Ref	Item
3/8"	0.69	0.88	CD	G29C-038
1/2"	0.81	0.94	DD	G29C-050AA
1/2"	0.94	1.06	B4	G29C-050A
1/2"	1.06	1.19	B5	G29C-050B
3/4"	1.16	1.28	BU95	G29C-075AA
3/4"	1.19	1.31	BU95	G29C-075A
3/4"	1.31	1.5	B9	G29C-075B
3/4"	1.5	1.69	B10	G29C-075C
1"	1.41	1.56	\$156.00	G29C-100AA
1"	1.53	1.72	BU14	G29C-100A
1"	1.63	1.84	B14	G29C-100B
1"	1.88	2.06	B15	G29C-100C
1-1/4"	2.06	2.25	B19	G29C-125
1-1/2"	1.81	2	BU22	G29C-150AAA
1-1/2"	2	2.22	B22	G29C-150AA
1-1/2"	2.09	2.28	BU24	G29C-150A
1-1/2"	2.25	2.44	B24	G29C-150B
1-1/2"	2.47	2.72	B25	G29C-150C
2"	2.34	2.53	BU28	G29C-200AA
2"	2.5	2.78	BU29	G29C-200A
2"	2.75	3.06	B29	G29C-200B
2"	3.09	3.44	B30	G29C-200C
2-1/2"	3.5	3.94	B34	G29C-250
3"	3.5	3.94	BU35	G29C-300AA
3"	3.81	4.19	B35	G29C-300A

## Steel Male NPT Hose Barb

### G23S

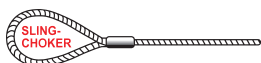
G23S Stems feature long shanks for extra fitting retention, and collars for use with G29C interlocking clamps. Sizes up to and including 1" are carbon steel. Sizes above 1" are made from ductile iron. All G23S series stems are zinc plated.



## Heavy Duty Bolt Clamps

### G29C-038(A/AA/B) - 400(AA/B)

G29C clamps are designed to lock into the collars provided on G23S and G29S hose stems. This feature prevents fitting pull-out. G29C clamps are plated ductile iron. Clamps have 2, 4, or 6 bolts depending on size.



## Mining Hose Fittings

G19 series fittings are unique to the mining industry and are not typically found in other applications. Our mining fittings are made from plated steel.

Mining hose fittings are commonly found on Heavy Duty Mining hoses such as the G242 or G243.



G19S Mining Female Stem		
Pipe Size	Hose Size	Item
1/2"	1/2"	G19S-050-050
1"	1/2"	G19S-100-050
1"	3/4"	G18S-100-075
1"	1"	G19S-100-100
1-1/4"	1-1/4"	G19S-125-125
1-1/2"	1-1/2"	G19S-150-150
2"	2"	G19S-200-200

### Mining Female Stem

G19S-050-050 - G19S-200-200



G19DS Mining Hose Union	
Pipe Size	Item
1"	G19DS-100

### Mining Hose Union

G19DS-100



G19N Mining Hex Nut	
Pipe Size	Item
1/2"	G19N-050
1"*	G19N-100
1-1/4"	G19N-125
1-1/2"	G19N-150
2"	G19N-200

The 1" hex nut is used with G19S-100-050 and -100

### Mining Hex Nut

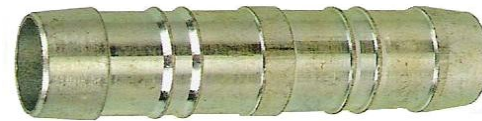
G19N-050 - G19N-200



G20M Collared Iron Hose Mender	
Pipe Size	Item
1/2"	G20M-050
1"	G20M-100
1-1/4"	G20M-125
1-1/2"	G20M-150
2"	G20M-200

### Collared Iron Hose Mender

G20M-050 - G20M-200



G19F Mining Female Spud		
Pipe Size	Hose Size	Item
3/8"	1"	G19F-038-100
3/4"	1"	G19F-075-100
1"	1"	G19F-100-100

### Mining Female Spud

G19F-038-100 - G19F-100-100



G25 Universal Hose End	
Size	Item
3/8"	G25-038
1/2"	G25-050
3/4"	G25-075
1"	G25-100

## Universal Hose End

**G25-038 - 100**

G26 Univ. Male Pipe Adapter	
Size	Item
1/4"	G26-025
3/8"	G26-038
1/2"	G26-050
3/4"	G26-075
1"	G26-100

## Universal Male Adapter

**G26-025 - 100**

G27 Univ. Female Pipe Adapter	
Size	Item
1/4"	G27-025
3/8"	G27-038
1/2"	G27-050
3/4"	G27-075
1"	G27-100

## Universal Female Adapter

**G27-025 - 100**

Universal fittings are designed to offer a quick connection on air hoses, typically for jackhammer and similar applications. To ensure that couplings are fully connected, and to prevent accidental disconnection, safety clips should always be used. Universal couplings are rated for 110psi maximum and are not designed for steam service. Larger sizes are available in four-leg style.



Universal Fitting Accessories	
Description	Item
Standard Gasket	G28
Lanyard	G28L
Oil Resistant Gasket	G28P
Safety Clip	G28SC
Heavy Duty Safety Pin	G28SP
Three Way Connector	G28Y



**Oil-Resistant Gasket**

**G28P**



**Standard Gasket**

**G28**



**Lanyard**

**G28L**



**Safety Clip**

**G28SC**

Four-Lug Universal	
Size	Item
1-1/4"	G25-125
1-1/2"	G25-150
2"	G25-200

## Four Lug Universal

**G25-125 - 200**

Four-Lug Female Pipe Adapter	
Size	Item
1-1/4"	G27-125
1-1/2"	G27-150
2"	G27-200

## Four Lug Female Pipe Adapter

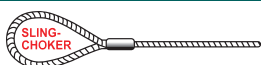
**G27-125 - 200**

Four-Lug Gasket	
Size	Item
1-1/4"	G28-125

## Four Lug Gasket

**G28-125**

Four lug universals are still occasionally found in pulp mill wash down and other mill applications. As with standard universals, they should be



## Aluminum Couplers and Adapters

Our aluminum cam-locks are manufactured from aluminum alloy 384 (JIS grade ADS12) and feature type 316 stainless pins, forged brass handles, and plated steel finger rings. G65 Couplings fit MIL SPEC27487 in sizes up to 6" and will interchange with other coupling that meet this specification. No government standard has been established for 1/2" and 8" so different manufacturers' coupling may not interchange in this size. Female couplers are supplied with locking clips. NOTE: Cam-Locks should not be used with compressed air or other compressed gases.

Aluminum Working Pressures	
1/2" to 2"	250 PSI
2-1/2" to 4"	150 PSI
5" to 6"	75 PSI
8"	50 PSI

G65A Part A Female NPT Adapter. Alum.	
Size	Item
1/2"	G65A-050
3/4"	G65A-075
1"	G65A-100
1-1/4"	G65A-125
1-1/2"	G65A-150
2"	G65A-200
2-1/2"	G65A-250
3"	G65A-300
4"	G65A-400
5"	G65A-500
6"	G65A-600
8"	G65A-800

### Aluminum Part A Female NPT Adapter

**G65A-050 - 800**



G65C Part C Hose Shank Coupler. Alum.	
Size	Item
1/2"	G65C-050
3/4"	G65C-075
1"	G65C-100
1-1/4"	G65C-125
1-1/2"	G65C-150
2"	G65C-200
2-1/2"	G65C-250
3"	G65C-300
4"	G65C-400
5"	G65C-500
6"	G65C-600
8"	G65C-800

### Aluminum Part C Hose Shank Coupler

**G65C-050 - 800**



### Aluminum Part E Hose Shank Adapter

**G65E-050 - 800**



G65E Part E Hose Shank Adapter. Alum.	
Size	Item
1/2"	G65E-050
3/4"	G65E-075
1"	G65E-100
1-1/4"	G65E-125
1-1/2"	G65E-150
2"	G65E-200
2-1/2"	G65E-250
3"	G65E-300
4"	G65E-400
5"	G65E-500
6"	G65E-600
8"	G65E-800

### Aluminum Part F Male NPT Adapter

**G65F-050 - 800**



G65F Part F Male NPT Adapter. Alum.	
Size	Item
1/2"	G65F-050
3/4"	G65F-075
1"	G65F-100
1-1/4"	G65F-125
1-1/2"	G65F-150
2"	G65F-200
2-1/2"	G65F-250
3"	G65F-300
4"	G65F-400
5"	G65F-500
6"	G65F-600
8"	G65F-800

G65B Part B Male NPT Coupler. Alum.	
Size	Item
1/2"	G65B-050
3/4"	G65B-075
1"	G65B-100
1-1/4"	G65B-125
1-1/2"	G65B-150
2"	G65B-200
2-1/2"	G65B-250
3"	G65B-300
4"	G65B-400
5"	G65B-500
6"	G65B-600
8"	G65B-800

### Aluminum Part B Male NPT Coupler

**G65B-050 - 800**



G65D Part D Female NPT Coupler. Alum.	
Size	Item
1/2"	G65D-050
3/4"	G65D-075
1"	G65D-100
1-1/4"	G65D-125
1-1/2"	G65D-150
2"	G65D-200
2-1/2"	G65D-250
3"	G65D-300
4"	G65D-400
5"	G65D-500
6"	G65D-600
8"	G65D-800

### Aluminum Part D Female NPT Coupler

**G65D-050 - 800**



G65DC Part DC Dust Cap. Alum.	
Size	Item
1/2"	G65DC-050
3/4"	G65DC-075
1"	G65DC-100
1-1/4"	G65DC-125
1-1/2"	G65DC-150
2"	G65DC-200
2-1/2"	G65DC-250
3"	G65DC-300
4"	G65DC-400
5"	G65DC-500
6"	G65DC-600
8"	G65DC-800

## Aluminum Part DC Dust Cap

**G65DC-050 - 800**



G65DP Part DP Dust Plug. Alum.	
Size	Item
1/2"	G65DP-050
3/4"	G65DP-075
1"	G65DP-100
1-1/4"	G65DP-125
1-1/2"	G65DP-150
2"	G65DP-200
2-1/2"	G65DP-250
3"	G65DP-300
4"	G65DP-400
5"	G65DP-500
6"	G65DP-600
8"	G65DP-800

## Aluminum Part DP Dust Plug

**G65DP-050 - 800**



## Aluminum Part CA Reducer Adapter

**G65CA-150-200 - G65CA-600-400**



G65CA Reducer-Adapter, Alum.		
Female Size	Male Size	Item
1-1/2"	2"	G65CA-150-200
2"	1-1/2"	G65CA-200-150
2"	3"	G65CA-200-300
2"	4"	G65CA-200-400
3"	2"	G65CA-300-200
3"	4"	G65CA-300-400
4"	2"	G65CA-400-200
4"	3"	G65CA-400-300
4"	6"	G65CA-400-600
6"	3"	G65CA-600-300
6"	4"	G65CA-600-400

## Cam-Lock Gaskets

**G65(V)X-050 - 800**

Made from Buna-N (Nitrile) rubber. We also stock common sizes of Viton rubber gaskets as shown below for special chemical applications. Other sizes of Viton gaskets as well as gaskets of other material are available on special order.



G65 X Cam-Lock Gasket	
Size	Item
1/2"	G65X-050
3/4"	G65X-075
1"	G65X-100
1-1/4"	G65X-125
1-1/2"	G65X-150
2"	G65X-200
2-1/2"	G65X-250
3"	G65X-300
4"	G65X-400
5"	G65X-500
6"	G65X-600
8"	G65X-800
Viton Gaskets	
1-1/2"	G65VX-150
2"	G65VX-200
3"	G65VX-300
4"	G65VX-400

## Sandblast Nozzle Holder

**G72-075 - 150**

G72 Sandblast Nozzle Holder	
Size	Item
3/4"	G72-075
1"	G72-100
1-1/4"	G72-125
1-1/2"	G72-150



## Sandblast Couplings

**G75-075 - 150**

Fits snugly over the cover of G722 sandblast hose and are fastened with screws into the hose carcass. The over-the-cover design allows unimpeded flow of the sand or glass beads, and minimizes coupling wear. Nozzle holders are threaded to accept sand nozzles and female NPT adapters allow attachment to the machine. Couplings are aluminum or brass and come complete with natural rubber gaskets and screws.

## Sandblasting Gasket

**G78**

G78 Sandblasting Gasket	
Size	Item
1-1/4"	G78



G75 Sandblast Coupling	
Size	Item
3/4"	G75-075
1"	G75-100
1-1/4"	G75-125
1-1/2"	G75-150



## Brass Cam-Lock Arm w/ Finger Ring & Pin

G65Y-075 - 800

G65Y Brass Cam-Arm with Finger Ring & Pin	
Size	Item
3/4"	G65Y-075
1"	G65Y-100
1-1/4"-2-1/2"	G65Y-125
3"-5"	G65Y-300
6"	G65Y-600
8"	G65Y-800



## Velcro Arm Straps

G65VS-300 - 400

G65VS Velcro Arm Straps	
Size	Item
Up to 3"	G65VS-300
4"-6"	G65VS-400



Instantaneous fittings are brass or aluminum couplings designed for use in forest fire fighting. Since ends are interchangeable (there are no male or female hose ends) and connections are made with a simple quarter-turn, multiple hoses can be laid out and joined quickly. Hose fittings are brass for better resistance to cracking during installation onto hose.

## Stainless Steel Cam-Lock Arm With Finger Ring & Pin

G65SSY-075 - 600

G65SSY Stainless Steel Cam-Arm with Finger Ring & Pin	
Size	Item
3/4"	G65SSY-075
1"	G65SSY-100
1-1/4"-2-1/2"	G65SSY-125
3"-5"	G65SSY-300
6"	G65SSY-600



## Locking Cam-Lock Arm With Finger Ring, Pin, & Lock Plate

G65LY-200 - 300

G65LY Locking Cam Arm with Finger Ring, Pin & Lock Plate	
Size	Item
2"	G65LY-200
3"	G65LY-300

G65LY Locking arms can only be installed on G65L series couplers



## Cam-Lock Ring

G65R

G65R Cam-Lock Ring	
Size	Item
Std. Ring	G65R



## Security Chain With S Hooks

G65SSZX6 - G65SSZX12

G65SSZ Security Chain with S Hooks	
Size	Item
6" Stainless	G65SSZX6
12" Stainless	G65SSZX12



## Cam-Lock Safety Lock Clip

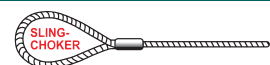
G65SC - G65SC-600

G65SC Cam Lock Safety Lock Clip	
Size	Item
1/2"-5"	G65SC
6"	G65SC-600



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## Instantaneous Hose Fitting

G85(B)-150-169

G85 Instantaneous Hose Fitting		
Hose Size	Bowl Size	Item
1-1/2"	1-11/16" Brass	G85B-150-169
1-1/2"	1-11/16"	G85-150-169



## Instantaneous Male Pipe Adapter

G86-100 - 150

G86 Instantaneous Male Pipe Adapter	
Pipe Size	Item
1"	G86-100
1-1/2"	G86-150



## Grooved Gasket

G88 - G88W

G88 Grooved Gasket	
Description	Item
Grooved Gasket	G88
Fits G87 NPSH Thread	G88W



## Instantaneous Female Pipe Adapter

G87(S)-100 - 150

G87 Instantaneous Female Pipe Adapter	
Pipe Size	Item
1" NPT	G87-100
1-1/2" NPT	G87-150
1-1/2" NPSH*	G87S-150

\* G87S has a short, Straight thread to connect to male fire hose threads



## Red Plastic Fog Nozzle

G97-075 - 200

G97 Red Plastic Fog Nozzle	
Description	Item
3/4" Pipe, NPSM	G97-100
1" Pipe, NPSM	G971-075
1-1/2" Pipe, NPSM	G971-600
2" Pipe, NPSM	G972-150
Garden Hose Thread	C101-02
1-1/2" Replacement Gasket	G97-GHT



## Instantaneous Cap

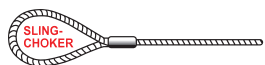
G88C

G88C Instantaneous Cap	
Description	Item
Cap	G88C



**ANY JOB MEANS ANY JOB**

**WE'RE MOTIVATED TO TACKLE ANY PROJECT, WHETHER IT IS A MILE UNDERGROUND OR IN YOUR OWN BACKYARD**



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TRANS+

Heavy Duty Bolt Clamps				
Range	Range	Band	430 Stainless	304 Stainless
mm	Inch	Width		
17-1	.67-.75	0.708	G92-1719	G94-1719
19-21	.75-.83	0.708	G92-1921	G94-1921
21-23	.83-.91	0.708	G92-2123	G94-2123
23-28	.91-.98	0.708	G92-2325	G94-2325
25-27	.98-1.06	0.708	G92-2527	G94-2527
27-29	1.06-1.14	0.708	G92-2729	G94-2729
29-31	1.14-1.22	0.787	G92-2931	G94-2931
31-34	1.22-1.34	0.787	G92-3134	G94-3134
34-37	1.34-1.46	0.787	G92-3437	G94-3437
37-40	1.46-1.57	0.787	G92-3740	G94-3740
40-43	1.57-1.69	0.787	G92-4043	G94-4043
43-47	1.69-1.85	0.787	G92-4347	G94-4347
47-51	1.85-2.01	0.787	G92-4751	G94-4751
51-55	2.01-2.17	0.787	G92-5155	G94-5155
55-59	2.17-2.32	0.787	G92-5559	G94-5559
59-63	2.32-2.48	0.787	G92-5963	G94-5963
63-68	2.48-2.68	0.787	G92-6368	G94-6368
68-73	2.68-2.87	0.984	G92-6873	G94-6873
73-79	2.87-3.11	0.984	G92-7379	G94-7379
79-85	3.11-3.35	0.984	G92-7985	G94-7985
85-91	3.35-3.58	0.984	G92-8591	G94-8591
91-97	3.58-3.82	0.984	G92-9197	G94-9197
97-104	3.82-4.09	0.984	G92-97104	G94-97104
104-112	4.09-4.41	0.984	G92-104112	G94-104112
112-121	4.41-4.76	0.984	G92-112121	G94-112121
121-130	4.76-5.12	0.984	G92-121130	G94-121130
130-140	5.16-5.51	1.024	G92-130140	
140-150	5.51-5.91	1.024	G92-140150	
150-162	5.91-6.38	1.024	G92-150162	
162-174	6.38-6.85	1.024	G92-162174	
174-187	6.85-7.36	1.024	G92-174187	
187-200	7.36-7.87	1.024	G92-187200	

# Green Line

HOSE & FITTINGS

## Heavy Duty Bolt Clamps

**G92-01719 - 240252 : G94-01719 - 121130**

The G92 bolt clamp is constructed of grade 430 stainless steel band, with a zinc plated, steel bolt.

It is ideal for a variety of applications including hydraulic suction lines, truck and bus radiator hoses, and water suction and discharge service.

The unique design creates several advantages over conventional T-bolt clamps:

- Greater size range - these clamps are available as small as 3/4"
- Wider band width - in the larger sizes, the band is wider than the 3/4" band used on conventional T-bolt clamps
- Easy & fast tightening - a standard socket wrench can be used. A conventional T-bolt clamp requires a deep socket as the nut is tightened on the bolt, but for these clamps, the wrench is used on the bolt head itself, so a deep socket is not required
- Beveled band edges - the beveled edge prevents damage to the hose cover.



Punch Clamp Tools	
Description	Item
Economy Tool	PC-3
Service Tool	P-1000
Service Tool	P-38

### Service Tool

**GP-1000**



### Service Tool

**GP-1**



### Economy Tool

**GP-38**





Plated Carbon Steel Punch Clamps			
ID	Clamp Width	Band Carbon	Stainless
13/16"	3/8"	PC-311	PC-311S
1-3/8"	3/8"	PC-4	PC-4S
1"	5/8"	PC-5	PC-5S
1-1/4"	5/8"	PC-6	PC-6S
1-1/2"	5/8"	PC-7	PC-7S
1-3/4"	5/8"	PC-08	PC-8S
2"	5/8"	PC-9	PC-9S
2-1/4"	5/8"	PC-10	PC-10S
2-1/2"	5/8"	PC-11	PC-11S
3-3/4"	5/8"	PC-12	PC-12S
3"	5/8"	PC-14	PC-14S
3-1/2"	5/8"	PC-16	PC-16S
4"	5/8"	GPC-18	PC-18S
4-1/2"	5/8"	GPC-20	PC-20S
5"	5/8"	PC-24	PC-24S
6"	5/8"	PC-28	PC-28S
7"	5/8"	PC-32	PC-32S

### Plated Carbon Steel Punch Clamps

GPC-03 - 32



### Stainless Steel Punch Clamps

GPCS-03 - 32



V605 High Pressure Steel Ball Valve		
Size	Working Pressure	Item
1/4"	7,250	605-025
3/8"	7,250	605-038
1/2"	7,250	605-050
3/4"	5,800	605-075
1"	5,075	605-100
1-1/4"	5,075	605-125

WATER, OIL & GAS  
2000 PSI  
3000 PSI AT 3/8"  
STEAM  
150 PSI



### High Pressure Steel Ball Valve

GV605-025 - 150

Reduced port, one piece carbon steel body. Type 304 Stainless Steel ball & trim. NACE trim. Type 316 stainless steel blow-out proof stem. PTFE Teflon R seats & seals. NPTF female threads.

## V400 Series Valves

Featuring blowout-proof stems and lockable handles. The bodies and balls are investment cast type 316 stainless steel, and the handles and stems are type 304. seals are Teflon, reinforced with glass fibre.

### V401 Stainless Steel Ball Valve

Size	Item
1/4"	V605-150
3/8"	V605H-125-200
1/2"	1546-16-12
3/4"	1546-20-16
1"	0
1-1/4"	401-125
1-1/2"	401-150
2"	401-200

### Stainless Steel Ball Valve

GV401-025 - 200

WATER, OIL, GAS  
1000 PSI UP TO 1"  
800 PSI 1-1/4" TO 2"  
STEAM  
150 PSI



### V601 Carbon Steel Ball Valve

Size	Item
1/4"	601-025
3/8"	601-038
1/2"	601-050
3/4"	601-075
1"	601-100
1-1/4"	601-125
1-1/2"	601-150
2"	601-200

### Carbon Steel Ball Valve

GV601-025 - 200

WATER, OIL, GAS  
1000 PSI  
STEAM  
150 PSI



### V402 Full Port Stainless Ball Valve

Size	Item
1/4"	402-025
3/8"	402-038
1/2"	402-050
3/4"	402-075
1"	402-100
1-1/4"	402-125
1-1/2"	402-150
2"	402-200

### Full Port Stainless Ball Valve

GV402-025 - 200

Two piece body with mounting pad  
WATER, OIL, GAS  
2000 PSI UP TO 1"  
1500 PSI 1-1/4" TO 2"  
STEAM  
150 PSI



### V402 Full Port Stainless Ball Valve

Size	Item
1/4"	402-025
3/8"	402-038
1/2"	402-050
3/4"	402-075
1"	402-100
1-1/4"	402-125

### 3 Piece Full Port Stainless Steel Ball Valve

GV432-300

WATER, OIL, GAS  
1000 PSI  
STEAM  
150 PSI



V201 Standard Brass Ball Valve	
Size	Item
1/4"	V302W-200
1/4"	V302-200
3/8"	V302-300
1/2"	V302W-025
3/4"	V302W-038
1"	V302W-050
1-1/4"	V302W-075
1-1/2"	V302W-100
2"	V302W-125
3"	V302W-150

## Standard Brass Ball Valve

### GV201(M)-025 - GV201-300

CSA Approved  
**WATER, OIL, GAS**  
 600 PSI  
 STEAM  
 150 PSI



V302 Premium Brass Ball Valve	
Size	Item
1/4"	V402-125
3/8"	V402-150
1/2"	V402-200
3/4"	V432-300
1"	V601-025
1-1/4"	V601-038
1-1/2"	V601-050
2"	V601-075
3"	V601-100

## Premium Brass Ball Valve

### GV302-025 - GV302-300

CSA 3.16 Approved  
**WATER, OIL, GAS**  
 600 PSI  
 STEAM  
 150 PSI



C101 Interchange Hydraulic Coupler, Plated Steel			
Cross Reference	Body Size	Female NPTF	Item
IHF1	1/8"	1/8"	C101-04
DHF2	1/4"	1/4"	C101-06
3HF3	3/8"	3/8"	C101-08
4HF4	1/2"	1/2"	C101-12
6HF6	3/4"	3/4"	C101-16
8HF8	1"	1"	C101-24



C102 Interchange Hydraulic Nipple, Plated Steel			
Cross Reference	Body Size	Female NPTF	Item
H1F1	1/8"	1/8"	C102-04
H2F2	1/4"	1/4"	C102-06
H3F3	3/8"	3/8"	C102-08
H4F4	1/2"	1/2"	C102-12
H6F6	3/4"	3/4"	C102-16
H8F8	1"	1"	C102-24



## Interchange Hydraulic Coupler

### GC101-02 - 24

## Interchange Hydraulic Nipple

### GC102-02 - 24

Compliant with ISO-7421-B standard. Interchanges with the following Manufacturers: Suptite 72, Hansen HK, Parker 60, Faster HNV, & Aeroquip FD45. Steel sleeves are hardened to provide maximum service life. Machined from solid brass, steel, and 303 stainless steel bar stock. Stainless steel balls, retaining rings, and springs provide long service life. Steel and stainless steel units incorporate a Teflon backup ring to withstand dynamic impulse. A backup O-ring is standard in all brass and 1-1/4" size units and above. Nitrile seals are standard. Steel Plugs are hardened and zinc plated to provide heavy duty performance.

## Standard Pressure Gauges

### GPG-(CBM-)00030 - 10000

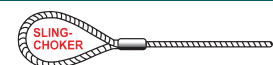
Liquid filled gauges are well suited for hydraulic, oil and gas, pressure wash, and process systems. The liquid provides significant cushioning to reduce pointer flutter and internal damage

- ACCURACY 1.6%
- TEMPERATURE RANGE -49°C (-56°F) to 100°C (212°F)
- SOCKET MATERIAL brass
- BOURDON TUBE bronze
- CASE type 304 stainless steel
- WINDOW plexiglas
- FILLING glycerin
- THREAD 1/4" NPT



Gauges 2-1/2" Bottom Mount	
Range	Bottom Mount
0-30	PG-60
0-60	PG-100
0-100	PG-160
0-160	PG-200
0-200	PG-300
0-300	PG-400
0-400	PG-600
0-600	PG-1000
0-1000	PG-1500
0-1500	PG-2000
0-2000	PG-3000
0-3000	PG-5000
0-5000	PG-6000
0-6000	PG-10000
0-10000	PGB-FF

Gauges 2-1/2" Centre Mount	
Range	Centre Mount
Face	PG-CBM-0030
0-30	PG-CBM-0060
0-60	PG-CBM-0100
0-100	PG-CBM-0160
0-160	PG-CBM-0200
0-200	PG-CBM-0300
0-300	PG-CBM-0400
0-400	PG-CBM-0600
0-600	PG-CBM-1000
0-1000	PG-CBM-1500
0-1500	PG-CBM-2000
0-2000	PG-CBM-3000
0-3000	PG-CBM-5000
0-5000	PG-CBM-6000
0-6000	PG-CBM-10000
0-10000	PGH-050



V202 Full Port Brass Ball Valve	
Size	Item
1/8"	V308-150
1/4"	V401-025
3/8"	V401-038
1/2"	V401-050
3/4"	V401-075
1"	V401-100
1-1/4"	V401-125
1-1/2"	V401-150
2"	V401-200
2-1/2"	V402-025

## Full Port Brass Ball Valve

**GV202-013 - GV202-300**

CSA Approved  
**WATER, OIL, GAS**  
**600 PSI**  
**STEAM**  
**150 PSI**



V302W Premium Brass Ball Valve - Wing Handle	
Size	Item
1/4"	V601-125
3/8"	V601-150
1/2"	V601-200
3/4"	V605-025
1"	V605-038
1-1/4"	V605-050
1-1/2"	V605-075
2"	V605-100

## Premium Brass Ball Valve - Wing Handle

**GV302W-025 - GV302W-200**

1/2" to 2" are CSA approved for 1/2 psi natural gas, and meet CGA-CR91-002 (2-5 psi) and CGA-3.16 (125 psi)  
**WATER, OIL, GAS**  
**600 PSI**  
**STEAM**  
**150 PSI**



C401 Agricultural Interchange Hydraulic Coupler. Brass			
Cross Reference	Body Size	Thread Size	Item
S25A-2	1/4"	1/4"	C401-06
S25A-3	3/8"	3/8"	C401-08
S25-4	1/2"	1/2"	C401-12
S25-4P	1/2"	1/2"	C402-04
S25F-6	3/4"	3/4"	C401-16
S25-8	1"	1"	C401P-08



C402 Agricultural Interchange Hydraulic Nipple. Brass			
Cross Reference	Body Size	Thread Size	Item
S41-2	1/4"	1/4"	C402-06
S41-2P	1/4"	1/4"	C402P-08
S41-3	3/8"	3/8"	C402-08
S71-4	1/2"	1/2"	C402-08-12
S71-4P	1/2"	1/2"	DC-1600
S71-6	1/2"	3/4"	C402-12



## Agricultural Interchange Hydraulic Coupler

**GC401(P)-04 - 16**

C400 couplings are interchangeable with Parker/Pioneer 4000, Aeroquip FD76, Safeway S20 and comply with ISO standard 5675. In the 1/2" size only, they also meet ISO-7421-A, and so interchange with C200 series 1/2" parts. Traditionally, C400 were supplied with ball type valves. However, to reduce unsightly dripping, many users now specify poppet valves, which are designated by a 'P' in the part number.

## Stainless Steel Gauges

**GPSS-(CBM-)00015 - 15000**

GPSS gauges are made with Type 316 internal surfaces, for maximum corrosion resistance

- ACCURACY 1%
- NPT TEMPERATURE RANGE -40°C (-40°F) to 100°C (212°F)
- SOCKET MATERIAL type 316 stainless steel
- BOURDON TUBE type 316 stainless steel
- CASE type 304 stainless steel
- WINDOW plexiglas
- FILLING glycerin
- THREAD 1/2"

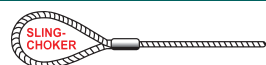


## Agricultural Interchange Hydraulic Nipple

**GC402(P)-04 - 12**

Gauges 4" Bottom Mount	
Range	Bottom Mount
0-15	PGSS40-0030
0-30	PGSS40-0060
0-60	PGSS40-0100
0-100	PGSS40-0160
0-160	PGSS40-0200
0-200	PGSS40-0300
0-300	PGSS40-400
0-400	PGSS40-0600
0-600	PGSS40-1000
0-1000	PGSS40-1500
0-1500	PGSS40-2000
0-2000	PGSS40-3000
0-3000	PGSS40-5000
0-5000	PGSS40-6000
0-6000	PGSS40-10000
0-10000	PGSS40-15000
0-15000	PGSS40-0015

Gauges 4" Centre Mount	
Range	Centre Mount
0-15	PGSS40-0030
0-30	PGSS40-0060
0-60	PGSS40-0100
0-100	PGSS40-0160
0-160	PGSS40-0200
0-200	PGSS40-0300
0-300	PGSS40-0400
0-400	PGSS40-0600
0-600	PGSS40-1000
0-1000	PGSS40-1500
0-1500	PGSS40CBM-2000
0-2000	PGSS40CBM-3000
0-3000	PGSS40CBM-5000
0-5000	PGSS40-6000
0-6000	PGSS40-10000
0-10000	PGSS40-15000
0-15000	PVW-800

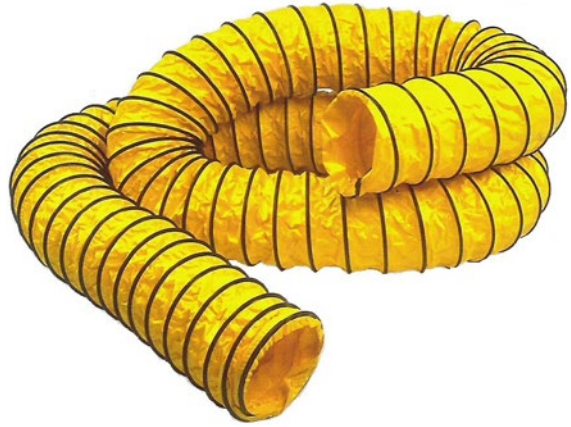


PVW Utility Blower		
I.D.	Wt./ft.	Item
6"	0.48	PVW-600
8"	0.65	PVW-800
10"	0.9	PVW-1000
12"	1	PVW-1200

## PVW Utility Blower

### PVW-600 - 1200

Hoses come in 25' or 50' lengths with plain ends but may be custom ordered with rings or belted cuffs attached. Utility blower hose is typically used for venting manholes and to supply heated air. It is also found in flood and water damage restoration where dried air is blown into buildings and damp air is removed. It has a much wider pitch wire than conventional ducting for maximum compressibility allowing compact storage. Where multiple lengths must be coupled often, we recommend slip lock couplers for quick connections.



### CONSTRUCTION

Single ply of polyester vinyl laminate with vinyl wear strip bonded to an expanded pitch steel helix wire.

Cable Restraints Hose to Hose					
For hose Dia.	length	Dia	Wt.	Item	
1/2 - 1 1/4	15	1/8	0.16	WRI822-15	
1/2 - 1 1/4	16	1/8	0.19	WRI822-16	
1/2 - 1 1/4	18	1/8	0.21	WRI822-18	
1/2 - 1 1/4	20	1/8	0.23	WRI822-20	
1/2 - 1 1/4	22	1/4	0.91	WRI822-22	
1 1/2 - 3	24	1/4	0.92	WRI422-24	
1 1/2 - 3	30	1/4	1.22	WRI422-30	
1 1/2 - 3	36	1/4	1.26	WRI422-36	
1 1/2 - 3	37.5	1/4	1.5	WRI422-37.5	
3 1/2 - 6	48	3/8	3	WR3822-48	

## Whipchecks - Hose to Hose

### WRI822-15 - WR3822-48



Cable Restraints Hose to Tool				
For hose Dia.	length	Dia	Wt.	Item
1/2 - 1 1/4	22	1/8	0.16	WRI8215
1-1/2-3	37.5	1/4	0.19	WRI4215
1-1/2-3	23	1/4	0.21	WRI421
1/2-1-1/4	13-1/2	1/8	0.23	WRI821

## Whipchecks - Hose to Tool

### WR-1421-12 - WR-1821



Safety Pins	
Item	
DIX-SLPI	

## Safety Pins

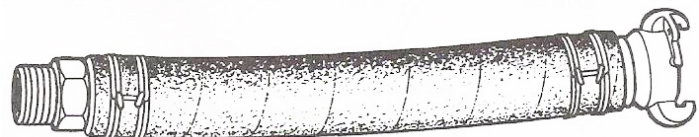
### MS-010/02/000



Hose Adapter	
Size	Item
1"	MS-18822X18WF
1-1/2"	MS-18827X18WF

## Hose Adapter

### MS-18822X18WF - MS-18827X18WF

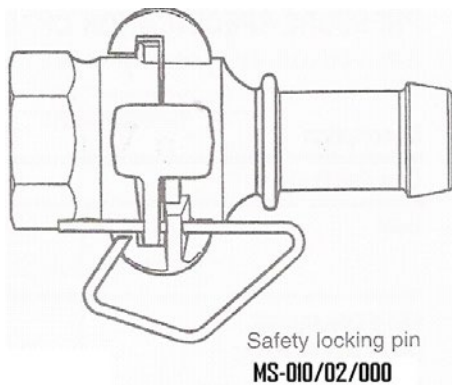
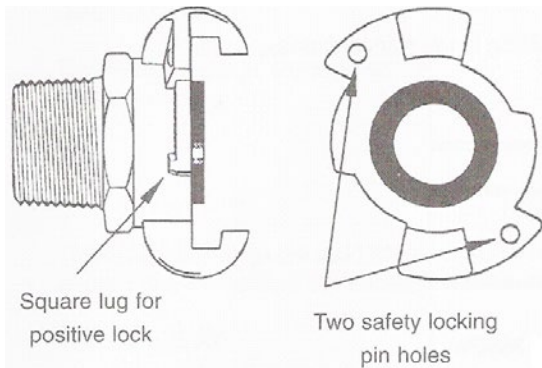
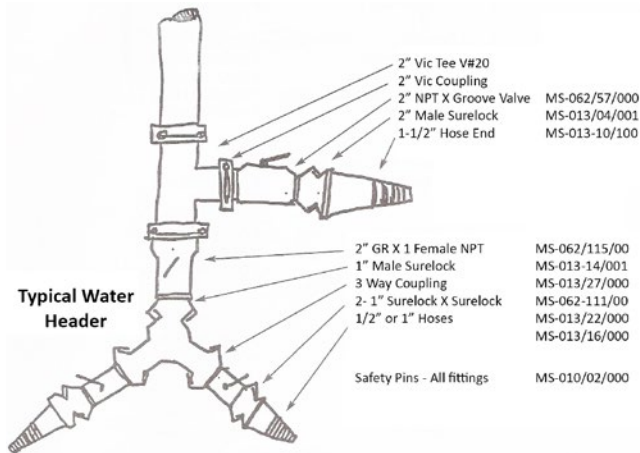
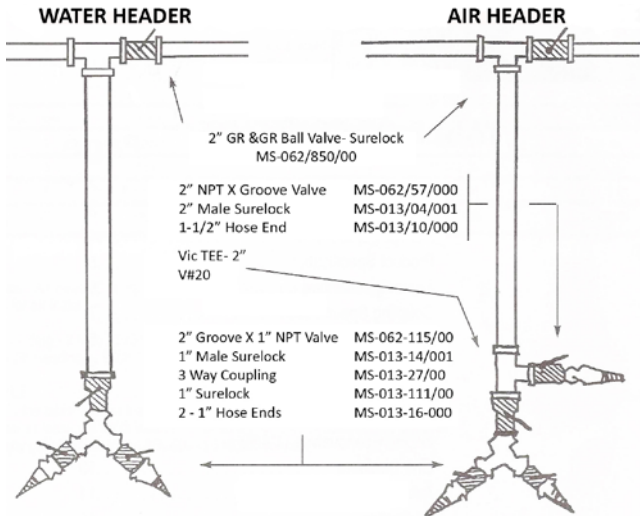


Surelock Seals	
Size	Item
10-32mm 3/8"-1-1/4"	DIX-SLR1
38-50mm 1-1/2"-2"	DIX-SLR2

## Surelock Seals

### MS-007/07/000 - MS-007/05/000





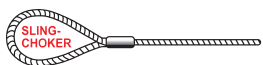
Fittings Required for Equipment Air Heater		
2"	1 - 2" NPT Female & Grooved	MS-062/57/000
2"	1 - 2" Male Surelock	MS-013/04/001
2"	1 - 1-1/2" Hose End	MS-013/10/000
1"	1 - 2" Grooved X 1" NPT Female	MS-062/115/00
1"	1 - 1" Male Surelock	MS-013/14/001
1"	1 - 1" Three Way Coupling	MS-013/27/000
1"	2 - 1" Surelock X Surelock Valve	MS-062/111/00
1"	2 - 1" Hose Ends	MS-013/16/000
Water Header		
	See 1" Assembly above - for 1/2" Hose	See Above Drawing
	2 - 1/2" Hose Ends	MS-013/22/000
Scissor Truck		
	1 - 2" NPT Female x Grooved	MS-062/57/000
	1 - 2" Male Surelock	MS-013/04/001
	1 - 1-1/2" Hose End	MS-013/10/000
Stoppers/Jacklegs		
	2 - 1" Female Surelock	MS-013/15/001
	1 - 1" Hose End	MS-013/16/000
Jumbo & Amex		
	1 - 1" Female Surelock	MS-013/15/001
	1 - 1" Hose End	MS-013/16/000

## Surelock Safe & Reliable Couplings, Seals, & Materials

The Surelock Coupling has many advantages over the standard "A" and "B" type couplings. The Claw of the coupling rotates past the square lug and sits on the flat surface of the locking flange next to the lug. This provides excellent safety as it is impossible for the couplings to uncouple without fully compressing the seals. It also reduces wear and increases strength as the load bearing surfaces are maximized by the Surelock design. The optional use of a Safety Locking Pin, which locates through matching holes in the locking flange of each coupling, further decreasing the chances of coupling separation. The Bellows type seal, which is supplied as standard on all Surelock Couplings, has made connecting much less laborious, even on the 75mm (3") range).

Surelock couplings can be fitted with two different types of seals. The Standard Bellows seal is used for working line pressures up to 200 psi and the Hi-Pressure seal, which has a supporting steel ring, is used for working line pressures up to 600 psi (refer to Pressure Specification Chart).

Surelock seals can be supplied in three different materials. Nitrile is supplied as standard and Silicon or E.P.D.M. is available on request.



## Hose Ends

### MS-13/06/001 - MS-13/25/001

Flange under the head serves as an anchor point for claw type clamps. Single and double barbed design ensure excellent grip when used with wire strap type binders and hose clamps.

Hose Ends	
Size	Item
2"	DIX-SL200H
1-1/2"	DIX-SL150H
1"	DIX-SL100H
3/4"	DIX-SL075H
1/2"	DIX-SL050H
3/8"	DIX-SL038H



## Blank Ends & Reducer

### MS-012/29/000 - 013/31/000

Blank ends are particularly useful for sealing hoses and production machines to prevent entry of foreign matter during transportation or storage

Blank Ends	
Size	Item
1"	DIX-SL00
2"	DIX-SL01
Reducer	
2"x1"	MS-013/31/000



## Surelock Male Couplings

### MS-013/04/001 - MS-013/23/001

Manufactured with N.P.T. standard male thread and with hexagon flats for ease of fitting with wrench.

Male Surelock Couplings	
Size	Item
2"	DIX-SL200M
1-1/2"	DIX-SL150M
1"	DIX-SL100M
3/4"	DIX-SL075M
1/2"	DIX-SL050M
3/8"	DIX-SL038M



## Three Way Coupling

### MS-013/27/000 - 013/28-000

Used when additional hoses are required for production, where it is uneconomical or inconvenient to run two hose lines

Three Way Coupling	
Size	Item
1"	DIX-SL09
2"	DIX-SL10
c/w 2-1" Female NPT outlets top and bottom	



## Surelock Female Couplings

### MS-013/05/001 - MS-013/14/006

Manufactured with N.P.S.I. Standard female thread and with hexagon flats for ease of fitting with wrench.

Female Surelock Couplings	
Size	Item
2"	DIX-SL200F
1-1/2"	DIX-SL150F
1"	DIX-SL100F
3/4"	DIX-SL075F
1/2"	DIX-SL050F
3/8"	DIX-SL038F



## Line Strainer

### MS-090/03/000 - 090/04/000

Line Strainer	
Size	Item
3/8"-1-1/4" Small	DIX-SLS1



## Spring Rewind Heavy Duty Hose Reels

Available for air, water, oxygen, acetylene, oil, and grease applications.

- All body and frame components made of superior heavy gauge steel for professional applications/installations
- All metal parts powder coated for corrosion free performance
- Reinforced L-shaped base
- Professional super duty spring mechanism for long life
- Nine position, adjustable guide arm
- Heavy duty four direction, non snag rollers
- Anti lock-out ratchet mechanism prevents reel from locking up when hose is fully extended
- Heavy duty American made, solid brass swivel fitting
- Can be wall, floor or ceiling mounted

There are many similar looking air/water rewind hose reels in the market. However, these industrial quality JET reels offer heavier gauge body and frame steel components, superior American made air swivel fittings, an extra heavy duty spring mechanism (tested to 30,000 cycles) and a superior quality:

- Four direction snag roller system
- Reels rated at maximum 300 PSI are furnished with rubber hose
- Reels rated at maximum 2,000 PSI are furnished with S.A.E. 100 R1 AT one wire braid hose
- Reels rated at maximum 5,000 PSI are furnished with S.A.E. 100 R2 AT two wire braid hose

### 25' Air/Water Heavy Duty Hose Reel

J391721



### 50' Air/Water Heavy Duty Hose Reel

J391722 - J391726



### 50' Oxy/Acetylene Heavy Duty Hose Reel

J391746

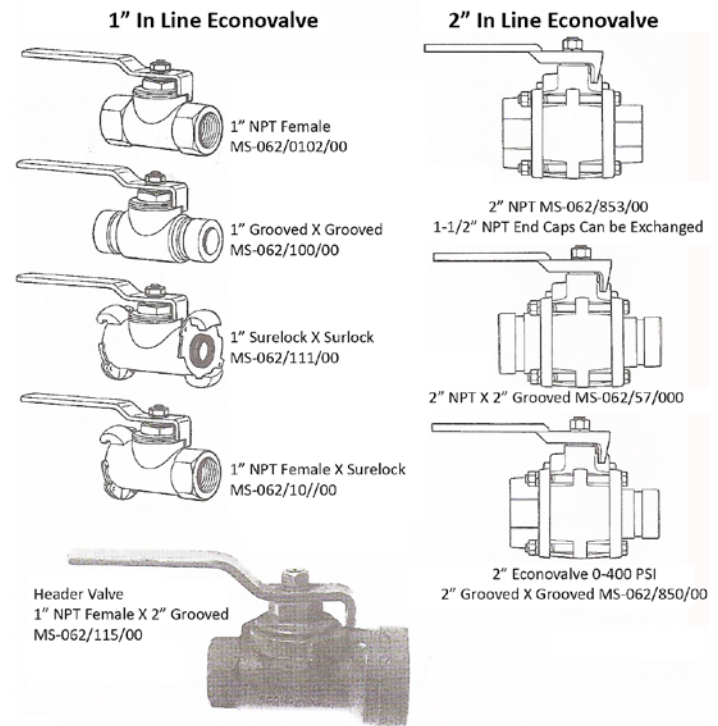


## Surelock In-Line Econo Valve

MS-062/0102/00 - MS-062/853/00

Solid construction Ball Valve for Mining and Industry. Easily maintained in line valve. One piece ball and stem. Positive on/off.

In Line Econo Valve	
Size	Item
1" NPT	MS-062/0102/00
1" Grooved X Grooved	MS-062/100/00
1" Surelock X Surelock	MS-062/111/00
1" NPT X Surelock	MS-062/108/00
1" Header NPT Fem. X 2" Grooved	MS-062/115/00
2" NPT (1-1/2" Caps Available)	MS-062/853/00
2" NPT X 2" Grooved	MS-062/57/000
2" Grooved X 2" Grooved (400 PSI)	MS-062/850/00



	Heavy Duty Industrial Hose Reels						Unit	
	Hose		Hose Inlet	Max. Hose			Weight	Item
Intended Use	Diameter (I.D.)	Hose Length	/Outlet (N.P.T.)	Pressure (PS.I.)	Max. Temp. (C)	Max. Temp. (F)	(Lb.)	
Air/Water	3/8"	25'	3/8"	300	100°	210°	39	J391721
Air/Water	3/8"	50'	3/8"	300	100°	210°	54	J391722
Air/Water	1/2"	50'	1/2"	300	100°	210°	59	J391726



I19B Blue High Temperature Pressure Washer Hose			
Hose	Lgth	Wt.	Item
3/8"	25	5	I19B-06MLM25
3/8"	35	6	I19B-06MLM35
3/8"	50	8	I19B-06MLM50
3/8"	65	10	I19B-06MLM65
3/8"	100	15	I19B-06MLM100

## Pressure Washer Hose Assemblies

### G I19B-06MLM25 - 06MLM100

There are a wide variety of pressure wash hoses being offered in the market. Our hose assemblies come with 3/8 male NPT end fittings and bend restrictors. One end fitting is a live swivel.



- **TEMPERATURE RANGE**  
120°C (248°F)

G1722 Coupled with Male Pipe (NPT) Hose Barbs				
Size	NPT Size	Length	Wt.	Item
1/4	1/4	25	1.2 lb.	G1722-025M44M25
1/4	1/4	50	2.2	G1722-025M44M50
1/4	1/4	100	4.2	G1722-025M44M100
3/8	3/8	25	2.2	G1722-038M44M25
3/8	3/8	50	4.2	G1722-038M44M50
3/8	3/8	100	8.2	G1722-038M44M100
3/8	3/8	25	2.2	G1722-038M66M25
3/8	3/8	50	4.2	G1722-038M66M50
3/8	3/8	100	8.2	G1722-038M66M100

### HR I722 hose reels complete with hose assemblies:

1/4	1/4	164	18	HRI722-025M44M164
3/8	3/8	100	20	G1722-038M66M100

## Reinforced Polyurethane Hose

### G1722-025M44M025 - G1722-038M66M100

A lightweight, flexible and tough hose suitable for a wide range of industrial and construction applications. Ideal for pneumatic air tool hose as it weighs up to 50% less than PVC and has excellent oil and solvent resistance. Polyurethane remains flexible at very cold temperatures and is much more resistant to punctures and abrasion than either rubber or PVC.

- **REINFORCEMENT**  
high tensile strength yarn
- **COVER**  
transparent yellow polyurethane
- **TEMPERATURE RANGE**  
-40°C (-40°F) to 75°C (167°F)



G923 North Wind PVC Air Hose with Crimped fittings and Bend Restrictors. 1/4" NPT			
Hose	Lgth.	Wt.	Item
3/8"	25	2.8	G923-038M44M25
3/8"	50	5.5	G923-038M44M50
3/8"	100	10.7	G923-038M44M100

## North Wind PVC Air Hose

### G923-038M44M25 - 038M44M100

Stays flexible at very cold temperatures when other hoses feel like pipe. Bend restrictors prevent damage at the fittings.

- **TEMPERATURE RANGE**  
-40 °C to 65°C
- **WORKING PRESSURE**  
300 psi at 20 °C
- **RESISTANCE**  
Abrasion and Oil

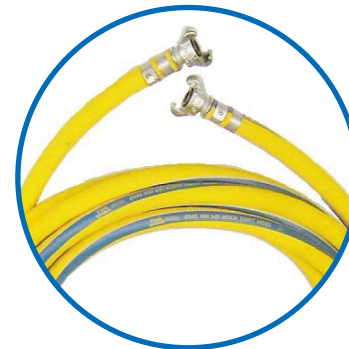


G232-G242 Hose Assemblies					
Hose Type	Size	Lgth.	End	Wt.	Item
G232	3/4"	50	G25 Universal	21	G232-075U50
G232	1"	50	G25 Universal	30	G232-100U50
G232	2"	50	G29C Ground Joint	87	G232-200FF50
G242	3/4"	50	G25 Universal	22	G242-075U50
G242	1"	50	G25 Universal	31	G242-100U50
G242	2"	50	G29C Ground Joint	89	G242-200FF50

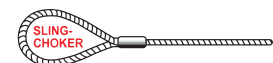
## Hose Assemblies

### G232-075U50 - G242-200FF50

Hose assemblies that are commonly used in the construction and rental industries are provided here for easy ordering. Smaller sizes have G25 Two-Lug universal fittings attached with band clamps. Larger hoses are supplied with G29 Ground joint stems with wing nuts attached with bolt Clamps (G29 spud adapters must be ordered separately). Other assembly configurations and lengths are available upon request.



**Green Line**  
HOSE & FITTINGS





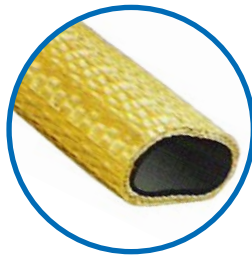
G1232 Oroflex Air					
I.D.	O.D.	WP	WP	Wt./Ft	Item
		Air- PSI	Water- PSI		
3/4"	0.95	300	400	0.11	G1232-075
1"	1.28	300	400	0.24	G1232-100
1-1/2"	1.78	200	400	0.37	G1232-150
2"	2.28	150	350	0.55	G1232-200
3"	3.32	90	250	0.78	G1232-300

## Oroflex Air Hose

### G1232-075 - 400

Available in 50 or 100 Foot coils. G1232 Oroflex Air is manufactured using a unique process which incorporates the inner tube, reinforcement and outer cover into a single solid wall hose. This gives the hose the same tough, oil and heat resistant properties inside and out.

- **TEMPERATURE RANGE** -20°C (-4°F) to 80°C (176°F)



G221 & G222 Multi-Purpose Air Line					
I.D.	O.D.	Working		Packaging	Item
		Pressure	Wt.		
1/4	0.50"	200 PSI	0.09 lb.	700 ft.	G221-025
3/8	0.69	200	0.17	700	G221-038
1/2	0.81	200	0.21	700	G221-050
1/4	0.63	250	0.17	250 or 700	G222-025
5/16	0.63	250	0.16	700	G222-031
3/8	0.72	250	0.2	250 or 700	G222-038
1/2	0.88	250	0.28	250 or 700	G222-050
5/8	1.00	250	0.33	700	G222-063
3/4	1.19	250	0.4	250 or 700	G222-075
1	1.44	200	0.50	250 or 700	G222-100
1 1/4	1.78	150	0.71	700	G222-125
1 1/2	2.03	150	0.83	400	G222-150

## Multi-Purpose Air Line

### G221-025 - G222-200

Versatile EPDM rubber air hoses used in industrial, agricultural, construction, and marine applications. G221 is a flexible & lightweight two-spiral hose, while G222 is a more robust four-spiral product. We offer Multi-Purpose lines on reels and in a variety of common assemblies.

- **TUBE** black, limited oil-resistant EPDM rubber
- **REINFORCEMENT** high-tensile spiraled yarn; two spirals in G221 and four spirals in G222
- **COVER** smooth, red, abrasion and weather resistant EPDM rubber
- **TEMPERATURE RANGE** -40°C (-40°F) to 95°C (203°F)



G234 Premium Non Conductive				
I.D.	O.D.	WP	Wt./Lb.	Item
1/4	0.63	300	0.18	G234-025
3/8	0.72	300	0.20	G234-038
1/2	0.88	300	0.27	G234-050
3/4	1.19	300	0.43	G234-075
1	1.5	300	0.65	G234-100
1 1/4	1.78	250	0.83	G234-125
1 1/2	2.03	250	0.96	G234-150

## Premium Non-Conductive Hose

### G234-025 - 150

G234 Premium Hose offers the widest range of service among our long length air hoses. Made from oil resistant rubbers to provide a fuel quality tube suitable for oil, diesel and lubricating oils, as well as for air, water, and many chemicals. G234 is also electrically non-conductive, making it an ideal hose where electrical shock hazards exist.

- **TUBE** Black oil and fuel resistant. Not intended for use with unleaded gas.
- **REINFORCEMENT** four spirals of high tensile spiraled yarn
- **COVER** smooth, red, oil, abrasion and weather resistant non-conductive Nitrile
- **TEMPERATURE RANGE** -30°C (-22°F) to 70°C (158°F) - Continuous. 80°C (176°F) - Intermittent



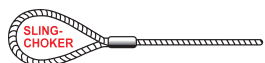
G224 General Purpose				
I.D.	O.D.	WP	Packaging	Item
1/4	0.50"	250 psi	0.10 lb.	G224-025
3/8	0.72	250	0.20	G224-038
1/2	0.88	250	0.23	G242-050
3/4	1.16	250	0.39	G224-075
1	1.44	250	0.55	G224-100
1 1/4	1.78	250	0.77	G224-125
1 1/2	2.03	250	0.90	G224-150

## General Purpose Rubber Hose

### G224-025 - 150

Manufactured using oil-resistant rubbers. This hose is designed to convey such products as oil-saturated air and lubricating oils, where EPDM hoses don't give adequate life. The oil-resistant cover helps G224 stand up in greasy or oily environments.

- **TUBE** black nitrile rubber compounded to resist oil laden compressed air and moderate oil services
- **REINFORCEMENT** high-tensile spiraled yarn, two spirals in 1/4", 3/8" and 1/2" with four spirals in larger sizes
- **COVER** smooth, red, oil, abrasion and weather resistant neoprene rubber
- **TEMPERATURE RANGE** -40°C (-40°F) to 95°C (203°F)



G223 400 PSI Construction Air			
I.D.	O.D.	Wt./Ft	Item
1/2"	0.88	0.23	G223-050
3/4"	1.16	0.38	G223-075

## Construction Air Hose

### G223-050 - 075

Available up to 600 Feet. Yellow air hoses are found throughout the resource industries wherever the going gets really rough and red air hoses do not offer adequate life. We offer five different yellow air hose types. G223 Construction Air is principally designed for jackhammer and contractor use. This hose is popular for wash down. G223 features a four spiral reinforcement and a smooth, bright yellow cover for high visibility. It has the advantage over most other yellow air hoses that it is available in long lengths on reels.

- **TUBE** black oil-mist resistant rubber
- **REINFORCEMENT** high tensile spiraled synthetic yarn
- **COVER** bright yellow, smooth, oil, abrasion and weather resistant rubber
- **TEMPERATURE RANGE** -40°C (-40°F) to 95°C (203°F)



G261 Yellow Steel Air				
I.D.	O.D.	WP PSI	Wt./Ft	Item
1/2"	0.94	1000	0.37	G261-050
3/4"	1.22	750	0.53	G261-075
1"	1.5	735	0.73	G261-100
1-1/4"	1.81	750	0.94	G261-125
1-1/2"	2.01	750	1.21	G261-150
2"	2.6	600	1.84	G261-200
2-1/2"	3.15	500	2.34	G261-250
3"	3.8	550	3.01	G261-300
4"	4.8	500	4.4	G261-400

## Steel Air Hose

### G261-050 - 400

Available in 50' or 100' Lengths, G261 Steel Air is at the top of our standard air hose ranges. It is designed for the most severe applications where high working pressure, long life and maximum safety are desired. The high tensile wire reinforcement gives G261 the ability to withstand the extreme abuse encountered in open pit or underground mining, heavy construction and rock quarries.

- **TUBE** smooth, black rubber compounded to resist oil laden compressed air
- **COVER** thick, cut, abrasion and weather resistant rubber with wrapped finish
- **TEMPERATURE RANGE** -40°C (-40°F) to 95°C (203°F)



G242 Yellow Rock Drill				
I.D.	O.D.	WP PSI	Wt./Ft	Item
1/2"	0.79	400	0.28	G242-050
3/4"	1.06	400	0.4	G242-075
1"	1.42	400	0.59	G242-100
1-1/4"	1.83	400	0.85	G242-125
1-1/2"	1.97	400	0.97	G242-150
2"	2.56	400	1.44	G242-200
2-1/2"	3.21	400	1.95	G242-250
3"	3.54	400	2.53	G242-300
4"	4.65	400	3.31	G242-400

## Yellow Rock Drill Hose

### G242-050 - 400

Available in 50 or 100' Lengths. G242 Rock Drill is a heavy duty, mandrel built hose. While G242 is kink-resistant and very flexible, the cover is designed for extra abrasion resistance. Rock Drill is very popular in mines and heavy construction sites.

- **TUBE** smooth, black rubber compounded to resist oil laden compressed air
- **REINFORCEMENT** multiple layers of spiraled textile cords
- **COVER** thick, yellow, cut, abrasion and weather resistant rubber with wrapped finish and blue stripes
- **TEMPERATURE RANGE** -40°C (-40°F) to 95°C (203°F)



G232 300 PSI Air/Water			
I.D.	O.D.	Wt./Ft	Item
1/2"	0.79	0.28	G232-050
3/4"	1.06	0.4	G232-075
1"	1.42	0.59	G232-100
1-1/2"	1.97	0.97	G232-150
2"	2.56	1.44	G232-200
3"	3.54	2.53	G232-300
4"	4.65	3.31	G232-400

## Air / Water Hose

### G232-050 - 400

G232 withstands the tough use hose receives in road construction, mines and quarries. It is also recommended for water wash down in abusive conditions found around docks, shipyards and pulp & paper mills. Most yellow hose applications involve pressures under 300 psi, so G232 has been developed with 300 psi in all sizes. However it is similar to many 400 psi air hoses in performance and durability.

- **TUBE** smooth, black rubber compounded to resist oil laden compressed air
- **REINFORCEMENT** spiraled textile cords
- **COVER** thick, cut, abrasion and weather resistant rubber with wrapped finish
- **TEMPERATURE RANGE** -40°C (-40°F) to 95°C (203°F)



G263 Premium Steel Air				
I.D.	O.D.	WP PSI	Wt./Ft	Item
2"	2.6	600	1.84	G263-200

## Premium Steel Air Hose

### G263-200

Available in 50' or 100' Lengths, G263 Premium Steel Air has the same specially formulated tube compound as Premium.

- **TUBE** smooth black synthetic rubber blended for increased oil resistance
- **REINFORCEMENT** high tensile wire
- **COVER** thick, yellow, cut, abrasion and weather resistant rubber with wrapped finish.
- **TEMP. RANGE** -40°C (-40°F) to 95°C (203°F)



G243 Premium Yellow Rock Drill				
I.D.	O.D.	WP PSI	Wt./Ft	Item
3/4"	1.18	400	0.42	G243-075
1"	1.5	400	0.61	G243-100
1-1/2"	2.05	400	0.98	G243-150
2"	2.6	400	1.45	G243-200

## Premium Rock Drill Hose

### G243-075 - 200

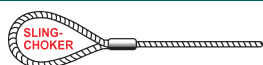
Available in 50' or 100' Lengths, G243 Premium Rock Drill was specially developed for use where large amounts of air tool oil shorten the life of conventional air hoses. G243 is most often used on rock drilling equipment for road construction. Other than the specially formulated tube, G243 is identical in construction to our popular G242 Rock Drill hose.

- **TUBE** smooth, black rubber compounded to resist oil laden compressed air
- **COVER** thick, yellow, cut, abrasion and weather resistant rubber with wrapped finish and red layline
- **TEMP. RANGE** -40°C (-40°F) to 95°C (203°F)



## Sling-Choker Manufacturing : More Than You Think

Our thing is rigging - with experience to be proud of. But we're experts in more areas than you think. For over 40 years, we've developed product lines that specifically serve your niche industry - becoming a go-to distributor for all aspects of your projects and applications. From pumps to safety gear to warehouse outfitting, we can get what you need



G324W Premium Wash Up 150 PSI			
I.D.	O.D.	Wt./Ft	Item
1/2"	0.94	0.31	G324W-050
3/4"	1.25	0.42	G324W-075
1"	1.5	0.52	G324W-100

## Premium Wash Up Hose

### G324W-050 - 100

Available in 50' or 100' Lengths, G324W Premium Wash-Up has a heavy, piled construction that gives superior kink resistance while maintaining good flexibility. The white non-marking cover makes it popular in dairies, food processing plants, meat packing plants and wherever hot water is required for clean-up.

- **TUBE** smooth, black rubber compounded to resist oil laden compressed air
- **COVER** cut, abrasion & weather resistant rubber with wrapped finish
- **TEMP. RANGE** -40°C (-40°F) to 95°C (203°F)



G329 Plant Wash Down Hose					
I.D.	O.D.	Working Pressure	Std. Length	Wt. per Foot	Item
3/4"	1.26	150 PSI	50	0.42	G329-075
1"	1.5	150 PSI	50	0.52	G329-100

## Paper Mill Wash Down Hose

### G329-100 - G8-24

Paper Mill Wash Down is manufactured with an 18" long built-in tapered nozzle to assure a good stream for open ended wash down. Because the nozzle is all rubber and built right in, G329 can be used around machinery without the risk of damage to surfaces or parts that metal fittings or nozzles could cause. When designing a paper mill hose the primary consideration is kink resistance so that flow will not be cut off when operators are climbing over catwalks and around tight corners during machinery wash down. G329 is built with a thick hose wall and offers the optimum balance between kink resistance and weight. The hose is made with IPDM rubber for maximum resistance to heat & aging.

- **TUBE** black, heat resistant EPDM rubber
- **REINFORCEMENT** multiple layers of spiraled textile cords
- **COVER** thick white abrasion and heat resistant rubber with wrapped finish
- **TEMPERATURE RANGE** -40°C (-40°F) to 100° C (212° F)



G270 Hot Air Blower Hose					
I.D.	O.D.	WP	Min. Bend		Item
			Radius	Wt./ft.	
2"	2.48	150	12"	1.10	G270-200
3"	3.62	150	18"	1.74	G270-300

## Hot Air Blower Hose

### G270-200 - 400

Hot Air Blower is specifically designed to withstand the extreme temperatures encountered in conveying hot air from the compressor to the tank on dry bulk material trucks.

- **TUBE** black, smooth, EPDM rubber compounded for maximum heat resistance
- **REINFORCEMENT** double steel helix wire embedded between spiraled cords
- **COVER** black, heat and weather resistant EPDM rubber with white stripe
- **TEMPERATURE RANGE** -40 °C (-40 °F) to 150 °C (302 °F). Intermittent service to 175 °C (347 °F)



G372 Rubber Discharge				
I.D.	O.D.	WP	Wt./ft.	Item
1-1/4"	1.54	100	0.22	G372-125
1-1/2"	1.81	100	0.31	G372-150
2"	2.32	100	0.42	G372-200
3"	3.35	75	0.63	G372-300
4"	4.37	75	0.87	G372-400
6"	6.42	75	1.56	G372-600
8"	8.44	75	2.16	G372-800
10"	10.49	75	3.17	G372-1000

G373 Rubber Discharge				
I.D.	O.D.	WP	Wt./ft.	Item
1-1/2"	1.73	150	0.33	G373-150
2"	2.24	150	0.44	G373-200
2-1/2"	2.75	150	0.54	G373-250
3"	3.38	150	0.67	G373-300
4"	4.33	150	1.07	G373-400
5"	5.39	150	1.38	G373-500
6"	6.3	150	1.64	G373-600
8"	8.39	150	2.53	G373-800

## G372 & G373 Rubber Discharge Hose

### G372-125 - 1000 - G373-150 - 1000

G372 & G373 are medium duty discharge hoses that offer good durability for general applications. G373 has a stronger reinforcement for higher working pressures.

- **TUBE** black synthetic rubber
- **REINFORCEMENT** multiple layers of spiraled textile cords
- **TEMPERATURE RANGE** -40°C (-40°F) to 85°C (185°F)



G341 Rubber Water Suction (Vacuum Rating- Full)					
I.D.	O.D.	WP	Bend		Item
			Radius	Wt./ft.	
1"	1.38	150	7"	0.5	G341-100
1-1/4"	1.65	150	8"	0.61	G341-125
1-1/2"	1.93	150	9"	0.8	G341-150
2"	2.48	150	12"	1.06	G341-200
2-1/2"	2.95	150	15"	1.51	G341-250
3"	3.46	150	21"	1.81	G341-300
4"	4.57	150	30"	2.42	G341-400
5"	5.6	75	40"	4.2	G341-500
6"	6.77	75	48"	5.78	G341-600
8"	8.82	75	64"	7.56	G341-800
10"	10.94	75	80"	10.2	G341-1000

## Rubber Water Suction Hose

### G341-100 - 1200

Rubber Water Suction is the traditional suction hose. It is the heavy duty product still preferred by many users for heavy construction, dewatering, municipal, irrigation and mining applications. Our hose, particularly the larger sizes is more robust than many other products found in the market.

- **TUBE** smooth black rubber
- **REINFORCEMENT** heavy wire helix embedded between layers of synthetic textile cords
- **COVER** black wrapped finish, weather & abrasion resistant rubber w/ green stripes
- **TEMPERATURE RANGE** -40°C (-40°F) to 85°C (185°F)



G374 Heavy Duty Water Discharge				
I.D.	O.D.	WP	Wt./ft.	Item
1-1/4"	1.65	150	0.53	G374-125
1-1/2"	1.91	150	0.62	G374-150
2"	2.5	150	1.07	G374-200
2-1/2"	2.99	150	1.31	G374-250
3"	3.5	100	1.55	G374-300
4"	4.53	100	2.34	G374-400
6"	6.61	100	3.97	G374-600
8"	8.54	100	5.29	G374-800
10"	10.67	100	6.62	G374-1000

## Heavy Duty Water Discharge Hose

### G374-125 - G374-1000

- **TUBE** black synthetic rubber
- **REINFORCEMENT** four heavy plies of spiraled textile cords
- **COVER** green, abrasion and weather resistant rubber
- **TEMPERATURE RANGE** -40°C (-40°F) to 85°C (185°F)



G941BW Blue Water Suction Hose						
I.D.	O.D.	WP @		Bend Radius	Wt./ft.	Item
		20°C	40°C			
3/4"	0.94	115	75	3"	0.19	G941BW-075
1"	1.26	90	65	3"	0.22	G941BW-100
1-1/4"	1.51	90	65	4"	0.36	G941BW-125
1-1/2"	1.79	90	65	5"	0.48	G941BW-150
2"	2.38	90	65	7"	0.62	G941BW-200
2-1/2"	2.87	70	48	8"	0.87	G941BW-250
3"	3.44	65	45	10"	1.23	G941BW-300
4"	4.57	55	40	15"	1.83	G941BW-400
5"	5.57	45	30	25"	2.42	G941BW-500

## PVC Water Suction Hose

### G941BW-075 - 600

High molecular weight PVC that stays flexible at sub zero temperatures. Most PVC hoses stays flexible when used in winter conditions but Blue Water can be used year round for water suction lines in construction, mining, and agricultural applications.

- **CONSTRUCTION** clear flexible, high molecular weight PVC supported by a rigid PVC helix
- **INTERIOR** smooth abrasion and mild chemical resistant PVC
- **EXTERIOR** smooth, abrasion weather & mild chemical resistant PVC
- **TEMPERATURE RANGE** -40°C (-40°F) to 65°C (150°C)



G941K PVC Suction Hose-Vacuum rating of 28" @ 20° C						
I.D.	O.D.	WP @ 20° C		Bend Radius	Wt./ft.	Item
3/4"	0.94	110	3"	0.17	G941K-075	
1"	1.26	85	3"	0.22	G941K-100	
1-1/4"	1.51	85	4"	0.32	G941K-125	
1-1/2"	1.76	70	5"	0.36	G941K-150	
2"	2.32	65	7"	0.61	G941K-200	
2-1/2"	2.87	65	8"	0.82	G941K-250	
3"	3.41	65	10"	1.09	G941K-300	
4"	4.55	55	15"	1.91	G941K-400	

## PVC Suction Hose

### G941K-075 - GV308-150

This is our general-purpose suction and discharge hose. It is flexible, lightweight, non-marking, and resistant to mild chemical solutions.

- **CONSTRUCTION** clear, flexible PVC, embedded with a dark green or white rigid PVC helix
- **INTERIOR** smooth, abrasion and mild chemical resistant PVC
- **EXTERIOR** abrasion, weather, and chemical resistant PVC
- **TEMPERATURE RANGE** static condition -20°C (-4°F) to 65°C (150°F). Dynamic condition -10°C (14°F) to 40°C (104°F)



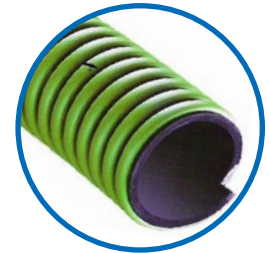
G1341 EPDM Suction (Vacuum Rating- Full)					
I.D.	O.D.	WP	Bend		Item
			Radius	Wt./ft.	
1"	1.34	80	4"	0.23	G1341-100
1-1/4"	1.61	70	5"	0.3	G1341-125
1-1/2"	1.96	60	6"	0.47	G1341-150
2"	2.49	60	9"	0.69	G1341-200
2-1/2"	3	50	11"	0.93	G1341-250
3"	3.6	50	12"	1.19	G1341-300
4"	4.69	45	17"	1.81	G1341-400

## EPDM Suction Hose

### G1341-100 - 600

EPDM suction combines the best qualities of rubber and plastic. Like PVC suction hoses, it is lightweight, flexible with a hard non-marking cover. These features make it easy to handle and move around. Like rubber suction hoses, G1341 is weather and mild chemical resistant and will stay flexible at very low temperatures. These qualities make this durable colourful hose a popular choice for septic truck cleaning, farming, mining, and construction.

- **CONSTRUCTION** black EPDM rubber embedded with a bright green polyethylene helix
- **INTERIOR** smooth black abrasion and mild chemical resistant EPDM rubber
- **EXTERIOR** bright green, slightly convoluted, abrasion weather and chemical resistant polyethylene helix with black EPDM between
- **TEMPERATURE RANGE** -40°C (-40°F) to 70°C (158°F)

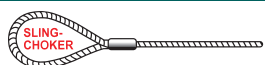


G1341K Premium EPDM Suction (Vacuum Rating- Full)					
I.D.	O.D.	WP	Bend Radius	Wt./ft.	Item
2"	2.43	50	5"	0.67	G1341K-200
3"	3.52	43	7"	1.10	G1341K-300
4"	4.61	38	11"	1.84	G1341K-400
6"	6.69	23	20"	3.07	G1341K-600

## Premium EPDM Suction Hose

### G1341K-150 - 600

We know it looks confusing and yes, these hoses are very much alike. The premium hose is formulated and constructed slightly differently and seems to stand up better in oil conditions. While our standard hose is sold mainly for water applications, G1341K is sometimes preferred for septic tank pump out and oil field vacuum service, where experienced users say it provides longer service life.



20 Foot Suction Hose Assemblies			
I.D.	Hose Model	No Strainer	Strainer
1-1/2"	G941K	G941K-150CM20	G941K-150CS20
2"	G941K	G941K-200CM20	G941K-200CS20
3"	G941K	G941K-300CM20	G941K-300CS20
4"	G941K	G941K-400CM20	G941K-400CS20
6"	G941K	G941K-600CM20	G941K-600CS20
1-1/2"	G134I	G134I-150CM20	G134I-150CS20
2"	G134I	G134I-200CM20	G134I-200CS20
3"	G134I	G134I-300CM20	G134I-300CS20
4"	G134I	G134I-400CM20	G134I-400CS20
6"	G134I	G134I-600CM20	G134I-600CS20
1-1/2"	G34I	G34I-150CM20	G34I-150CS20
2"	G34I	G34I-200CM20	G34I-200CS20
3"	G34I	G34I-300CM20	G34I-300CS20
4"	G34I	G34I-400CM20	G34I-400CS20
6"	G34I	G34I-600CM20	G34I-600CS20
1-1/2"	G941BW	G941BW-150CM20	G941BW-150CS20
2"	G941BW	G941BW-200CM20	G941BW-200CS20
3"	G941BW	G941BW-300CM20	G941BW-300CS20
4"	G941BW	G941BW-400CM20	G941BW-400CS20
6"	G941BW	G941BW-600CM20	G941BW-600CS20

## Suction & Discharge Hose Assemblies

### G941(K/BW)-150(CM/CS)20 - G941(K/BW)-600(CM/CS)20

Our most popular hose and fitting combinations are listed in the accompanying table for easy reference. Suction hoses come complete with a female cam-lock, galvanized combination nipple attached with band clamps. They can be ordered with or without a strainer



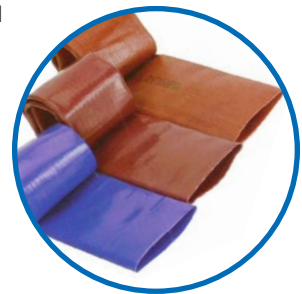
G971, 972, 973 PVC Lay Flat					
I.D.	Model	Wall Thickness	WP	Wt./ft.	Item
3/4"	971	0.048	140	0.07	G971-075
1"	971	0.052	110	0.1	G971-100
1-1/4"	971	0.056	80	0.13	G971-125
1-1/2"	971	0.059	70	0.18	G971-150
2"	971	0.059	65	0.23	G971-200
2-1/2"	971	0.059	55	0.26	G971-250
3"	971	0.063	55	0.36	G971-300
4"	971	0.067	50	0.51	G971-400
6"	971	0.075	35	0.84	G971-600
8"	971	0.087	35	1.23	G971-800
10"	971	0.118	35	1.81	G971-1000
12"	971	0.118	30	1.95	G971-1200
1-1/2"	972	0.067	100	0.2	G972-150
2"	972	0.067	100	0.24	G972-200
2-1/2"	972	0.071	100	0.32	G972-250
3"	972	0.075	90	0.44	G972-300
4"	972	0.079	90	0.6	G972-400
6"	972	0.087	75	0.87	G972-600
8"	972	0.098	70	1.34	G973-800
1-1/2"	973	0.079	150	0.26	G973-100
2"	973	0.087	150	0.34	G973-200
3"	973	0.095	150	0.55	G973-300
4"	973	0.102	150	0.85	G973-400
6"	973	0.119	150	0.95	G973-600

## PVC Lay Flat Hose

### G971-075 - G973-800

Available in Lengths up to 300', these are lightweight economical PVC hoses that flatten and roll up tightly when not in use. The process used to manufacture these hoses created a single wall construction, where the tube and cover are bonded together through the reinforcement. They are designed for applications where external abuse is limited. Blue G971 is used widely for irrigation, construction, flood protection, and municipal applications. Red G972 & G973 incorporates higher tensile fabric reinforcement to provide greater working pressures.

- **CONSTRUCTION** spiral and longitudinal wrapped polyester yarn, embedded and coated with flexible red PVC
- **TEMPERATURE RANGE** -15°C (5°F) to 55°C (131°F)



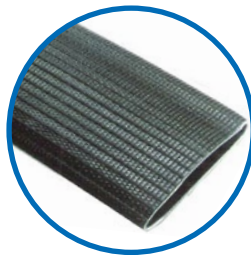
G1373 Oroflex Water Discharge				
I.D.	O.D.	WP	Wt./ft.	Item
1-1/2"	1.66	200	0.21	G1373-150
2"	2.16	200	0.3	G1373-200
2-1/2"	2.66	175	0.37	G1373-250
3"	3.2	175	0.48	G1373-300
4"	4.25	150	0.67	G1373-400
6"	6.25	150	1.36	G1373-600

## Oroflex "Black Dragon" Water Discharge Hose

### G1373-150 - 600

Black Dragon is a unique product which combines the "single wall" features of the PVC discharge hoses (light-weight, easy to coil, compact construction) with the abrasion resistance and temperature range of rubber. In addition, it incorporates an oil and chemical resistant nitrile rubber compound. The fluted (ribbed) cover reduces dragging friction to make handling easier and further reduce wear. Black Dragon is fast overtaking conventional discharge hoses in popularity. It is an excellent value when both durability and easy handling are considered. Black Dragon is even suitable for some oil products and is ideal for use with pollution control equipment.

- **CONSTRUCTION** G1373 Black Dragon is manufactured using a unique process which incorporates a single "solid wall" hose. The reinforcement, a seamless, woven, high-tenacity polyester, is embedded in black nitrile/PVC blend rubber. This gives the hose the same properties inside and out
- **TEMPERATURE RANGE** -30°C (-22°F) to 70°C (158°F)



G971 Blue Lay-Flat Discharge Hose M&F		
I.D.	Lgth.	Item
1-1/2"	50	G971-150CE50
2"	50	G971-200CE50
3"	50	G971-300CE50
4"	50	G971-400CE50
6"	50	G971-600CE50
1-1/2"	100	G971-150CE100
2"	100	G971-200CE100
3"	100	G971-300CE100
4"	100	G971-400CE100

G972 Red Lay-Flat Discharge Hose M&F		
I.D.	Lgth.	Item
1-1/2"	50	G972-150CE50
2"	50	G972-200CE50
3"	50	G972-300CE50
4"	50	G972-400CE50
6"	50	G972-600CE50
1-1/2"	100	G972-150CE100
2"	100	G972-200CE100
3"	100	G972-300CE100
4"	100	G972-300CE100

G1373 Oroflex Discharge Hose M&F		
I.D.	Lgth.	Item
1-1/2"	50	G1373-150CE50
2"	50	G1373-200CE50
3"	50	G1373-300CE50
4"	50	G1373-400CE50

G372 Rubber Discharge M&F (75 psi)		
I.D.	Lgth.	Item
1-1/2"	50	G372-150CE50
2"	50	G372-200CE50
3"	50	G372-300CE50
4"	50	G372-400CE50
6"	50	G372-600CE50

G373 Rubber Discharge M&F (150 psi)		
I.D.	Lgth.	Item
1-1/2"	50	G373-150CE50
2"	50	G373-200CE50
3"	50	G373-300CE50
4"	50	G373-400CE50
6"	50	G373-600CE50

## 50' to 100' Discharge Hose Assemblies

### G1373-150CE50 - G972-400CE100

Discharge hoses are supplied with female and male aluminum camlocks attached with band clamps. Discharge hoses are also available with forestry and fire type hose couplings

G741 Gum Rubber Material Transfer					
I.D.	O.D.	WP	Bend Radius	Wt.	Item
1-1/2"	2.12	75	8"	1.19	G741-150
2"	2.72	75	10	1.31	G741-200
2-1/2"	3.29	75	14	1.68	G741-250
3"	3.78	75	16	2.04	G741-300
4"	4.76	75	22	2.70	G741-400
5"	5.79	75	32	3.46	G741-500
6"	6.87	75	37	4.47	G741-600

## Gum Rubber Material Transfer Hose

### G741-150 - 800

The extremely abrasion resistant gum rubber tube in G741 allows it to stand up to most non-oily bulk materials such as gravel, sand, and fertilizers. The tube is also certified to FDA food grade standards, making it suitable for grains, corn, sugar, and other foodstuffs. Where static build-up is a problem, the built in static wire dissipates static electricity when properly grounded to couplings.

- **TUBE** smooth, tan, 3/16" thick, ultra abrasion-resistant natural gum rubber that is certified to FDA standards
- **REINFORCEMENT** double wire helix plus static wire embedded between layers of synthetic textile cords
- **COVER** corrugated, tan, wrapped finish, weather and abrasion resistant rubber
- **TEMPERATURE RANGE** -40°C (-40°F) to 85°C (185°F)
- **COUPLINGS** because natural rubber is quite soft, it is difficult to obtain good fitting retention with punch clamps or band & buckles. On pressure applications, G38 double bolt clamps or G23T Tri-Lock fittings may be required.



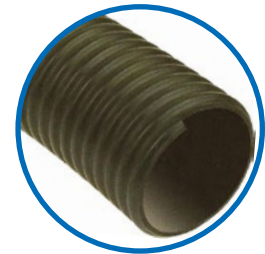
G1341C & I340C TPR Bulk Material						
I.D.	O.D.	WP @ 20°C	Vacuum Rating @ 68°F	Bending Radius @ 68°F	Wt./ft.	Item
2"	2.35	40 psi	Full	2.5	0.56	G1341C-200
3"	3.5	30 psi	Full	3.0	0.98	G1341C-300
4"	4.63	35 psi	Full	4.5	1.66	G1341C-400
5"	5.63	30 psi	28" Hg	5.0	2.47	G1341C-500
6"	6.73	30 psi	28" Hg	9.2	3.08	G1341C-600
8"	9.04	30 psi	28	15.0	5.65	G1341C-800
G1340C						
4"	4.55	25 psi	25	9.0	1.46	G1340C-400
5"	5.65	25 psi	25	10.0	2.16	G1340C-500
6"	6.78	25 psi	25	12.0	3.00	G1340C-600

## TPR Bulk Material Hose

### G1341C-200 - 800 - G1340C-400 - 600

G1341C is usually seen on municipal vacuum trucks where it is used to remove leaves and debris from plugged storm drains. Constructed of a special material that combines the advantages of rubber and PVC, with features such as light weight, good abrasion resistance, good low temperature flexibility, and the ability to dissipate static electricity. Though most visible on leaf suction trucks, this hose is often used for conveying abrasive materials such as, grain, sand, gravel, cement, and crushed rock. For lighter duty applications where greater flexibility is required, we offer G1340C—a lighter version with similar properties. G1340C is often used for grain vacuum service.

- **CONSTRUCTION** black, abrasion resistant thermoplastic elastomeric material supported by a thick, rigid PVC helix
- **INTERIOR** smooth, abrasion and mild chemical resistant thermoplastic elastomeric material
- **TEMPERATURE RANGE** -40 °C (-40 °F) to 70 °C (158 °F)



## Thermoplastic Rubber Ducting

### GTPR-200 - 1400

Our thermoplastic rubber ducting is constructed from the highest grade material available. The resulting product has great ozone, ultra-violet, and weathering resistance. TPR duct is well suited to most industrial ventilation and light material handling applications, and is also resistant to a wide variety of chemicals and solvents. The unique, flexible rubber compound has excellent tear and puncture resistance and functions well over a wide temperature range.

- **CONSTRUCTION** black, thermoplastic rubber (Santoprene®) encapsulating a galvanized wire helix. Ducting wall thickness is 0.025"
- **WEAR STRIP OPTION** this duct is available with an external wear strip (part number TPRW)
- **TEMPERATURE RANGE** -50 °C (-58 °F) to 135 °C (275 °F)



TPR Thermoplastic Rubber Ducting				
I.D.	Working Pressure	Vacuum Rating HG	Wt./ft.	Item
2"	32	28"	0.29	TPR-200
2-1/4"	29	26"	0.31	TPR-225
2-1/2"	29	26"	0.32	TPR-250
3"	28	24"	0.47	TPR-300
4"	24	19"	0.70	TPR-400
4-1/2"	22	17"	0.75	TPR-450
5"	21	16"	0.81	TPR-500
6"	17	13"	0.92	TPR-600
7"	15	10"	1.29	TPR-700
8"	12	8"	1.44	TPR-800
10"	8	5"	1.52	TPR-1000
12"	6	3"	1.83	TPR-1200
14"	5	1.8"	2.62	TPR-1400



G941W Multi Purpose Transfer								
I.D.	O.D.	Working Pressure	Working Pressure	Vacuum Rating @ 20° C	Vacuum Rating @ 40° C	Bend Radius @ 20° C	Wt./ft.	Item
1"	1.3	55	35	Full	28"	1"	0.21	G941W-100
1-1/4"	1.6	50	30	Full	28"	2"	0.28	G941W-125
1-1/2"	1.85	50	30	Full	28"	2"	0.34	G941W-150
2"	2.40	50	30	Full	28"	3"	0.52	G941W-200
2-1/2"	3.07	45	25	Full	28"	4"	0.77	G941W-250
3"	3.64	45	25	Full	28"	6"	1.17	G941W-300
4"	4.76	35	18	Full	28"	8"	1.92	G941W-400
5"	5.75	35	18	28"	25"	12"	2.41	G941W-500
6"	7	30	15	28"	25"	14"	3.75	G941W-600
8"	9.18	30	15	28"	25"	24"	5.97	G941W-800
10"	11.56	25	12	28"	25"	39"	9.73	G941W-1000
12"	13.64	20	10	28"	25"	59"	12.74	G941W-1200

## Multi Purpose Transfer Hose

### G941W-100 - 1200

Multi-Purpose Transfer is designed for applications where high flexibility is required in a durable hose. G941W is popular for herring, salmon, and ground fish transfer on fish pumps. It is also excellent for conveying ice, wood shavings, and PVC pellets. The flexible PVC portion is clear on all sizes so that hose contents are visible. In sizes 4" and up, a high molecular compound is used to provide increased wear and cold temperature.

G722 Sandblast Hose. 150 PSI. 50 OR 100' Lengths				
I.D.	O.D.	Tube Thickness	Wt.	Item
1/2"	1.06	0.23	0.36	G722-050
3/4"	1.5	0.27	0.64	G722-075
1"	1.88	0.31	1.04	G722-100
1-1/4"	2.16	0.31	1.25	G722-125
1-1/2"	2.38	0.3	1.3	G722-150
2"	2.88	0.31	1.64	G722-200
2-1/2"	3.44	0.31	2.24	G722-250
3"	4.06	0.31	2.7	G722-300
Whip Hose				
1"	1.5	0.28	0.55	G722-100-150
1-1/4"	1.88	0.28	0.8	G722-125-188

## Sandblast Hose

### G722-050 - 300

G722 Sandblast is designed to conduct sand, shot, glass beads, and other abrasives at high velocity. The tube is static conductive to prevent dangerous shocks and the outside diameter is designed to accept over-the-counter sandblast couplings. The life of a sandblast hose is greatly affected by velocity of flow and amount of hose bending. Typically, hoses will wear out on the outside radius of a curved hose, especially near the operator where it is continuously flexed. Selection of the correct nozzle size is important to prevent premature wear. Please see the Chart below. Sandblast whip hoses are designed with a reduced outside diameter for extra flexibility to reduce operator fatigue. However, the tighter bends that occur with the small outside diameters will reduce hose life. Of course the quality and thickness of the tube material also affects the life and price of the hose. Be wary of less expensive sandblast hoses that may give false economy if they wear out faster. There is an international standard (DIN 53516) that measures abrasion loss of rubber. The rating for G722 is 70 +/- 1.5mm<sup>3</sup>. Wear rates of competitive hoses found in the market have been measured at 140 and more.

- **CONSTRUCTION** clear, flexible PVC, supported by a thick, grey, rigid PVC helix
- **INTERIOR** smooth, abrasion and mild chemical resistant PVC
- **EXTERIOR** corrugated, abrasion, weather and chemical resistant PVC
- **TEMPERATURE RANGE** for Sizes 1" through 3": Static condition -20 °C (-4 °F) to 65 °C (150 °F). Dynamic condition -10 °C (14 °F) to 40 °C (104 °F)
- **TEMPERATURE RANGE** for sizes 4" through 16": Static condition, -40 °C (-40 °F) to 65 °C (150 °F). Dynamic condition, -30 °C (-22 °F) to 40 °C (104 °F)



- **TUBE** smooth, black, very abrasion resistant, static-conductive, natural rubber
- **REINFORCEMENT** multiple layers of spiraled textile cords
- **COVER** black, pin-pricked, abrasion and weather resistant rubber with wrapped finish
- **TEMPERATURE RANGE** -40°C (-40 °F) to 95 °C (203 °F)



<b>Pipe Thread Adapters</b>	<b>0800</b> CAP	<b>1600</b> PLUG	<b>1600H</b> HOLLOW HEX PLUG	<b>1616</b> HEX NIPPLE	<b>1608</b> REDUCER	<b>0808</b> COUPLING	<b>0816</b> BUSHING	<b>0848</b> 45° ELBOW	<b>1648</b> 45° STREET ELBOW	<b>1646</b> 45° MALE ELBOW
	<b>1698</b> 90° STREET ELBOW	<b>1696</b> 90° MALE ELBOW	<b>0898</b> 90° ELBOW	<b>08T88</b> TEE	<b>08T86</b> MALE BRANCH TEE	<b>16T88</b> RUN TEE	<b>08X88</b> CROSS	<b>16T66</b> MALE TEE	<b>16T68</b> TEE	<b>16T86</b> TEE
<b>Female Pipe Swivel Adapters</b>	<b>0616</b> CONNECTOR	<b>0646</b> 45° ELBOW	<b>0696</b> 90° ELBOW	<b>0696L</b> 90° LONG ELBOW	<b>0608</b> COUPLING	<b>0648</b> 45° ELBOW	<b>0698</b> 90° ELBOW	<b>06T066</b> MALE BRANCH TEE	<b>06T068</b> SWIVEL	<b>06T0606</b> SWIVEL
	<b>0005</b> JIC TUBE SLEEVE	<b>0015</b> BULKHEAD LOCK NUT	<b>0035</b> JIC TUBE NUT	<b>0500</b> JIC 37° CAP	<b>0505SW</b> FEMALE PIPE	<b>0508</b> FEMALE PIPE TO JIC	<b>0515</b> JIC REDUCER	<b>0515N</b> JIC SWIVEL CONNECTOR	<b>0516</b> MALE PIPE TO JIC	<b>0545</b> JIC 45° ELBOW
<b>JIC 37° Flare Adapters</b>	<b>0595</b> JIC 90° ELBOW	<b>0596</b> 90° MALE PIPE TO JIC	<b>1500</b> JIC 37° HEX PLUG	<b>1500W</b> JIC WELD ADAPTER	<b>1515</b> UNION	<b>1595</b> UNION ELBOW	<b>1515BH</b> BULKHEAD CONNECTOR	<b>1516BH</b> JIC TO PIPE BULKHEAD	<b>1545BH</b> JIC BULKHEAD 45° ELBOW	<b>1595BH</b> JIC BULKHEAD 90° ELBOW
	<b>1516</b> JIC TO PIPE ADAPTER	<b>1516XL</b> EXTRA LONG MALE JIC-X-MALE PIPE ADAPTER	<b>1598</b> JIC TO FEMALE PIPE ELBOW	<b>1546</b> JIC TO PIPE 45° ELBOW	<b>1596</b> JIC TO PIPE 90° ELBOW	<b>1596L</b> LONG ELBOW	<b>1596XL</b> EXTRA LONG ELBOW	<b>1596XXL</b> EXTRA EXTRA LONG ELBOW	<b>1508</b> JIC TO FEMALE PIPE	<b>1508BH</b> BULKHEAD CONNECTOR
	<b>05T55</b> SWIVEL RUN TEE	<b>15T505</b> SWIVEL BRANCH TEE	<b>15T55</b> MALE TEE	<b>15T56</b> MALE PIPE BRANCH	<b>15T58</b> FEMALE PIPE BRANCH	<b>15T65</b> MALE PIPE RUN TEE	<b>15T85</b> FEMALE PIPE RUN TEE	<b>15T55BH</b> BULKHEAD TEE	<b>15TBH55</b> BULKHEAD TEE	<b>15X55</b> MALE CROSS
	<b>1100</b> ORB HEX PLUG	<b>1100H</b> ORB HOLLOW HEX PLUG	<b>1111</b> MALE ORB UNION	<b>0111</b> O-RING BUSHING	<b>1108</b> FEMALE PIPE CONNECTOR	<b>1196</b> MALE PIPE ELBOW	<b>1198</b> FEMALE PIPE ELBOW	<b>0611</b> PIPE SWIVEL CONNECTOR	<b>0641</b> 45° ELBOW	<b>0691</b> 90° ELBOW
<b>O-Ring Boss Adapters</b>	<b>1116</b> MALE PIPE CONNECTOR	<b>0116</b> FEMALE ORB TO PIPE	<b>1115</b> JIC CONNECTOR	<b>1115L</b> JIC LONG CONNECTOR	<b>1145</b> 45° ELBOW	<b>1195</b> 90° ELBOW	<b>1195L</b> 90° LONG ELBOW	<b>1195XL</b> 90° EXTRA LONG ELBOW	<b>0511</b> FEMALE JIC CONNECTOR	<b>0591</b> FEMALE JIC ELBOW
	<b>15T51</b> BRANCH TEE	<b>11T55</b> RUN TEE	<b>0011</b> O-RING							
	<b>83000</b> CAP	<b>83093</b> CONNECTOR	<b>93000</b> HEX PLUG	<b>15083</b> FEMALE ORFS X MALE JIC	<b>15093</b> MALE ORFS to JIC CONNECTOR	<b>93011</b> ORB ADAPTER	<b>93016</b> ORFS to NPT CONNECTOR	<b>93093</b> UNION	<b>93093BH</b> BULKHEAD UNION	<b>83493</b> 45° ELBOW
<b>O-Ring Face Seal Adapters</b>	<b>93411</b> ORB 45° ADAPTER	<b>93416</b> ORFS to NPT 45° ELBOW	<b>83993</b> 90° ELBOW	<b>93911</b> ORB 90° ADAPTER	<b>93916</b> ORFS to NPT 90° ELBOW	<b>93993</b> 90° UNION ELBOW	<b>93993BH</b> ORFS BULKHEAD 90° ELBOW	<b>83T99</b> TEE	<b>93T19</b> ORB RUN TEE	<b>93T91</b> ORB BRANCH TEE
	<b>93T96</b> ORFS to NPT TEE	<b>93T99</b> UNION TEE	<b>93T983</b> SWIVEL NUT BRANCH TEE	<b>00093</b> O-RING						
	<b>0900</b> CODE 61 (3000 psi)	<b>0900K</b> CODE 61 KIT	<b>0915</b> MALE JIC	<b>0945</b> MALE JIC 45° ELBOW	<b>0995</b> MALE JIC 90°	<b>0908</b> FEMALE FLANGE	<b>0908K</b> FEMALE FLANGE KIT	<b>0900H</b> CODE 62 (6000 psi)	<b>0900HK</b> CODE 62 KIT	<b>0908HK</b> FLANGE TO FEMALE NPT KIT
<b>SAE Flange Adapters</b>	<b>0915H</b> STRAIGHT MALE JIC	<b>0945H</b> MALE JIC 45° ELBOW	<b>0995H</b> MALE JIC 90° ELBOW	<b>0009</b> O-RING	<b>0900P</b> CODE 61 FLANGE PLUG	<b>Pressure Wash Adapters</b>				
	<b>25000</b> BANJO BOLT	<b>26000</b> CAP	<b>36000</b> HEX PLUG	<b>36000H</b> HOLLOW HEX PLUG	<b>36026</b> SWIVEL CONNECTOR	<b>36036</b> MALE UNION	<b>36926</b> 90° ELBOW	<b>64008</b> FEMALE PIPE ADAPTER	<b>74008</b> FEMALE PIPE ADAPTER	<b>74016</b> MALE PIPE ADAPTER
<b>BSP Adapters</b>	<b>16036</b> PIPE ADAPTER	<b>36008</b> FEMALE PIPE ADAPTER	<b>36005</b> FEMALE PIPE ADAPTER	<b>15026</b> JIC ADAPTER	<b>15036</b> JIC ADAPTER	<b>15936</b> 90° ELBOW	<b>00036</b> BONDED SEAL	<b>Japanese Adapters</b>		
	<b>73000</b> MALE PLUG	<b>73000H</b> HOLLOW HEX PLUG	<b>73008P</b> MALE METRIC PORT to FEMALE NPT	<b>15061</b> STANDPIPE X MALE JIC	<b>15062</b> FEMALE METRIC to MALE JIC	<b>15073</b> CONE SEAT METRIC to JIC	<b>15073P</b> METRIC PORT to JIC	<b>78000</b> KOMATSU PLUG	<b>78078</b> KOMATSU UNION	<b>15078</b> KOMATSU MALE to JIC
<b>Metric Adapters</b>	<b>15973</b> 90° ELBOW	<b>75000</b> BANJO BOLT	<b>00163</b> DIN 24° LIGHT SERIES NUT	<b>00263</b> DIN 24° LIGHT SERIES SLEEVE	<b>00164</b> DIN 24° HEAVY SERIES NUT	<b>00264</b> DIN 24° HEAVY SERIES SLEEVE	<b>00073</b> BONDED SEAL	<b>15079</b> 30° FLARE to JIC	<b>69000</b> 30° FLARE CAP	<b>79000</b> 30° FLARE PLUG



# ForestPRO

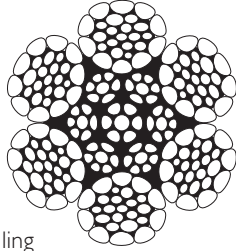
ForestPRO, a Sling-Choker brand, is our product line dedicated to excellence in forestry equipment maintenance and performance. Containing general logging accessories, tire chains, chokers, and delimber cables, ForestPRO offers effective solutions for your forestry applications.

Swaged Mainline			
Dia	MBL	Wt./Ft	Item
1/2"	14.82	0.6	WRSW-008
9/16"	18.53	0.75	WRSW-009
5/8"	23.01	0.93	WRSW-010
3/4"	33.74	1.37	WRSW-012
7/8"	45.34	1.83	WRSW-014
1"	60.60	2.42	WRSW-100

## Swaged Mainline Wire Rope

### WRSW-008 - 100

- This high-density rope minimized drum crushing spools better and delivers exceptional rope performance
- Greater resistance to stretch allows the rope to maintain its integrity and diameter throughout its service life
- A smooth outer rope profile reduces wear and increases sheave and drum life
- Greater in-service rope stability reduces porcupining and leads to safer operator handling



Drum line Ferrule			
Size	Dia.	Length	Item
1/2"	1 1/2	2	SCFEDL-008
9/16"	1 1/2	2 3/8	SCFEDL-009
5/8"	1 1/2	2 3/8	SCFEDL-010
3/4"	1 1/2	2 3/8	SCFEDL-012
7/8"	2	2 1/2	SCFEDL-014
1"	2	2 1/2	SCFEDL-100
1-1/8"	2 1/4	2 1/2	SCFEDL-102
1-1/4"	2 1/4	2 1/2	SCFEDL-104

## Drum Line Ferrules

### WDFEDL-008 - 104

- Are used almost exclusively on forestry related equipment where the ferrule does not require 100% efficiency
- Fit most dozer and skidder winches and are there solely to hold the rope onto the drum while the required amount of dead wraps are installed



Alloy Eye Hook Generic	
WLL	Item
7	GS320A-07
11	GS320A-11
15	GS320A-15
22	GS320A-22

## Alloy Eye Hooks

### OC320A-07 - 22



Thimble Eye Splice				
Size	Eye Width	Eye Length	WLL	Item
1/4	7/8	1 5/8	1,300	EYET004
5/16	1 1/16	1 7/8	2,000	EYET005
3/8	1 1/8	2 1/8	2,800	EYET006
7/16	1 1/4	2 3/8	3,800	EYET007
1/2	1 1/2	2 3/4	5,000	EYET008
9/16	1 1/2	2 3/4	6,400	EYET009
5/8	1 3/4	3 1/4	7,800	EYET010
3/4	2	3 3/4	11,200	EYET012
7/8	2 1/4	4 1/4	15,200	EYET014
1	2 1/2	4 1/2	19,600	EYET100
1 1/8	2 7/8	5 1/8	24,000	EYET102
1 1/4	2 7/8	5 1/8	30,000	EYET104

## Thimble Eye Splice

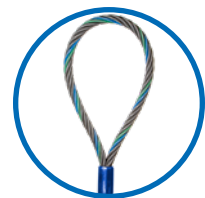
### EYET004 - EYET104



Standard Eye Splice				
Size	Eye Width	Eye Length	WLL	Item
1/4	2	4	1,300	EYE004
5/16	2 1/2	5	2,000	EYE005
3/8	3	6	2,800	EYE006
7/16	3 1/2	6	3,800	EYE007
1/2	4	8	5,000	EYE008
9/16	4 1/2	9	6,400	EYE009
5/8	5	10	7,800	EYE010
3/4	6	12	11,200	EYE012
7/8	7	14	15,200	EYE014
1	8	16	19,600	EYE100
1 1/8	9	18	24,000	EYE102
1 1/4	10	20	30,000	EYE104

## Standard Eye Splice

### EYE004 - EYE104



Tail Chain	
Size	Item
5/16"	1091473
1/2"	1091482
3/4"	1091511
1"	1091516

## Tail Chains

### CRI80-005 - 100(L)



Impact Wire Rope Cutter	
Model	Item
No 01	CUT01
No 01A	CUT01A
No 02	CUT02

Top Blades	
Model	Item
No 01	CUTBL0015
No 01A	CUTBL0015
No 02	CUTBL003

Bottom Guides	
Model	Item
No 01	CUTGUI-1
No 01A	CUTGUI-1A
No 02	CUTGUI-2

## Morse-Starrett Impact Wire Rope Cutters

### CUT01(A) - 02

The original portable tool brand invented in 1928 to cut wire rope.

Actuated by striking with a hammer, they are easy to operate and give superior performance without jamming.

Precision-engineered to deliver a clean cut without affecting the original roundness of the wire rope.

The blades and dies of these tools are made of the finest tool steel

Quick Fix Spiral Wedge Ferrules				
Size	Colour	Ferrule size	MFG #	Item
7/16, 1/2", 9/16"	Silver	1-1/8"x1-1/4"	M4	OS-L797
7/16, 1/2", 9/16"	Cream	1-1/2"x1-3/4"	LBF(D)	OS-L798
9/16"-5/8"	Pink	1-1/2"x1-3/4"	LB5 (D)	OS-L799
1/2"	Brown	2" x 1-11/16"	B4	OS-L800
5/8"	Maroon	1-5/8"x2"	B5	OS-L801
3/4"	Gray	1-5/8"x2"	B6	OS-L802
3/4"	White	2-1/8"x2-9/16"	L6	OS-L803
7/8"	Black	2-1/8"x2-9/16"	L7	OS-L804
1"	Green	2-1/8"x2-9/16"	L8	OS-L805
7/8"	Red	2-3/8"x2-9/16"	LJ7	OS-L806
1"	Blue	2-3/8"x2-9/16"	LJ8	OS-L807
1-1/8"	Yellow	2-3/8"x2-9/16"	LJ9	OS-L808
1-1/4"	Orange	2-3/8"x2-9/16"	LJ10	OS-L809
1-1/4"	Purple	2-13/16" x 2-1/8"	S10	OS-L810
1-3/8"	Gold	2-13/16" x 3-1/8"	S11	OS-L811

## Morse-Starrett Impact Cutter NO 01

### CUT01

LIGHT  
DUTY



## Morse-Starrett Impact Cutter NO 01A

### CUT01A

1 1/16"



## Morse-Starrett Impact Cutter NO 02

### CUT02

1 1/2"



Bronze Wedges		
Size	Weight	Item
7/16-1/2-9/16"	0.625	OS-LW797
5/8"	0.750	OS-LW799
3/4"	0.875	OS-LW802
7/8"	1.000	OS-LW804
1"	1.125	OS-LW805
1-1/8"	1.250	OS-LW808
1-1/4"	1.375	OS-LW809

## Quick Fix Spiral Wedge Ferrules

### OS-L797 - L811



Choker Hardware		
Description	Wt.	Item
Micro Midget Open Choker Hook	0.75	WRI-12
WRI-35 Angled Twitch Hook	2.8	WRI-35
Twitch Hook Roll Pin	0.24	WRI-35-RP
WRI 4350LS Mainline Slider	1.6	WRI-4350LS
3/8 G Connector	0.6	28XCL-10



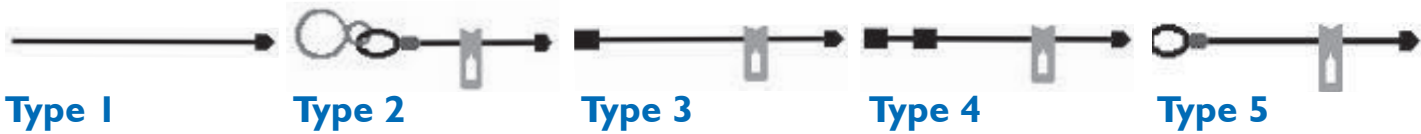
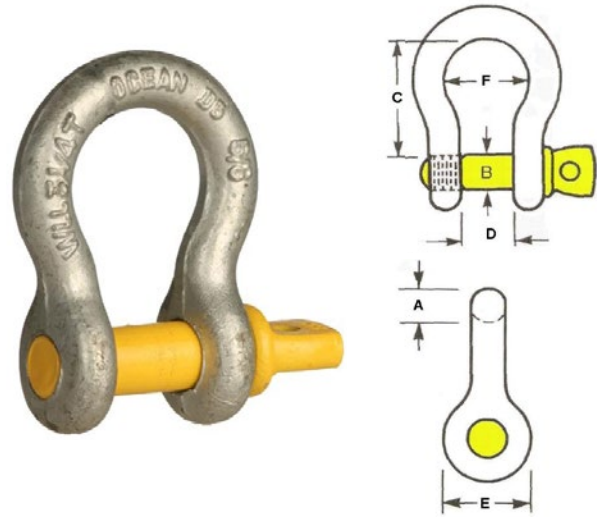
OC209 Screw Pin Anchor Shackles Galv.									
Size	WLL	A	B	C	D	E	F	Wt.	Item
3/16	1/3	0.19	0.25	0.88	0.38	0.56	0.56	0.06	GS209-003
1/4	1/2	0.25	0.31	1.13	0.47	0.61	0.61	0.10	GS209-004
5/16	3/4	0.31	0.38	1.22	0.53	0.75	0.75	0.19	GS209-005
3/8	1	0.38	0.44	1.44	0.66	0.91	0.91	0.31	GS209-006
7/16	1 1/2	0.44	0.50	1.69	0.75	1.06	1.06	0.38	GS209-007
1/2	2	0.50	0.63	1.88	0.81	1.19	1.19	0.72	GS209-008
5/8	3 1/4	0.62	0.75	2.38	1.06	1.50	1.50	1.37	GS209-010
3/4	4 3/4	0.81	0.88	2.81	1.25	1.81	1.81	2.35	GS209-012
7/8	7 1/2	0.97	1.00	3.31	1.44	2.09	2.09	3.62	GS209-014
1	8 1/2	1.06	1.13	3.75	1.69	2.38	2.38	5.03	GS209-100
1 1/8	9 1/2	1.25	1.25	4.25	1.81	2.69	2.69	7.41	GS209-102
1 1/4	12	1.38	1.38	4.69	2.03	3.00	3.00	9.50	GS209-104
1 3/8	13-1/2	1.50	1.50	5.25	2.25	3.31	3.31	13.53	GS209-106
1 1/2	17	1.62	1.63	5.75	2.38	3.63	3.63	17.20	GS209-108
1 3/4	25	2.25	2.00	7.00	2.88	4.19	4.19	27.78	GS209-112
2	35	2.40	2.25	7.75	3.25	4.81	4.81	45.00	GS209-200
2 1/2	55	3.13	2.75	10.50	4.13	5.69	5.69	85.75	GS209-208

6:1 Working Load Limit

## Screw Pin Anchor Shackles

### OC209-003 - 208

Top quality, economical anchor shackles that are great for winch lines and tire chain repairs



### Type 1

Tapered ferrule one end only

### Type 2

Tapered ferrule one end  
WRI-12 choker hook, 4350LS Mainline ring installed in bend-back eye on other end

### Type 3

Tapered ferrule one end  
Standard ferrule on other end and a WRI-12 choker hook between

### Type 4

Tapered ferrule one end  
2 standard ferrules spaced inches apart on other end and a WRI-12 choker hook between

### Type 5

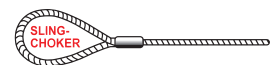
Tapered ferrule one end  
Bend-back eye with WRI-12 choker hook between

Add	Type 1 WRG62-007	Type 2 WRG62-007	Type 3 WRG62-007	Type 4 WRG62-007	Type 5 WRG62-007
5	CHT1-007X05	CHT2-007X05	CHT3-007X05	CHT4-007X05	CHT5-007X05
6	CHT1-007X06	CHT2-007X06	CHT3-007X06	CHT4-007X06	CHT5-007X06
7	CHT1-007X07	CHT2-007X07	CHT3-007X07	CHT4-007X07	CHT5-007X07
8	CHT1-007X08	CHT2-007X08	CHT3-007X08	CHT4-007X08	CHT5-007X08
9	CHT1-007X09	CHT2-007X09	CHT3-007X09	CHT4-007X09	CHT5-007X09
10	CHT1-007X10	CHT2-007X10	CHT3-007X10	CHT4-007X10	CHT5-007X10

1/2" Forestry Logging Chokers - 1/2" NBL 13.3 Tons				
Type 1 WRG62-008	Type 2 WRG62-008	Type 3 WRG62-008	Type 4 WRG62-008	Type 5 WRG62-008
CHT1-008X05	CHT2-008X05	CHT3-008X05	CHT4-008X05	CHT5-008X05
CHT1-008X06	CHT2-008X06	CHT3-008X06	CHT4-008X06	CHT5-008X06
CHT1-008X07	CHT2-008X07	CHT3-008X07	CHT4-008X07	CHT5-008X07
CHT1-008X08	CHT2-008X08	CHT3-008X08	CHT4-008X08	CHT5-008X08
CHT1-008X09	CHT2-008X09	CHT3-008X09	CHT4-008X09	CHT5-008X09
CHT1-008X10	CHT2-008X10	CHT3-008X10	CHT4-008X10	CHT5-008X10

Add	Type 1 WRG62-009	Type 2 WRG62-009	Type 3 WRG62-009	Type 4 WRG62-009	Type 5 WRG62-009
5	CHT1-009X05	CHT2-009X05	CHT3-009X05	CHT4-009X05	CHT5-009X05
6	CHT1-009X06	CHT2-009X06	CHT3-009X06	CHT4-009X06	CHT5-009X06
7	CHT1-009X07	CHT2-009X07	CHT3-009X07	CHT4-009X07	CHT5-009X07

5/8" Forestry Logging Chokers 5/8" NBL 20.6 Tons				
Type 1 WRG62-010	Type 2 WRG62-010	Type 3 WRG62-010	Type 4 WRG62-010	Type 5 WRG62-010
CHT1-010X05	CHT2-010X05	CHT3-010X05	CHT4-010X05	CHT5-010X05
CHT1-010X06	CHT2-010X06	CHT3-010X06	CHT4-010X06	CHT5-010X06



G8 Connectors-Yoke			
Size	WLL Lbs	Wt.	Item
1/4"	4,500	0.4	28XCL-07-08
3/8"	7,100	0.6	28XCL-10
1/2"	12,000	1.5	28XCL-13
5/8"	18,100	2.4	28XCL-16
3/4"	28,300	3.7	28XCL-18-20



CM249 Twin Clevis Link			
Size	WLL	Wt.	Item
5/8"	16,800	1.6	CM249-16



## Twin Clevis Link

### CM249-16

Scarification Tube Chain repair solution

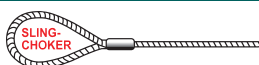
## G8 Connectors

### 28XCL-07 - 20

Economically priced and great quality for your tire chain repair needs

Delimber Cables Suspension Cables		
Description	OEM	Item Code
Suspension Cable Inner 16mm x 38 with Two buttons one end. Other End Free	DV-0001-02	DEL-F16X38
Suspension Cable Outer 16mm x 69 with Two buttons one end. Other End Free	DV-1366-02	DEL-F16X69
Suspension Cable Forest Pro Inner- 16mm x 40 with Two buttons one end. Other End Free		DEL-FP16X40
Suspension Cable Forest Pro Outer- 16mm x 72 with Two buttons one end. Other End Free		DEL-FP16X72
Suspension Cable. Inner. 16.0mm x 38 with Solid Thimble one end, Other end Free. Thimble drilled to 1-9/16"	DV-0001	DEL-T16X38
Suspension Cable. Inner. 16.0mm x 70 with Solid Thimble one end, Other end Free. Thimble drilled to 1-9/16"	DV-1366-01	DEL-T16X70

Delimber Drive Cables		
Description	OEM	Item Code
Delimber Cable, 3/4'x34' 8-1/2' overall. Cushion 6 with Two BR-0500 Ferrules. one end spaced 2-1/4' apart, BR-0500 Ferrule at opposite End. Washers to be between all ferrules. DV2231-24	DV2231-24	DEL-C6012X348
Delimber Cable, 3/4'x34' 8-1/2' overall. Cushion Pac 8 with Two BR-0500 Ferrules. one end spaced 2-1/4' apart, BR-0500 Ferrule at opposite End. Washers to be between all ferrules. DV2231-24	DV-2231-24	DEL-C8012X348
Delimber Cable 3/4'x 68 Ft. 3-5/8 In. CP8 with 3/4" S409 button end and Open Swage Socket end. Measurement is end of Ferrule to C/P of Socket. DV-2536	DV-2536-CP8	DEL-C8012X685
Delimber Cable 3/4'x 68 Ft. 3-5/8 In. Cushion 6 with 3/4" S409 button end and Open Swage Socket end. Measurement is end of Ferrule to C/P of Socket. DV2536	DV-2536	DEL-C6012X685
Delimber Drive (Winch) Cable 20mm x 68 Ft. 5-5/8 In COMPLAST 9 with 3/4" Crosby S409 Drumlire button one end and Open Swage Socket other end. Measurement is end of Ferrule to C/P of Socket. ( DV2536-COM9) Drive Cable for 4400. DV-2536	DV2536-COM9	DEL-C920MX685
Delimber Drive (Winch) Cable, (COM9) 20MM x 34' 8-1/2' overall, DV-2357-07 COM9 with two Den Ferrules one end spaced 2-1/4' apart, Den Ferrule at opposite End. Washers to be between all ferrules. Double End Ferrules to have machined flats with Keeper. DV-2357-07	DV-2357-07	DEL-C920MX348



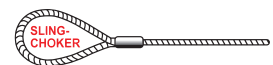
# TIRE CHAINS

## FOR ANY SIZE

Contact us for availability & pricing information



256







# PROUtilities

PROUtilities, a Sling-Choker brand, is our product line dedicated to assisting in making general utility work safer and easier. Containing guard rail cables, grips, guy clamps & hooks, winch ropes, and other rope products, PROUtilities can supply you with tough equipment that allows for safe and efficient utility work.

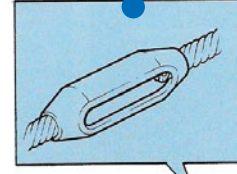
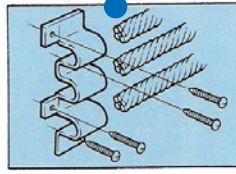
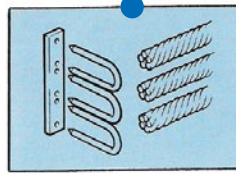
Cable Guard Rail & Components	
Description	Item
Turnbuckles with Wedges	WS1550
Solid Splicer with Wedges	WS1517B
6 Ft. Cable with Ferrule	WS1514
Bronze Wedge Set	WS1551
6" H beam Anchor Post for 3 or 6 Cable Rail	WS1512
12 Gauge Splicer Plates	WS1516
Staples (600 per Box)	WS1518
Cable Clamp & 4 Nails (New Construction)	WS1513
4x15" Reflective Strips	WS1515
1/2" 1 x 7 Galvanized Gr 110 Strand (3000' Reel)	STEHS-008



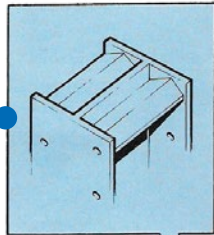
# CABLE GUARD RAIL & COMPONENTS

Two options are available for mounting cable to the posts. On the left is the **spacer plate/staple** option and on

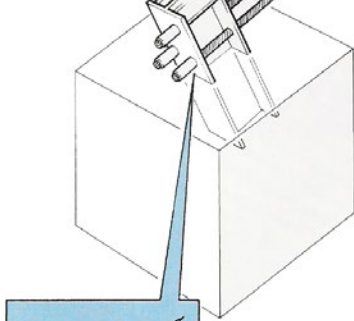
A **solid splice c/w bronze wedges** is available for splicing between anchor blocks.



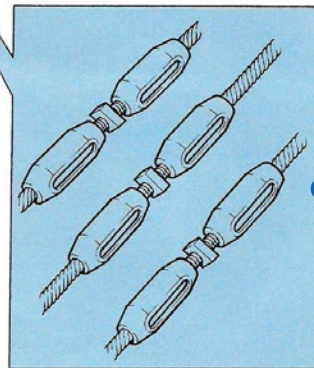
A **6" H Beam Anchor Block** is available for installing the 3



The **6 ft. cable c/w ferrule** is the anchor strand of the cable system



The **turnbuckle c/w bronze wedges** allows the slack to be taken up at each end of the installation.



1X7 Galvanized Strand to ASTM A475. Class A Coating					
Dia. In.	mm	Dia. Wire	MBS EHS	Wt./1000'	Item
3/16"	4.8	0.062	3,990	73	STEHS-003
1/4"	6.4	0.08	6,650	121	STEHS-004
9/32"	7.1	0.093	8,950	164	STEHS-0045
5/16"	7.9	0.104	11,200	205	STEHS-005
3/8"	9.5	0.12	15,400	273	STEHS-006
7/16"	11.1	0.145	20,800	399	STEHS-007
1/2"	12.7	0.165	26,900	517	STEHS-008
9/16"	14.3	0.188	35,000	671	STEHS-009
5/8"	15.9	0.207	42,400	813	STEHS-010

## 1X7 Galvanized Strand

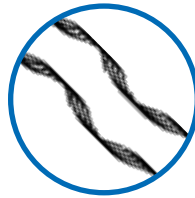
STEHS-003 - 010



Strand Splice					
Dia. In.	mm	Colour	Length	Wt.	Item
1/4"	6.4	Yellow	35"	0.7	PT-SS-004
5/16"	7.9	Black	42"	0.9	PT-SS-005
3/8"	9.5	Orange	50"	1.5	PT-SS-006
7/16"	11.1	Green	56"	2.3	PT-SS-007
1/2"	12.7	Blue	63"	3.6	PT-SS-008

## Strand Splice

PT-SS-004 - 008



SEG Swivel Eye Grips				
Length	Size Range	WLL Lbs	Approx. BS	Item
24"	1/4" - 1/2"	1,200	6,000	LW-501832
36"	1/2" - 1"	3,500	10,000	LW-502148
42"	1" - 1 1/2"	9,600	28,800	LW-501844



## SEG Series Swivel Eye Grips

Hardened steel rotating eyes available. The eyes are durable, compact, and streamlined. Will thread through blocks and sheaves without binding. The rotating eye is not a ball bearing and will not turn while under tension. It will turn to relieve pulling torque when the pulling tension is released. If a continual swivel movement is needed, a ball bearing swivel should be used.

Preformed Guy Grip					
Dia. In.	mm	Colour	Length	Wt.	Item
1/4"	6.4	Yellow	25"	0.34	PT-S-PR-004
5/16"	7.9	Black	30"	0.7	PT-S-PR-005
3/8"	9.5	Orange	35"	1.04	PT-S-PR-006
7/16"	11.1	Green	38"	1.6	PT-S-PR-007
1/2"	12.7	Blue	45"	2.52	PT-S-PR-008
9/16"	14.3	Yellow	55"	4	PT-S-PR-009
5/8"	15.9	Black	64"	5	PT-S-PR-010

## Preformed Guy Grip

PT-S-PR-004 - PT-S-PR-010

Lashing Wire		
Dia.	Feature	Item
0.045	Flag	WIRE045LSH

## Lashing Wire

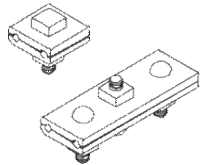
WIRE045LSH



Guy Clamps, Hot dip Galvanized					
Qty.	Bolt	Clamp	Wire Range	Wt.	Item
of Bolts	Dia.	Length	Wire Range	Wt.	Item
1	1/2"	1-1/2"	3/16"-3/8"	0.6	PT-5GG
3	1/2"	4"	3/16"-7/16"	1.6	PT-30GC

## Guy Clamps

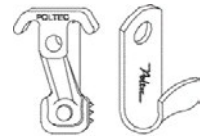
PT-5GG - 50GC



Guy Hooks				
Style	Hole Dia.	Bolt Size	Wt.	Item
"C"	13/16"	5/8"-3/4"	1.24	PT-1GH
"J"	11/16"	5/8"	0.66	PT-2GH

## Guy Hooks

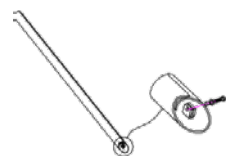
PT-1GH - 2GH



Plastic Guy Guard			
Length	Colour	Wt.	Item
7'	Yellow	3	PT-700GG
7'	Green	3	PT-700YG

## Plastic Guy Guard

PT-5GG - 50GC

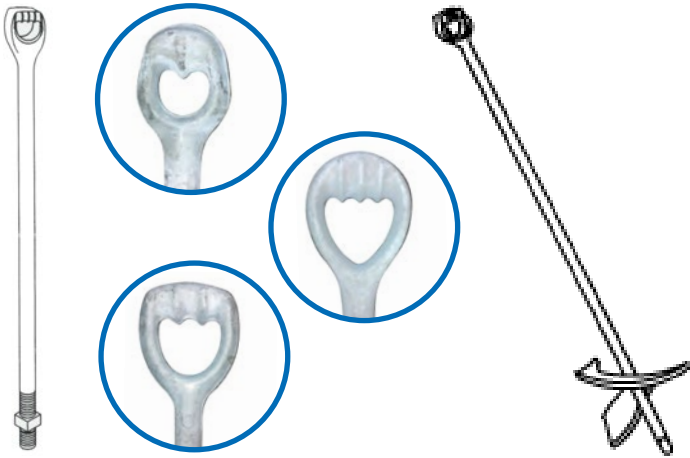


Most cable rail is installed with 3 runs of 1/2" Strand Galvanized Cable. All components and fittings are Hot Dipped Galvanized after fabrication and conform to Ministry of Ontario Standards OPSD 910.01.



Anchor Rods, 1 Square Nut, Hot Dipped Galvanized				
Size	Weight	Double Thimble Eye	Triple Thimble Eye	Quad Thimble Eye
5/8"x6'	6.5	PT-586DT	n/a	n/a
5/8"x7'	8.0	PT-587DT	n/a	n/a
5/8"x8'	8.4	PT-588DT	n/a	n/a
3/4"x7'	11.0	PT-347DT	PT-347TT	n/a
3/4"x8'	12.0	PT-348DT	PT-348TT	n/a
3/4"x9'	14.0	PT-349DT	PT-349TT	n/a
3/4"x10'	15.7	PT-3410DT	PT-3410TT	n/a
1"x8'	22.9	PT-18DT	PT-18TT	n/a
1"x9'	25.7	PT-19DT	PT-19TT	n/a
1"x10'	28.4	PT-110DT	PT-110TT	n/a
1-1/4"x8'	n/a	n/a	n/a	n/a
1-1/4"x9'	n/a	n/a	n/a	PT-1149QT

## Anchor Rods, 1 Square Nut, Hot Dipped Galvanized



### Screw Type Anchor With Triple Thimble Eye

PT-346SA - PT-11410SA66

Screw Type Anchor with Triple Thimble Eye			
Rod	Helix	Wt.	Item
3/4"x66"	6"	11	PT-346SA
3/4"x66"	7"	12	PT-347SA
1"x66"	8"	19	PT-11410SA
1-1/4"x66"	10"	30	PT-180SA
1-1/4"x96"	10"	41	PT-11410SA66



We are equipped to supply open and closed bridge & strand sockets to meet your individual needs - along with the option of sockets poured with molten zinc or with epoxy resin.

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Bridge Strand Mechanical Thimble Splice				
Strand Diameter	Thimble Size	Eye Size		Item
		Wide	Long	
1/2	5/8	1.75	3.25	BSM-008
9/16	5/8	1.75	3.25	BSM-009
5/8	3/4	2	3.75	BSM-010
11/16	3/4	2	3.75	BSM-011
3/4	7/8	2.25	4.25	BSM-012
13/16	7/8	2.25	4.25	BSM-013
7/8	1	2.5	4.5	BSM-014
15/16	1	2.5	4.5	BSM-015
1	1 1/8 - 1 1/4	2.88	5.12	BSM-100
1 1/16	1 1/8 - 1 1/4	2.88	5.12	BSM-101
1 1/8	1 1/4 - 1 3/8	3.5	6.5	BSM-102
1 3/16	1 1/4 - 1 3/8	3.5	6.5	BSM-103
1 1/4	1 3/8 - 1 1/2	3.5	6.25	BSM-104
1 5/16	1 3/8 - 1 1/2	3.5	6.25	BSM-105

Galvanized Structural Strand - ASTM A586 (Minimum breaking strength in tons of 2000 lbs)						
Nominal Diameter Inches	Class A Coating Through-out	Weight (lb/ft)	Gross Metallic Area (in <sup>2</sup> )	Class A Coating	Class B Coating	Class C Coating
1/2	15	0.52	0.15	14.5	14.2	17.3
9/16	19	0.66	0.19	18.4	18	21.9
5/8	24	0.82	0.234	23.3	22.8	27.6
11/16	29	0.99	0.284	28.1	27.5	33.4
3/4	34	1.18	0.338	33	32.3	39.1
13/16	40	1.39	0.396	38.8	38	46
7/8	46	1.61	0.459	44.6	43.7	52.9
15/16	54	1.85	0.527	52.4	51.3	61.2
1	61	2.1	0.6	59.2	57.9	70.2
1 1/16	69	2.37	0.677	66.9	65.5	79.4
1 1/8	78	2.66	0.759	75.7	74.1	89.7
1 3/16	86	2.96	0.846	83.4	81.7	98.8

Our Bridge Strand Mechanical Splice has proven to be a cost effective alternative to sockets or guy grips. This innovative design, developed in 1968 and produced exclusively by Sling-Choker Mfg. (Hamilton) Ltd., has a holding power that is greater than the rated breaking load of the strand. It also offers important benefits to users of porcelain insulated guys. The porcelain insulators for guys with interconnecting loops can be quickly installed in the field. The size of the loops is carefully controlled at our factory. They are made just large enough to allow the insulator to be "popped" in, but are tight enough to hold the insulator securely in position at the tower site. This proven alternative not only saves you money on the guys, but saves the erection crew time in the field. Please ask us for more details.

JOHNNY BALL PORCELAIN INSULATORS AVAILABLE FOR STRAND ASSEMBLIES



Triple Blue 6x26 IWRC Welded & Tapered With a Thimble eye				
Diameter	NBL	WLL	Length	Item
7/16"	20,400	3,876	80	HYI-TB-007X080
1/2"	26,600	5,054	75	HYI-TB-008X075
9/16"	33,600	6,384	75	HYI-TB-009X075
9/16"	33,600	6,384	100	HYI-TB-009X100

## Triple Blue 6X26 IWRC

### HYI-TB-007X080 - 009X100

PS620 is a domestically made Grade 115/125 LTPSI. This rope does NOT offer much resistance to rotation

Cushion Pac 8 Welded & Tapered With a Thimble eye				
Diameter	NBL	WLL	Length	Item
7/16"	24,000	4,560	80	HYI-C8-007X080
1/2"	30,000	5,700	75	HYI-C8-008X075
9/16"	38,000	7,220	75	HYI-C8-009X075

## Cushion Pac 8

### HYI-C8-007X080 - 009X075

Torque resistant rope. A specially designed 8x31 reverse-lay construction, combined with APT core enhancement (Patent Pending), increases cycle life in excess of 250%, and provides more than twice the rotation resistance of conventional 6 or 8 strand ropes. Fewer operational safety concerns as a result of lower torque and improved external inspection capability

Surelift 35 Strand Welded & Tapered With a Thimble eye				
Diameter	NBL	WLL	Length	Item
9/16" 14.0mm	43,275	8,222	90	HYI-MP-14X090
5/8" 16.0mm	56,517	10,738	90	HYI-MP-16X090

## Surelift 35

### HYI-MP-14X090 - 16X090

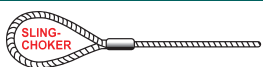
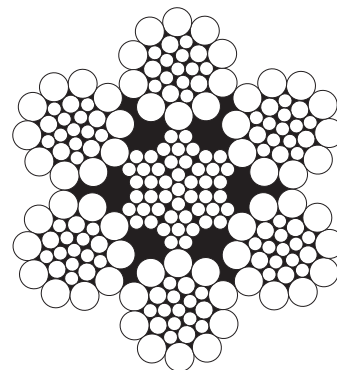
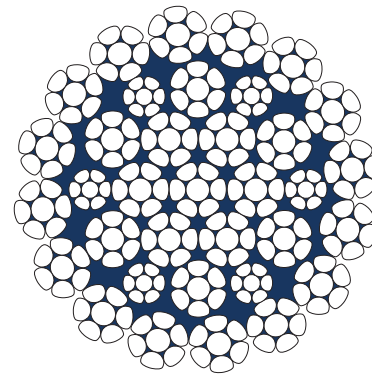
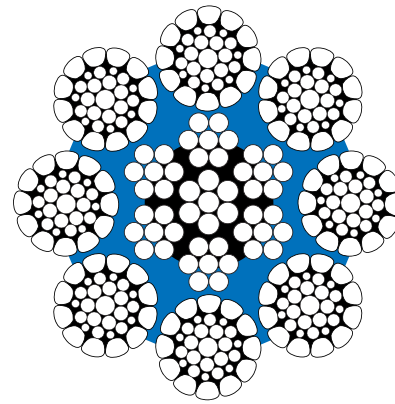
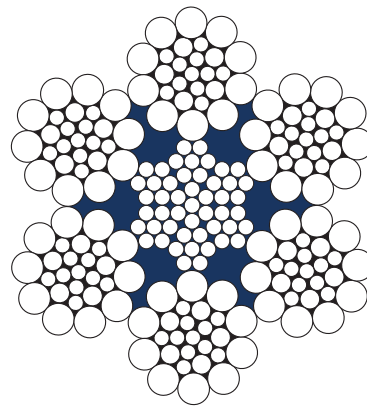
Can be used with or without swivels. Superior rotation resistance compared to 18x7 and 18x19 Superior crush resistance

5/8" Winch Lines- with Thimble eye- No hooks				
Diameter	NBL	WLL	Length	Item
5/8"	41,200	7,828	125	HYI-WL-010X125TA
5/8"	41,200	7,828	150	HYI-WL-010X150TE
5/8"	41,200	7,828	200	HYI-WL-010X200TE

## 5/8" Winch Lines

### HYI-WL-010X125TAH - HYI-WL-010X200TE

PS620 is a domestically made Grade 115/125 LTPSI. This rope does NOT offer much resistance to rotation



Winch Ropes - 1/2" (12.0mm) NovaBlue- Orange			
Protected eye & HD Thimble eye			
NBS	WLL	Length	Item
10,400	2,080	100	HYI-NB-12X100
10,400	2,080	102	HYI-NB-12X102



## Polyspec Double Braid

### HYI-PS-08X063

POLYSPEC is a double braided rope constructed with a 100% polyester cover and a 100% Spectra® core



Winch Ropes- 24mm NovaBlue-Orange			
With Protected eye each end			
NBS	WLL	Length	Item
39,200	7,840	55	HYI-NB-24X055
39,200	7,840	65	HYI-NB-24X065
39,200	7,840	75	HYI-NB-24X075
39,200	7,840	90	HYI-NB-24X090
39,200	7,840	110	HYI-NB-24X110

## NovaBlue Winch Ropes

### HYI-NB-12X100 - HYI-NB-24X110

NovaBlue is our premium double braided polyester rope. Used where low elongation, high strength, and abrasion resistance are required. Constructed from the highest quality UV stabilized yarns, Novablue's balanced core and cover construction insures easy splicing. Our Orange coating provides long term abrasion resistance.

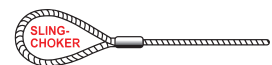


Winch Ropes- Supreemx-12				
With Protected eye each end & 10 Feet Wear Sleeve				
Diameter	NBS	WLL	Length	Item
16.0mm- 5/8"	52,500	10,500	65	HYI-AB-16X065
19.0mm- 3/4"	64,600	12,920	75	HYI-AB-19X075

## SupreemX 12 Strand Winch Ropes

### HYI-AB-16X065 - 19X075

Manufactured with Dyneema® fibre and coated with polyurethane this 12-Strand braided rope is an excellent alternative to steel cable. This rope has extremely high strength, low stretch, and is lightweight.



Nylon Double Braid Auger Roll Up Ropes		
Dia	Lgth.	Item
3/4"	102"	HYI-NDB-18X008.5
1"	102"	HYI-NDB-24X008.5

## Nylon Double Braid

### HYI-NDB-18X008.5 - 24X008.5

Double Braided Nylon rope provides tough abrasion resistant cover and protected eyes, giving just enough stretch to cinch up that auger.



Tie Down Ropes- Tagged Double Braid Nylon with eye		
Dia	Length	Item
1/2" 12.0mm	8'	HYI-NB-12X008

## Tie Down Ropes

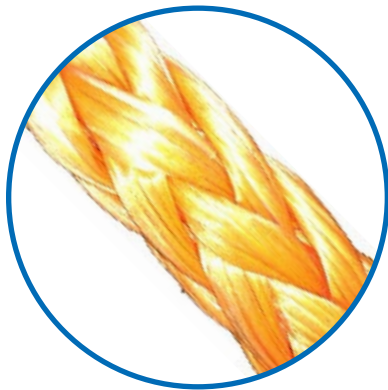
### HYI-NB-12X008

Nylon Double Braid, ropes with high elasticity that are tagged with capacity



# PULLING & STRINGING LINES

WE OFFER SEVERAL PULLING AND STRINGING LINES, AVAILABLE IN CUSTOM LENGTHS. FROM ECONOMICAL POLYESTERS TO LOW STRETCH HIGH PERFORMANCE ROPES, WE CAN FIND YOU THE PRODUCT YOU NEED. CALL US TO SEE HOW WE CAN HELP.



### SupreemX-12

- Extremely high strength
- Light weight (1/7 weight of steel)
- Abrasion resistant
- Low stretch
- Floats on water
- Easily spliceable
- Flexible



### Novablue

- Double braided
- Specific Gravity of 1.38
- Low Elongation
- Excellent Dielectrics
- Abrasion Resistance
- UV Stabilized Cover
- Urethane Coated Cover Available



Jerk-It Kenetic Energy Recovery Ropes					
Dia. In	Dia. mm	WT LB/100ft	WT KG/100m	Tensile Str. lbs	Tensile Str. kg
3/8"	9.5mm	3.5lbs	5kg	4,800lbs	2,180kg
7/16"	11.1mm	5lbs	7.5kg	6,500lbs	2,950kg
1/2"	12.7mm	6.5lbs	10kg	8,300lbs	3,700kg
9/16"	14.3mm	9.5lbs	14kg	11,700lbs	5,300kg
5/8"	15.9mm	12lbs	18kg	15,200lbs	6,900kg
3/4"	19.1mm	15lbs	22.5kg	19,100lbs	8,600kg
7/8"	22.2mm	21lbs	31kg	26,000lbs	11,800kg
1"	25.4mm	25lbs	37.5kg	31,000lbs	14,100kg

Other diameter ropes available.

## Jerk-It Kenetic Energy Recovery Rope

Jerk-It™ line is a custom in-house spliced double braid manufactured from 100% nylon yarn. K.E.R.R. Lines use the kinetic properties of nylon to "sling-shot" objects free from mud, sand or snow. Available in a variety of colours, this line is a must have for any recreational off-roader as well as the professional dealing with heavy machinery which has become stuck.



# More Than Just Wire Rope?



RIGGING  
HARDWARE



ELECTRIC  
SUBMERSIBLE  
PUMPS



MINE SCREEN  
& GROUND  
CONTROL



WOVEN WIRE  
FILTRATION  
MEDIA



SPECIALTY PUMPING  
SOLUTIONS



WIRE ROPE  
& CABLES



OVERHEAD, JIB,  
& LIGHT RAIL  
CRANE SYSTEMS



WATER PRESSURE  
EQUIPMENT



HOISTS &  
LIFT SOLUTIONS



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RACKING &  
STORAGE



CONVEYORS  
& IDLERS

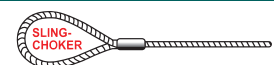


CANVAS BAGS &  
FIELD GEOLOGY  
EQUIPMENT

FIND OUT HOW  
WE'VE GROWN  
HERE

[slingchoker.com](https://www.slingchoker.com)

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# MinePLUS

MinePLUS, a Sling-Choker brand, is our product line dedicated to maximizing productivity & safety in your workplace. Containing practical mining equipment, conveyor belt motors & rollers, ground control screens, surveying tools, canvas bags & refuge stations, and many essential products, we ensure your workforce is equipped for success.



# ecolav

## UNDERGROUND LAVATORY SYSTEM



Eco-Lav toilet systems are designed as self-contained, full-flushing portable units.

**SURFACE MINING**  
**UNDERGROUND MINING**  
**CONSTRUCTION**  
**PROSPECTING CAMPS**

A 3rd generation product from Rezplast Manufacturing, the dual chamber design allows for separate storage of fresh water and waste, further improving on the functionality of previous models.

Simple to install

All Fibreglass and stainless steel construction to avoid corrosion issues

Full Flushing dual chamber design

Hooks located on the inside of privacy chamber allow for hanging of coveralls and work gear when needed

Full flushing porcelain toilet basin - foot pedal operation with shut-off flap & waste tank below

1000 flush or 180 US Gal Capacity

Can operate on either standard 120V power or compressed air

Motion activated lighting system for reduction in operating costs

Integrated forklift slots for ease of transportation and installation

Environmentally Friendly

Dual chamber design for fresh water and waste water storage

Modular design to allow for connecting multiple units to create complete sanitary stations

Multi-roll toilet paper dispenser

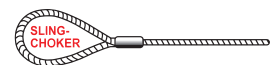
Optional pumping stations can be added to dispose of waste

Optional hand wash stations can be added for additional health and safety benefits

All Stainless Steel and Aluminum Base, measuring 2 feet tall, 7 feet long, and 4 feet wide

Total assembled measurements: 9 feet tall, 7 feet long, 4 feet wide

Total assembled weight of 922lbs (dry)



Rezplast OEM Mining Toilet Supplies		
Description	Packaging	Item
Liquid enzymes	12	REZ-7110
Anti-Foam	12	REZ-7109
Silver-Supreme	12	REZ-4016-1

## Rezplast Mining Toilet Supplies

### REZ-4016-1 - 7110

Sanitation products including Silver Supreme by Swish — a colourless, odorless disinfectant, bactericide, fungicide, and virucide. Recommended by Rezplast Manufacturing.



## POLAR EMERGENCY SHOWER SYSTEMS

Provides complete shower, eye and face wash equipment, outdoor enclosures, and “comfort blend” warm water blending systems.

Polar Climate enclosures are manufactured utilizing plastics, resins and coatings to optimize product life and reduce maintenance costs, even in the most corrosive environments



### MINE OUTFITTING & SUPPLY



TANKS & SCRUBBERS



CUSTOM CABINETS



PIPE & FITTINGS

Porcupine Canvas	
Description	Item
Spray Can Pouch	PC1001
Bear Spray Holder	PC1009
Bear shield	PC4674
Log book pouch	PC1014
Lock out Pouch	PC1271



## Bear Spray Holder

### PC1009

Porcupine Canvas keeps bear spray close at hand. Contained in a Durable Belt Pouch. Velcro Closure and Sturdy Belt Loop, gusseted to allow the can to stand upright



## Spray Can Pouch

### PC1001

Heavy duty canvas pouch holds standard size paint cans. 375g. Complete with belt loop



## Crane Log Book Pouch

### PC1014

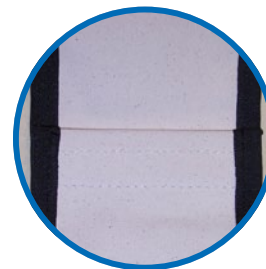
18 oz. yellow vinyl with reinforced binding, Velcro closure and clear PVC pocket for labelling. 6" X 10" X 2"



## Bear Shield

### PC4674

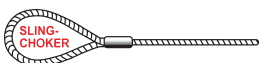
Spray deterrent affects breathing & eyes without causing permanent damage to the bear. Provides ~7 sec. of discharge in a shotgun blast pattern with a range of 3-6m. 225 g, 75%



## Lock Out Pouch

### PC1271

Made of #10 Duck canvas with Velcro closure and belt loop. Designed to store your hasps and locks



Porcupine Canvas	
Description	Item
Snap Hook	PCI057
Wrench Holder Single	PCI071
Wrench Holder Double	PCI072
Wrench Holder Triple	PCI073
Spud Wrench Holder	PCI078



## Single Wrench Holder

**PCI071**

Woven poly, sewn and riveted for extra strength



## Snap Hook

**PCI057**

3" long heavy-duty metal snap hook with a 4" loop that easily slips



## Double Wrench Holder

**PCI072**

Heavy duty webbing, sewn and riveted for extra strength



## Spud Wrench Holder

**PCI078**



## Triple Wrench Holder

**PCI073**

Made of heavy-duty webbing, sewn and riveted for extra strength



## Swing Holster

**PCI111**

Made of leather. Riveted loop to allow holster to swing. Fits all of the picks

Porcupine Canvas	
Description	Item
Flashlight Holder	PCI505
Swing Holster	PCI111
Tape Measure holder	PCI077
ESA Tablet Pouch	PCI508
Multi Meter Pouch	PCI509



## Flashlight Holder

**PCI505**

This heavy vinyl case has a nylon flap with Velcro closure and 2" belt loop. Ideal for large Maglite



## ESA Tablet Holder

**PCI508**

Made of durable green Cordura nylon with 2" reflective striping. This pouch has a padded inner pocket to hold an ESA tablet with Velcro closure and belt loop. 5"w X 10"h X 2.5"d



## Tape Measure Holder

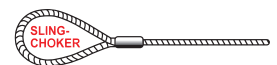
**PCI077**



## Multi-Meter Pouch

**PCI509**

Made of durable black Cordura nylon with 2" reflective striping. This padded pouch has 1 front pocket and 2 side pockets to hold multi bit screwdriver and side cutters. Velcro closure lid and strong belt loop. 5"w X 9"h X 2.5"d



Porcupine Canvas	
Description	Item
Hot Stick Pouch	PC1507
Knife Holder	PC1074
Knife Holder	PC1076
Tool Roll-14	PC1229
Tool Roll-10	PC1232



INNOVATIVE PRODUCTS



## Knife Holder

**PC1074**

Made of heavy duty webbing sewn and riveted for extra strength. Holds one utility knife. Built in belt loop.



## Padded Hot Stick Pouch

**PC1507**

Designed to house a Detex high voltage tester. Made of 18oz vinyl with 2" orange/silver reflective striping. 3' X 7"



## 14 Compartment Tool Roll

**PC1229**

Durable Cordura nylon with Velcro closures. 22" X 22"



## Vale Knife Holder

**PC1076**



## 10 Compartment Tool Roll

**PC1232**

Durable Cordura nylon with Velcro closures. 21-1/2" X 16"



## Powder Bag Backpack

**PC1213**

Yellow neoprene fabric is water-proof, anti-static, and rot & mildew resistant. Comes complete with reinforced bottom closure. Adjustable shoulder strap. 16" X 20" X 6"

Porcupine Canvas	
Description	Item
Powder Bag Backpack	PC1213
Powder Bag	PC1211
Explosive Bag	PC1216
Explosive Bag	PC1237
Bit Bucket	PC1219



INNOVATIVE PRODUCTS



## Powder Bag

**PC1211**

Yellow neoprene coated canvas provides a durable waterproof finish. Anti-static, rot & mildew resistant. Comes complete with reinforced bottom for extra strength and metal snap hook closure. 15" X 14" X 8"



## Explosive Bag Backpack

**PC1216**

This explosive bag is made of rigid #6 canvas and has a vinyl reinforced



## Bit Bucket

**PC1219**

Made of neoprene coated canvas, the square bottomed bag has double bottom and sides. Grommets around top diameter with a drawstring closure and a grommet in the bottom to allow for drainage. 8" X 11" X 10"



## Explosive Bag w/ Shoulder Strap

**PC1237**

This explosive bag is made of rigid #6 canvas and has a vinyl reinforced bottom, snap hook closure and adjustable straps.



Porcupine Canvas	
Description	Item
Canvas Bit Bucket	PCI225
Bit Bucket	PCI223
Bit Bag	PCI227
Tool Bag	PCI201
General Tool Bag	PCI235



## Mechanic's Tool Bag

**PCI201**

Made of #6 duck canvas with reinforced bottom, full Velcro flap front closure and adjustable shoulder strap.



## Canvas Bit Bucket

**PCI225**

Strong #6 Duck with 2 In riveted webbing handle and drainage grommet. Suitable for bits and tools. Single Compartment.



## General Tool Bag

**PCI235**

#6 canvas duck with adjustable shoulder strap and snap closure. Bottom and sides are reinforced with 18 oz. vinyl.



## Secoroc Bit Bag

**PCI227**

Made of 18oz vinyl with snap hook closure and non-adjustable shoulder



## Bit Bucket

**PCI223**

Round bucket made of yellow neoprene coated canvas with reinforced bottom and sides. Grommets around top diameter with rope closure. 8" X



## Miner's Hip Bag

**PCI1054**

18 oz. vinyl pouch is ideal for nuts, bolts, and other small tools.

Porcupine Canvas	
Description	Item
Miners Hip Bag	PCI1054
Miners Bag	PCI205
General Tool Bag	PCI290
Ultimate Tool Bag	PCI239
Carry-All	PCI200



## General Tool Bag

**PCI290**

Made of 10 oz. canvas with a non-adjustable shoulder strap, reinforced canvas bottom and fold over flap. 16-1/2" X 16" X 5"



## Miner's Bag

**PCI205**

Multi use # 6 Rigid Duck canvas. Velcro strap closure and reinforced vinyl base. 15" X 14" X 9"



## Carry-All Bag

**PCI200**

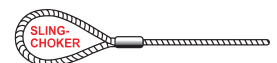
Made of Cordura nylon, double reinforced bottom, adjustable 2" webbing shoulder strap. Full inner pocket, zippered pocket in flap, also full back pocket has side release closure. Small side pocket with same. Fold-over flap. 12" X 12" X 16"



## Ultimate Tool Bag

**PCI239**

The ultimate tool bag is made of durable 18oz vinyl and has a large inside back pocket for paperwork. There are 2 side pouches as well as a 7 compartment tool roll for wrenches etc. Reflective tape on shoulder strap and front of bag for greater visibility. 15" X 14" X 9"



Porcupine Canvas	
Description	Item
Shifter Bag	PCI241
Mine Rescue Bag	PCI250
Multi Compartment Bag	PCI251
Eye Wash Cover	PCI529



INNOVATIVE PRODUCTS



## Shifter Bag

**PCI241**

Durable 18oz vinyl with zippered closure. 3" loop at one end. Used to secure important documents on the job site.



## Eye Wash Station Cover

**PCI529**

We can design your eyewash station cover to meet all ANSI standards. Made of durable 18 oz vinyl to keep your eyewash station clean and dust free, while still allowing single motion activation of the unit.



## Portable Refuge Station

**PCI380 (3 Person)**  
**PCI381 (4 Person)**  
**PCI382 (6 Person)**

This portable smoke station is easy to install and easy to get in and out of. It is constructed of 18oz, Fire Retardant vinyl and comes complete with a zippered door and rubberized patch on the roof for the air pipe to connect. Once the pipe is connected and the air valve opened, a positive environment to keep out smoke is provided and employees are safe from smoke inhalation. These shelters are screened with reflective lettering "EMERGENCY SHELTER" for easy visibility underground.

(1380) 3' X 7' | (1381) 4' X 7' | (1382) 4' X 4' X 7' | (1383) 4' X 4' X 95"

**PCI383 (Solid Roof)**

This unit has a plywood roof with a coupling installed in center to connect air hose and is complete with vinyl floor. It also has 4 eyebolts installed at each corner for ease of installation.



## Miner's Rescue Bag

**PCI250**



## Arc Flash Multi-Compartment Bag

**PCI251**

This multi compartment duffle bag is made of durable 18oz orange vinyl and has 2" yellow/silver reflective striping on all sides. Primarily designed to house Arc Flash Equipment; it has 3 different compartments for the face shields, boots/clothes and gloves. Also good overall bag for the health and safety departments, etc. Screening is available at an additional charge.

Porcupine Canvas	
Description	Item
Refuge Station - 3 Person	PCI380
Refuge Station - 4 Person	PCI381
Refuge Station - 6 Person	PCI382
Refuge Station - Solid Roof	PCI383
Note Pad	PC4112
Sheet Holder	PC4161



INNOVATIVE PRODUCTS



## Rite-In-The-Rain Notepad

**PC4112**

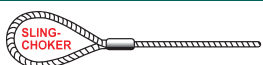
Soft covered, light weight and features all-weather tag board cover. Contains 48 pages. 7" x 4-5/8"



## Aluminum Sheet Holder

**PC4161**

With leather pencil holder on the front. Durable, corrosion-resistant, hinged cover, and with rounded corners. 9" X 12"



Porcupine Canvas	
Description	Item
Fibreglass Tape Measure	PC4296
Spray Paint Stick	PC4072
Sample Bag- 10x16-500	PC4601
Sample Bag- 18x24-250	PC4602
Sample Bag- 12x18-500	PC4604
C Thru Protractor	PC6840
Degree Rule	PC4375



## Degree (Rascal) Rules

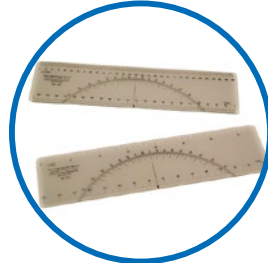
### PC4375

Both imperial and metric measures. Fiberglass / nylon composition with stainless steel pins so it can withstand hard use. High impact acrylic bubble level. 6" folded | 24" extended. Angle protractor 0 -180 degree. Percentage grade 0-30%

## C Thru Protractors

### PC6840

1:250 | mm



## Eslon Open Reel Fibreglass Tape Measure

### PC4296

Easy to read graduations printed on both sides on a white background. PVC coating enhances durability. Non-conductive, rustproof and corrosive resistant. ft/10th/100th and m/cm/mm



## Spray Paint Sticks

### PC4072

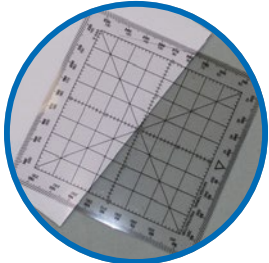
Designed for underground mining for marking specific targets and surveying points in high to reach areas. 12' in length



## Plastic Sample Bags

### PC4601 - PC4602 - PC4604

(4601) 10" X 16" | 500/case  
(4602) 18" X 24" | 250/case  
(4604) 12" X 18" | 500/case



## Navigational Protractors

### PC6785

Lay off a course or bearing, find depth or latitude between 2 positions. Fixes position by angles, plots lines of position and similar problems. 5" X 5"



Porcupine Canvas	
Description	Item
Navigational Protractor	PC6785
Spad-Surveyor	PC4182
Mattex Ore Bag 7x14	PC1130
Mattex Ore Bag 10x14	PC1132
Map Case	PC1010
Truck Binder Bag	PC1561



## Map Cases

### PC1010

Vinyl back and PVC front has a 1" shoulder strap and a Velcro closure



## Truck Binder Bag

### PC1561

Durable 18 oz. vinyl, designed with safety in mind. Compartments keep files dry, clean and where you need them. Large enough to hold a 4" binder or hard hat. This can be positioned on the front or back of a seat for convenience



## Ore Sample Bags

### PC1130 - PC1132

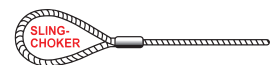
Non-stick surface will not absorb ore-rich residues or water. Mildew and rot resistant to stop degradation. Low dusting, efficient drainage, resistant to chemicals. Can handle up to 500F in most sample drying systems. (1130) 7" X 14" | Bundles of 1920, (1132) 10" X 14" | Bundles of 1512



## Spads - Surveyor

### PC4182

Surveying spads are available in stainless steel





Porcupine Canvas	
Description	Item
Truck Binder Bag	PCI560
Picket Bag 32x8	PCI272
Picket Bag 42x8	PCI273
Picket Bag 20x12	PCI274
Brush Blade Cover	PCI080



INNOVATIVE PRODUCTS

## Survey Picket Bags

### PCI272 - PCI273 - PCI274

Made of durable yellow vinyl with bottom drainage and adjustable shoulder strap.

(1272) 32" X 8"  
 (1273) 42" X 8"  
 (1274) 20" X 12"



## Swivel Wrench

### RAS-RSW-7

8 socket sizes available. Tested for 190 – 200 ft pounds.

RSW – 7/8" X 1-1/16"  
 RSW – 7/8" X 11/16"



## Beaver Wrench

### RAS-BV-06 - 10

The BV series is the widest opening wrench in its class.

- High Grade Alloy Steel
- Drop-Forged Heat Treated
- Precision Machined



## Miner's Wrench

### RAS-RS12(H)

Opens to same size as 15" adjustable – but only half the weight.

- 12" Adjustable
- 6" Measure Mark For Boot Leg
- Drop-Forged
- Heat Treated
- Precision Machined
- Weight – 1.55 lb/0.7 kg
- Hex 7/8" / 22.2 mm



## Brush Saw Safety Cover

### PCI080

Made of durable asphalt grade material. Snap closure to protect the saw blade

## Truck Binder Bags

### PCI560

Keep your mobile office clean and organized wherever the job takes you. Our truck binder bag is made for work on the go or taking along paperwork to the job site. Vinyl double compartments keep files dry, clean and where you need them. Unit can be positioned on front or back of seat for convenience.



### Miners Degree Rules

Description	Item
2M (6ft) Red End	RAS-MS-RL066D
6 Ft Red End	RAS-MSRL062CME
Degree Rule	RAS-RR24

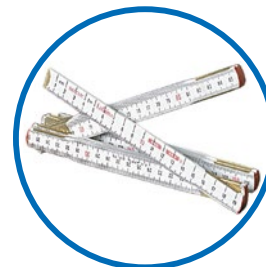
### Rastall Tool Corp

Description	Item
Miners Wrench-Hammer	RAS-RS12H
Miners Wrench	RAS-RS12
Beaver Wrench 1-5/16	RAS-BV-06
Beaver Wrench 1-9/16	RAS-BV-08
Beaver Wrench 1-15/16	RAS-BV-10
Spud Wrench- Hammer	RAS-RS15H
Swivel Wrench 7/8-1-1/16	RAS-RSW-7/8X1-116
Swivel Wrench 7/8-1-11/16	RAS-RSW-7/8X116

## Miner's Degree Rules

### RAS-MS-RL066D - RAS-MSRL062CME

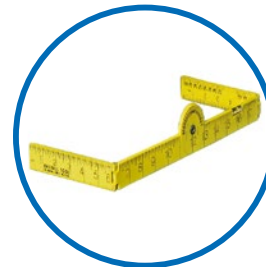
(62CME) Extends up to 2m | Red end Folding rule (66D) Extends up to 6' Red end | Folding rule



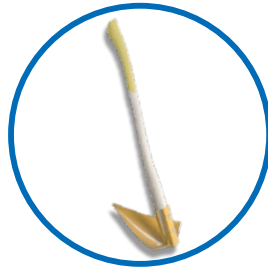
## Folding Degree Rule

### RAS-RR24

Folds easily for storage and portability. 24" rule.



Rastall Tool Corp	
Description	Item
Dog Bone Wrench	RAS-DBMET - DBSAE
Scoop Tram Sockets	RAS-STWI-14 - 516
Pelican Much Scoop	RAS-PIC
Spud Wrench	RAS-RS15



## Pelican Muck Scoop

### RAS-PIC

Numerous mining and agricultural applications

- Ideal Tool For Trenching In Clay or Hard-Packed Sand
- High Quality Construction
- R70 Steel
- Solid Welded Construction
- Hickory Handle (32")
- Scoop – 15"



## Scoop Tram Wheel Sockets

### RAS-STWI-14 - 516

Heavy duty 1" drive impact wheel sockets with one-piece construction. Outside diameter of socket enables it to fit between the nut and the outer rim and wheel. Available in:

- (1-14) 1-1/4" Nut Size
- (1-5) 1-1/2" Nut Size
- (1-516) 1-5/16" Nut Size



## Spud Wrench

### RAS-RS15(H)

Widest opening wrench in its class. Used in the mining and construction industry. 2 lb | 15" adjustable



## Dog Bone Wrench

### RAS-DBMET - DBSAE

Metric/Imperial with 8 socket sizes

- 3/8" (12mm) | 7/16" (13mm)
- 1/2" (14mm) | 9/16" (15mm)
- 5/8" (16mm) | 11/16" (17mm)
- 3/4" (18mm) | 13/16" (19mm)

- Ideal for Drain Plugs
- Magnet – Plug or Nut Holder
- Swivel Head fits all angles
- Cr-Mo steel for strength and durability



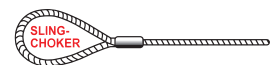
Simplex Jacks	
Description	Item
86-A Ratchet Jack	SIM-86A



## Ratchet Jack

### SIM-86A

- 5 ton capacity
- Double-lever sockets for jacking in close quarters
- Drop-forged, alloy steel, heat treated components
- Plated springs to resist corrosion
- Large base insures a firm foundation
- Supports full rated capacity on the toe or the cap
- Minimum height is 20"
- 13 inch stroke
- 35 lb each



## N – STANDARD PUMP.



CONVEYING CAPACITY  
**UP TO 500 M<sup>3</sup>/H  
(2,200 USGPM)**

PRESSURE  
**UP TO 96 BAR  
(1400 PSI)**

Product group N pumps are the basis for all SEEPEX progressive cavity pumps. They can be applied in virtually all industrial sectors – for conveying thin to viscous media, with or without solids – and are available with various rotor/stator geometries, ensuring the pump's economical operation.

### PROPERTIES AND BENEFITS

- 2 ranges
- Various rotor/stator geometries (conventional, 6L, Tricam)
- Minimal pulsation, uniform flow
- High self-priming capabilities even with a mixture of liquid and air/gas up to a 9 m (29.5 ft.) water column
- Low shear rates
- Numerous installation options
- Large spherical entrance port
- Reversible rotation and flow
- Variable speed, flow is directly related to pump speed

## E – SEMI-SUBMERSIBLE PUMP.



CONVEYING CAPACITY  
**30 L/H–300 M<sup>3</sup>/H  
(0.132–1,320  
USGPM)**

PRESSURE  
**UP TO 12 BAR  
(175 PSI)**

SEEPEX semi-submersible pumps drain full containers, pits, basins and barrels. They can convey abrasive or corrosive products with thin to high viscosity. Custom-built for the application, they are easy to maintain and have low operating costs. Overall, our semi-submersible pumps are a cost-effective alternative to other pump systems.

### PROPERTIES AND BENEFITS

- BE range available in four different immersion variations for individual adaption to the application
- Minimal pulsation, uniform flow
- Variable submersible depths
- Increases the available NPSH value (Net Positive Suction Head)
- The pump can be installed in a “can” to further increase the NPSHA
- Can be installed in a closed system (complies with environmental regulations)



## KB Series Submersible Pumps

### KB55 - KB220

- Heavy duty, abrasive resistant wastewater slurry pump
- Abrasive resistant hi-chrome iron components
- Heads to 186'
- Built-in agitator
- Built in thermal protection
- Double mechanical seals – SiC/SiC lower and carbon ceramic
- Narrow – up to 13.5inch diameter
- Class H motor insulation
- 7.5 HP – 30 HP



## KZNR Hard Metal Slurry Pumps

### KZN37R - KZN220R

- SEVERE abrasion-resistant solids-handling pump
- Hardened ductile iron volute – 2x abrasion resistance
- Semi-open impeller handles high concentration of abrasive solids
- Abrasion-resistant, solids handling pump for severely abrasive applications
- Hardened ductile iron volute to 71 Rockwell C. Hardened ductile iron volute with 300 Brinell hardness for twice the abrasion resistance of standard ductile iron.
- Heavy duty high-chrome agitator (28%) for sand/sludge/slurry applications
- Chrome iron semi-open impeller handles high concentration of abrasive solids. Chrome iron wear plate.
- Double silicon carbide mechanical seals in a separate oil-filled seal chamber
- Heavy duty ball bearings
- Seal Minder® moisture detection system (optional)
- Class H motor insulation
- 4 pole motor, 3-phase voltages

KZNR Hard Metal Slurry Pumps								
Model	Discharge	H.P.	Voltage	Rated Amps	Max Solids	Max Head	Max GPM	Weight Lbs
KZN37R	3"	5	208/230/460/575	18.7/17/8.5/6.8	7/8"	42'	475	375
KZN55R	4"	7.5	230/460/575	7.5	1"	57'	594	390
KZN55CHR	3"	7.5	230/460/575	7.5	1"	69'	449	425
KZN75R	4"	10	460/575	10	1"	61'	655	402
KZNI10HR	6"	15	460/575	15	1 3/8"	87'	819	672
KZNI10R	4"	15	460/575	15	1 3/8"	72'	977	685
KZNI50LR	6"	20	460/575	20	1 1/2"	70'	1611	685
KZNI50R	6"	20	460/575	20	1 1/2"	101'	1136	685
KZN220LR	6"	30	460/575	30	1 1/2"	77'	1690	1285
KZN220R	6"	30	460/575	30	1 1/2"	105'	1268	1290



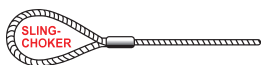
An ITT Brand



## Submersible Motors

Goulds submersible series motors are designed and built specifically for tough slurry pumping. Heavy-duty design features for reliability include:

- UL and CSA Approved Explosion Proof
- Epoxy encapsulated and butt-spliced cable entry system prevents liquid from entering top of motor and provides non-wicking design.
- Permanently lubricated and sealed ball bearings.
- F Class insulation and 1.15 service factor standard.
- Tandem mechanical seals provide complete protection for motor internals.
- Thermal protection standard.
- Dual moisture probes provide early warning of seal failure.
- Conforms to NEMA, IEEE, ANSI, and NEC standards.
- High temperature option allows operation to 194°F (90°C)
- 5-year Pro-Rated Warranty



## HPump Surface Pumping Systems

### Pump

The drive for long-lasting, highly reliable, environmentally friendly pumping solutions has led many customers to appreciate our HPump™ Surface-Pumping Systems. Our HPump™ pump systems provide versatile, low maintenance alternatives to many API-style and positive displacement (PD) models.

### Dual Access™ Thrust Chamber

The bearing-frame thrust chamber is an easily interchangeable module that is compatible with other HPump units regardless of the pump size. It features a low number of rotating parts for long, trouble free life, requires minimal maintenance, optimizes oil dispersion and reduces operating temperatures using an oil-ring lubrication system, and includes a thermocouple to provide temperature monitoring and shutdown protection. Labyrinth shaft seals protect the internals from the environment without wearing the shaft surface.

### Applications

- Borehole mining
- CO2 injection/booster
- CO2 sequestration
- Condensate transfer
- Crude oil boosting/transfer
- Dust suppression
- Geothermal
- Hydraulic power fluid boosting
- Jet pumping
- Lean amine circulation
- Mine dewatering
- NGL boosting/transfer
- Offshore facilities fluid handling
- Pipeline boosting
- Process fluids transfer
- Produced water disposal/injection
- Water recycle/reuse
- Salt dome leaching
- Seawater disposal/waterflooding

### Pipe-work Height

The fixed pipe-work height minimizes pipe-work changes in the event of possible system reconfigurations. Should the pump or motor require changing for any reason; the pump, bearing frame, suction, discharge and motor shaft are maintained at the same level.

### Discharge Head

Standard flanges are ANSI-B16.5 class 300 through 2,500, lap joint type to allow for alignment with pipe work. Other connections/ flange standards are available.

### Frame Extension

The frame can easily accommodate changing duty conditions or the re-deployment of an existing HPump™ unit for an entirely different application. Additionally, where limited site access (i.e., under-ground mines) exists, multiple component skids can be provided to facilitate portability and assembly.

### EMF™ Frame

The frame features a rigid base for low vibration. Installation is simplified through the use of integral lifting lugs. The motor plate is predrilled and will support virtually all available motor options. Various other mounting features allow easy implementation of API seal flush plans, various electrical equipment, or other customer requests.

### Motor/Prime Mover

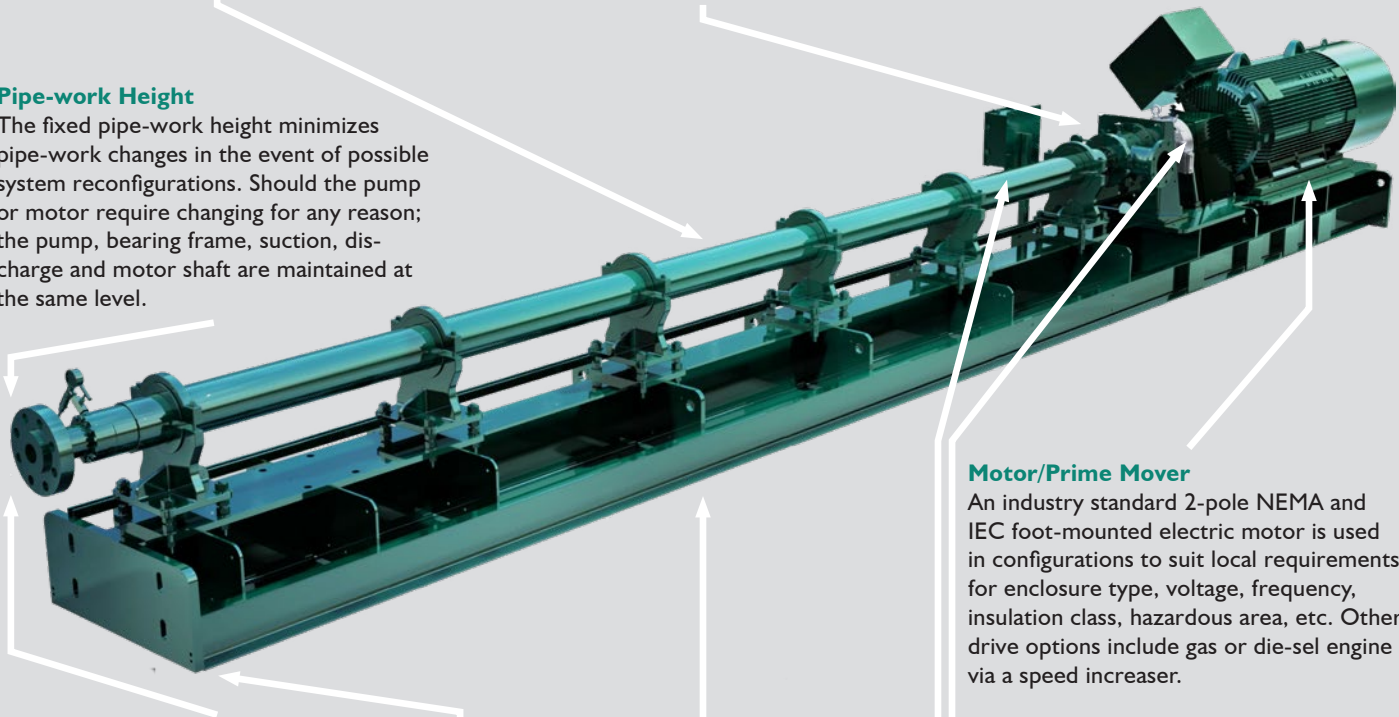
An industry standard 2-pole NEMA and IEC foot-mounted electric motor is used in configurations to suit local requirements for enclosure type, voltage, frequency, insulation class, hazardous area, etc. Other drive options include gas or die-sel engine via a speed increaser.

### Flexible Coupling

A standard spacer-style coupling provides for long life and minimizes maintenance requirements. Other coupling types are available on request.

### Instrumentation/control Package

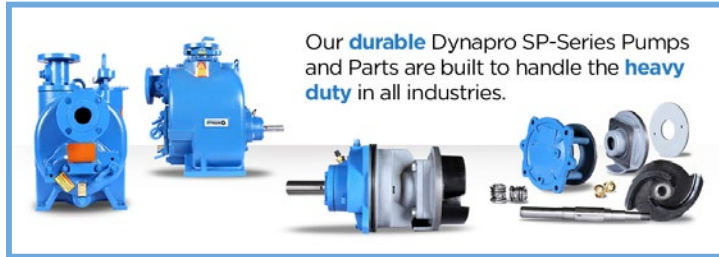
The standard HPump™ instrumentation package includes suction and discharge pressure gauges and control switches, a vibration switch and bearing frame therm-ocouple. Other instrumentation and control options are available.





Dynapro manufactures and exports slurry pumps to our mining customers globally. In addition, we supply replacement pumps for most major pump brands at competitive prices.

We have an extensive inventory of parts for most major pump brands and we guarantee that the parts conform to the latest design standards and material specifications.



Our  **durable**  Dynapro SP-Series Pumps and Parts are built to handle the  **heavy duty**  in all industries.



Our extensive inventory of D-196 Process Pumps and Parts are  **100% interchangeable**  with other brands of ANSI pumps.

# PRODUCT LINES The Right Parts for the Right Price

## SLURRY PUMPS

**Dynapro W-Series:**  
Replaces Warman



**Dynapro AC-SRL:**  
Replaces Allis-Chalmers SRL



**Dynapro D-SRL:**  
Replaces Denver SRL



**Dynapro VS:**  
Replaces Galigher Vacseal Horizontal



**Dynapro VSP:**  
Replaces Galigher Vertical

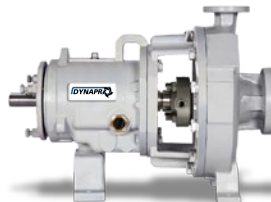


## PROCESS PUMPS

**Dynapro D-196:**  
Replaces Goulds 3196 ANSI



**Dynapro D-III:**  
Replaces Durco Mark II & III ANSI



**Ruhrpumpen ANSI:**  
(Horizontal) & non ANSI  
(Horizontal / Vertical)



**Ruhrpumpen API:**  
(Horizontal / Vertical) &  
NON API (Horizontal / Vertical)



## SELF PRIMING PUMPS

**Dynapro SP Series:**  
Replaces Gorman-Rupp

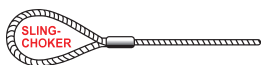


## MOTORS

**General Electric Motors**



The Global Source for Pumps and Pump Parts



Loading Sticks							
Dia.	Length	1-1/4"x10" Head		1-1/2" x 12" Head		Plain	
		Item		Item		Item	
3/4"	10	LSH104-012x10		LSH108-012x10		LS-012x10	
3/4"	12	LSH104-012x12		LSH108-012x12		LS-012x12	
3/4"	14	LSH104-012x14		LSH108-012x14		LS-012x14	
3/4"	16	LSH104-012x16		LSH108-012x16		LS-012x16	
3/4"	18	LSH104-012x18		LSH108-012x18		LS-012x18	
3/4"	20	LSH104-012x20		LSH108-012x20		LS-012x20	
7/8"	10	LSH104-014x10		LSH108-014x10		LS-014x10	
7/8"	12	LSH104-014x12		LSH108-014x12		LS-014x12	
7/8"	14	LSH104-014x14		LSH108-014x14		LS-014x14	
7/8"	16	LSH104-014x16		LSH108-014x16		LS-014x16	
7/8"	18	LSH104-014x18		LSH108-014x18		LS-014x18	
7/8"	20	LSH104-014x20		LSH108-014x20		LS-014x20	
1"	10	LSH104-100x10		LSH108-100x10		LS-100x10	
1"	12	LSH104-100x12		LSH108-100x12		LS-100x12	
1"	14	LSH104-100x14		LSH108-100x14		LS-100x14	
1"	16	LSH104-100x16		LSH108-100x16		LS-100x16	
1"	18	LSH104-100x18		LSH108-100x18		LS-100x18	
1"	20	LSH104-100x20		LSH108-100x20		LS-100x20	

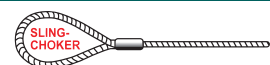
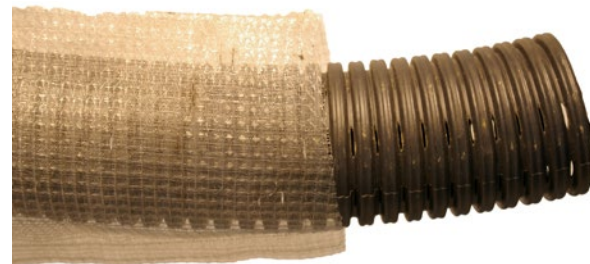


## Loading Sticks

LS-012X10 - 100X20 - LSH104-012X10 - LSH108-100X20

## Extra Heavy Duty 4" Corrugated Drainage Pipe

Drainage pipe with 8 rows of 1/2" x 1/16" slots which provide for a total area opening of 6 square inches per linear foot. The pipe can be wrapped in a specially designed filter cloth to filter the mine hydraulic backfill which results in relatively clean water from the discharge end of the pipe. 30% more corrugations per linear foot as compared to other similar tile products used in construction.





## HDPE Sleeves

A proven system, HDPE will save on cost due to physical and chemical properties that stand up to your needs. Characteristics that make HDPE sleeves so attractive include the following:

Corrosion resistance | Abrasion resistance  
Chemical resistance | Reliability | Longevity  
Durability | Inert | Impact resistance  
Weather resistance | Build-up resistance

Standard and custom lengths available in 6"

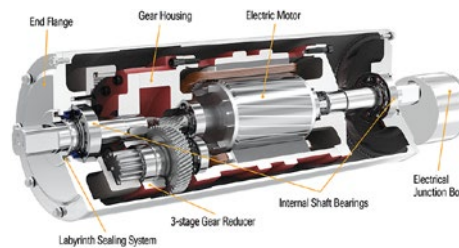


## Rolling Applications

Let our solution professionals assist in all your roll application needs

Our HDPE rolling sleeves have milled covers, concentric to the shaft, that ensure a roll finish equivalent to scale quality units

Designed to handle abrasive environments, the High Density Polyethylene sleeve system provides reliable service that saves money, time, and effort



## Impact Cassette Units



## Mine Duty Pulleys

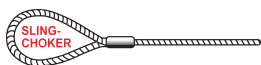
Mine Duty Pulleys Standard size drum and wing pulleys are also available in mine duty construction. These pulleys have increased material thicknesses for a very rigid, conservative design. They were originally specified and used for underground mining operations where the abusive environment demanded a heavier duty pulley

## Luff Drum Pulleys

All Luff drum pulleys are manufactured from pipe which results in no welded seams on the face of the pulley. These are then machined to a tolerance of .010" TIR. Drums are used for many applications on a conveyor, such as Drives | Snubs | Gravity Take Ups | Tail Pulleys

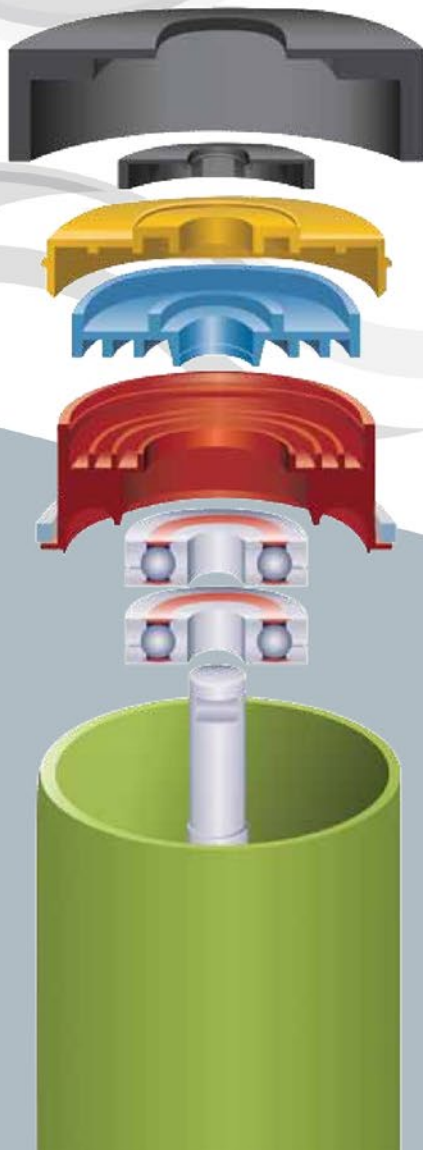
## Van der Graaf Conveyor Belt Drive Solutions

## Garlands



Made to last, Enduride rollers come from a simple idea: Isolate the bearings to eliminate vibration, dust or any other contaminants; this to the benefit of a longer life expectancy and return on investment.

Enduride rollers have been used in mining and industrial applications for years. Our quality products will help your operations by reducing maintenance costs and the number of rollers you purchase every year. Whatever the size of your operations, we have a solution for you.



Patented  
Technology

**WE MANUFACTURE MOST TYPES OF IDLERS**

- Troughing
- Return
- Self-cleaning
- Impact
- Self-aligning
- And more

**MATERIAL WE USE:**

- Steel
- HDPE
- UHMW
- Stainless
- Rubber
- And more

**SPECS:**

- CEMA B to F Rollers
- Retrofit any frame and bracket
- Isolated bearings for superior performance
- Meets and exceeds CEMA and AFNOR specifications
- Available in all sizes
- Multiple bearing option

## LESS DOWNTIME YOUR RETURN ON INVESTMENT

### FEATURES:

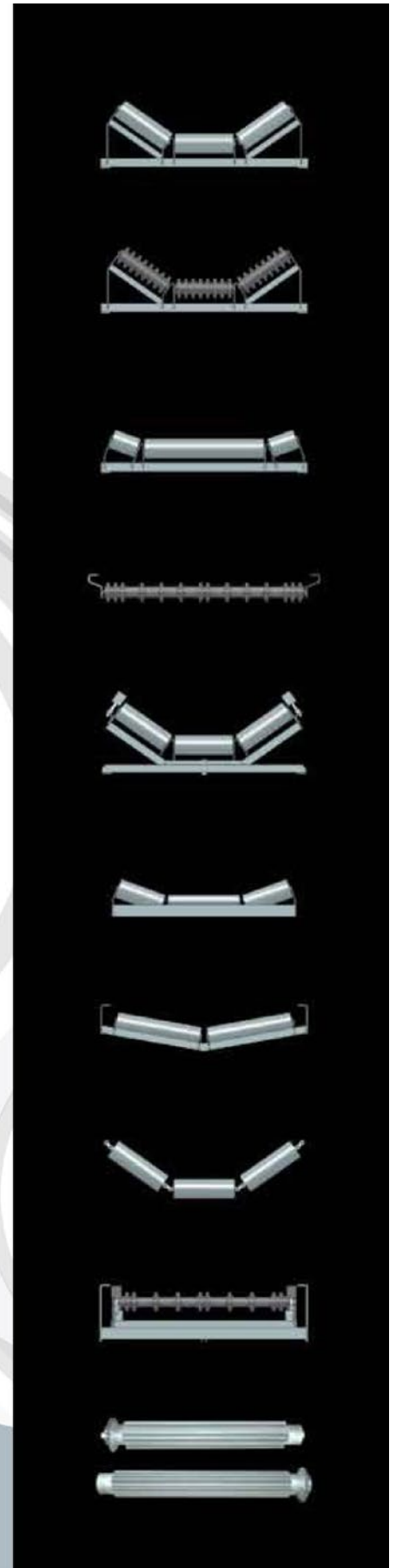
- Up to 3 times life expectancy
- Energy savings up to 20%
- Noise reduction up to 12 decibels
- Operates in extreme conditions  
Grease specs: -67°F to +400°F (-55°C to +204°C)
- Minimum TIR

Exclusive  
polyurethane seal

Exclusive water/  
containment  
suocer seal (option)

Patented triple  
labyrinth system

Double bearing  
(Multiple bearing option)

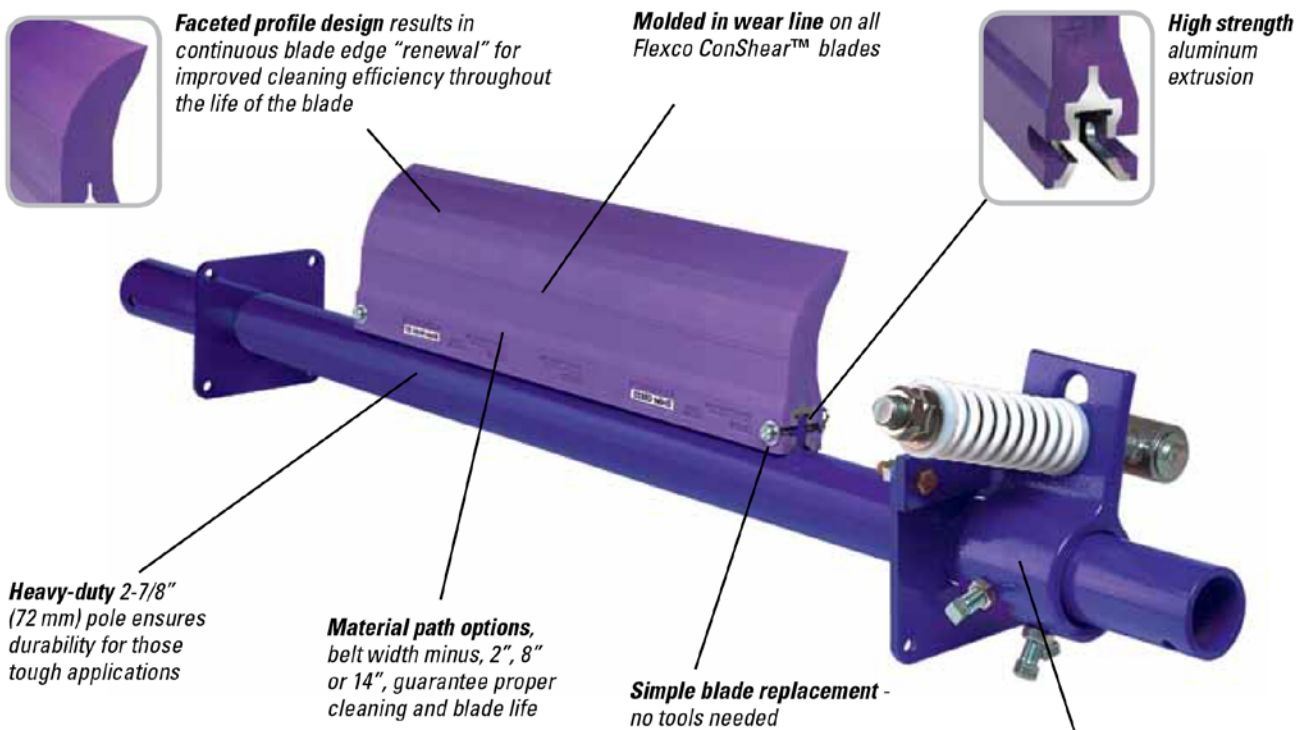


# MSP

## Standard Mine-Duty Precleaner

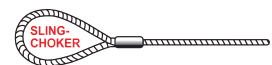
### Economical and Effective

The MSP Standard-Duty Precleaner is not your average solid-blade belt cleaner that mounts on the head pulley. It is a mine-tough design that combines simple, do-it-yourself installation, quick maintenance and effective cleaning results with an affordable price tag.



### Features and Benefits

- **Quick-change blade.** No tools are needed. Just pull one pin, remove the old blade, slide in the new one and replace the pin.
- **Works with Flexco and other mechanical splices.** The spring tensioner quickly moves the blade away from the belt when a splice passes. The polyurethane blade easily glides over the splice without damage and with minimal cleaning disruption.
- **Easy to service.** All maintenance work is done from the easy-access side of the beltline. Blade retensioning and change-out are quick and easy.
- **Fits most conveyor structures.** Available for belt widths from 24" to 84" (600 to 2100mm). The MSP poles are extra long (belt width plus 54"/1350 mm) to accommodate varying structure widths.

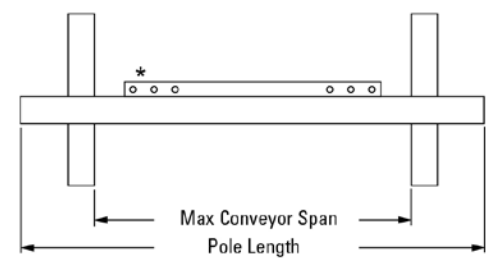
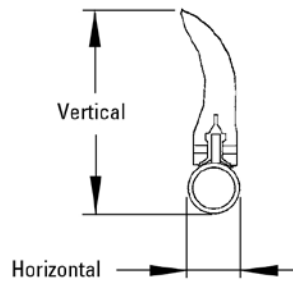
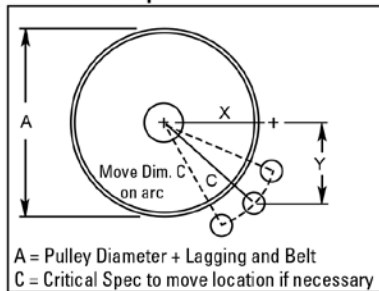


# MSP Standard Mine-Duty Precleaner

## Specifications and Guidelines

- **Maximum Belt Speed**  
700 FPM (3.5 M/sec)
- **Temperature Rating**  
-30°F to 180°F (-35°C to 82°C)
- **Minimum Pulley Diameter**  
16" (400mm)
- **Blade Height**  
7-1/4" (185mm)
- **Useable Blade Wear Length**  
4" (100mm)
- **Blade Material**  
Urethane 83 durometer (proprietary blend for abrasion resistance and long wear)
- **Available for Belt Widths**  
24" to 84" (600 to 2100mm)
- **Horizontal Clearance Required**  
4" (100mm)
- **Vertical Clearance Required**  
10" (254mm)
- **Pole Length**  
Cleaner size + 54" (1350mm)
- **Maximum Conveyor Span**  
Cleaner size + 44" (1100mm)

### Pole Location Specs



### Pole Location Chart

A	X	Y	C	A	X	Y	C	A	X	Y	C
16"	7-1/8"	9"	11-1/2"	25"	12-5/8"	9"	15-1/2"	34"	17-7/8"	9"	20"
17"	7-7/8"	9"	12"	26"	13-1/4"	9"	16"	35"	18-3/8"	9"	20-1/2"
18"	8-1/4"	9"	12-1/4"	27"	13-7/8"	9"	16-1/2"	36"	19"	9"	21"
19"	9"	9"	12-3/4"	28"	14-3/8"	9"	17"	37"	19-1/2"	9"	21-1/2"
20"	9-3/8"	9"	13"	29"	15"	9"	17-1/2"	38"	20"	9"	22"
21"	10"	9"	13-1/2"	30"	15-5/8"	9"	18"	39"	20-5/8"	9"	22-1/2"
22"	10-3/4"	9"	14"	31"	16-1/8"	9"	18-1/2"	40"	21-1/8"	9"	23"
23"	11-3/8"	9"	14-1/2"	32"	16-3/4"	9"	19"	41"	21-3/4"	9"	23-1/2"
24"	12"	9"	15"	33"	17-1/4"	9"	19-1/2"	42"	22-1/4"	9"	24"

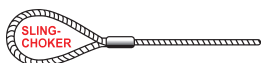
### Ordering Information

MSP Standard-Duty Precleaner Belt Width Minus 2"					
Belt Width	Blade Width			Ordering	Item
in.	mm	in.	mm	Number	Code
24	600	22	550	MSP-224	75787
30	750	28	700	MSP-230	75788
36	900	34	850	MSP-236	75789
42	1050	40	1000	MSP-242	75790
48	1200	46	1150	MSP-248	75791
54	1350	52	1300	MSP-254	75792
60	1500	58	1450	MSP-260	75793
72	1800	70	1750	MSP-272	75794
84	2100	82	2050	MSP-284	76796

MSP Standard-Duty Precleaner Belt Width Minus 8"					
Belt Width	Blade Width			Ordering	Item
in.	mm	in.	mm	Number	Code
24	600	16	400	MSP-824	75795
30	750	22	550	MSP-830	75796
36	900	28	700	MSP-836	75797
42	1050	34	850	MSP-842	75798
48	1200	40	1000	MSP-848	75799
54	1350	46	1150	MSP-854	75800
60	1500	52	1300	MSP-860	75801
72	1800	64	1600	MSP-872	75802
84	2100	76	1900	MSP-884	76797

Replacement ConShear™ Blades			
Blade Width	Ordering		Item
in.	mm	Number	Code
16	300	CRB-16	75629
22	350	CRB-22	75630
28	450	CRB-28	75631
34	600	CRB-34	75632
40	750	CRB-40	75633
46	800	CRB-46	75634
52	950	CRB-52	75635
58	1000	CRB-58	75636
64	1150	CRB-64	75775
70	1200	CRB-70	75773
76	1350	CRB-76	76940
82	1400	CRB-84	76941

Other blade sizes available upon request.

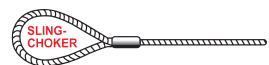


**GROUNDBREAKING**  
*PRODUCTS.*

**FORWARD-THINKING**  
*SOLUTIONS.*



**POLYDECK®**





# Performance guarantee

*We believe our customers' success leads to our success. It's a core business value we've promised to put first. That's why we guarantee our products' performance.*

*Simply put, we guarantee our products will last longer, reduce costs, improve efficiency, and meet your specifications. And, if you're not satisfied with our performance, we'll make it right.*

## Wear Life Guarantee

If your Polydeck-approved panels do not result in increased wear life from your previous screen media, we will replace your panels.

## Labor Savings Guarantee

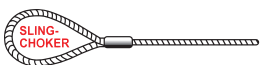
If your Polydeck-approved panels do not reduce labor costs from your previous screen media, we will refund your purchase (on a pro-rated basis).

## Product Specification Guarantee

If Polydeck does not meet the required product specification after the initial installation, we will replace your panels at no cost to meet the requirements.

*\*In order to honor our performance guarantee, all relevant customer and product specification requirements and accurate application details must be received and reviewed in a timely fashion, prior to purchase.*

**TOGETHER WE'RE SUCCESSFUL. TOGETHER WE'RE STRONG.**



## Surface Feature Options

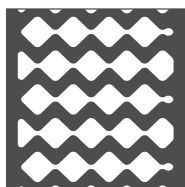
Surface features are molded onto panels.

- Dams
- Restricted flow bars
- Skid bars
- Deflectors
- Scrolls\*

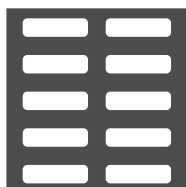
*\*Bolted onto panel*



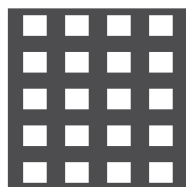
## Aperture Options



VR



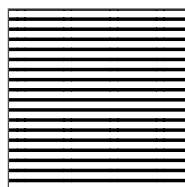
Slotted



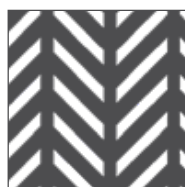
Square



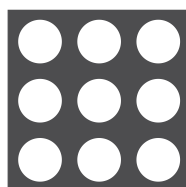
SVR



Continuous Slot



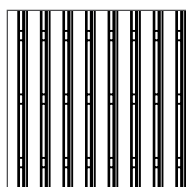
Herringbone



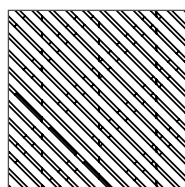
Round



Solid



Cutter



VST

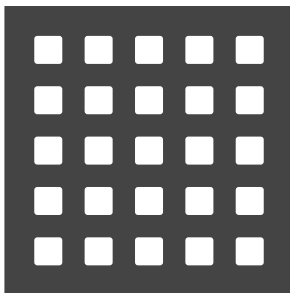




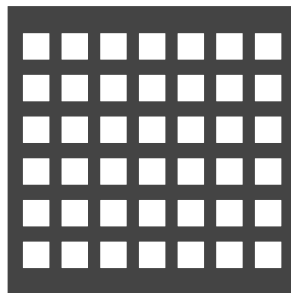
## Fastening Options

PolySnap®  
Pin  
Pin & Sleeve  
PolyRail™ (2x1)

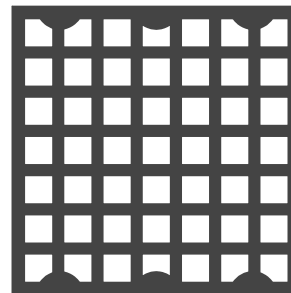
## Panel Styles



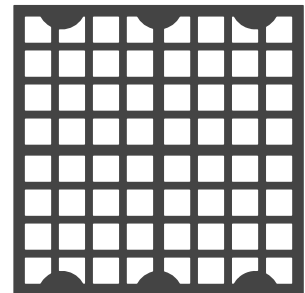
**Standard**  
Open Area ≈ 24.2%



**EOP**  
Open Area ≈ 28.2%



**Maxi**  
Open Area ≈ 33%



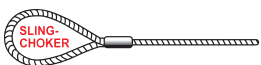
**Dmax**  
Open Area ≈ 46%

## Insert Options

Composite  
Steel

### Pro Tip:

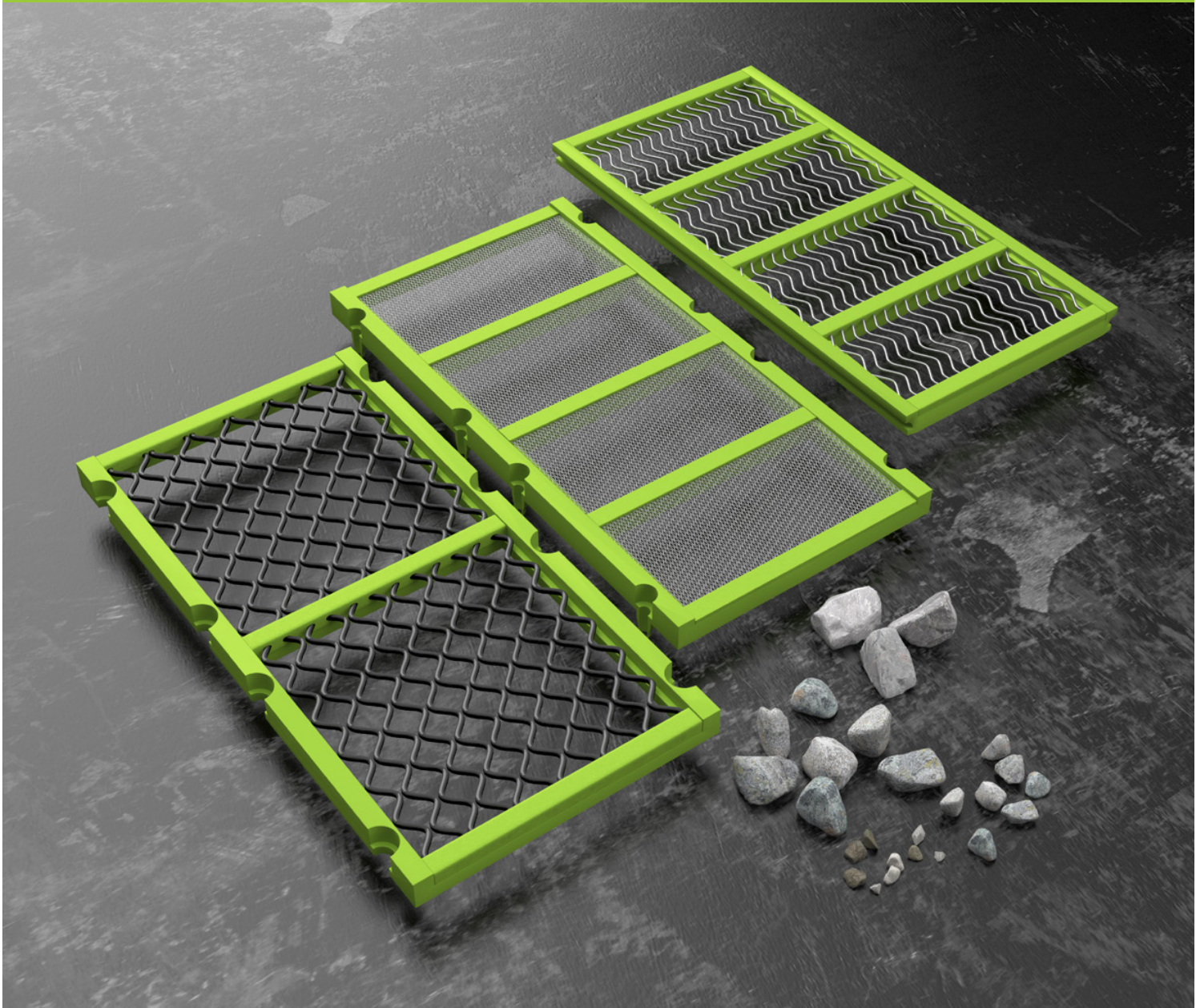
Use VR if you are facing extreme plugging issues, or square apertures with flat or elongated material.



# FLEX-MAT®

## HIGH VIBRATION WIRE SCREEN

### MODULAR SERIES



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MAJOR is a global leading manufacturer of high-performance wire screening media,  
namely FLEX-MAT High Vibration Wire Screen.  
[www.majorflexmat.com](http://www.majorflexmat.com)

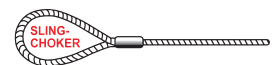


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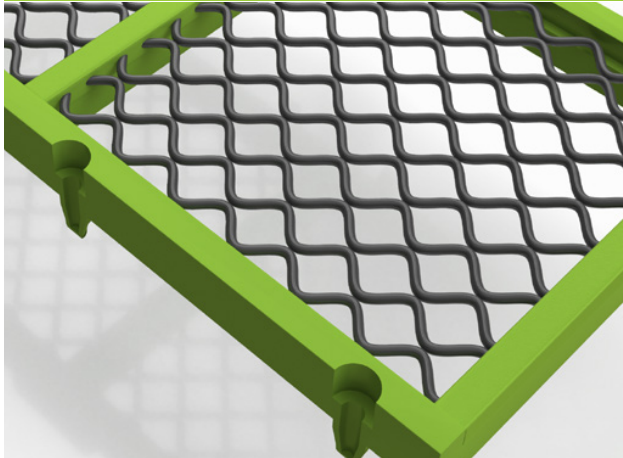
MinePLUS

This catalogue was printed on August 11, 2021

[www.slingchoker.com](http://www.slingchoker.com)



### MODULAR SERIES > PRODUCT



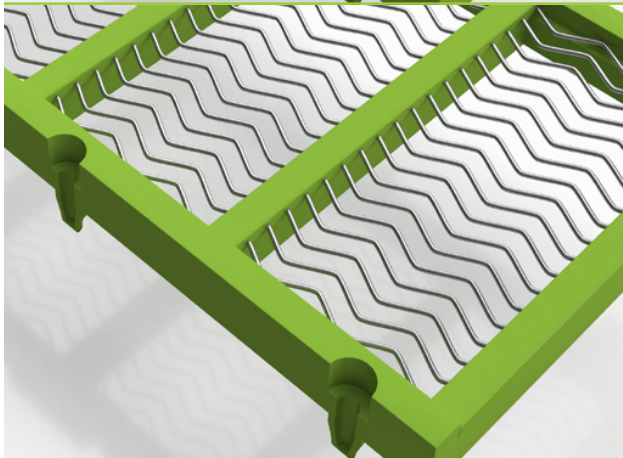
MODULAR  
SERIES

D

- Standard pattern
- Square opening
- Equivalent to square woven
- Precise sizing

> Opening Sizes

**0.059" – 1.575"**  
1.5 mm – 40 mm



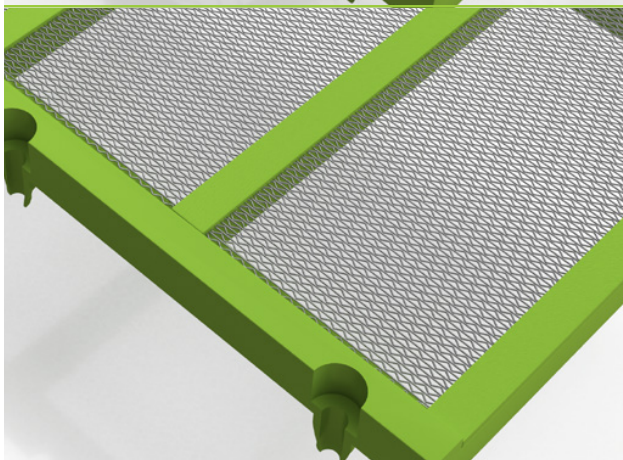
MODULAR  
SERIES

S

- Used with round or cubical-shaped material, or when precise passing is not required, FLEX-MAT S allows you to:
  - Maximize open area
  - Eliminate blinding
  - Reduce fines

> Opening Sizes

**0.059" – 1.575"**  
1.5 mm – 40 mm



MODULAR  
SERIES

T

- Ideal for particles below 0.059" or 1.5 mm
- Replaces small openings to better reduce blinding

> Opening Sizes

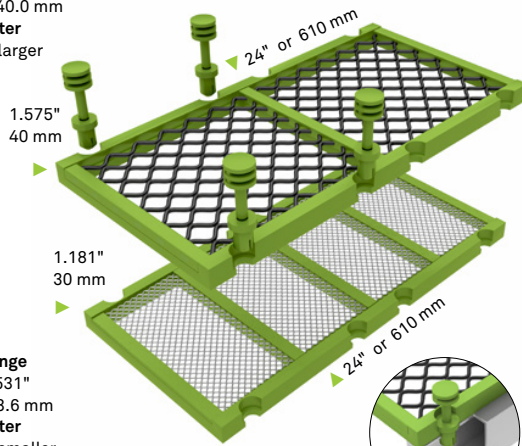
**0.020" – 0.055"**  
0.5 mm – 1.397 mm

### MODULAR SERIES > PIN TYPES

#### PIN & SLEEVE

**Opening Range**  
0.433" – 1.575"  
11.0 mm – 40.0 mm  
**Wire Diameter**  
0.192" and larger  
4.9 mm

**Available Width**  
12" or 305 mm

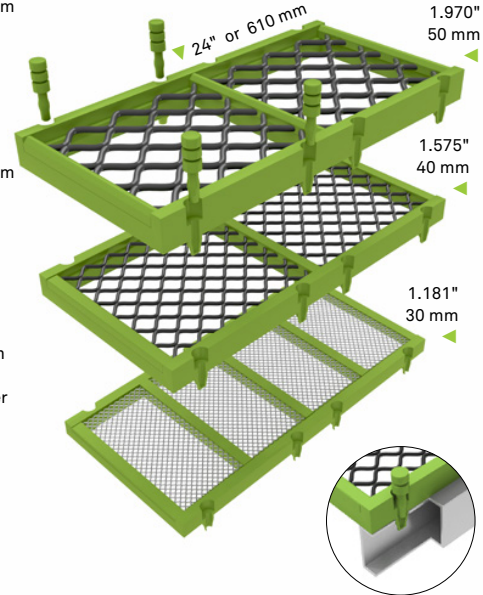


**Opening Range**  
0.020" – 0.531"  
0.5 mm – 13.6 mm  
**Wire Diameter**  
0.135" and smaller  
3.4 mm

#### PIN & LEG

**Opening Range**  
0.937" – 1.575"  
23.8 mm – 40.0 mm  
**Wire Diameter**  
0.243" and larger  
6.2 mm

**Available Width**  
12" or 305 mm



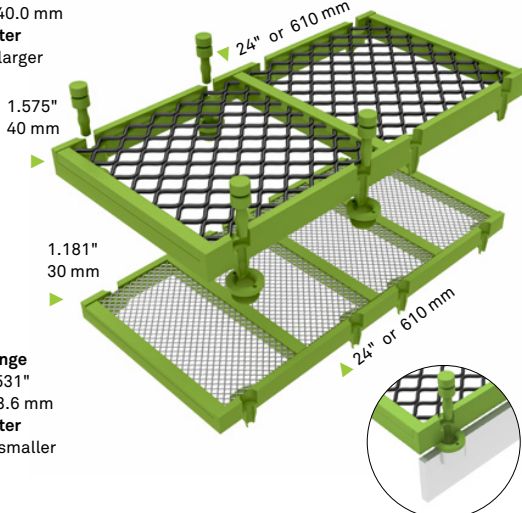
**Opening Range**  
0.433" – 1.575"  
11.0 mm – 40.0 mm  
**Wire Diameter**  
0.192" and larger  
4.9 mm

**Opening Range**  
0.020" – 0.531"  
0.5 mm – 13.6 mm  
**Wire Diameter**  
0.135" and smaller  
3.4 mm

#### PIN & LEG – MAXI

**Opening Range**  
0.433" – 1.575"  
11.0 mm – 40.0 mm  
**Wire Diameter**  
0.192" and larger  
4.9 mm

**Available Width**  
12" or 305 mm



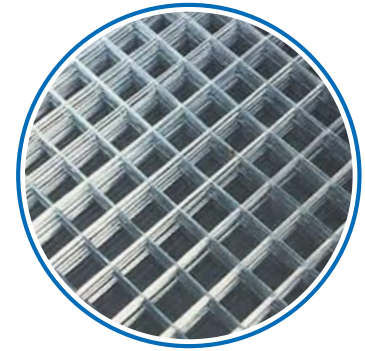
**Opening Range**  
0.020" – 0.531"  
0.5 mm – 13.6 mm  
**Wire Diameter**  
0.135" and smaller  
3.4 mm

Welded Steel Screen							
Size	Size		Finish	Bundle	Master Bundle	Pieces Truckload	Item
	Opening	Feet					
6G	4 x 4	6 x 12	Galvanized	50	100	1,600	WB32126
6G	4 x 4	9 x 6	Galvanized	50	100	2,400	WB32127

## Welded Steel Screen

### MW-XXXX1 - MW-XXXX3

These bright and galvanized screens can be packaged as required, and have a large capacity for large full truck load orders and contracts



Fabrene Woven Poly Fabric		
Size	Length	Item
89.37"	230M	WN32133
90"	100M	WN32132

## Fabrene Woven Fabric

### FAKA-1525X230 - 2270X230



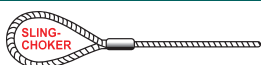
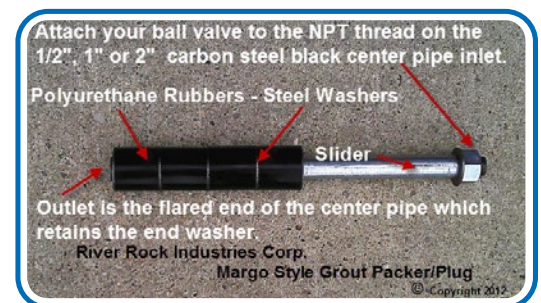
Standard Margo Grout Plug (Packer) Sizes														
Hole Diameter	Drill Size	Actual Plug Size	Pipe Size	Model	Length in Inches									
					18	24	36	48	60	72	84	96	108	120
1"		0.940	3/8"	RR094-	18	24	36	48	60	72	84	96	108	120
1-1/8"		1.000	1/2"	RR100-	18	24	36	48	60	72	84	96	108	120
1-1/4"		1.125	1/2"	RR112-	18	24	36	48	60	72	84	96	108	120
1-3/8"		1.250	1/2"	RR125-	18	24	36	48	60	72	84	96	108	120
1-1/2"	EX	1.375	1/2"	RR137-	18	24	36	48	60	72	84	96	108	120
1-5/8"		1.500	1/2"	RR150-	18	24	36	48	60	72	84	96	108	120
1-3/4"		1.625	1/2"	RR162-	18	24	36	48	60	72	84	96	108	120
1-7/8"	AQ	1.750	1/2"	RR175-	18	24	36	48	60	72	84	96	108	120
2"		1.875	1/2"	RR187-	18	24	36	48	60	72	84	96	108	120
2-1/8"		2.000	1/2"	RR200-	18	24	36	48	60	72	84	96	108	120
2-1/4"		2.125	1"	RR212-	18	24	36	48	60	72	84	96	108	120
2-3/8"	BQ	2.250	1"	RR225-	18	24	36	48	60	72	84	96	108	120
2-1/2"		2.375	1"	RR237-	18	24	36	48	60	72	84	96	108	120
2-3/4"		2.500	1"	RR262-	18	24	36	48	60	72	84	96	108	120
3" NQ		2.875	1"	RR287-	18	24	36	48	60	72	84	96	108	120
3-1/4"		3.125	2"	RR312-	18	24	36	48	60	72	84	96	108	120
3-1/2"		3.375	2"	RR337-	18	24	36	48	60	72	84	96	108	120
3-3/4"	HQ	3.625	2"	RR362-	18	24	36	48	60	72	84	96	108	120
4"		3.875	2"	RR387-	18	24	36	48	60	72	84	96	108	120
4-1/4"		4.125	2"	RR412-	18	24	36	48	60	72	84	96	108	120
4-1/2"		4.375	2"	RR437-	18	24	36	48	60	72	84	96	108	120
4-3/4"		4.625	2"	RR462-	18	24	36	48	60	72	84	96	108	120

## River Rock Margo Grout Plugs (Packers)

### RR094 - RR487

Used to control water in drill holes and/or injecting cementitious or chemical grouting compounds in high volumes. The hollow center pipe is securely anchored in the drill hole by the four precision made expanding polyurethane rubber sleeves and specially machined washers. Our Margo style grout plugs come without welding of the outlet end washers — we use a pipe flaring procedure instead!

Margo Grout Plugs (also called Grout Packers) are designed to be sized 1/8" smaller than the actual drill hole diameter. Accurate sizing results in maximum grout plug holding power. Attach your ball valve (not included) to the NPT threaded inlet pipe end. The Margo Grout Plug is available in all standard sizes for 1" (25.4mm) to 6" (152.4mm) drill holes including EX, AQ, BQ & NQ. Constructed using 100% high performance polyurethane rubber sleeves which; far superior than the standard rubber sleeves. These precision made Margo Grout Plugs have been used extensively in mines and construction projects across the globe and are made in Ontario, Canada.



# SLING-CHOKER MANUFACTURING

*Leave the service to us.  
Get back to mining.*



## **Ingersoll Rand Authorized Service Center**

.....  
Sling-Choker Manufacturing Ltd is proud to announce that they have recently been appointed as an Authorized Distributor and Service Center for Ingersoll Rand Material Handling Products. Don't trust just anyone with your lifting equipment. Contact Sling-Choker Manufacturing to overhaul and recertify your winches and hoists.



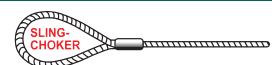
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## SLING-CHOKER MANUFACTURING



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# THERN

LEAVE THE HEAVY LIFTING TO US.

*Custom Applications*

## **Electric & Hydraulic**

### **TYPICAL APPLICATIONS:**

- Conveyor take-up winches (gravity, constant tension)
- Maintenance winches
- Conveyor positioning
- Field maintenance on shovels
- Wire rope reeving
- Plumb-bob winches
- Cart pulling winches
- Belt pulling
- Dredge and barge positioning

4HS & 4WS  
Series



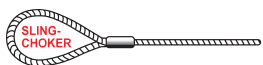
Portable  
4WP2 Series



4HBP & 4HPF  
Series



Capacities up to  
**50 Tons**  
and beyond  
(7000 feet)



[www.slingchoker.com](http://www.slingchoker.com)

This catalogue was printed on August 11, 2021

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MinePLUS

# More Than Just Wire Rope?

**Crosby**

RIGGING  
HARDWARE

**BJM Pumps**

ELECTRIC  
SUBMERSIBLE  
PUMPS

**POLYDECK**

MINE SCREEN  
& GROUND  
CONTROL

**wstyler**

WOVEN WIRE  
FILTRATION  
MEDIA

**Yamada**

SPECIALTY PUMPING  
SOLUTIONS

**BRIDON · BEKAERT**  
THE ROPES GROUP

WIRE ROPE  
& CABLES

**O'BRIEN**  
LIFTING SOLUTIONS INC.

OVERHEAD, JIB,  
& LIGHT RAIL  
CRANE SYSTEMS

**SIoux**  
Reliability Since 1939

WATER PRESSURE  
EQUIPMENT

**KITO**

HOISTS &  
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EQUIPMENT  
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& IDLERS

**PORCUPINE**  
CANVAS  
MANUFACTURING LTD

CANVAS BAGS &  
FIELD GEOLOGY  
EQUIPMENT

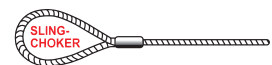
FIND OUT HOW  
WE'VE GROWN

HERE



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# DuraPRO

DuraPRO, a Sling-Choker brand, is our product line dedicated to providing quality equipment with uses in every industry. Containing oil spill pallets & kits, pressure washers, portable heaters, strapping & tensioners, fire retardant tarps, impact wrenches, and hammers, everything DuraPRO offers has extended uses in any work setting.



# Uni-Bond

## Premium LED Lighting

*"Just a Bright Idea"*



### LW1332

- 3.5" x 3.5"
- 2800 Lumen
- Beam Pattern - Wide Flood
- Voltage - 12V to 30V
- Amp Draw - 2A @ 12V



### LW4262

- 5" x 4.25"
- 3120 Lumen
- Beam Pattern - Wide Flood
- Voltage - 10V to 30V
- Amp Draw - 2.23A @ 12V



### LW4533

- 4.25" x 4.25"
- 1150 Lumen
- Beam Pattern - Flood / Spot
- Voltage - 9V to 36V
- Amp Draw - 1.5A @ 12V



### LW6009

- 2" x 6.25"
- 1620 Lumen
- Adjustable e-coated steel mounting
- Beam Pattern - Flood Center Spot
- Voltage - 12V to 30V
- Amp Draw - 1.3A @ 12V

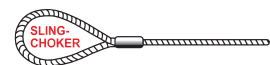


### LW92105

- 22"
- 7800 Lumen
- Adjustable stainless steel mounting
- Beam Pattern - LED Flood / Spot
- Voltage - 10V to 30V
- Amp Draw - 5.6A @ 12V

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Unibond lights carry RoHs certificates and depending on the model various IP ratings such as IP67 or IP69K.



Oil-Only Absorbents			
Size	Description	Colour	Item
30" x 150'	Roll	Blue	WB1805
15" x 19"	Pad	White	WB1810
30" x 300'	Roll	White	WB2802



## Oil Only Absorbent Rolls & Pads

MEP-I12SBRL150N - MEP-I2SWRB300S

Spill Kits		
Size	Item	
Vehicle	WB2805	
5 Gallon	WB0810	
30 Gallon	WB2807	

Drum Management	
Description	Item
2 Drum Pallet	WB3120
4 Drum Pallet	WB2823
1 Drum Mini Berm	WB2809-I
4 Drum Mini Berm	WB2822

## Vehicle Spill Kit

MEP-15S

Yellow Logo bag, Zipper 3 sides | 16.75 W x 14 L x 6 H | Oil Select Absorbent Pads 17 x 19 x 3/8. | Oil Select Absorbent Socks 3 x 48 | Plug 'N' Dike Hole Repair Compound | Pair Splash Goggles | Poly Drain Cover, 48 x 48 — | Haz-Mat Disposal Bag with Tie | List of Contents — Set of Spill Procedure Instructions



## 2 Drum Spill Pallet

MEP-ULT1086

- **DIMENSIONS** 53 X 29 X 16½"
- **WEIGHT** 63 lbs (29 kg)
- **CONTAMINANT CAPACITY** 66 gallons (250 L)
- **UNIFORMLY DISTRIBUTED LOAD** 3,000 lbs (1361 kg)



## 5 Gallon Spill Kit

MEP-05S

Plastic Pail & Lid | Oil Select Absorbent Pads 17 x 19 x 3/8 | Oil Select Absorbent Socks 3 x 96 | Plug 'N' Dike Hole Repair Compound | Pair Splash Goggles | Haz-Mat Disposal Bag with Tie | List of Contents — Set of Spill Procedure Instructions



## 4 Drum Spill Pallet

MEP-ULT1072

- **DIMENSIONS** 53 x 53 x 11¾"
- **WEIGHT** 90 lbs. (41 kg)
- **CONTAINMENT CAPACITY** 66 gallons (250 L)
- **UNIFORMLY DISTRIBUTED LOAD** 6,000 lbs. (2722 kg)



## 30 Gallon Spill Kit

MEP-CSK30

1 300Gal Poly DOT Approved Container With Quick lock ring | 4 Oil Select White Socks 3" x 144" | 6 Oil Select White Pillows, 18" x 18" | 50 Oil Select Absorbent Pads 17" x 19" x 3/8" | 1 Green Solvex Gloves, XL | 1 Splash Goggles | 2 Haz-Mat Disposal Bag with Tie | 1 List of Contents | 1 Set of Spill Procedure Instructions



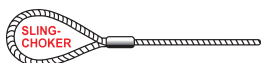
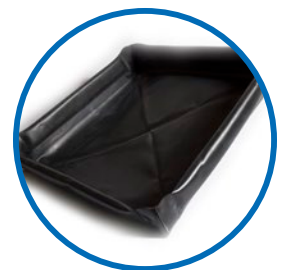
## 1 & 4 Drum Mini-Berm

MEP-MB244 - MEP-MB506

Constructed of durable Chem-Shield™ and Arctic-Shield™ material. Chemical resistant to fuels, oils and most chemicals including acids

Easily placed under valves and fittings, vehicles or machinery. Totally reusable and compact

Appropriate for containment of waste water, petroleum products and various other chemicals



# Consider these **Benefits...**

Sioux's E-Series units have the cleaning capabilities of a large machine in a compact, portable design. Under 4 feet (1.2 m) long and 3 feet (.9 m) tall, E-Series steam cleaners and pressure washers are ideal for general industrial cleaning applications. Sioux's E-Series units produce ZERO EMISSIONS, meaning, no fumes, no exhaust, and no flames, which makes them perfect for indoor/outdoor use and in spaces where air quality is a concern. All E-Series units are engineered for exceptional quality and reliability.

The E-Series carries Sioux's Twenty-Year Reliability Guarantee including parts, frames, equipment performance, technical assistance, stock parts shipments, and lifetime parts support (see Reliability Guarantee for details).

Sioux equipment lasts up to 5 times longer under continuous, demanding operation, often over 25 years, making it the best value on the market. Here's why:

## **Electrical System Safety**

Includes water-tight NEMA 4 enclosures, internal branch circuit breakers and components that meet NEC and UL-1776 standards. Motor starters have thermal overload protection. Switches and indicator lights are water tight.

## **Heating Element Requires No Preheating or Recovery Time**

Provides instant and continuous hot water or steam. It is constructed of Incoloy® sheathed element rods, enclosed in a hydrostatically-tested housing. The screwplug design is compact, lightweight, and replaceable. No preheating or recovery time is required (no time is wasted waiting for a large storage reservoir to heat).

## **Water Pump Built to Last**

Ceramic multi-plunger type with forged bronze heads, positivedisplacement, and are oil-bath lubricated with stainless steel valves.

## **Motor with Thermal Overload Protection**

High quality totally enclosed, fan cooled with thermal overload protection.

## **Digital Temperature Control System for Optimum Cleaning Efficiency**

Allows users to select the temperature for each job for optimum cleaning efficiency. This includes a digital readout display module with up and down arrow keys for easily adjusting the operating temperature.

## **Compact Industrial Frame for Durability & Easy Maintenance**

Allows convenient access to internal components for fast and easy maintenance.

- Compact frame built from heavy-duty welded structural grade steel provides years of trouble-free service. Machines is mounted on heavy-duty casters for portability.
- Inlet water float tank is stainless steel to minimize rust, and includes a valve to prevent overflow and backflow.
- Components are protected within the frame.
- Dual lifting eyes provide balanced hoisting for increased user safety.
- Heavy-duty gun, hose and power cord racks provide safe and convenient storage, protect these components from damage, and eliminate a tripping hazard.
- Powder coat paint provides a durable, long-lasting finish.



**Model E5.4HS2000**

## **Shut-off Gun for Increased Operator Safety**

Stops hot water or steam discharge when the trigger is released. This feature increases operator safety and reduces energy and water usage. Shut-off guns are standard on all units.

## **Additional Standard Features**

- High temperature limit switch
- Pressure relief valve
- Water flow switch
- 50' discharge hose
- Glycerin-filled pressure gauge
- Detergent metering valve
- Variety of cleaning nozzles

## **Accessories**

### **Available to Customize Your Cleaner**

**Walter's™ Heavy-Duty Steam Guns** – Rated to 1500 PSI (103 BAR) and 450°F (232°C). Designed to withstand the most severe conditions. See *Walter's SteamGun* flyer for complete details.

**Shutdown Timer** - Stops unit to prevent damage to pump after a set time if left in bypass mode. Factory installed.

**Hour Meter** – Records operating time. Factory installed.

**Hose Reel** – Manual crank hose reel.

**Machine Disconnect Switch** – Factory installed.

**Internal Circuit Breakers (in place of standard fuses)** - Available on models operating on voltages higher than 480 volt. Factory installed.

# HWP Series

## Hot Water Plant

The HWP was designed to provide heater and storage tank for small to medium size ready mixed concrete plants. The HWP is also ideal for construction sites, such as dams or bridges.

- Standard BTU ratings are 1, 1.7, 2, or 3 million
- Standard primary electricals are 230V/3Ph/60Hz and 460V/3Ph/60Hz
- Available in Oil, LP, Natural Gas or Combination.
- Standard with industrial circulation pump(s) and discharge pump
- Standard tank size is 1,000 or 2,500 gallons (3,785 or 9,464 liters) - Other tank sizes are available.



**Sioux HWP-HM1.7**  
• HM-1.7 water heater with 1,000 gallon (3784.4 liter) tank

# PWP Series

## Precast Water Plant

The PWP Series is designed to provide a complete heater and storage tank for precast concrete plants.

- Standard BTU ratings are 1 or 1.7 million
- Standard primary electricals are 230V/3Ph/60Hz and 460V/3Ph/60Hz
- Available in Oil, LP, Natural Gas or Combination.
- Seven-stage circulation pump and one industrial discharge pump are standard
- Standard tank size is 300 gallons (1,135.6 liters) - Other tank sizes are available.



**Sioux PWP**  
• HM-1.7 water heater with attached 300 gallon (1,135.6 liter) tank

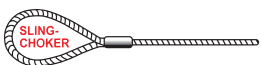
# M-415

## Water Heater for Mobile Mixers

The M-415 is designed to easily mount on a volumetric mixer truck for hot water on the go. The 415,000 BTU/HR heater features standard 12 volt DC or optional 120 volt AC burner control, Honeywell protectorelay with flame monitoring burner control, rotary gear type pump with stainless steel shaft, temperature display with adjustable tank temperature control, and a TEFC ½ HP motor. The heater also has electrical controls with on/off switch for water circulation pump and burner. The unit can also easily be connected to the trucks fuel system. The heater is capable of achieving 100°F temperature rise on 500 gallons (1892.1 liters) of water over one hour.



**Sioux M-415**





### FVO-200RC

185,000 BTU Indirect Fired Oil Heater, Recirculating Hood

- Proven Riello burner technology including nozzle pre-heater for cold weather start up & upgraded low temp. fuel pump
- Powerful backward incline blower provides ultra-quiet operation & low amperage, ductable up to 150 ft
- Smart power indicator control verifies proper power supply to the heater
- Stackable frame allow for convenient transportation & storage

Indirect Fired Heater	
Description	Item
200,000 BTU Propane	WP32128
200,000 Oil (No Preheater)	QP2193
200,000 Oil (With Preheater)	WP2201
12" x 12' Ducting	WP2140
12" WYE Splitter	WP32133
Thermostat (25' Cord)	WP32132
Fuel Filter	WP32126
Nozzle 1.25 GPH 60W	WP2132

FVO-200RC	
Heat Capacity	185,000 BTU/H
Fuel Tank Capacity/ Run Time	23 US GAL/ 17 HR
Power Requirements	115V/15 AMPS (6AMP Draw)
Fan Motor/ Air Circulation	1/2 H.P. / 2,600 CFM
Heat Exchanger	16 Gauge 304 Stainless Steel
Nozzle Size/ Pump Pressure	1.10 x 70A/ 180PSI
Air Outlet	1 x 12" Dia or 1 X 16" Dia
Air Intake	1 x 12" Dia
Wheels	2 x 12" Dia. Flat Free/ 2 x Casters
Dimensions / Weight	51.5" x 27" x 48" / 350 LBS.
Approvals	cETLus
Outlet Ducting	FV-HD12 - 12" x 12
Outlet Ducting:	FV-HDG16 - 16" x 25
Return Ducting	FV-HD12 - 12" x 12
Remote Thermostat	FV-THB

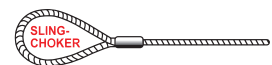
FVO-400RC	
Heat Capacity	390,000 BTU/H
Fuel Tank Capacity/Run Time	42 US GAL / 14 HRS
Power Requirements	115V/15 AMPS (10.5 AMP Draw)
Fan Motor/ Air Circulation	1 H.P. / 4000 CFM
Heat Exchanger	16 Gauge 304 Stainless Steel
Nozzle size/ Pump Pressure	2.00 x 60B / 170 PSI
Air Outlet	2 x 12" Dia. or 1 X 16" Dia.
Air Inlet	1 x 16" Dia.
Wheels	2 x 16" Dia. Flat Free
Dimensions / Weight	70" x 29" x 54" / 450 LBS.
Approvals	cETLus
Outlet Ducting:	FV-HD12 - 12" x 12FT
Outlet Ducting:	FV-HDG16 - 16" x 25FT
Return Ducting:	FV-HDV16 - 16" x 25FT
Remote Thermostat:	FV-THB
Option:	FVO-TLS - Tigerloop System



### FVO-400RC

390,000 BTU Indirect Fired Oil Heater, Recirculating Hood

- Proven Riello burner technology including nozzle pre-heater for cold weather start up & upgraded low temp. fuel pump
- Powerful backward incline blower provides ultra-quiet operation & low amperage, ductable up to 150 ft
- Smart power indicator control verifies proper power supply to the heater
- High density flat free wheels





### FVO-400

390,000 BTU Indirect Fired Oil Heater, Recirculating Hood

- Proven Riello burner technology including nozzle pre-heater for cold weather start up & upgraded low temp. fuel pump
- Welded 304 stainless steel heat exchanger
- Smart power indicator control verifies proper power supply to the heater
- High density flat free wheels

Heating Ducting - 12" Diameter, 12' Length	
Temperature Rating:	350F
Diameter Size:	12"
Length:	12 ft
Pitch:	6"
Colour:	Black

Heating Ducting - 16" Diameter, 25' Length	
Temperature Rating:	350F
Diameter Size:	16"
Length:	25 ft
Pitch:	6"
Colour:	Black



Indirect Fired Heater	
Description	Item
400,000 BTU Propane	WP32131
400,000 Oil (No Preheater)	WP2909-1
400,000 Oil (With Preheater)	WP2909-2
12" x 12' Ducting	WP2140
12" WYE Splitter	WP32133
Thermostat (25' Cord)	WP32132
Fuel Filter	WP32126
Nozzle 2.00 GPH x 60W	WP2136

FVO-400	
Heat Capacity	Up to 390,000 BTU/H
Fuel Tank Capacity/ Run Time	42 US GAL/ 14 HRS
Power Requirements	115V/15 AMPS (10.5 AMP Draw)
Fan Motor/ Air Circulation	3/4 H.P. / 2,500 CFM
Heat Exchanger	16 Gauge 304 Stainless Steel
Nozzle Size/ Pump Pressure	2.00 X 60B / 170 PSI
Air Outlet	2 x 12" Dia or 1 X 16" Dia
Wheels	2 x 16" High Density Flat Free
Dimensions / Weight	70" x 29" x 52" / 450 LBS.
Approvals	cETLus
Ducting:	FV-HD12 - 12" x 12FT
Ducting:	FV-HDG16 - 16" x 25ft
Remote Thermostat:	FV-THB
Option	FVO-TLS - Tigerloop System
Option:	FVO-TLS - Tigerloop System



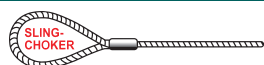
### Heating Ducting

390,000 BTU Indirect Fired Oil Heater, Recirculating Hood

- Very durable material to uphold our severe winters
- Pin lock system for quick and easy installation
- Allows multiple lengths to be attached to eachother

### Heater Thermostat C/W 25ft Cord

- Easy to use and operation
- Easy twist plug
- 25 ft cord (longer cord available)
- Used on all FV, FMA, FLE series heaters



# Atlas Copco

World leaders in countless solution-based products, including percussive tools, Atlas Copco equipment is among the best of the best



## Impact Wrenches

The LMS8-series impact wrenches deliver true raw power and enable extremely fast tightening and loosening. The innovative and unique grease retaining system ensures maximum tool performance with long service intervals. For an impact wrench, the LMS8 also has extraordinarily low vibration levels. Once you have experienced the feel and great performance of the LMS8 there is no substitute. The unique Grease Retaining System (GRS) allows for much longer service intervals. Because the grease stays in the clutch, low viscosity grease can be used which decreases friction and increases performance. All in all, this results in a very consistent, high performance tool.



## Chipping Hammers

Atlas Copco percussive tools are ideal for all material removal tasks in foundries, engineering workshops, shipyards, and the construction and off-shore industries. Built-in-ergonomic features such as vibration damping reduces the human load, delay fatigue and help protect the operator against the ill effects of long-term exposure to vibration and noise. Vibration-damped models are available over almost the entire power range.

304







**REDUCED VIBRATION** for lower risk of vibration related injuries and improved operator control **NO ADDITIONAL TOOL** is needed for changing needles or chisel **LOW WEIGHT TOOL** for one-handed operation

## Needle Scalers

Ergonomically designed with low maintenance requirements and quick change flexibility. These tools are ideal for applications such as chipping, stone carving, scaling, paint removal and weld flux. The PRO range offers several scalers with different material removal rates. The PRO range low vibration scalers is the preferred tool for customers seeking high performance with a safe vibration level.

## Tensor Revo Nutrunners

When choosing assembly tools for high torque joints, the challenge is often to combine high quality tightening with acceptable ergonomics and usability. Some tools provide higher quality but can be large and heavy. Other tools are lighter, but may not live up to your quality and durability requirements. Why would you compromise? Tensor Revo has it all. It's also extremely fast. With the unique, patented T-design and packed with smart features, the new Tensor Revo is a true revolution in high torque tightening.



**ERROR PROOFING** high accuracy and full rundown control eliminates assembly errors and ensures process stability **FULL TRACEABILITY** transducer measured torque ensures a traceable process. Easily combined with data collection software **CLEAR FEEDBACK** visual and audio feedback allows operator to correct errors at source **HIGHER SPEED** 99 rpm at 1,000 Nm. 30% faster compared to Tensor S9 **FEWER OPERATIONS** replace pneumatic tool and click wrenches with only one Tensor Revo operation.



## ST Digital Torque Wrenches

The STwrench from Atlas Copco offers unmatched error-proofing capability and can be used in both production and quality audit applications.

The tool is fully transducerized, which allows for excellent torque accuracy and the ability to collect tightening information.

The tool stores up to 1,000 torque readings. The ST-wrench also contains a gyroscope, which allows the ST-wrench to consistently provide the true breakaway point of a bolt when performing quality audits after an assembly is complete. **ST** - The ultimate customizable wrench for your specific requirements.

# CARISTRAP®

Dispensers	
Item	
CS10043	
CS10122	
Tensioners	
CS20038	
CS20310	
CS10314	
FP6111/4	



Fire Retardant Tarps	
Size	Item
10 x 30	OBU3129
18 x 24	ON3117



## Fire Retardant Tarps

### OBU3129 - ON3117

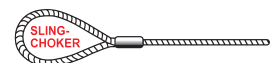
6.5 Oz. Per. Square Yard | Rope Reinforced Edges & Grommets Every 18" | 12 Mil. Thickness | Reinforced Corner Guards and Hemmed Edges | 14 x 14 Mesh Count | 100% Water Proof | Rot Proof & Mildew Resistant | 200 Denier Arctic Flexibility | 3 Ply Material & UV Blocker | Tagged NFPA701 & CAN/ULCS 109

Caristrap Woven Strap						
Width	Feet	Color	BS/Lbs	Wt./Ea.	Pkg.	Item
1/4"	7,804	Natural	353	14.3	4	CS10390
3/8"	5,246	Natural	474	13.4	4	CS10391
1/2"	3,902	Natural	683	14.3	4	CS10392
5/8"	3,000	Natural	794	13.2	4	CS10393
3/4"	2,098	Natural	948	11.4	4	CS10394
3/4"	1,639	Natural	1,455	12.2	2	CS10420
3/4"	2,492	Natural	1,455	18.5	2	CS10421
1-1/4"	525	Green	3,527	9.1	6	CS10423
1-1/4"	2,246	Green	3,527	38.8	1	CS10436
1-1/4"	1,082	Green	3,527	18.7	2	CS10437
1-1/2"	479	Blue	5,401	14.2	4	CS10445
3/4"	1,639	Natural	1,830	14.2	2	CS10458
5/8"	2,787	Natural	1,213	17.3	4	CS10478
1"	1,312	Natural	2,811	20.8	2	CS10480
1"	1,639	Natural	2,293	18.9	2	CS10607
1/2"	1,498	Natural	683	5.8	4	CS10618
3/4"	1,312	Natural	2,811	20.4	2	CS10628
1-1/2"	984	Blue	5,401	29.3	2	CS11445
3/4"	1,639	Natural	2,205	18.8	2	CS11458

## Caristrap Woven Strapping

### CS10391 - CS20004

Woven is designed to eliminate splitting and to remain perfectly easy to work even in extreme cold. Contrary to steel banding, woven straps will not rip when nicked. Extremely versatile in its applications, more and more woven type Caristrap is sold worldwide. It comes in a variety of strengths (from light duty to special/extra heavy duty), and in several widths and coil sizes.



Caristrap Weather Guard						
Width	Length	Color	BS/Lbs	Wt./Ea.	Pkg.	Item
1/4"	7,804	Natural	353	15	2	CS10122
3/8"	5,246	Natural	474	15	2	CS10123
1/2"	3,902	Natural	683	15	2	CS10124
5/8"	3,000	Natural	794	13.7	2	CS10125
3/4"	2,098	Natural	948	11.2	2	CS10126
1/4"	8,263	Natural	540	26.2	2	CS10146
3/8"	4,984	Natural	783	21.7	2	CS10147
1/2"	4,164	Natural	1,047	24.7	2	CS10148
5/8"	3,312	Natural	1,312	24.9	2	CS10149
3/4"	2,492	Natural	1,645	22.7	2	CS10150
3/4"	2,492	Natural	1,455	21.7	2	CS10161
1-1/4"	656	Natural	2,105	8.8	6	CS10169
3/8"	4,984	Natural	661	19	2	CS10178
1/2"	4,164	Natural	882	20.7	2	CS10179
5/8"	3,312	Natural	1,213	22.3	2	CS10180
3/4"	2,492	Natural	1,389	19	2	CS10181
1/2"	3,312	Natural	1,367	24.5	2	CS10192
5/8"	2,492	Natural	1,653	22.1	2	CS10193
3/4"	1,639	Natural	1,830	16.2	2	CS10194
1-1/4"	656	Natural	2,756	10.4	6	CS10198
3/4"	1,639	Natural	1,455	14.3	2	CS10345
1"	1,639	Natural	2,205	21	2	CS10351
1-1/4"	656	Natural	3,086	11	2	CS10360
1-1/4"	525	Natural	3,527	10.4	6	CS10384
1"	1,312	Natural	2,811	20.8	2	CS10489

## Caristrap Weather Guard

### CS10123 - CS10607

Weatherguard is the original "Synthetic steel" strap. True to its name, it is a remarkably weather resistant material, able to withstand cold climate and to perform well in high temperatures.

The main benefit of the cord being glued instead of woven, other than lower price, is that the strap can split to adapt to irregular surfaces. When it splits, the overall strength is never compromised.



Wire Buckles				
Width	Qty/Box	Finish	Wt./Box	Item
1/2"	1,000	Plain	11.0	CS10004
3/4"	1,000	Phosphated	37.0	CS10007-120
1/2"	1,000	Phosphated	17.2	CS10008
1-1/4"	250	Phosphated	50.7	CS10306
1"	500	Phosphated	43.0	CS10310
5/8"	1,000	Phosphated	22.5	CS10314-146
5/8"	1,000	Phosphated	29.4	CS10345
1-1/2"	200	Phosphated	41.9	CS10478
1-1/2"	125	Phosphated	35.0	CS11845
3/4"	900	Plain	39.0	CS20008
3/4"	500	Plain	25.7	CS20008-171
3/4"	500	Plain	34.0	CS20033
3/4"	500	Phosphated	34	CS20314
5/8"	900	Plain	33.1	CS20314-146
5/8"	500	Plain	18.4	CS20035

## Wire Buckles

### CS1004 - CS20035

Used to fasten strapping. Enhances efficiency and speeds up the handling process. Ensures that loads arrive intact and optimizes performance of strapping. Easy to use with woven and non-woven strapping



Through our commitment to innovation and excellence, Checkers is poised to continue serving as your leading global provider of industrial safety products.

## CABLE & HOSE PROTECTION SYSTEMS

Checkers manufactures the most extensive line of high performance cable protection products in the world. These durable systems protect valuable electrical cables, cords and hose lines from damage while providing a method of safe passage for pedestrian traffic, vehicles and heavy duty equipment.

For varied uses, we offer lidded models, drop-over models, open top models, and low profile models constructed from all-weather polyurethane. We also offer rubber duct models for light applications.

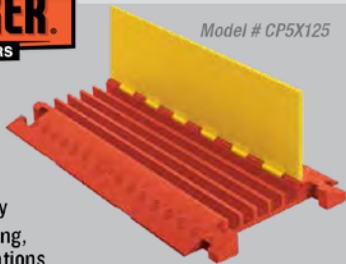


**LINEBACKER**  
CABLE PROTECTORS

Model # CP5X125

**HEAVY DUTY**  
with T-Connectors

- Checkers' most robust cable protection option
- High load-bearing capacity
- Ideal for: Oil and Gas, Mining, Military, Industrial Applications



**YELLOW JACKET**  
CABLE PROTECTORS

Model # YJ5-125

**HEAVY DUTY**  
with Dog Bone Connectors

- The "original" cable protector for over 30 years
- For heavy volume traffic areas
- Ideal for: Entertainment, Manufacturing, Material Handling

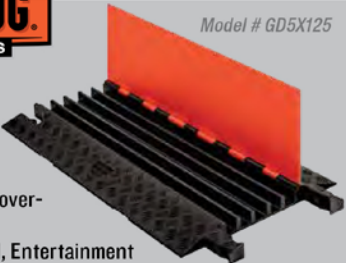


**GUARD DOG**  
CABLE PROTECTORS

Model # GD5X125

**GENERAL PURPOSE**  
with Dog Bone Connectors

- Checkers' most versatile option
- For pedestrian traffic and over-the-road vehicles
- Ideal for: Utility, Industrial, Entertainment

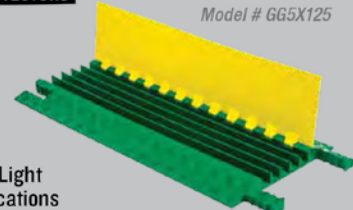


**GRIP GUARD**  
CABLE PROTECTORS

Model # GG5X125

**LIGHTWEIGHT**  
with Gripper<sup>®</sup> Connectors

- Gripper<sup>®</sup> Connector - hand-conforming grip
- Super lightweight
- Ideal for: Entertainment, Light Commercial, Utility Applications

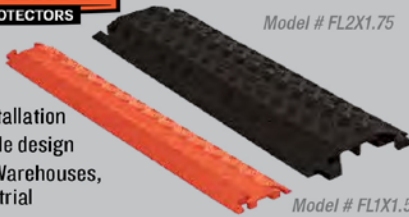


**FASTLANE**  
CABLE PROTECTORS

Model # FL2X1.75

**LIGHTWEIGHT**  
with L-Connectors

- Fast drop-over installation
- Compact, low profile design
- Ideal for: Offices, Warehouses, Commercial, Industrial



Model # FL1X1.5

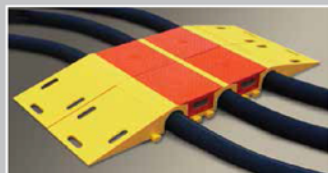


**DIAMONDBACK**  
HOSE BRIDGES

Model # UHB4045  
Multiple Tunnel System

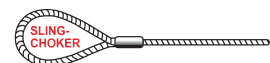
**HEAVY DUTY**  
for Hoses up to 6.5 in.

- Reduces hose maintenance costs
- Ideal for: Refineries, Mining, Industrial, Firefighting Vehicles



### WHY USE CHECKERS' CABLE PROTECTORS?

- Largest manufacturer of cable protectors in the world, including the most popular brands in the industry
- Modular interlocking designs extend to any desired width or length with simple setup, disassembly, and storage
- Polyurethane construction is lighter and more durable than rubber imitations in extreme weather conditions
- Patented design & connector systems are the best in the industry
- 5, 4, 3, 2, or 1 channel options available
- We offer extensive accessories, such as ADA/DDA compliant access ramps, protector bridges, 45° & 90° turns, and end caps
- Constructed of durable polyurethane - resistant to extreme weather conditions, tears, abrasions, oils, and solvents
- Our non-conductive material insulates cords and cables from human contact
- Satisfies all state and federal regulations
- Universal safety colors to alert all types of traffic
- Safety warning symbols molded into the product



*Dedicated to saving lives and protecting assets.*

## INDUSTRIAL WHEEL CHOCKS

Checkers manufactures one of the world's most extensive and versatile lines of wheel chocks. Monster® Wheel Chocks comply with the safety requirements of a variety of industries and ensure a safe working environment while your vehicles are at rest. Offered in either urethane or rubber, our wheel chocks provide a safe chocking solution for any type of vehicle.

Monster® Wheel Chocks were engineered in collaboration with safety experts to work with a wide range of ground equipment and vehicles, as well as commercial and military aviation vehicles. Whether you are chocking a 400-ton mine haul truck filled with rock or a small utility trailer in your driveway, we have the wheel chocks you need to safely secure your vehicle.



### HEAVY DUTY

Model # MC3011



- MC Series - used in mines all around the world
- Durable, lightweight, and easy-to-use design
- Ideal for: Heavy Equipment, Haul Trucks, Cranes, Large Military Tactical Vehicles



**MONSTER**  
WHEEL CHOCKS

### HEAVY DUTY

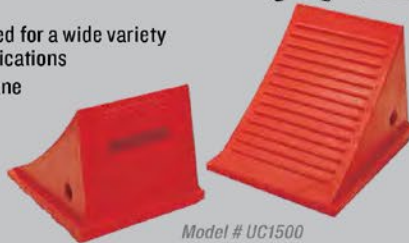


Model # AT3514

- AT Series - perfect for industrial applications
- Aluminum cleats or rubber pads on bottom
- Ideal for: Heavy Equipment and Trucks, Firefighting Vehicles

### GENERAL PURPOSE

- UC Series - designed for a wide variety of commercial applications
- Lightweight urethane construction
- Ideal for Over-the-Road Trucks, Trailers, Pickups, Utility Vehicles

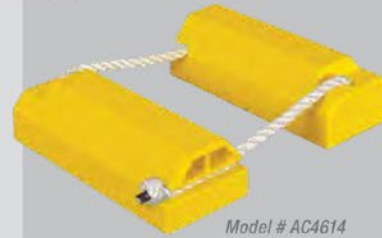


Model # UC1500



**MONSTER**  
WHEEL CHOCKS

### AVIATION



Model # AC4614

- Reduces maintenance costs
- Urethane construction is durable, lightweight and easy to use
- Won't splinter or crack, eliminating Foreign Object Damage



### WHY USE CHECKERS' WHEEL CHOCKS?

- We are one of the largest wheel chock manufacturers in the world, including the most popular wheel chocks in the highly-demanding mining industry
- Polyurethane wheel chocks are resistant to extreme weather temperatures, tears, abrasions, oils, and solvents
- Polyurethane chocks are extremely lightweight compared to excessive steel and aluminum counterparts
- Long-lasting product lifespan results in cost savings
- We make chocks for virtually every type of tire-based vehicle
- Checkers wheel chocks satisfy MSHA, OSHA, SAE, NFPA, and DOT compliance standards
- High visibility safety colors used
- Chocks are engineered to reduce tire damage
- Recessed carrying handles included on most models
- Mounting brackets available for most models



*Dedicated to saving lives and protecting assets.*

## WARNING WHIPS

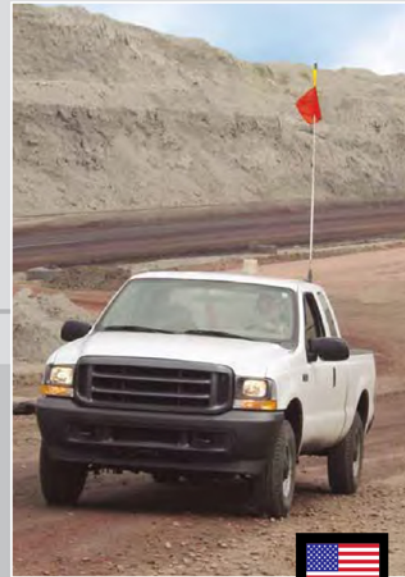
Checkers manufactures an extensive line of warning whips under our Gorilla® and Super Whip® brands. Available in 3, 5, 6, 8, 10 or 12 ft lengths, both brands are constructed with heavy duty fiberglass to ensure the highest level of performance under the most extreme conditions.

Checkers warning whips are available in lighted and non-lighted models and come with a durable nylon mesh flag. We also offer a variety of base mounts, mounting options, and lighting styles and colors. Gorilla® and Super Whip® Warning Whips greatly increase visibility of vehicles on work sites and are manufactured to handle the harshest conditions at mines, construction sites, and other industrial applications.



### HEAVY DUTY & LIGHT DUTY

- The preferred whips all around the world - hundreds of options to choose from
- Base mounts available include Standard Threaded Hex Base, Quick Disconnect Base, and Lock Pin Base
- Standard Pole, Split Pole, and Telescoping Pole options
- Ideal for: Mines, Oil and Gas, Construction Sites, Other Industrial Applications



## INDUSTRIAL SIGNALS



Aid™ Warning Lights produce more light output than competing products to create safer work environments. Using innovative technology and the highest quality materials, our high-visibility Barricade Lights, Strobe Lights, Vehicle ID Lights, LED Flare Kit, and LED Work Lights provide superior performance and increased life to reduce replacement costs. Developed with construction and traffic safety professionals, Aid™ Warning Lights are designed to withstand the harshest conditions in the field.



### BARRICADE LIGHTS

- 30% more light output than competing brands
- Built with heavy duty, UV-stabilized polycarbonate and polypropylene for extreme conditions
- Available in both electrical powered and solar powered models



### STROBE LIGHTS

- Four exclusive user-selectable operating patterns
- Ultra high efficiency power supply produces more flashes while reducing power draw
- Available in both heavy duty and micro styles



### VEHICLE ID LIGHTS

- Provides a safe solution for identifying multiple vehicles on site.
- Allows for optimum visibility day or night.
- Durable construction withstands pressure washing, high impact, and temperature shifts.



### LED FLARE KIT

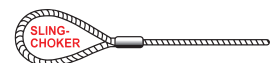
- Quick setup LED warning lights that immediately alert people of upcoming hazard areas
- All-in-one unit doubles as a charging station and carrying case
- Includes 6 LED Flares, car charger, and wall charger

Checkers also offers Goggle Retainers, Parking Stops, Speed Bumps, and a variety of other products to improve workplace safety. To see all of our safety solutions visit our website at [www.checkersindustrial.com](http://www.checkersindustrial.com).

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**CHECKERS**<sup>®</sup>  
INDUSTRIAL SAFETY PRODUCTS  
800-438-9336 • [www.checkersindustrial.com](http://www.checkersindustrial.com)

Available through



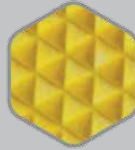
# DURA CRIB® ACTIVE CRIBBING

100% recycled plastic construction provides added durability while being environmentally sound.

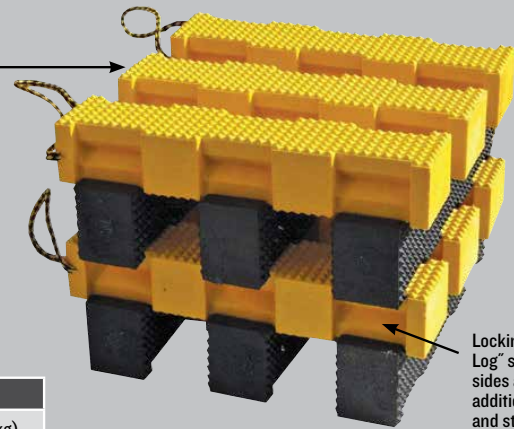


## DURA CRIB® HYBRID CRIBBING

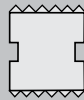
- The new standard in cribbing
- 2 surfaces in one crib
- Pyramid design securely locks at any angle
- Three side notches interlock for secure stacking
- Non-splitting
- Resistant to oils, gasoline and blood absorption
- Lanyard



Slip-resistant pyramid locking surface creates a stronger, more stable base than wood.



Locking "Lincoln Log" style sides allow for additional strength and stacking configurations.



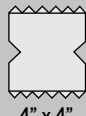
MODEL	HEIGHT	WIDTH	LENGTH	WEIGHT
CH44PL-18	4 in. (10.2 cm)	4 in. (10.2 cm)	18 in. (45.7 cm)	6 lb. (2.73 kg)

## DURA CRIB® PYRAMID CRIBBING

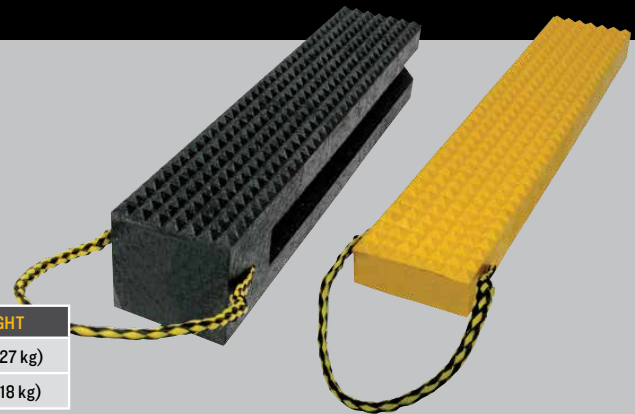
- Pyramid-locking surface on two sides
- Built in lanyard



2" x 4"



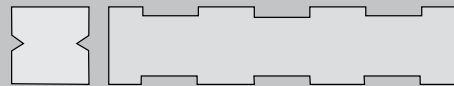
4" x 4"



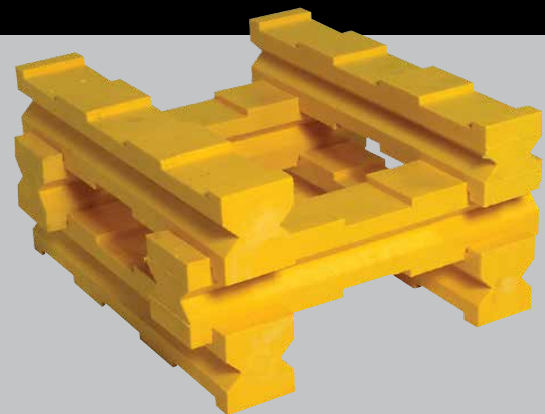
MODEL	HEIGHT	WIDTH	LENGTH	WEIGHT
CH24-18	2 in. (5.1 cm)	4 in. (10.2 cm)	18 in. (45.7 cm)	5 lb. (2.27 kg)
CH44-18	4 in. (10.2 cm)	4 in. (10.2 cm)	18 in. (45.7 cm)	7 lb. (3.18 kg)

## DURA CRIB® LINCOLN LOG CRIBBING

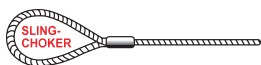
- Three side notches interlock for secure stacking
- Excellent stability
- Optional lanyard



4" x 4"



MODEL	HEIGHT	WIDTH	LENGTH	WEIGHT
CH44LL-18	4 in. (10.2 cm)	4 in. (10.2 cm)	18 in. (45.7 cm)	6.5 lb. (2.9 kg)



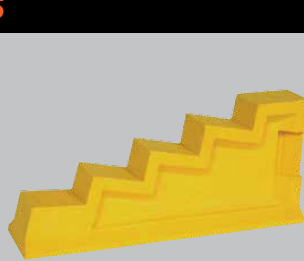
# DURA CRIB® ACTIVE CRIBBING

100% recycled plastic construction provides added durability while being environmentally sound.



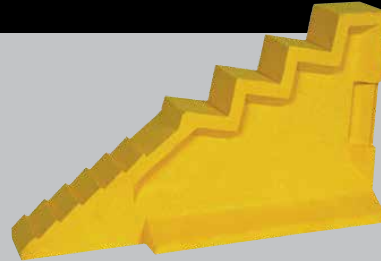
## DURA CRIB® CRIB FAST STEP CHOCKS

- Fastest way to stabilize
- Ensures stability
- Work faster against the golden hour



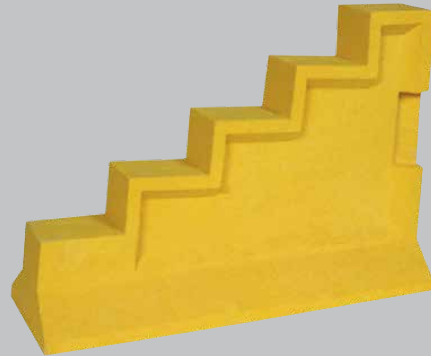
**AUTOSTEP CAR CHOCK - CHSC-1**

- Quickly stabilize passenger vehicles
- Lightweight
- Built-in hand hold



**SUV/F-150 STEP CHOCK - CHSC-2**

- Quickly stabilize trucks and SUV's
- Stable footprint
- Built-in hand hold



**GIANT TRUCK/BUS STEP CHOCK - CHSC-3**

- Quickly stabilize large vehicles.
- Built-in hand hold.

MODEL	HEIGHT	WIDTH	LENGTH	WEIGHT
CHSC-1	10.75 in. (27.3 cm)	5.75 in. (14.6 cm)	24.5 in. (62.3 cm)	17 lb. (7.71 kg)
CHSC-2	17.25 in. (43.8 cm)	9 in. (22.9 cm)	29.5 in. (74.9 cm)	37 lb. (16.8 kg)
CHSC-3	22 in. (55.9 cm)	11 in. (28.0 cm)	31.5 in. (80.0 cm)	63 lb. (28.6 kg)

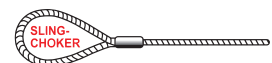
## DURA CRIB® COG AND STEP CHOCK COMBO

A design that simply works!



1. Wedge and incline lock together for maximum stability
  2. Flip and it's a standard step chock
- Quick set up and leveling

MODEL	HEIGHT	WIDTH	LENGTH	WEIGHT
CHCOG	10.75 in. (27.3 cm)	6.63 in. (16.9 cm)	24.38 in. (61.9 cm)	24 lb. (10.9 kg)







# NEED TO OUTFIT YOUR WORKSPACE?

We supply a full range of B&D Manufacturing products for your custom shop needs. From Aluminum Stair Products & Platforms to ramps & adjustable boom stands, know that we have the resources to get you what you need.



## Aluminum Wheel Chocks

Our Wheel Chock line now includes 250, 450 and 500 ton models designed to safely hold a haulage truck in neutral on normal haul road grades when used according to specifications.

- Always use in pairs (2 per axle) and on firm surfaces

Wheel Chock Part No.:	Weight:	Tire Diameter Range:	Max. Capacity (in pairs):
WC-6	7 lbs.	Small vehicles only	20,000 lbs.
WC-8	10 lbs.	24" - 54"	40,000 lbs.
WC-10	15 lbs.	46" - 75"	120,000 lbs.
WC-12	19 lbs.	62" - 80"	200,000 lbs.
WC-15	25 lbs.	102" - 108"	250 tons
WC-17	31 lbs.	136" to 142"	450 tons
WC-20	45 lbs.	142" to 149"	500 tons
WC-20-W*	45 lbs.	142" to 149"	500 tons
WC-24	71 lbs.	56/80 R63 or 59/80 R63 Only	800 tons
WC-24-W*	71 lbs.	56/80 R63 or 59/80 R63 Only	800 tons

\* -W denotes wheeled wheel chock

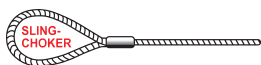


## B&D Heavy Duty Stands

- When working on heavy machinery you need incredibly sturdy and dependable equipment. B&D Heavy Duty Stands maintain a safe working environment
- Construction: Lightweight heavy-duty aluminum resists abuse from oil, salt and weather
- Heights: 12" to 96"
- Capacity: 13.5 -150 tons
- Engineer certified



Part Order No. Construction	Weight Capacity (tons):	Height (12" - 96")	Ball Transfer or Fork Ways:
HDS -	13.5 -	XX -	BT / FW
HDS -	30 -	XX -	BT / FW
HDS -	50 -	XX -	BT / FW
HDS -	70 -	XX -	BT / FW
HDS -	100 -	XX -	BT / FW
HDS -	150 -	XX -	BT / FW





## EFFICIENT WORKFLOW SOLUTIONS

With access to custom B&D Manufacturing products, **Sling-Choker Mfg.** can get it done when it comes to recommending the right fit for your application - be it in a shop, a warehouse, or a mine.



### Adjustable Boom Stand

#### HDS-5-XX-ADJ

HDS-5-60-ADJ = adjustable from 42" to 60"

HDS-5-72-ADJ = adjustable from 48" to 72"

HDS-5-96-ADJ = adjustable from 60" to 96"

#### HDS-15-XX-ADJ

HDS-15-22-ADJ = adjustable from 16" to 22"

HDS-15-29-ADJ = adjustable from 20" to 29"

- Light enough for one person to handle
- Can adjust to different machinery, requiring fewer boom stands at a site which can translate to cost savings
- Engineer certified
- Made with lightweight, heavy-duty aluminum



### Aluminum Rolling Step Platforms

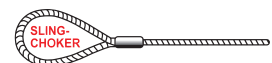
#### ARSP-X-HR

4 Step – 10 Step Models

X = # of Steps

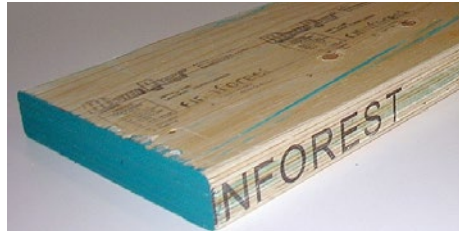
B&D's lightweight medium duty **Aluminum Rolling Step Platforms** feature rolling capabilities for easy positioning, bolt-on replaceable components, standard 42" tall hand railings on all models, and a large top work platform. Superior shur-grip steps and top platform provide an anti-slip surface to withstand all weather conditions.

- Engineer Certified, 500-lb load rating
- Fabricated in lightweight high-strength aluminum
- Hinged front and back safety bars with locking pin
- Bolt-on replaceable hand railings included with all models
- 2 wheels for ease of mobility
- Superior shur-grip steps and top platform for anti-slip surface
- Grade 8 zinc plated fasteners





## Master Plank® Spruce LVL Scaffold Boards



### Master Plank Laminated Veneer Lumber Scaffold Boards

Master Plank is engineered specifically for flat use as scaffold staging walk boards. The unique manufacturing process by which Master Plank is produced disperses the inherent defects typically found in solid-sawn lumber, resulting in a stronger plank product with predictable and proven structural properties.

- **Certified Quality:** Manufactured under the ISO 9001 Quality Certification System.
- **Proven Strength:** All boards mechanically proof-load tested to ensure span and load performance.
- **Lightest Weight:** Manufactured with Norwegian Spruce wood veneer, so lighter than other planks offered.
- **Verified Performance:** Quality control regularly audited by third party, independent inspection agency.
- **Recognized:** Exceeds compliance with OSHA, CSA, and ANSI Standards. Conforms to CAN/CSA-S269.2-M87.
- **Military Approved:** Conforms to MIL-L-19140E and UL Listed for Exterior Fire X Treatment.
- **Ecologically Friendly:** Raw material from PEFC Certified Forest. Managed according to ISO 14001 Environmental Standard.

### Span Tables\* Canada

Plank Size	1-1/2" x 9-1/4"	1-1/2" x 11-3/4"	1-3/4" x 9-1/2"	1-3/4" x 11-3/4"
Plank Weight (Lb/Ln. Ft.)	3.15	3.96	3.73	4.61
Load Condition (Single Span, Dry Use)	<b>Allowable Span (Feet)</b>			
50psf	9	9	10	10
75psf	8	8	9	9
500 lbs.	6	7	8	8
Light Duty (25psf + 250 plf)	8	8	9	9
Heavy Duty (75psf + 265 plf)	6	6	8	8

\* The above span tables to be used as a guideline. For system scaffold with adjustable spans exceeding those noted above, contact McCausey for technical support.

\* Allowable spans are for new planks, with moisture content less than 19% and based upon deflection limited to L/80.

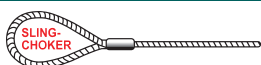
\* Refer to CAN/CSA-S269.2-M87 Standard, Section 5.2.1 for appropriate load diagrams.

\* Conditions which cause moisture content of planks to exceed 19% will reduce plank performance. Design properties must be reduced by minimum of 20%, thereby reducing the permissible load capacity and allowable spans. For "wet use" circumstances, contact McCausey for assistance.

\* Regardless of plank age, appearance, or moisture content, **DO NOT** exceed the CSA deflection limit of L/80.  
Length of Span (Inches)/80 = Permissible Amount of Deflection (Inches)

**Light Weight | Predictable Strength | Proven Performance**

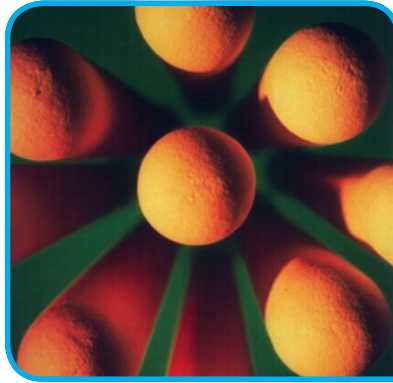
**Recognized as the premier scaffold plank for more than 35 years**



# CLEAR EDGE FILTRATION EXCELS AT TAKING OWNERSHIP OF YOUR PROCESS CHALLENGES AND PRESENTING INNOVATIVE SOLUTIONS.

An innovative solutions provider, Clear Edge Filtration is focused on three primary business sectors.

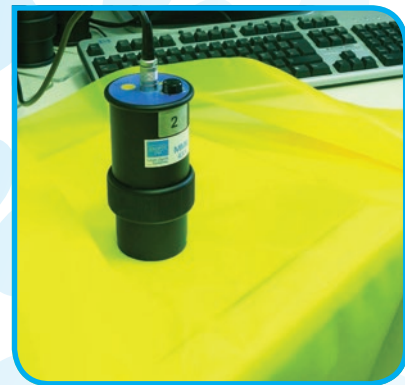
**CLEAR EDGE™**  
Filtration



## Filtration & Screening Products

An extensive range of wet and dry filtration and screening products and fabrics to meet the needs of diverse industry sectors.

- Cerafil™ Ceramic Elements
- Compact Filter Elements
- Dust Filter Bags
- Fluidized Bed Dryer Bags
- Filter Press Fabrics
- Tower Press Belts
- Horizontal Vacuum Belts
- Drum, Pan, Disc Covers
- Twin Wire Press Belts
- Pressure Leaf Covers
- Kelly Bags
- Candle Filter Bags
- Centrifuge Liners
- Vessel Bags
- Screening Fabrics
- Sifters & Connectors



## Process Belts

Metallic and synthetic wires and fabrics are engineered to perform in process critical conveying, forming, pressing, processing and liquid filtration applications.

- Woven Filter Belts
- Spiral Belts
- Metal Belts & Wires
- Engineered Belting Solutions

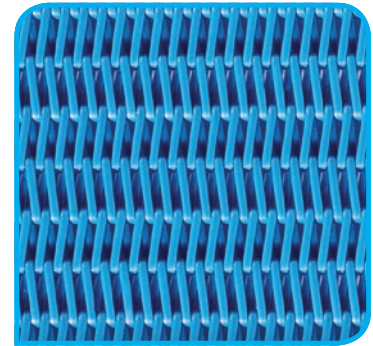
## Screen Print

VS-Monoprint™ mesh is the vital ingredient for color, vibrancy and precision in all screen printing applications.

# BREADTH OF APPLICATIONS KNOWLEDGE PLUS SUPERIOR TECHNICAL AND CUSTOMER SERVICE IS THE UNIQUE CLEAR EDGE FILTRATION ADVANTAGE.

CLEAR EDGE™  
Filtration

Clear Edge Filtration is a global technical leader in the world of filter media, industrial process filtration products and screen print solutions.



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**SLING-CHOKER**  
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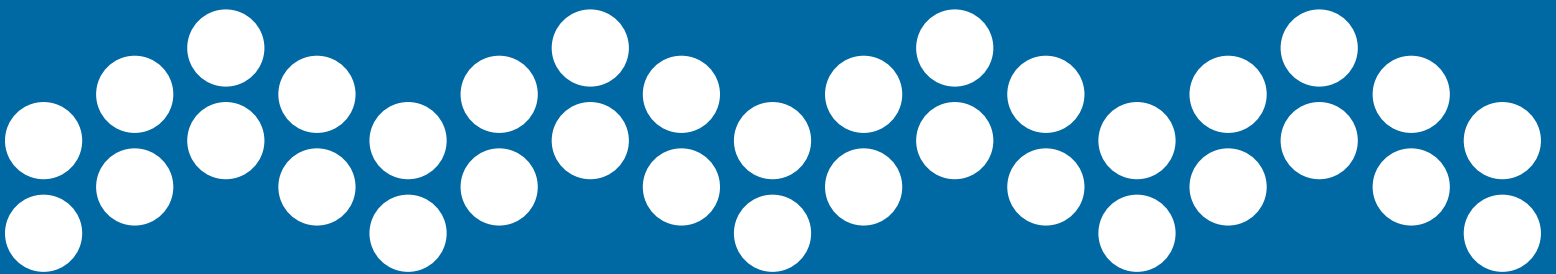
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