



**AMERICAN**

**INDUSTRIAL**

**LIFTING PRODUCTS**

**VOLUME 7**

**SLINGS**

**CARGO  
SECUREMENT**

**RIGGING  
HARDWARE**

**CHAIN**

[WWW.SAFESLINGS.COM](http://WWW.SAFESLINGS.COM)

**844-4SLINGS • 844-475-4647  
TX - 254-732-7572**





**Visit us at our Website**

## Safe Lift, Safe Life

American Industrial Lifting Products is an American company headquartered in Flat Rock, Michigan within Metro Detroit, as well as a manufacturing facility in Waco, Texas. We manufacture a full line of lifting slings and cargo securement made right here in the USA. We use only the best materials and technology in our fabrication process to create a product that, we as the manufacturer, can be proud of.

As the manufacturer, we can custom make slings and tie downs to your exact specifications. Most of our products ship within a few business days. From web slings to chain slings to auto hauling straps, we can make it. We sell through a network of distributors and resellers around the country that can help you find the best lifting and securement options available.

## Quality

Our commitment to quality is what separates us from the rest. We have focused our time and energy to build a state-of-the-art manufacturing facility. Our goal is to make the best and safest products around.

We back this commitment to quality with the foremost equipment to get the job done. Our manufacturing facility includes premier programmable cutting and marking machines to insure that exact specifications are met for every job. We have automatic industrial sewing machines and manual industrial sewing machines ran by our experienced operators. We possess horizontal and vertical load test machines to guarantee product safety in our fabrication process.

This technology, along with trained employees who care about their work, allow us to reach our goal.







**AMERICAN**

**INDUSTRIAL**

## TABLE OF CONTENTS

Company Intro.....	2	Wire Rope Bridle Slings.....	40
Table of Contents.....	3	Anchor Shackles .....	41
Sling Inspection.....	4-5	Cargo Securement Safety Information.....	42
Training Classes .....	6	Cargo Securement Removal Criteria.....	43
OSHA Safe Operating Practices .....	7	1 & 2 Inch Ratchet Straps.....	44
General Safety Information .....	8	Motorcycle Tiedowns.....	44
Product Groups .....	9	3 & 4 Inch Ratchet Straps.....	45
General Synthetic Sling Information .....	10	Winch Straps .....	46
Synthetic Sling Removal Criteria.....	11	E-Series Logistic Straps & Hardware.....	47
Triangle/Choker Type 1 .....	12	Auto Transit & Axle Straps .....	48
Triangle/Triangle Type 2.....	12	Tie Down Hardware .....	49-50
Triangle Hardware .....	13	Flatbed Accessories.....	51
Eye to Eye Flat Type 3 .....	14	Winch & Winch Bars.....	51
Eye to Eye Twisted Type 4.....	15	G70 Transport Chain.....	52
Endless Type 5 .....	16	Chain Load Binders .....	53
Reversed Eye Type 6 .....	17	Recovery & Tow Straps .....	54
Wide Body Slings .....	18	Manual Hoist Safety Information .....	55
Attached Eye Wide Body Slings.....	19	Hand Chain Hoists & Manual Trolleys .....	56
Web Bridle Slings.....	20	Lever Hoists & Beam Clamps .....	57
Web Ladder Slings .....	21	Conversion Charts – UPS Ground Delivery ....	58
Custom Web Slings.....	22	Sling & Rigging Inspection Form .....	59
Wear Pads.....	23		
Round Sling Safety Information .....	24		
Round Sling Removal Criteria .....	25		
Endless Round Slings .....	26		
Eye To Eye Round Slings .....	27		
Round Sling Bridles & Hooks.....	28		
Chain Sling Safety Information .....	29		
Chain Sling Removal Criteria .....	30		
General Chain Sling Information.....	31		
Chain Sling Types.....	32-33		
Magnet Chain Slings.....	33		
Bulk Chain .....	34		
Chain Hardware .....	34-37		
Wire Rope Sling Removal Criteria.....	38		
Wire Rope Slings.....	39		



HORIZONTAL TESTING MACHINE



## **SLING INSPECTION**

This is an overview of the sling inspection we offer to users of lifting slings and rigging hardware. We offer this sling inspection service to assist users in identifying when slings and related lifting hardware are not in safe working condition and need to be removed from service.

This inspection is required under The American Society of Mechanical Engineers (ASME) B30.9 standard for all synthetic slings including webbing (flat) and fiber yarns in a protective cover (round), alloy steel chain slings, wire rope slings, and metal mesh slings. There are three types of inspections referenced in this ASME standard.

**Initial Inspection** – Prior to use, all new, altered, modified, or repaired slings shall be inspected by a designated person to verify compliance with applicable safety standards.

**Frequent Inspection** – A visual inspection for damage shall be performed by the user or other designated person each day or shift that the sling is used. Slings that do not meet applicable safety standards shall be removed from service and not returned to service until approved by a qualified person. Written records are not required for frequent inspections.

**Periodic Inspection** – A complete inspection for damage of the sling shall be periodically performed by a qualified person to determine if the sling meets applicable safety standards. Periodic inspection intervals shall not exceed 1 year. A written record of the most recent periodic inspection shall be maintained and be available for examination.

Guidelines for the time intervals of the periodic inspection are:

- 1) Normal service – yearly
- 2) Severe service – monthly to quarterly
- 3) Special service – as recommended by a qualified person

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) Knowledge gained on the service life of slings used in similar circumstances

It is also required under Occupational Safety and Health Administration (OSHA) part 1910.184 to perform a thorough periodic inspection of alloy steel chain slings. OSHA requires maintaining a record of the most recent month in which each alloy steel chain sling was thoroughly inspected, and shall make such records available for examination.





**AMERICAN**

**INDUSTRIAL**

## **SLING INSPECTION (cont.)**

The products inspected during our standard sling inspection service are:

- Synthetic Web Slings
- Synthetic Round Slings
- Alloy Chain Slings
- Wire Rope Slings
- Metal Mesh Slings
- Sling Hardware such as hooks, links, etc
- Shackles
- Hoist Rings

The following products, by the request of the customer, can be inspected are:

- Certain Fall Protection such as harnesses, lanyards, etc
- Plate Clamps
- Eyebolts
- Manual hoists such as lever hoists and chain falls
- Web tie downs such as ratchet straps
- Binding chain such as grade 70 chain assemblies

American Industrial Lifting Products (AILP) will inspect the items in this section to the common industry guidelines or manufacturer's guidelines, if known. AILP will not disassemble any products in this section as part of our standard sling inspection service. Our inspector will give a thorough visual inspection to the best of his/her knowledge and include in the report the visual results. If requested by the customer, product in this section in need of disassembly may be taken to an AILP facility for a more detailed inspection, for a fee.

The following products are not inspected in our standard sling inspection service:

- Cranes such as bridge, gantry, jib, etc
- Crane cables
- Electrical hoisting units
- Winches
- Spreader Beams
- Specialty Lifting Devices such as vacuum lifters, c-hooks, pallet lifters, etc
- "Homemade" lifting devices
- Certain Fall Protection such as lifeline systems, scaffolding systems, etc

Some of the products in this section may be able to be inspected by AILP, but would be setup separately and quoted accordingly.

The inspection result, which states that a product is suitable for use, does not suggest the length of service for which the product will remain suitable for continued service. It is the responsibility of the users and their supervisors to review and revise their inspection frequency and requirements necessary to assure that only safe lifting products are being used between inspection intervals.



## TRAINING CLASSES

American Industrial Lifting Products has partnered up with Royal Arc Industrial Services to provide training courses that give true life scenarios and hands-on visuals for enhanced comprehension. Even the correct equipment becomes dangerous when used incorrectly. Learn the proper rigging procedures for a "Safe Lift, Safe Life."

These OSHA compliant training courses are available at our training centers or on-site at your facility.

### Basic Crane & Rigging Training

**Course Code: BCRT-101**

This course is our most popular and presents general safety instructions and operations including:

Qualifications required for crane operation	Using Hand Signals
Proper Crane Operations (Do's & Don'ts)	Proper usage of Crane Controls
Injury prevention	Inspection Requirements
Proper lift setup	Overview Rigging & Hitching
Basic Load Physics	Overview Chains & Slings
Crane Terminology	



IN HOUSE TRAINING



ON SITE TRAINING



### Our Full list of Course Offerings

Course Number	Description	Approx Class Length
OSHA-10	OSHA 10 HR	10 hours (2 days)
OSHA-30	OSHA 30 HR	30 hours (4 days)
BCRT-101	Basic Crane/Rigging Operator	6 hours (1 day)
ECT-102	Extensive Crane/Rigging	16 hours (2 days)
ICMT-103	Industrial Crane & Maintenance	24 hours (3 days)
ACMT-104	Advanced Crane/Rigging	24 hours (3 days)
MC-103	3 Day Mobile Crane	24 hours (3 days)
LOT-101	Lock Out / Tag Out	4 hours (1 day)
CSE-101	Confined Space Entry	4 hours (1 day)
FPT-101	Fall Protection	4 hours (1 day)
AFT-101	Arc Flash	4 hours (1 day)
ALT-101	Aerial Lift	4 hours (1 day)
NCCCO-MC	NCCCO Mobile Crane	24 hours (3 days)
NCCCO-RSP	NCCCO Qualified Rigger / Signalperson	16 hours (2 days)
<b>Course Add-Ons</b>		
TT	Train-the-Trainer	
HOI	Hands-On Instruction	

**Please contact customer service at (844)-4SLINGS for more information on any training course and we will be happy to help.**



**AMERICAN**

**INDUSTRIAL**

## **OSHA SAFE OPERATING PRACTICES (OSHA 1910.184)**

- Safe operating practices. Whenever any sling is used, the following practices shall be observed:
- Slings that are damaged or defective shall not be used.
- Slings shall not be shortened with knots or bolts or other makeshift devices.
- Sling legs shall not be kinked.
- Slings shall not be loaded in excess of their rated capacities.
- Slings used in a basket hitch shall have the loads balanced to prevent slippage.
- Slings shall be securely attached to their loads.
- Slings shall be padded or protected from the sharp edges of their loads.
- Suspended loads shall be kept clear of all obstructions.
- All employees shall be kept clear of loads about to be lifted and of suspended loads.
- Hands or fingers shall not be placed between the sling and its load while the sling is being tightened around the load.
- Shock loading is prohibited.
- A sling shall not be pulled from under a load when the load is resting on the sling.
- Employers must not load a sling in excess of its recommended safe working load as prescribed by the sling manufacturer on the identification markings permanently affixed to the sling.
- Employers must not use slings without affixed and legible identification markings.





## GENERAL SAFETY INFORMATION

### Sling Angle Reduction Factor & Tension Factor FOR BASKET & BRIDLE HITCHES

#### METHOD 1- DETERMINE REDUCTION TO RATED CAPACITY

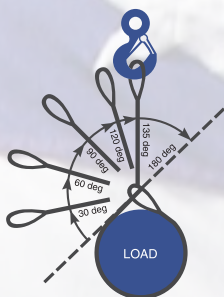
1. Calculate the Sling to Load Angle.
2. Determine the associated reduction factor (see chart).
3. Multiply the rated capacity for the basket hitch as indicated on the sling tag by the reduction factor.
4. The result is the safe capacity designation for that sling in that rigging configuration.

Sling Angle - Reduction Factor & Tension Factor													
Reduction Factor	1.000	0.996	0.985	0.966	0.940	0.906	0.866	0.819	0.766	0.707	0.643	0.574	0.500
Sling to Load Angle	90°	85°	80°	75°	70°	65°	60°	55°	50°	45°	40°	35°	30°
Tension Factor	1.000	1.004	1.015	1.035	1.064	1.104	1.155	1.221	1.305	1.414	1.555	1.742	2.000

#### METHOD 2- DETERMINE INCREASED TENSION/EFFECTIVE WEIGHT OF THE LOAD

1. Calculate the Sling to Load Angle.
2. Determine the associated tension factor (see chart).
3. Multiply the load weight by the tension factor.
4. The result is the "Effective Weight" of the load in that rigging configuration- be sure to select a sling with adequate capacity. (A longer sling will increase the Sling to Load angle, thereby reducing the tension factor/effective weight of the load.)

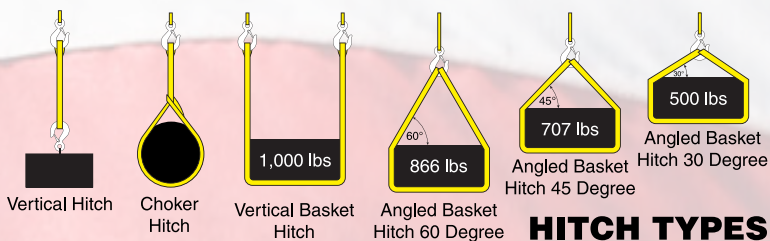
Angle of Choke Degree	Rated Capacity
Over 120	100%
90-120	87%
60-89	74%
30-59	62%
0-29	49%



#### FOR CHOKER HITCHES

When a load is rigged using a choker hitch- if the choke angle is less than 120°, then the rated capacity of the sling must be reduced.

- 1) Calculate the angle of choke (see illustration).
- 2) Determine the associated reduction factor (see chart).
- 3) Multiply the rated capacity for the choker hitch as indicated on the sling tag by the reduction factor.
- 4) The result is the safe capacity rating for that sling in the rigging configuration.



#### HITCH TYPES





**AMERICAN**

**INDUSTRIAL**

## PRODUCT GROUPS



### Web Slings

A Flat Sling made of polyester webbing. These versatile, economical slings are lighter for easier handling.



### Round Slings

Round Slings are made of polyester core yarn covered by a double jacket tube.



### Chain Slings

Chain Slings are made of alloy steel, which allows for use under high temperatures or rugged conditions.

### Wire Rope Slings

Wire Rope Slings feature 6x19 or 6x37 construction, extra improved plow steel wire rope with an independent wire rope core.

### Cargo Securement

Tie down assemblies are easy to use and quickly tighten to the contour of any load. The assemblies are fabricated with polyester webbing and treated for abrasion resistance.

### Wear Pads

Wear Pads can be fabricated as sliding sleeves or quick sleeves and give the sling and/or load extra protection from cutting and abrasion. Wear Pads can be made from a variety of materials including Leather, Polyester, Felt and Cordura.





## GENERAL SYNTHETIC SLING INFORMATION

All American Industrial slings meet or exceed ASME B30.9 and OSHA standards and regulations.

Chemical Factor Chart		
	Nylon	Polyester
Maximum Temp. (F)	194°	194°
Stretch at Rated Load	8 - 10%	5 - 7%
Acids	NO	*
Alcohols	OK	OK
Aldehydes	OK	NO
Strong Alkalis	OK	**
Bleaching Agents	NO	OK
Dry Cleaning Solvents	OK	OK
Ethers	OK	NO
Halogenated Hydro-Carbons	OK	OK
Hydro-Carbons	OK	OK
Ketones	OK	OK
Oils Crude	OK	OK
Oils Lubricating	OK	OK
Soap & Detergents	OK	OK
Water & Seawater	OK	OK
Weak Alkalis	OK	OK
* Disintegrated by concentrated sulfuric acid. ** Degraded by strong alkalis at elevated temperatures.		

### Premium Tagging System



#### TAG FEATURES:

- High Performance Polymer Window Designed to outlast the Competition.
- Laser Printed For Maximum Readability
- Continuously Sewn for Maximum Durability
- UV Resistant
- Private Labeling Available

### Web Sling Part Number Breakdown

**EE 2 - 9 02 P x 8**

**TYPE OF SLING**  
TC, TCA, TT, TTA,  
EE, EET, EN, RE,  
WB, AWB,  
SOS, DOS, GOS, LS

**WEBBING STRENGTH**  
7 = Light Duty  
9 = Heavy Duty

**MATERIAL**  
P=Polyester  
PEP = Polyester Edge Protect  
Nylon (Leave Blank)  
EP=Nylon Edge Protect

**NUMBER BODY PLYS**  
1, 2, 3, 4

**WEB WIDTH**  
1", 2", 3", 4", 5"  
6", 8", 10", 12"

**LENGTH**  
Any length desired for the application.

NOTE: 2 letter code (AA, AB, AC, etc...) after material code will be used to specify custom slings.



## WEB SLING REMOVAL CRITERIA

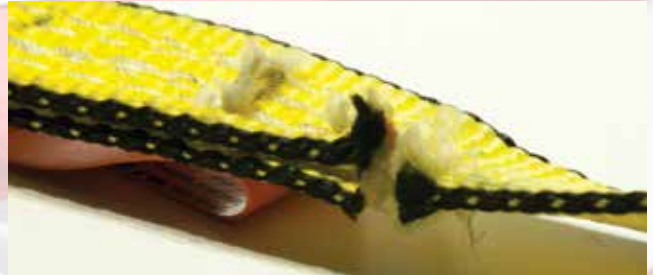
Synthetic Web Slings (ASME B30.9) - A synthetic web sling shall be removed from service if conditions such as the following are present:

1. Missing or illegible sling identification.
2. Acid or caustic burns.
3. Melting or charring of any part of the sling.
4. Holes, tears, cuts, or snags.
5. Broken or worn stitching in load bearing splices.
6. Excessive abrasive wear.
7. Knots in any part of the sling.
8. Discoloration and brittle or stiff areas on any part of the sling, which may mean chemical or ultraviolet/sunlight damage.
9. Fittings that are pitted, corroded, cracked, bent, twisted, gouged, or broken.
10. For hooks, removal criteria as stated in ASME B30.10
11. Other conditions, including visible damage, that cause doubt as to the continued use of the sling.

### MELTING OR CHARRING



### CUTTING



### KNOTS



### ABRASIONS OR PUNCTURE





## TRIANGLE/CHOKER • TRIANGLE/TRIANGLE

Part Number	Web Width (in)	# of Plies	Working Load Limit (LBS)		
			Vertical	Choker	V. Basket
TC1-902P	2	1	3,200	2,560	6,400
TC2-902P	2	2	6,400	5,120	12,800
TC1-903P	3	1	4,800	3,840	9,600
TC2-903P	3	2	8,800	7,040	17,600
TC1-904P	4	1	6,400	5,120	12,800
TC2-904P	4	2	11,500	9,200	23,000
TC1-906P	6	1	9,600	7,680	19,200
TC2-906P	6	2	17,000	13,600	34,000
TC1-908P	8	1	12,800	10,240	25,600
TC2-908P	8	2	22,400	17,920	44,800
TC1-910P	10	1	16,000	12,800	32,000
TC2-910P	10	2	25,000	20,000	50,000
TC1-912P	12	1	19,000	15,200	38,000
TC2-912P	12	2	30,000	24,000	60,000

### Triangle-Choker (TC or TCA) Type 1

This sling utilizes steel or aluminum end fittings to allow the sling to be easily used in a basket or choker configuration. These fittings help reduce wear and allow easier connection to hooks.

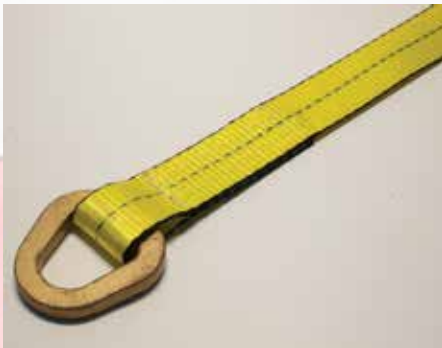
*When ordering specify:  
Length, Steel or Aluminum Fittings  
Length is measured  
bearing point to bearing point*



### Triangle-Triangle (TT or TTA) Type 2

This sling utilizes steel or aluminum end fittings and is most often used in a basket configuration, but can also be used in a vertical hitch. They cannot be used as a choker. These fittings help reduce wear and allow easier connection to hooks.

*When ordering specify  
Length, Steel or Aluminum Fittings  
Length is measured  
bearing point to bearing point.*



Part Number	Web Width (in)	# of Plies	Working Load Limit (LBS)		
			Vertical	Choker	V. Basket
TT1-902P	2	1	3,200	2,560	6,400
TT2-902P	2	2	6,400	5,120	12,800
TT1-903P	3	1	4,800	3,840	9,600
TT2-903P	3	2	8,800	7,040	17,600
TT1-904P	4	1	6,400	5,120	12,800
TT2-904P	4	2	11,500	9,200	23,000
TT1-906P	6	1	9,600	7,680	19,200
TT2-906P	6	2	17,000	13,600	34,000
TT1-908P	8	1	12,800	10,240	25,600
TT2-908P	8	2	22,400	17,920	44,800
TT1-910P	10	1	16,000	12,800	32,000
TT2-910P	10	2	25,000	20,000	50,000
TT1-912P	12	1	19,000	15,200	38,000
TT2-912P	12	2	30,000	24,000	60,000

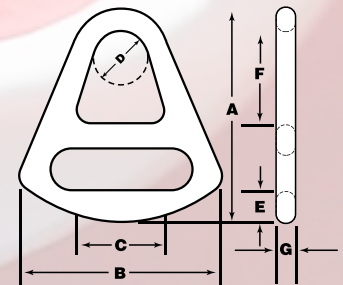


**AMERICAN****INDUSTRIAL**

## TRIANGLE HARDWARE

**Triangle Choker - Steel**

Part Number	Inches							Weight (lbs)	Work Load Limit (lbs)
	A	B	C	D	E	F	G		
NSC-2	6	5 1/2	2 1/8	2	1 1/16	2 1/4	1/2	2.00	6,600
NSC-3	7 1/12	7	3 1/8	2	1 3/16	3 3/16	1/2	2.90	8,900
NSC-4	9 5/16	9 9/16	4 1/8	2 1/2	1 13/16	3 1/2	1/2	6.00	11,600
NSC-5	10 9/16	11 5/8	5 1/8	2 3/4	2 1/16	4 7/16	1/2	7.00	14,000
NSC-6	12	12 3/4	6 1/8	2 7/8	2 11/16	4 9/16	1/2	9.80	16,800

**PLEASE NOTE - 2-PLY DIMENSIONS & DATA GIVEN****CHOKER****Triangle Choker - Aluminum**

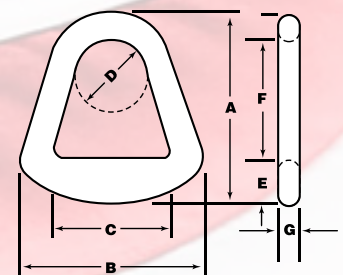
Part Number	Inches							Weight (lbs)	Work Load Limit (lbs)
	A	B	C	D	E	F	G		
FAC-2	6 1/8	5 1/4	2 1/8	1 3/4	15/16	2 3/8	9/16	0.73	3,360
FAC-3	7 1/2	7 1/8	3 1/8	2	1 1/8	3 5/16	5/8	1.30	5,000
FAC-4	8 3/4	8 3/4	4 1/8	2 3/8	1 7/16	4	11/16	1.90	6,700
FAC-6	11 5/16	11 3/4	6 1/8	3 1/8	1 3/4	5 1/2	15/16	5.10	9,700

**Triangle - Steel**

Part Number	Inches							Weight (lbs)	Work Load Limit (lbs)
	A	B	C	D	E	F	G		
NST-2	3 7/8	3 3/4	2 1/8	1 3/4	1	2 5/16	1/2	1.00	6,600
NST-3	5 3/16	5	3 1/16	2	1 1/4	3 5/16	1/2	1.60	8,900
NST-4	6 7/16	6 5/8	4 5/16	2	1 5/8	3 7/8	1/2	2.70	11,600
NST-5	7 7/8	7 15/16	5 3/16	2 1/2	2	4 15/16	1/2	3.50	14,000
NST-6	9	9 1/4	6 1/8	2 3/4	2 5/16	5 9/16	1/2	5.30	16,800

**PLEASE NOTE - 2-PLY DIMENSIONS & DATA GIVEN****Triangle - Aluminum**

Part Number	Inches							Weight (lbs)	Work Load Limit (lbs)
	A	B	C	D	E	F	G		
FAT-2	4	3 5/8	2 3/4	1 3/4	15/16	2 3/8	9/16	0.31	3,360
FAT-3	5 3/4	5	3 1/4	2	1 3/16	3 5/16	5/8	0.75	5,000
FAT-4	6 3/4	6 5/8	4 3/8	2 3/8	1 7/16	4	11/16	1.10	6,700
FAT-6	8 9/16	8 7/8	6 3/8	3 1/8	1 3/4	5 1/2	15/16	2.70	9,700

**TRIANGLE**



## EYE & EYE FLAT (EE) Type 3

This is one of the most popular sling types and can be used in all three types of hitches. Eyes are formed as the material is folded back and sewn flat to the sling body.



Part Number	Web Width (in)	# of Plies	Working Load Limit (LBS)		
			Vertical	Choker	V. Basket
EE1-901P	1	1	1,600	1,280	3,200
EE2-901P	1	2	3,200	2,560	6,400
EE4-901P	1	4	6,400	5,120	12,800
EE1-902P	2	1	3,200	2,560	6,400
EE2-902P	2	2	6,400	5,120	12,800
EE4-902P	2	4	11,500	9,200	23,000
EE1-903P	3	1	4,800	3,840	9,600
EE2-903P	3	2	8,800	7,040	17,600
EE4-903P	3	4	17,000	13,600	34,000
EE1-904P	4	1	6,400	5,120	12,800
EE2-904P	4	2	11,500	9,200	23,000
EE4-904P	4	4	22,800	18,240	45,600
EE1-906P	6	1	9,600	7,680	19,200
EE2-906P	6	2	17,000	13,600	34,000
EE4-906P	6	4	30,000	24,000	60,000
EE1-908P	8	1	12,800	10,240	25,600
EE2-908P	8	2	22,400	17,920	44,800
EE4-908P	8	4	40,000	32,000	80,000
EE1-910P	10	1	16,000	12,800	32,000
EE2-910P	10	2	25,000	20,000	50,000
EE4-910P	10	4	50,000	40,000	100,000
EE1-912P	12	1	19,000	15,200	38,000
EE2-912P	12	2	30,000	24,000	60,000
EE4-912P	12	4	60,000	48,000	120,000
<b>NOTE: Folded Eyes Standard on 3 inch to 12 inch slings; 3 ply slings available</b>					





**AMERICAN**

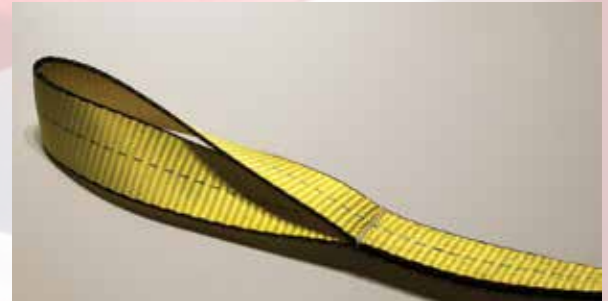
**INDUSTRIAL**

## EYE & EYE TWISTED (EET) TYPE 4

Twisted eye slings are designed specifically to improve use of the choker hitch, but can be used in any type of hitch. Eyes are formed by turning the webbing 180 degrees before sewing to sling body.

Part Number	Web Width (in)	# of Plies	Working Load Limit (LBS)		
			Vertical	Choker	V. Basket
EET1-901P	1	1	1,600	1,280	3,200
EET2-901P	1	2	3,200	2,560	6,400
EET4-901P	1	4	6,400	5,120	12,800
EET1-902P	2	1	3,200	2,560	6,400
EET2-902P	2	2	6,400	5,120	12,800
EET4-902P	2	4	11,500	9,200	23,000
EET1-903P	3	1	4,800	3,840	9,600
EET2-903P	3	2	8,800	7,040	17,600
EET4-903P	3	4	17,000	13,600	34,000
EET1-904P	4	1	6,400	5,120	12,800
EET2-904P	4	2	11,500	9,200	23,000
EET4-904P	4	4	22,800	18,240	45,600
EET1-906P	6	1	9,600	7,680	19,200
EET2-906P	6	2	17,000	13,600	34,000
EET4-906P	6	4	30,000	24,000	60,000
EET1-908P	8	1	12,800	10,240	25,600
EET2-908P	8	2	22,400	17,920	44,800
EET4-908P	8	4	40,000	32,000	80,000
EET1-910P	10	1	16,000	12,800	32,000
EET2-910P	10	2	25,000	20,000	50,000
EET4-910P	10	4	50,000	40,000	100,000
EET1-912P	12	1	19,000	15,200	38,000
EET2-912P	12	2	30,000	24,000	60,000
EET4-912P	12	4	60,000	48,000	120,000

**NOTE: Folded Eyes Standard on 3 inch to 12 inch slings; 3 ply slings available**



EYE LENGTH CHART								
# of Plies	Sling Width (inches)							
	1	2	3	4	6	8	10	12
1	8	10	11	12	16	20	24	24
2	8	10	11	12	16	20	24	24
3	10	12	14	16	18	24	24	24
4	10	12	14	16	18	24	24	24

EYE WIDTH CHART								
# of Plies	Sling Width (inches)							
	1	2	3	4	6	8	10	12
1	1	2	1 1/2	2	3	4	5	6
2	1	2	1 1/2	2	3	4	5	6
3	1	2	1 1/2	2	3	4	5	6
4	1	2	1 1/2	2	3	4	5	6



## ENDLESS (EN) TYPE 5

This sling is versatile with an endless design for stronger load ratings. The sling can be used with any type of hitch.



Part Number	Web Width (in)	# of Plies	Working Load Limit (LBS)		
			Vertical	Choker	V. Basket
EN1-901P	1	1	3,200	2,560	6,400
EN2-901P	1	2	6,200	4,960	12,400
EN4-901P	1	4	10,000	8,000	20,000
EN1-902P	2	1	6,400	5,120	12,800
EN2-902P	2	2	12,400	9,920	24,800
EN4-902P	2	4	19,800	15,840	39,600
EN1-903P	3	1	8,800	7,040	17,600
EN2-903P	3	2	16,300	13,040	32,600
EN4-903P	3	4	26,700	21,360	53,400
EN1-904P	4	1	11,500	9,200	23,000
EN2-904P	4	2	20,700	16,560	41,400
EN4-904P	4	4	35,600	28,480	71,200
EN1-906P	6	1	16,500	13,200	33,000
EN2-906P	6	2	28,600	22,880	57,200
EN4-906P	6	4	50,500	40,400	101,000
EN1-908P	8	1	19,200	15,360	38,400
EN2-908P	8	2	30,700	24,560	61,400
EN4-908P	8	4	57,600	46,080	115,200
EN1-910P	10	1	22,400	17,920	44,800
EN2-910P	10	2	33,600	26,880	67,200
EN4-910P	10	4	67,200	53,760	134,400
EN1-912P	12	1	26,900	21,520	53,800
EN2-912P	12	2	37,600	30,080	75,200
EN4-912P	12	4	80,700	64,560	161,400
3 PLY SLINGS AVAILABLE					





**AMERICAN**

**INDUSTRIAL**

## REVERSED EYE (RE) TYPE 6

The reversed eye sling is a modified rugged endless sling, reinforced and protected on all sides including both sides of body and eyes with Cordura®. Superior choke hitch grips load securely.

*When ordering specify Length.*



Part Number	Body Width (in)	# of Plies	Eye Width (in)	Eye Length (in)	Working Load Limit (lbs)		
					Vertical	Choker	V. Basket
RE1-902P	2	1	1	9	4,500	3,600	9,000
RE2-902P	2	2	1	9	6,500	5,200	13,000
RE1-904P	4	1	2	12	7,700	6,200	15,400
RE2-904P	4	2	2	12	13,000	10,400	26,000
RE1-906P	6	1	3	15	11,000	8,800	22,000
RE2-906P	6	2	3	15	20,000	16,000	40,000





## WIDE BODY SLINGS



Wide Body Slings are designed for use in stabilizing and protecting loads over a wide surface area.

Part Number	Body Width (in)	# of Plies	Eye Length (in)	Min Sling Length (in)	V. Basket - Working Load Limit (LBS)
WB1-906P	6	1	9	40	15,400
WB1-908P	8	1	12	45	20,400
WB1-912P	12	1	18	60	30,800
WB1-916P	16	1	24	72	38,000
WB1-920P	20	1	30	88	45,000
WB1-924P	24	1	36	100	52,000
WB2-906P	6	2	9	40	28,600
WB2-908P	8	2	12	45	38,000
WB2-912P	12	2	18	60	57,200
WB2-916P	16	2	24	72	75,000
WB2-920P	20	2	30	88	90,000
WB2-924P	24	2	36	100	110,000





**AMERICAN**

**INDUSTRIAL**

## ATTACHED EYE WIDE BODY SLING



Attached Eye Wide Body Slings special eye construction allows the slings to be used with small hooks. The combination of small eye widths and wide body widths provide for efficient handling of light loads.

Part Number	Body Width (in)	Eye Length (in)	Eye Width (in)	Eye Plies	Min Sling Length (in)	V. Basket - Working Load Limit (LBS)
1AWB2-906P	6	6	1	2	50	6,000
1AWB2-908P	8	8	1	2	50	6,000
1AWB2-912P	12	12	1	2	56	6,000
2AWB2-916P	16	12	2	2	56	12,000
2AWB2-920P	20	18	2	2	68	12,000
2AWB2-924P	24	18	2	2	72	12,000
2AWB2-930P	30	22	2	2	74	12,000
2AWB2-936P	36	27	2	2	84	12,000
2AWB2-948P	48	36	2	2	102	12,000

## WEB BRIDLE SLINGS

Bridle slings feature combination of links and hook hardware. Hardware connections provide for the efficient handling of loads with fixed lifting points.



Part Number	Web Width (in)	# of Plies	Number of Legs	Capacity (lbs.) @ 90°	Oblong Link (Dia.)	Sling Hook Size	Eye Dimensions (W X L) (in)
SOS-EE1-901P	1	1	1	1,600	5/8	1 1/2T (7/32)	N/A
SOO-EE1-901P	1	1	1	1,600	5/8	N/A	N/A
SOE-EE1-901P	1	1	1	1,600	5/8	N/A	1 X 8
SOS-EE2-901P	1	2	1	3,100	5/8	1 1/2T (7/32)	N/A
SOO-EE2-901P	1	2	1	3,100	5/8	N/A	N/A
SOE-EE2-901P	1	2	1	3,100	5/8	N/A	1 X 8
SOS-EE2-902P	2	2	1	6,400	3/4	4.5T (3/8)	N/A
SOO-EE2-902P	2	2	1	6,400	3/4	N/A	N/A
SOE-EE2-902P	2	2	1	6,400	3/4	N/A	2 X 10

Part Number	Web Width (in)	# of Plies	Number of Legs	Capacity (lbs.) @ 60°	Capacity (lbs.) @ 45°	Capacity (lbs.) @ 30°	Oblong Link (Dia.)	Sling Hook Size	Eye Dimensions (W X L) (in)
DOS-EE1-901P	1	1	2	2,770	2,260	1,600	3/4	1-1/2T (7/32)	N/A
DOO-EE1-901P	1	1	2	2,770	2,260	1,600	3/4	N/A	N/A
DOE-EE1-901P	1	1	2	2,770	2,260	1,600	3/4	N/A	1 X 8
DOS-EE2-901P	1	2	2	5,540	4,520	3,200	3/4	2.75T (9/32)	N/A
DOO-EE2-901P	1	2	2	5,540	4,520	3,200	3/4	N/A	N/A
DOE-EE2-901P	1	2	2	5,540	4,520	3,200	3/4	N/A	1 X 8
DOS-EE2-902P	2	2	2	10,300	8,400	6,000	1	4.5T (3/8)	N/A
DOO-EE2-902P	2	2	2	10,300	8,400	6,000	1	N/A	N/A
DOE-EE2-902P	2	2	2	10,300	8,400	6,000	1	N/A	2 X 10

Part Number	Web Width (in)	# of Plies	Number of Legs	Capacity (lbs.) @ 60°	Capacity (lbs.) @ 45°	Capacity (lbs.) @ 30°	Top Oblong Link (Dia.)	Master Sub Link (Dia.)	Bottom Oblong Link (Dia.)	Sling Hook Size	Eye Dimensions (W X L) (in)
QOS-EE1-901P	1	1	4	5,540	4,520	3,200	3/4	1/2	5/8	1-1/2T (7/32)	N/A
QOO-EE1-901P	1	1	4	5,540	4,520	3,200	3/4	1/2	5/8	N/A	N/A
QOE-EE1-901P	1	1	4	5,540	4,520	3,200	3/4	1/2	5/8	N/A	1 X 8
QOS-EE2-901P	1	2	4	10,300	8,400	6,000	3/4	1/2	5/8	2.75T (9/32)	N/A
QOO-EE2-901P	1	2	4	10,300	8,400	6,000	3/4	1/2	5/8	N/A	N/A
QOE-EE2-901P	1	2	4	10,300	8,400	6,000	3/4	1/2	5/8	N/A	1 X 8
QOS-EE2-902P	2	2	4	20,700	16,900	12,000	1	3/4	5/8	4.5T (3/8)	N/A
QOO-EE2-902P	2	2	4	20,700	16,900	12,000	1	3/4	5/8	N/A	N/A
QOE-EE2-902P	2	2	4	20,700	16,900	12,000	1	3/4	5/8	N/A	2 X 10





**AMERICAN**

**INDUSTRIAL**

## WEB LADDER SLING

Part Number	Overall Width (in)	Length (ft)	Ladder Spacing (in)	V. Basket Capacity (lbs.)
2LS1-908PX8	8	8	12	12,800
2LS1-908PX12	8	12	12	12,800
2LS1-908PX16	8	16	12	12,800
2LS1-908PX20	8	20	12	12,800
2LS1-912PX8	12	8	12	12,800
2LS1-912PX12	12	12	12	12,800
2LS1-912PX16	12	16	12	12,800
2LS1-912PX20	12	20	12	12,800
2LS1-916PX8	16	8	12	12,800
2LS1-916PX12	16	12	12	12,800
2LS1-916PX16	16	16	12	12,800
2LS1-916PX20	16	20	12	12,800



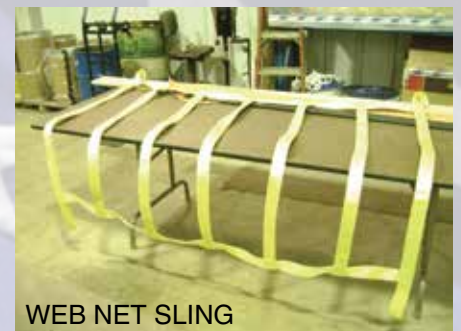
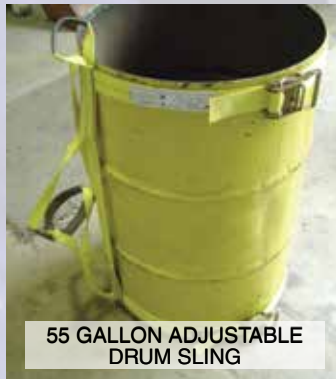
Ladder slings provide support to a wider area for better balance on large loads. Ladder slings are used in basket hitch applications only.

Part Number	Overall Width (in)	Length (ft)	Ladder Spacing (in)	V. Basket Capacity (lbs.)
4LS1-912PX8	12	8	12	23,000
4LS1-912PX12	12	12	12	23,000
4LS1-912PX16	12	16	12	23,000
4LS1-912PX20	12	20	12	23,000
4LS1-916PX8	16	8	12	23,000
4LS1-916PX12	16	12	12	23,000
4LS1-916PX16	16	16	12	23,000
4LS1-916PX20	16	20	12	23,000



## CUSTOM WEB SLINGS

Custom web slings are developed for unique applications and help eliminate unsafe lifting practices.







AMERICAN

INDUSTRIAL

## WEAR PADS

### Wear Pad Part Number Breakdown

**CWP** **V2** **3** x **4**

#### TYPE OF WEAR PAD

PWP, CWP, LWP, FWP  
EG, LDWP, HDWP

#### PAD WIDTH

2", 3", 4", 5"  
6", 8", 10", 12"

#### VELCRO OPTION

V1, V2

#### PAD LENGTH

Any length desired  
for the application.

#### Polyester

Extra layer of protection  
*Model PWP*

#### Felt

Good cut resistance.  
*Model FWP*

#### Velcro

Allows for easy addition  
and removal of wear pad,  
1 or 2 inch  
*Model V1 & V2*

#### Cordura®

Great protection from  
abrasive surfaces  
*Model CWP*

#### Dyneema®

Superior Strength using  
the world's strongest fiber.  
Best option for cut &  
abrasion resistance. Light  
Duty or Heavy Duty  
*Model LDWP or HDWP*

#### Leather

Very rugged, good cut  
resistance. Velcro not  
available with leather.  
*Model LWP*

#### Edge Guard

Helps protect the edges of  
the sling  
*Model EG*



EDGE GUARD



SEWN BUFFER PAD



VELCRO PAD



VELCRO PAD



INSIDE EYE  
BUFFER



WRAPPED EYE



TUBULAR WEAR PAD



### ⚠ WARNING

The top cause of synthetic sling failure is cutting. When a sling is cut, property damage and personal injury or death could result. Wear pads can help reduce this problem by supplying a buffer between the load edge and the sling. Be sure to inspect wear pads for damage. If the wear pad is damaged, the sling may also be damaged.

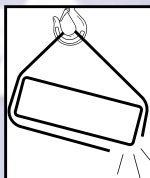


## ROUND SLING SAFETY INFORMATION

### Protect Sling from Damage

ALWAYS protect roundslings from being cut or damaged by corners, edges and protrusions using protection sufficient for each application. Do not ignore warning signs of misuse. Cut marks detected during any sling inspection serve as a clear signal that sling protection must be added or improved.

#### Exposure of slings to edges



#### WARNING

Exposure of roundslings to edges with a radius that is too small can cause sling failure and loss of load

Edges do not need to be “sharp” to cause failure of the sling. Chamfering or cutting off edges is not an acceptable substitute for fully rounding the edges to the minimum radius. Slings can also be damaged from contact with edges or burrs at the sling connection.



### Sling Hardware and Connections

Connection surfaces must be smooth to avoid abrading or cutting roundslings. Roundslings can also be damaged or weakened by excessive compression between the sling and the connection points if the size of the attachment hardware or connection area is not large enough to avoid this damage.



Select and use proper connection hardware that conforms to the size requirements listed for choker and vertical hitches, or for basket hitches in the charts below.

#### Minimum hardware dimensions suitable for use with roundslings.

Size	Single Part		Double Part	
	Min. Stock Dia (in)	Min. Width (in)	Min. Stock Dia (in)	Min. Width (in)
EN30	7/16	1	9/16	1 3/8
EN60	5/8	1 3/8	7/8	1 7/8
EN90	3/4	1 3/4	1 1/16	2 3/8
EN120	7/8	1 7/8	1 1/4	2 1/2
EN150	1	2	1 3/8	2 7/8
EN180	1 1/8	2 1/8	1 5/8	3
EN240	1 3/16	2 5/8	1 5/8	3 3/4
EN360	1 1/2	3 1/4	2	4 1/2
EN600	2	4	2 3/4	5 5/8
EN800	2 1/8	4 5/8	3	6 1/2
EN1000	2 1/2	5 1/4	3 1/2	7 3/8



## ROUND SLING REMOVAL CRITERIA

Polyester Round Slings (ASME B30.9) - A synthetic round sling shall be removed from service if conditions such as the following are present:

1. Missing or illegible sling identification.
2. Acid or caustic burns.
3. Evidence of heat damage.
4. Holes, tears, cuts, abrasive wear, or snags that expose the core yarns.
5. Broken or damaged core yarns.
6. Weld splatter that exposes core yarns.
7. Round slings that are knotted.
8. Discoloration and brittle or stiff areas on any part of the slings, which may mean chemical or ultraviolet/sunlight damage.
9. Fittings that are pitted, corroded, cracked, bent twisted, gouged, or broken.
10. For hooks, removal criteria as stated in ASME B30.10
11. Other conditions, including visible damage, that cause doubt as to the continued use of the sling.

**Melting or Charring**



**Illegible Tag**



**Knots**



**Snags & Punctures**



## ENDLESS ROUND SLINGS



Roundslings are lightweight and high capacity alternative to heavier wire rope and chain. They are flexible and easy to handle with a seamless tubular construction. Capacities are classified by color code for quick identification of capacity.

### Round Sling Part Number Breakdown

**EN** **60** x **10**

#### TYPE OF SLING

EN, EE, SOS,  
DOS, GOS

#### SLING SIZE CODE

30, 60, 90, 120  
150, 180, 240  
300, 360, 400  
600, 800, 1000

#### LENGTH

3 Foot Through  
20 Foot Standard



NOTE: 2 letter code (AA, AB, AC, etc...) after size code will be used to specify custom slings.

Part Number	Color Code	Approx. Body Dia. (in)	Minimum Length (ft)	Working Load Limit (lbs.)		
				Vertical	Choker	V. Basket
EN30	Purple	5/8	2	2,600	2,100	5,200
EN60	Green	7/8	2	5,300	4,200	10,600
EN90	Yellow	1 1/8	3	8,400	6,700	16,800
EN120	Tan	1 1/8	3	10,600	8,500	21,200
EN150	Red	1 3/8	3	13,200	10,600	26,400
EN180	White	1 3/8	3	16,800	13,400	33,600
EN240	Blue	1 3/4	3	21,200	17,000	42,400
EN300	Orange	2	6	25,000	20,000	50,000
EN360	Orange	2 1/4	6	31,000	24,800	62,000
EN400	Orange	2 1/2	6	40,000	32,000	80,000
EN600	Orange	2 3/4	8	53,000	42,400	106,000
EN800	Orange	3 3/4	8	66,000	52,800	132,000
EN1000	Orange	4 3/4	8	90,000	72,000	180,000

When ordering specify Length • Features Double Wall Jacket • Design factor is minimum 5 to 1





**AMERICAN**

**INDUSTRIAL**

## EYE TO EYE ROUND SLINGS

All the features of an endless but with an additional jacket creating two color coded lifting eyes. The protective jacket can extend the life of the sling if abrasion to the body is a problem.



Part Number	Color Code	Body Width at Load (in)	Minimum Length (ft)	Standard Eye Length (in)	Working Load Limit (lbs.)		
					Vertical	Choker	V. Basket
EE30	Purple	2 1/4	4	10	2,600	2,100	5,200
EE60	Green	2 1/2	4	10	5,300	4,200	10,600
EE90	Yellow	2 1/2	4	12	8,400	6,700	16,800
EE120	Tan	3 1/2	5	12	10,600	8,500	21,200
EE150	Red	3 1/2	5	14	13,200	10,600	26,400
EE180	White	3 3/4	7	16	16,800	13,400	33,600
EE240	Blue	4 1/4	7	16	21,200	17,000	42,400
EE300	Orange	5	7	20	25,000	20,000	50,000
EE360	Orange	6	7	20	31,000	24,800	62,000

**When ordering specify Length • Features Double Wall Jacket • Design factor is minimum 5 to 1**

## ROUND SLING BRIDLES & HOOKS

Bridle slings feature combinations of links and hook hardware. Hardware connections provide for the efficient handling of loads with fixed lifting points.

Part Number	Color Code	Number of Legs	Minimum Reach (ft)	Capacity (lbs.)		Oblong Link Dia. (in.)	Sling Hook Size
				Vertical	Basket		
SOS-EN30	Purple	1	4	2,600	5,200	5/8	2.75T (9/32)
SOS-EN60	Green	1	4	5,300	10,600	3/4	4.5T (3/8)
SOS-EN90	Yellow	1	4	8,400	16,800	7/8	7T (1/2)
SOS-EN120	Tan	1	4	10,600	21,200	7/8	11T (5/8)
SOS-EN150	Red	1	5	13,200	26,400	1	11T (5/8)



Part Number	Color Code	Number of Legs	Minimum Reach (ft)	Capacity (lbs.)			Oblong Link Dia. (in.)	Sling Hook Size
				60°	45°	30°		
DOS-EN30	Purple	2	4	4,500	3,600	2,600	3/4	2.75T (9/32)
DOS-EN60	Green	2	4	9,100	7,400	5,300	7/8	4.5T (3/8)
DOS-EN90	Yellow	2	4	14,500	11,800	8,400	1	7T (1/2)
DOS-EN120	Tan	2	5	18,300	14,900	10,600	1 1/4	11T (5/8)
DOS-EN150	Red	2	5	22,800	18,600	13,200	1 1/2	11T (5/8)



Part Number	Color Code	Number of Legs	Minimum Reach (ft)	Capacity (lbs.)			Oblong Link Dia. (in.)	Sling Hook Size
				60°	45°	30°		
QOS-EN30	Purple	4	4	9,000	7,300	5,200	1	2.75T (9/32)
QOS-EN60	Green	4	4	18,300	14,900	10,600	1 1/4	4.5T (3/8)
QOS-EN90	Yellow	4	5	29,100	23,700	16,800	1 1/2	7T (1/2)
QOS-EN120	Tan	4	5	36,700	29,900	21,200	1 3/4	11T (5/8)
QOS-EN150	Red	4	5	45,700	37,300	26,400	2	11T (5/8)



### Roundsling Hooks

Part Number	Color	Weight (lbs)	WLL (lbs.)
RSHP	Purple	1.54	2,600
RSHG	Green	2.65	5,300
RSHY	Yellow	4.85	8,400
RSHR	Red	9.9	13,200



Round sling hooks attach quickly and easily to the round sling. No tools or special parts needed to install hook. Please request round sling hook when ordering round sling bridle if preferred by adding RSH to end of part number.

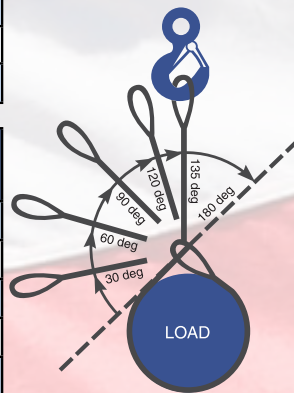
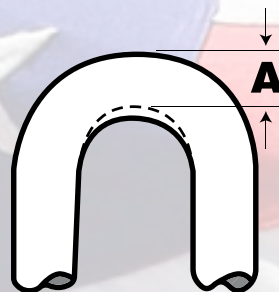


## CHAIN SLING SAFETY INFORMATION

Grade 100 Heat Conditions		
Temperature exposure to chain (F)	Reduction of Working Load Limit while at Temperature	Reduction of Working Load Limit after exposure to Temperature
Below 400°	None	None
400°	15%	None
500°	25%	5%
600°	30%	15%
700°	40%	20%
800°	50%	25%
900°	60%	30%
1000°	70%	35%
Over 1000°	Remove from Service	Remove from Service

Chain Size (in)	Minimum Allowable Thickness - A (in)
7/32	0.189
9/32	0.239
3/8	0.342
1/2	0.443
5/8	0.546
3/4	0.687
7/8	0.75
1	0.887
1 1/4	1.091

Angle of Choke Degree	Rated Capacity %
Over 120	100
90-120	87
60-89	74
30-59	62
0-29	49



### General Hook & Latch Guidelines Important Safety Information

- Always inspect hook & latch before using.
- Never use a latch that is distorted or bent.
- Always make sure the spring will force the latch against the tip of the hook.
- Always make sure hook supports the load.
- Do not point load hooks - load should bear on the bowl of hook. The latch must NEVER support the load. (See Figure 1 & 2).
- Latches are intended to retain a loose sling or devices under slack conditions.
- Latches are not intended to be an anti-fouling device.



## CHAIN SLING REMOVAL CRITERIA

Alloy Steel Chain Slings (ASME B30.9) - An alloy steel chain sling shall be removed from service if conditions such as the following are present:

1. Missing or illegible sling identification.
2. Cracks or breaks
3. Excessive wear, nicks, or gouges.
4. Stretched chain links or components
5. Bent, twisted, or deformed chain links or components.
6. Evidence of heat damage.
7. Excessive pitting or corrosion.
8. Lack of ability of chain or components to hinge (articulate) freely.
9. Weld spatter.
10. For hooks, removal criteria as stated in ASME B30.10
11. Other conditions, including visible damage, that cause doubt as to the continued use of the sling.

**Weld Spatter**



**Excessive Wear, Nicks or Gouges**



**Stretched Master Link**



**Bent, Twisted or Deformed Hardware**







**AMERICAN**

**INDUSTRIAL**

## GENERAL CHAIN SLING INFORMATION

Chain slings are made of grade 100 alloy steel.

They have maximum abrasion and corrosion resistance.

All alloy chain slings meet or exceed ASME B30.9, OSHA and NACM standards.

Chain Size (in.)	GRADE 80						
	Single Leg	Double Leg			Triple & Quad Leg		
	90°	60°	45°	30°	60°	45°	30°
7/32	2,100	3,600	3,000	2,100	5,500	4,400	3,200
9/32	3,500	6,100	4,900	3,500	9,100	7,400	5,200
3/8	7,100	12,300	10,000	7,100	18,400	15,100	10,600
1/2	12,000	20,800	17,000	12,000	31,200	25,500	18,000
5/8	18,100	31,300	25,600	18,100	47,000	38,400	27,100
3/4	28,300	49,000	40,000	28,300	73,500	60,000	42,400
7/8	34,200	59,200	48,400	34,200	88,900	72,500	51,300
1	47,700	82,600	67,400	47,700	123,900	101,200	71,500
1 1/4	72,300	125,200	102,200	72,300	187,800	153,400	108,400

Chain Size (in.)	GRADE 100						
	Single Leg	Double Leg			Triple & Quad Leg		
	90°	60°	45°	30°	60°	45°	30°
7/32	2,700	4,700	3,800	2,700	7,000	5,700	4,000
9/32	4,300	7,400	6,100	4,300	11,200	9,100	6,400
3/8	8,800	15,200	12,400	8,800	22,900	18,700	13,200
1/2	15,000	26,000	21,200	15,000	39,000	31,800	22,500
5/8	22,600	39,100	32,000	22,600	58,700	47,900	33,900
3/4	35,300	61,100	49,900	35,300	91,700	74,900	53,000
7/8	42,700	74,000	60,400	42,700	110,900	90,600	64,000
1	59,600	103,200	84,200	59,600	154,800	126,400	89,300

### Chain Sling Part Number Breakdown

**3/8 D O S A 10 x 8**

**SIZE OF CHAIN**

7/32", 9/32", 3/8",  
1/2", 5/8", 3/4",  
7/8", 1", 1 1/4"

**TOP FITTING**

S,O,G

**ADJUSTER**

STYLE (IF ANY)

A=Attached Close to Coupling Link

B=Any Chain Length Specified  
(12" Chain Length is Standard)

**REACH**

Desired Distance  
Between Bearing Points

**NUMBER OF LEGS**

S=Single, D=Double  
T=Triple, Q=Quad

**END FITTING**

S,O,G,F,L,P,W

**CHAIN GRADE**

8=Grade 80  
10=Grade 100



## CHAIN SLING TYPES

### Single Leg

S00



SGG



SOG



SSG



SOL



SOS



SSS



### Double Leg

D0S



D0G



D0L



D0F



### Triple Leg

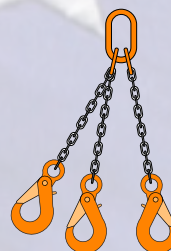
T0S



T0G



T0L



T0F



### Quad Leg

Q0S



Q0G



Q0L



Q0F







AMERICAN

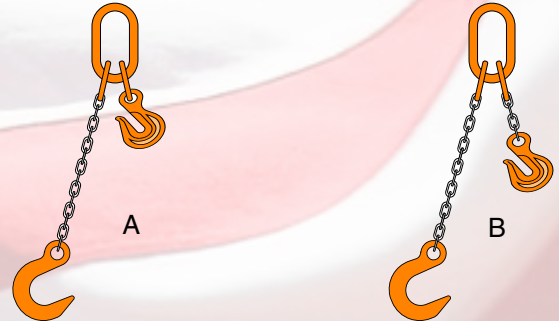
INDUSTRIAL

## CHAIN SLING TYPES - MAGNET CHAIN SLINGS

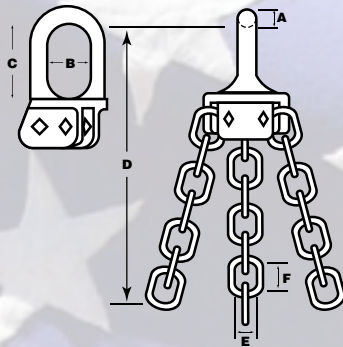
### Single & Double Basket Slings



### Chain Adjuster Styles

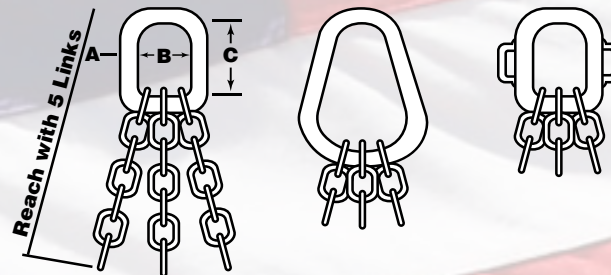


### Steady Lift Magnet Chain



Part Number	Size of Chain	WLL (lbs.)	No. of Links	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	Assy. Wt. (lbs.)	Fits Magnet Diameter (in.)
537101600	1	100,000	5	2 1/4	7	12	43	3	7	235	Up to 60
537102000	1 1/4	150,000	7	2 1/2	7	12	55	3	7	375	60 and over

### Standard Magnet Slings



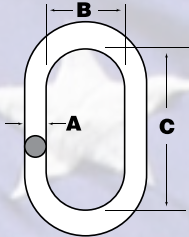
Part Number	Size of Chain (in)	WLL (lbs.)	5 Link Reach (in.)	Master Link			End Links			Fits Magnet Diameter (in.)
				A (in)	B (in)	C (in)	A (in)	B (in)	C (in)	
537301000	5/8	47,000	30 5/8	1 3/4	6	10	7/8	2 1/4	5 1/2	Up to 40
537301200	3/4	73,500	34	2	6	10	1	2 1/2	6	Up to 45
537301400	7/8	88,900	36 7/8	2 1/4	6 1/2	11 1/2	1	2 1/2	6	Up to 48
537301600	1	123,900	40	2 1/4	6 1/2	11 1/2	1 1/4	3	7	Up to 60
537302000	1 1/4	187,800	45 1/2	2 1/2	6 1/2	12 3/4	1 1/2	3	7	60 and over



CHAIN ADJUSTER HOOKS

## CHAIN HARDWARE

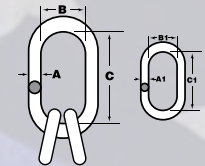
### Oblong Master Links (O)



Part Number	Single Leg (in.)	Double Leg (in.)	WLL (lbs.)	A (in)	B (in)	C (in)	Weight (lbs/pc)
AX13	9/32	7/32	6,000	0.51	2.36	4.33	0.75
AX16W	5/16	9/32	8,600	0.63	3.15	5.51	1.47
AX18W	3/8	5/16	12,900	0.71	3.54	5.91	2.02
AX22	1/2	3/8	17,600	0.87	3.54	6.30	3.3
AX26	5/8	1/2	30,000	1.02	3.94	7.09	5.06
AX32	3/4	5/8	39,100	1.26	4.33	7.87	8.58
AX36	7/8	3/4	61,100	1.42	5.51	10.24	13.97
AX45	1	7/8	74,000	1.77	7.09	13.39	28.16
AX51	1 1/4	1	103,400	2.01	7.48	13.78	37.84

### Sub-Assemblies (O)

Part Number	Chain Size (in.)	WLL (lbs.)	A (in)	B (in)	C (in)	A1 (in)	B1 (in)	C1 (in)	Weight (lbs/pc)
AKX1813W	9/32	11,200	0.70	3.54	5.91	0.51	0.98	2.12	2.90
AXK2618	3/8	26,000	1.02	3.93	7.08	0.70	1.57	3.34	7.40
AKX3222	1/2	39,000	1.26	4.33	7.87	0.86	1.96	4.52	13.24
AKX3626	5/8	58,700	1.41	5.51	10.23	1.02	2.55	5.51	21.90
AKX5132	3/4	91,700	2.00	7.48	13.78	1.26	2.75	5.90	51.40
AKX5136	7/8	110,900	2.00	7.48	13.78	1.41	2.95	6.69	56.76
AKX5740	1	155,100	2.24	7.87	15.74	1.57	3.15	6.69	77.44



### Grade 100 Bulk Chain



Chain Size (in.)	WLL (lbs.)	Feet Per Full Drum	Feet Per Half Drum
9/32	4,300	800	400
5/16	5,700	500	250
3/8	8,800	500	250
1/2	15,000	300	150
5/8	22,600	200	N/A
3/4	35,300	100	N/A
7/8	42,700	100	N/A
1	59,700	50	N/A



**AMERICAN****INDUSTRIAL**

## CHAIN HARDWARE

### Clevis Sling Hook w/Latch (S)

Part Number	Chain Size (in)	WLL (lbs)	Reach (in)	Throat Opening w/Latch (in)	Weight (lbs/pc)
CBX06SF	7/32	3,000	2.71	0.74	0.55
CBX07SF	9/32	4,300	3.74	1.02	1.1
CBX10SF	3/8	8,800	4.33	1.22	2.21
CBX13SF	1/2	15,000	5.35	1.57	3.75
CBX16SF	5/8	22,600	6.10	1.77	7.06
CBX20SF	3/4	35,300	7.28	2.09	11.03
CBX22SF	7/8	42,700	8.27	2.44	27.12



### Eye Sling Hook w/Latch (S)



Part Number	Chain Size (in)	WLL (lbs)	Reach (in)	Throat Opening w/Latch (in)	Weight (lbs/pc)
CAX06SF	7/32	3,000	3.18	0.74	0.55
CAX08SF	9/32 - 5/16	5,700	3.97	1.02	1.1
CAX10SF	3/8	8,800	5.15	1.22	2.14
CAX13SF	1/2	15,000	6.26	1.57	4.19
CAX16SF	5/8	22,600	7.20	1.77	7.28
CAX20SF	3/4	35,300	7.99	2.08	9.92
CAX22SF	7/8	42,700	8.81	2.44	15.66
CAX26SF	1	59,700	10.11	2.87	26.46

### Safety Latch Kits

Part Number	Chain Size (in)	Use with part #'s
CKSX06	7/32	CBX06SFX, CAX06SF
CKSX08	9/32	CBX07SFX, CAX08SF
CKSX10	3/8	CBX10SFX, CAX10SF
CKSX13	1/2	CBX13SFX, CAX13SF
CKSX16	5/8	CBX16SFX, CAX16SF
CKSX20	3/4	CBX20SFX, CAX20SF
CKSX22	7/8	CBX22SFX, CAX22SF
CKSX26	1	CAX26SF



### Eye & Clevis Foundry Hook (F)

Eye Type Part Number	Clevis Type Part Number	Chain Size (in)	WLL (lbs)	Reach (in)	Throat Opening (in)	Weight (lbs/pc)
CYX08	CYFX07	9/32	4,300	3.58	2.52	2.43
CYX10	CYFX10	3/8	8,800	5.16	2.99	3.75
CYX13	CYFX13	1/2	15,000	5.83	3.50	7.94
CYX16	CYFX16	5/8	22,600	7.81	3.98	12.35
CYX20	N/A	3/4	35,300	10.23	4.48	16.76

## CHAIN HARDWARE

### Coupling Link



Part Number	Chain Size (in)	WLL (lbs)	Reach (in)	Weight (lbs/pc)
CLX06	7/32	3,000	1.77	0.15
CLX07	9/32	4,300	1.98	0.31
CLX10	3/8	8,800	2.83	0.77
CLX13	1/2	15,000	3.44	1.63
CLX16	5/8	22,600	4.13	2.56
CLX20	3/4	35,300	4.45	5.51
CLX22	7/8	42,700	5.23	6.84
CLX26	1	59,700	7.55	14.99

### Cradle Clevis Grab Hook (G)

Part Number	Chain Size (in)	WLL (lbs)	Reach (in)	Throat Opening (in)	Weight (lbs/pc)
CFX06	7/32	3,000	2.03	0.31	0.44
CFX07	9/32	4,300	2.62	0.39	0.97
CFX10	3/8	8,800	3.14	0.51	2.12
CFX13	1/2	15,000	4.15	0.66	4.63
CFX16	5/8	22,600	4.40	0.74	7.5
CFX20	3/4	35,300	4.64	0.92	11.47
CFX22	7/8	42,700	6.06	1.02	17.2



### Cradle Eye Grab Hook (G)



Part Number	Chain Size (in)	WLL (lbs)	Reach (in)	Throat Opening (in.)	Weight (lbs/pc)
CDX06	7/32	3,000	2.11	0.31	0.4
CDX08	9/32 - 5/16	5,700	2.76	0.39	0.88
CDX10	3/8	8,800	3.40	0.51	1.94
CDX13	1/2	15,000	4.35	0.66	4.3
CDX16	5/8	22,600	5.07	0.74	7.06
CDX20	3/4	35,300	6.02	0.92	10.8
CDX22	7/8	42,700	7.24	1.02	16.54
CDX26	1	59,700	8.38	1.2	28.66

### Cradle Eye Grab Shortening Hook w/Clevis Attachment (A)

Part Number	Chain Size (in)	WLL (lbs)	Reach (in)	Weight (lbs/pc)
CDFX06	7/32	3,000	3.48	0.60
CDFX07	9/32-5/16	4,300	4.60	1.35
CDFX10	3/8	8,800	5.82	2.69
CDFX13	1/2	15,000	7.28	5.62
CDFX16	5/8	22,600	9.13	10.80







**AMERICAN**

**INDUSTRIAL**

## CHAIN HARDWARE

### Clevis Self Locking Hook (L)



Part Number	Chain Size (in.)	WLL (lbs.)	Reach (in.)	Throat w/Latch Open (in.)	Weight (lbs/pc)
CRFX06	7/32	3,000	3.70	1.10	1.1
CRFX07	9/32	4,300	4.84	1.33	2.09
CRFX10	3/8	8,800	5.63	1.77	3.53
CRFX13	1/2	15,000	7.08	2.00	7.06
CRFX16	5/8	22,600	8.46	2.36	13.23
CRFX20	3/4	35,300	9.96	2.75	21.61
CRFX22	7/8	42,700	11.29	3.22	31.75

### Eye Self Locking Hook (L)

Part Number	Chain Size (in.)	WLL (lbs.)	Reach (in.)	Throat w/Latch Open (in.)	Weight (lbs/pc)
CROX06	7/32	3,000	4.29	1.10	1.1
CROX08	9/32	4,300	5.31	1.33	2.12
CROX10	3/8	8,800	6.61	1.77	3.64
CROX13	1/2	15,000	8.07	2.00	7.17
CROX16	5/8	22,600	9.88	2.36	13.45
CROX20	3/4	35,300	11.41	2.75	21.61
CROX22	7/8	42,700	12.67	3.15	31.75



### Swivel Self Locking Hook (W)



Part Number	Chain Size (in.)	WLL (lbs.)	Reach (in.)	Throat w/Latch Open (in.)	Weight (lbs/pc)
CRGX06	7/32	3,000	6.22	1.10	1.32
CRGX08	9/32	5,700	7.16	1.33	2.43
CRGX10	3/8	8,800	8.54	1.77	4.41
CRGX13	1/2	15,000	10.66	2.12	8.82
CRGX16	5/8	22,600	12.59	2.44	14.99

### Plate Hook (P)

Part Number	Chain Size (in.)	WLL (lbs.)	Weight (lbs/pc)
PHA028	9/32	4,200	2.80
PHA038	3/8	7,400	5.70
PHA050	1/2	13,000	13.00
PHA063	5/8	20,400	26.50
PHA075	3/4	30,000	42.00
PHA088	7/8	40,000	65.00



## WIRE ROPE SLING REMOVAL CRITERIA

Wire Rope Slings (ASME B30.9) - A wire rope sling shall be removed from service if conditions such as the following are present:

1. Missing or illegible sling identification.
2. Broken Wires:
  - For strand-laid and single-part slings, ten randomly distributed broken wires in one rope lay, or five broken wires in one stand in one rope lay.
  - For cable-laid slings, 20 broken wires per lay.
  - For six-part braided slings, 20 broken wires per braid
  - For eight-part braided slings, 40 broken wires per braid.
3. Severe localized abrasion or scraping.
4. Kinking, crushing, bird caging, or any other damage resulting in damage to the rope structure.
5. Evidence of heat damage.
6. End attachments that are cracked, deformed, or worn to the extent that the strength of the sling is substantially affected.
7. Severe corrosion of the rope, end attachments, or fittings.
8. For hooks, removal criteria at stated in ASME B30.10.
9. Other conditions, including visible damage, that cause doubt as to the continued use of the sling.

**Abrasion or Scraping**



**Kinking or Crushing**



**Stretched Master Link**



**Bent, Twisted or Deformed Hardware**







AMERICAN

INDUSTRIAL

## WIRE ROPE SLINGS

Wire rope slings are rugged and reliable with Flemish eye splice and carbon steel sleeves that offer safety for your lift application. Thimbles greatly improve sling longevity by protecting the rope at connection points. All wire rope slings meet or exceed ASME B30.9 and OSHA standards.

### Wire Rope Sling Part Number Breakdown

**W1/4** **619** **EE** x **12**

**ROPE DIAMETER**  
W1/4, W5/16, W3/8, W1/2  
W5/8, W3/4, W7/8, W1

**TYPE OF SLING**  
EE, TT, EH, TH  
SOS, DOS, TOS, GOS

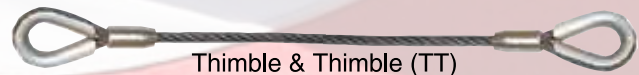
**ROPE CONSTRUCTION**  
619=6x19 IWRC  
637=6x37 IWRC

**LENGTH**  
Any length desired  
for the application.

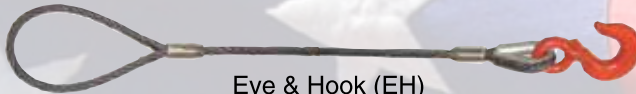
NOTE: Include a D at end of number for domestic rope.



Eye & Eye (EE)



Thimble & Thimble (TT)



Eye & Hook (EH)



Thimble & Hook (TH)

### Single Leg Wire Rope Sling Capacity Chart

				EIPS IWRC Rated Capacity (tons)			
Wire Rope Class	Rope Dia. (in.)	Eye Size (in.)	Min. Sling Length (ft.)	Vertical	Choker	V. Basket	Hook (tons)
6x19 EIPS IWRC	1/4	2 x 4	1'-6"	0.65	0.48	1.3	1
	5/16	2-1/2 x 5	2'-0"	1	0.75	2	1
	3/8	3 x 6	2'-0"	1.4	1.1	2.9	2
	1/2	4 x 8	2'-6"	2.5	1.9	5.1	3
	5/8	5 x 10	3'-0"	3.9	2.9	7.8	4.5
	3/4	6 x 12	3'-6"	5.6	4.1	11	7
	7/8	7 x 14	4'-0"	7.6	5.6	15	7.5
	1	8 x 16	4'-6"	9.8	7.2	20	10

## WIRE ROPE BRIDLE SLINGS

Wire rope bridle slings provide better load control and balance while allowing easier rigging when hooking into fixed lifting points. Wire rope bridle slings are measured by the leg length.



**Double Leg Wire Rope Sling Capacity Chart**

Rope Dia (in)	Minimum Leg Length	Rated Capacity in Tons			Oblong Link Size (in)	Hook (tons)
		60 deg	45 deg	30 deg		
1/4	1'-3"	1.1	0.9	0.7	1/2	1
3/8	1'-8"	2.5	2.0	1.4	1/2	2
1/2	2'-0"	4.4	3.6	2.5	3/4	3
5/8	2'-4"	6.8	5.5	3.9	1	4.5
3/4	2'-9"	9.7	7.9	5.6	1 1/4	7
7/8	3'-3"	13.0	11.0	7.6	1 1/4	7.5
1	3'-6"	17.0	14.0	9.8	1 1/2	10

**Triple Leg Wire Rope Sling Capacity Chart**

Rope Dia (in)	Minimum Leg Length	Rated Capacity in Tons			Oblong Link Size (in)	Hook (tons)
		60 deg	45 deg	30 deg		
1/4	1'-3"	1.7	1.4	1.0	1/2	1
3/8	1'-8"	3.7	3.0	2.2	3/4	2
1/2	2'-0"	6.6	5.4	3.8	1	3
5/8	2'-4"	10.0	8.3	5.9	1 1/4	4.5
3/4	2'-9"	15.0	12.0	8.4	1 1/2	7
7/8	3'-3"	20.0	16.0	11.0	1 1/2	7.5
1	3'-6"	26.0	21.0	15.0	1 3/4	10

**Quad Leg Wire Rope Sling Capacity Chart**

Rope Dia (in)	Minimum Leg Length	Rated Capacity in Tons			Oblong Link Size (in)	Hook (tons)
		60 deg	45 deg	30 deg		
3/8	1'-8"	5.0	4.1	2.9	3/4	2
1/2	2'-0"	8.8	7.1	5.1	1	3
5/8	2'-4"	14.0	11.0	7.8	1 1/4	4.5
3/4	2'-9"	19.0	16.0	11.0	1 1/2	7
7/8	3'-3"	26.0	21.0	15.0	1 3/4	7.5
1	3'-6"	34.0	28.0	20.0	2	10





AMERICAN

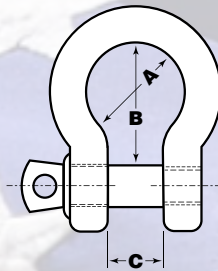
INDUSTRIAL

## ANCHOR SHACKLES

- Meet or Exceed FED SPEC RR-C-271
- Hot Dip Galvanized to ASTM A153
- Meet ASME B30.26 Requirements
- Proof Load at 2 times the Working Load Limit
- Forged Carbon or Alloy Steel Body
- Ultimate Load at 6 times the Working Load Limit

### Screw Pin Anchor Shackles

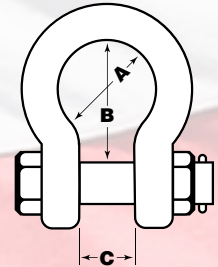
Ideal for applications where frequent pin removal is needed. Forged, Quenched and Tempered Galvanized Alloy Steel Body and Pins.



Part Number	Size (in.)	WLL (ton)	Pin Diameter (in.)	A (in)	B (in)	C (in)
SPAA250	1/4	3/4	5/16	3/4	1 1/8	7/16
SPAA312	5/16	1	3/8	13/16	1 1/4	1/2
SPAA375	3/8	2	7/16	15/16	1 9/16	5/8
SPAA500	1/2	3 1/3	5/8	1 3/16	1 7/8	13/16
SPAA625	5/8	5	3/4	1 1/2	2 7/16	1 1/16
SPAA750	3/4	7	7/8	1 3/4	2 7/8	1 1/4
SPAA875	7/8	9 1/2	1	2	3 5/16	1 1/2
SPAA100	1	12 1/2	1 1/8	2 5/16	3 3/4	1 11/16
SPAA1250	1 1/4	18	1 3/8	2 7/8	4 11/16	2 3/16
SPAA1500	1 1/2	30	1 5/8	3 3/8	5 3/4	2 3/8
SPAA1750	1 3/4	40	2	4 1/2	7	2 7/8
SPAA200	2	50	2 1/4	5 1/4	7 3/4	3 1/4

### Safety Pin Anchor Shackles

Complete with bolt, nut and cotter pin; Overhead lifting applications where pin removal is minimal. Forged, Quenched and Tempered Galvanized Carbon Steel Body and Alloy Pins.



Part Number	Size (in.)	WLL (tons)	Pin Diameter (in.)	A (in)	B (in)	C (in)
SAS250	1/4	1/2	5/16	3/4	1 1/8	7/16
SAS312	5/16	3/4	3/8	13/16	1 1/4	1/2
SAS375	3/8	1	7/16	15/16	1 7/16	5/8
SAS500	1/2	2	5/8	1 3/16	1 7/8	13/16
SAS625	5/8	3 1/4	3/4	1 1/2	2 7/16	1 1/16
SAS750	3/4	4 3/4	7/8	1 3/4	2 7/8	1 1/4
SAS875	7/8	6 1/2	1	2	3 5/16	1 7/16
SAS100	1	8 1/2	1 1/8	2 5/16	3 3/4	1 11/16
SAS1250	1 1/4	12	1 3/8	2 7/8	4 11/16	2 3/16
SAS1500	1 1/2	17	1 5/8	3 3/8	5 3/4	2 3/8
SAS1750	1 3/4	25	2	4 1/2	7	2 7/8
SAS200	2	35	2 1/4	5 1/4	7 3/4	3 1/4



## **CARGO SECUREMENT SAFETY INFORMATION**

### **RECOMMENDED OPERATING PRACTICES FOR TIE-DOWNS**

- Select a synthetic web tie-down having suitable characteristics for the type of load, environment and attachment to vehicle anchor point. Fittings shall have the required shape and size to attach properly to the vehicle anchor points.
- Identify the working load limit (WLL) marked on the synthetic web tie-down by the manufacturer. If the required markings are illegible or missing, remove from service. Read all warnings and/or instructions provided by the manufacturer.
- Identify the working load limit (WLL) of the vehicle anchor points. If no rating is visible contact the vehicle manufacturer for tie-down instructions. The lesser-rated working load limit (WLL), whether that is the anchor point or the synthetic web tie-down, shall determine the working load limit (WLL) of the securement system.
- Synthetic web tie-downs shall be attached to the vehicle and positioned in accordance with applicable regulations for the commodity being transported to prevent against shifting and/or loss of cargo.
- Synthetic web tie-downs should not be dropped or dragged on the floor, ground or any abrasive surface.
- Synthetic web tie-downs shall not be shortened, joined, repaired or lengthened by being tied into knots.
- Synthetic web tie-downs should not be pulled from under cargo when the cargo is resting on the tie-down.
- Synthetic web tie-downs shall always be protected from corners, edges, protrusions, and abrasive surfaces with edge protection that resists abrasion, cutting or crushing.
- Synthetic web tie-downs designed to secure cargo shall not be used for lifting, lowering or suspending cargo or for towing.
- Before operating any synthetic web tie-down assembly the user shall secure his footing to prevent slipping or falling. In adverse weather conditions, including freezing temperatures, additional weather conditions, including freezing temperatures, additional caution should be exercised.
- When using winch or ratchet straps a minimum of two (2) and a maximum of four (4) wraps of webbing shall be on the winch or ratchet mandrel. Excessive wraps of webbing on the mandrel may reduce the working load limit (WLL) of the synthetic web tie-down and may interfere with proper operation.
- Synthetic web tie-downs shall be used, inspected and adjusted during the transportation of cargo per applicable federal, state, provincial, local and industry regulations.

### **ADDITIONAL TIEDOWNS REQUIRED**

Additional tie-downs may be required based on the specific vehicle, cargo, tie-downs, and securement configuration involved. The individual securing the load ultimately takes responsibility for proper cargo securement.

If the cargo is prevented from moving forward by a headerboard, bulkhead, other secured cargo, or other appropriate blocking devices, then you must use at least one tie-down for every 10 feet of cargo or part thereof.

If forward movement is NOT prevented, then you must use at least the following number of tie-downs, based on 49 CFR §393.110(b);

<b>IF THE ARTICLE IS</b>	<b>USE AT LEAST</b>
5 Feet or Shorter and 1,100 Pounds or Lighter	1 Tiedown
5 Feet or Shorter and Over 1,100 Pounds	2 Tiedowns
Longer than 5 Feet but less than or equal to 10 Feet No Matter the Weight	2 Tiedowns
Longer than 10 Feet	2 Tiedowns, plus 1 additional for every additional 10 feet or part thereof



## CARGO SECUREMENT REMOVAL CRITERIA

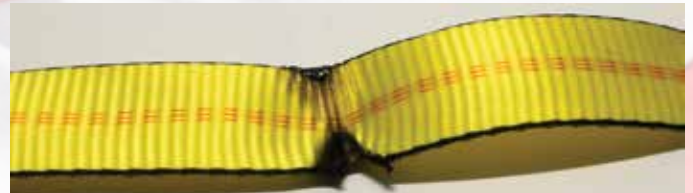
The entire tie down must be inspected before each use and it shall be removed from service if ANY of the following are detected:

- If tie down identification tag is missing or not readable.
- Holes, tears, cuts, snags or embedded materials.
- Broken or worn stitches in the load bearing splices.
- Knots in any part of the webbing.
- Acid or alkali burns.
- Melting, charring or weld spatters on any part of the webbing.
- Excessive abrasive wear or crushed webbing.
- Signs of ultraviolet (UV) light degradation.
- Distortion, excessive pitting, corrosion or other damage to buckles or end fitting(s).
- Any conditions which cause doubt as to the strength of the tie down.

**SNAGS**



**MELTING OR CHARRING**



**KNOTS**



**CUTTING**



## 1 & 2 INCH RATCHET STRAPS

Ratchet Straps are easy to use and quickly tighten to the contour of the load. Our ratchet straps are fabricated with high strength polyester webbing that has been treated for abrasion resistance. All ratchet straps are labeled to meet CVSA guidelines, CHP standards, DOT regulations and WSTDA recommended standards.



### 1 Inch Ratchet Straps

Part Number	Strap Length	Buckle Style	End Fittings	Working Load Limit (lbs.)
R2706SH	6'	Ratchet	Coated S-Hook	800
R2710SH	10'	Ratchet	Coated S-Hook	800
R2715SH	15'	Ratchet	Coated S-Hook	800
R2706WH	6'	Ratchet	Coated Wire Hook	800
R2710WH	10'	Ratchet	Coated Wire Hook	800
R2715WH	15'	Ratchet	Coated Wire Hook	800
CB506SH	6'	Cam	Coated S-Hook	500
CB510SH	10'	Cam	Coated S-Hook	500
CB515SH	15'	Cam	Coated S-Hook	500
CB506WH	6'	Cam	Coated Wire Hook	500
CB510WH	10'	Cam	Coated Wire Hook	500
CB515WH	15'	Cam	Coated Wire Hook	500

### 2 Inch Ratchet Straps

Part Number	Strap Length	Buckle Style	End Fittings	Working Load Limit (lbs.)
R5027FH	27'	Long Wide Ratchet	Flat Hook	3,335
R5030FH	30'	Long Wide Ratchet	Flat Hook	3,335
R5027WH	27'	Long Wide Ratchet	Wire Hook	3,335
R5030WH	30'	Long Wide Ratchet	Wire Hook	3,335
R5027CE	27'	Long Wide Ratchet	18" Chain Extension	3,335
R5030CE	30'	Long Wide Ratchet	18" Chain Extension	3,335
R5027FSH	27'	Long Wide Ratchet	Flat Snap Hook	3,335
R5030FSH	30'	Long Wide Ratchet	Flat Snap Hook	3,335
R5027TSH	27'	Long Wide Ratchet	Twisted Snap Hook	3,335
R5030TSH	30'	Long Wide Ratchet	Twisted Snap Hook	3,335
R5027DR	27'	Long Wide Ratchet	Stamped D-Ring	3,335
R5030DR	30'	Long Wide Ratchet	Stamped D-Ring	3,335

### Self Contained Ratchet Straps

Part Number	Web Width	Strap Length	End Fittings	Working Load Limit (lbs.)
SCR2706SH	1"	6'	Coated S-Hook	800
SCR2715SH	1"	15'	Coated S-Hook	800
SCR5027FH	2"	27'	Flat Hook	3,335
SCR5030FH	2"	30'	Flat Hook	3,335
SCR5027WH	2"	27'	Wire Hook	3,335
SCR5030WH	2"	30'	Wire Hook	3,335
SCR5027CE	2"	27'	Chain Extension	3,335
SCR5030CE	2"	30'	Chain Extension	3,335



### Motorcycle Tiedowns



Part Number	Description	Working Load Limit (lbs.)
R2706SH-MS	1" X 6' Motorcycle Ratchet Strap w/ 12" Extension Soft Loop from S-Hook; 9" fixed end length	800
CB506SH-MS	1" X 6' Motorcycle Cam Buckle Strap w/ 12" Extension Soft Loop from S-Hook; 9" fixed end length	500
MST118	1" X 18" Soft Loop	1,000





**AMERICAN**

**INDUSTRIAL**

## 3 & 4 INCH RATCHET STRAPS

### 3 Inch Ratchet Straps

Part Number	Strap Length	Buckle Style	End Fittings	Working Load Limit (lbs.)
R7527FH	27'	Long Handle Ratchet	Flat Hook	5,400
R7530FH	30'	Long Handle Ratchet	Flat Hook	5,400
R7527WH	27'	Long Handle Ratchet	Wire Hook	5,400
R7530WH	30'	Long Handle Ratchet	Wire Hook	5,400
R7527CE	27'	Long Handle Ratchet	18" Chain Extension	5,400
R7530CE	30'	Long Handle Ratchet	18" Chain Extension	5,400
R7527DR	27'	Long Handle Ratchet	Forged D-Ring	5,400
R7530DR	30'	Long Handle Ratchet	Forged D-Ring	5,400

### 4 Inch Ratchet Straps

Part Number	Strap Length	Buckle Style	End Fittings	Working Load Limit (lbs.)
R10027FH	27'	Long Handle Ratchet	Flat Hook	5,400
R10030FH	30'	Long Handle Ratchet	Flat Hook	5,400
R10027WH	27'	Long Handle Ratchet	Wire Hook	6,600
R10030WH	30'	Long Handle Ratchet	Wire Hook	6,600
R10027CE	27'	Long Handle Ratchet	18" Chain Extension	5,400
R10030CE	30'	Long Handle Ratchet	18" Chain Extension	5,400
R10027DR	27'	Long Handle Ratchet	Forged D-Ring	5,400
R10030DR	30'	Long Handle Ratchet	Forged D-Ring	5,400

### Ordering Notes

When ordering 1" straps, a 9" fixed end is standard. Standard webbing color is Black; other colors including Blue and Camo are available.

When ordering 2", 3", or 4" straps, an 18" fixed end is standard, except the chain extension straps which have a 33" fixed end. Standard webbing color is a highly visible yellow webbing. All our 2", 3" and 4" tie-down straps are made of polyester webbing with special edge yarns that provide superb resistance to wear for longer assembly life.

All American Industrial working load limits are based on 1/3 of the assembly breaking strength. All ratings are based on a straight tensile pull.



### WARNING

U.S. Department of Transportation regulations, 49 CFR, Part 393, Paragraph 393.102(b) requires that: "The aggregate working load limit of the tie down assemblies used to secure an article against movement in any direction must be at least 1/2 times the weight of that article."

## WINCH STRAPS

Part Number	Web Width	Strap Length	End Fitting	Working Load Limit (lbs.)
WS227FH	2"	27'	Flat Hook	3,335
WS230FH	2"	30'	Flat Hook	3,335
WS227WH	2"	27'	Wire Hook	3,335
WS230WH	2"	30'	Wire Hook	3,335
WS227CE	2"	27'	18" Chain Extension	3,335
WS230CE	2"	30'	18" Chain Extension	3,335
WS227DR	2"	27'	Stamped D-Ring	3,335
WS230DR	2"	30'	Stamped D-Ring	3,335
WS327FH	3"	27'	Flat Hook	5,400
WS330FH	3"	30'	Flat Hook	5,400
WS327WH	3"	27'	Wire Hook	5,400
WS330WH	3"	30'	Wire Hook	5,400
WS327CE	3"	27'	18" Chain Extension	5,400
WS330CE	3"	30'	18" Chain Extension	5,400
WS327DR	3"	27'	Stamped D-Ring	5,400
WS330DR	3"	30'	Stamped D-Ring	5,400
WS327	3"	27'	For winch to winch	5,400
WS330	3"	30'	For winch to winch	5,400
WS427FH	4"	27'	Flat Hook	5,400
WS430FH	4"	30'	Flat Hook	5,400
WS427WH	4"	27'	Wire Hook	6,600
WS430WH	4"	30'	Wire Hook	6,600
WS427CE	4"	27'	18" Chain Extension	5,400
WS430CE	4"	30'	18" Chain Extension	5,400
WS427DR	4"	27'	Stamped D-Ring	5,400
WS430DR	4"	30'	Stamped D-Ring	5,400
WS427	4"	27'	For winch to winch	5,400
WS430	4"	30'	For winch to winch	5,400

Winch straps provide the strength and durability demanded in flatbed tie-down applications. All winch straps are labeled to meet CVSA guidelines, CHP standards, DOT regulations and WSTDA recommended standards.



### WARNING

U.S. Department of Transportation regulations, 49 CFR, Part 393, Paragraph 393.102(b) requires that: "The aggregate working load limit of the tie down assemblies used to secure an article against movement in any direction must be at least 1/2 times the weight of that article."





**AMERICAN**

**INDUSTRIAL**

## E-SERIES LOGISTIC STRAPS & HARDWARE

Logistic straps are designed for use in interior van loading requirements.

All standard logistic straps have a 4' fixed end and adjustable ends are sewn captivated.

Logistic strap webbing is color coded to length: 12 ft = Yellow, 16 ft = grey, 20 ft = Blue.

Part Number	Web Width (in)	Strap Length (ft)	Buckle Style	End Fittings	Working Load Limit (lbs.)
R5312SEF	2	12	Interior Ratchet	Spring E-Fitting	1,466
R5316SEF	2	16	Interior Ratchet	Spring E-Fitting	1,466
R5320SEF	2	20	Interior Ratchet	Spring E-Fitting	1,466
CB312SEF	2	12	Cam	Spring E-Fitting	800
CB316SEF	2	16	Cam	Spring E-Fitting	800
CB320SEF	2	20	Cam	Spring E-Fitting	800



EFR-2



SEF1017



Part Number	Description	Break Strength (lbs.)
RTO-6	6" Rope Tie-Off w/ spring e-fitting & d-ring	4,400
EFR-2	E-track fitting w/ 2" Round Ring	5,500
HET-5P	5 foot section of 12 gauge steel horizontal e-track (painted)	
WBES	Wood beam end socket	
SEF1017	1 pc spring e-fitting	4,400

RTO-6



WBES



HET-5P



## AUTO TRANSIT & AXLE STRAPS



Car hauler wheel straps go over the tire and utilize three cleated rubber blocks that mesh with the tread to keep the strap centered and secured. Auto transit ratchet straps are used in combination with our Axle straps and provide your vehicle security on the road.

Axle Straps are designed to wrap around a car's rear axle, chassis or other attachment point and provide you a quick and easy anchoring point for keeping your car secure.

Part Number	Description	Web Width (in)	Strap Length (ft)	Buckle Style	End Fittings	Working Load Limit (lbs.)
R5406FSH	Auto Transit	2	6	Short Handle Ratchet	Flat Snap Hooks	3,335
R5408FSH	Auto Transit	2	8	Short Handle Ratchet	Flat Snap Hooks	3,335
R5406TSH	Auto Transit	2	6	Short Handle Ratchet	Twisted Snap Hooks	3,335
R5408TSH	Auto Transit	2	8	Short Handle Ratchet	Twisted Snap Hooks	3,335
AXLE 2	2' Axle Strap w/ cordura wear pad	2	2	N/A	Stamped D-Rings	3,335
AXLE 3	3' Axle Strap w/ cordura wear pad	2	3	N/A	Stamped D-Rings	3,335
AT-SJ100X10	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) swivel j-hook	2	10	N/A	Swivel J-Hook	3,335
AT-SJ100X12	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) swivel j-hook	2	12	N/A	Swivel J-Hook	3,335
AT-SJ100X14	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) swivel j-hook	2	14	N/A	Swivel J-Hook	3,335
AT-SJ200X10	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed swivel hook, (1) floating	2	10	N/A	Swivel J-Hook	3,335
AT-SJ200X12	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed swivel hook, (1) floating	2	12	N/A	Swivel J-Hook	3,335
AT-SJ200X14	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed swivel hook, (1) floating	2	14	N/A	Swivel J-Hook	3,335
AT-WH100X10	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) wire hook	2	10	N/A	Wire Hook	3,335
AT-WH100X12	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) wire hook	2	12	N/A	Wire Hook	3,335
AT-WH100X14	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) wire hook	2	14	N/A	Wire Hook	3,335
AT-WH200X10	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed wire hook, (1) floating	2	10	N/A	Wire Hook	3,335
AT-WH200X12	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed wire hook, (1) floating	2	12	N/A	Wire Hook	3,335
AT-WH200X14	Car Hauler Wheel Strap w/ (3) rubber blocks captivated, (1) fixed wire hook, (1) floating	2	14	N/A	Wire Hook	3,335
R50-AT-SJ300X10	Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed swivel hooks, (1) floating, R50 ratchet, 9" fixed end	2	10	Long Wide Handle Ratchet	Swivel J-Hook	3,335
R50-AT-SJ300X12	Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed swivel hooks, (1) floating, R50 ratchet, 9" fixed end	2	12	Long Wide Handle Ratchet	Swivel J-Hook	3,335
R50-AT-SJ300X14	Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed swivel hooks, (1) floating, R50 ratchet, 9" fixed end	2	14	Long Wide Handle Ratchet	Swivel J-Hook	3,335
R50-AT-WH300X10	Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed wire hooks, (1) floating, R50 ratchet, 9" fixed end	2	10	Long Wide Handle Ratchet	Wire Hook	3,335
R50-AT-WH300X12	Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed wire hooks, (1) floating, R50 ratchet, 9" fixed end	2	12	Long Wide Handle Ratchet	Wire Hook	3,335
R50-AT-WH300X14	Car Hauler Ratchet Strap w/ (3) rubber blocks captivated, (2) fixed wire hooks, (1) floating, R50 ratchet, 9" fixed end	2	14	Long Wide Handle Ratchet	Wire Hook	3,335



**AMERICAN****INDUSTRIAL**

## TIE DOWN HARDWARE



### 1 INCH TIE DOWN HARDWARE

Part Number	Description	Break Strength (lbs.)
SH250P	Coated S-Hook	2,400
SH253P	Light Duty Coated S-Hook	1,500
CB5	Standard Cam Buckle	1,500
CB6	Light Duty Cam Buckle	550
SCR27	Self Contained Wide Handle Ratchet	4,400
R27	Wide Handle Ratchet	3,300

### 2 INCH TIE DOWN HARDWARE

Part Number	Description	Break Strength (lbs.)
FH-039	Flat Hook	11,000
FSH31	Flat Snap Hook	11,000
TSH31	Twisted Snap Hook	11,000
CE18	18" Chain Extension	16,200
GH	Grab Hook w/ Pear Link	16,200
WH-071	Wire Hook	6,600
WH-073	Wire Hook (3 3/8" ovr)	11,000
WH-074	Wire Hook (4 3/8" ovr)	11,000
SJH-051	Swivel J-Hook	11,000
RB	Rubber Block	N/A
WA	Web Adjuster	10,000
DR61	Stamped D-Ring	10,000
CH	Cluster Hook	11,000
CB3	Cam Buckle	2,420
SCR50	Self Contained Wide Handle Ratchet	11,000
R50	Long Wide Handle Ratchet	11,000
R51	Wide Handle Ratchet	11,000
R51-SJH	Wide Handle Ratchet w/ Swivel Hook	11,000
R53	Interior Wide Handle Ratchet	4,400
R54	Short Standard Handle Ratchet	11,000



## TIE DOWN HARDWARE



FLAT HOOK

3 Inch Hardware		
Part Number	Description	Break Strength (lbs.)
FH-043	Flat Hook	17,600
WH-075	Wire Hook	22,000
3-CE18-DR	18" Chain Extension	16,200
DR3	Forged Delta Ring	18,000
R75	Long Handle Ratchet	22,000



GRAB HOOK  
W/PEAR LINK



WIRE HOOK



CHAIN  
EXTENSION

4 Inch Hardware		
Part Number	Description	Break Strength (lbs.)
FH-043	Flat Hook	17,600
WH-076	Wire Hook	22,000
4-CE18-DR	18" Chain Extension	16,200
DR4	Forged Delta Ring	20,000
R100	Long Handle Ratchet	22,000



FORGED DELTA RING



**AMERICAN****INDUSTRIAL**

## FLATBED ACCESSORIES

We offer a variety of Flatbed accessories including: plastic & steel corner protectors, coil racks, coil eye protectors, rubber tarp ties, anti-slip mats and more.



HJ-105



PCP-25



ASFM



PCP-48

CC1419 or  
CC1926

Part Number	Description
HJ-105	4" x 4" Steel corner protector for chain
PCP-25	4" Plastic corner protector
PCP-48	4 Foot section of heavy duty plastic corner protector
CR-26	Heavy duty coil rack 3" wide x 34" Ovr. Length
CC1419	Coil eye edge protector - High impact strength plastic (sold in pairs) Fits coil I.D. of 14" to 19"
CC1926	Coil eye edge protector - High impact strength plastic (sold in pairs) Fits coil I.D. of 19" to 26"
ASFM	Anti-Slip Friction Rubber Black Mat - 2mm thick 12" wide X 60" length is standard (custom sizes available)
RTS-9	9" Rubber Tarp Ties EPDM construction.
RTS-15	15" Rubber Tarp Ties EPDM construction.
RTS-21	21" Rubber Tarp Ties EPDM construction.
RTS-31	31" Rubber Tarp Ties EPDM construction.
RTS-41	41" Rubber Tarp Ties EPDM construction.

## Winch & Winch Bars

Winches provide a method for securing cargo on flatbed trailers and other vehicles. All winches are designed to meet DOT regulations, WSTDA standards and Canadian 905 regulations. Winch bars feature a knurled non-slip handle and a tapered head for easy operation.

Part Number	Description
TW410	Standard weld on winch 5,500 LB WLL
TW411	Standard portable winch 5,500 LB WLL
SCWB	35 inch Standard chrome winch bar
7001-24	24" Tie Down Bar For Car Hauler
7001-28	28" Tie Down Bar For Car Hauler
7001-34	34" Tie Down Bar For Car Hauler
7001-39	39" Tie Down Bar For Car Hauler

TW410



TW411



SCWB

## G70 TRANSPORT CHAIN

Versatile and quality made chain assemblies offer heavy duty transport securement. All our grade 70 transport chain meets or exceeds National Association of Chain Manufacturers (NACM) standards. G70 transport chain is also available in bulk drums.

DOMESTIC				IMPORT			
Part Number	Description	WLL (lbs.)	Weight (lbs/pc)	Part Number	Description	WLL (lbs.)	Weight (lbs/pc)
5261163	5/16" x 16'	4700	17	LB032-16	5/16" x 16'	4700	17
5261363	5/16" x 20'	4700	21	LB032-20	5/16" x 20'	4700	21
5261463	5/16" x 25'	4700	26	LB032-25	5/16" x 25'	4700	26
5262163	3/8" x 16'	6600	24	LB033-16	3/8" x 16'	6600	24
5262363	3/8" x 20'	6600	30	LB033-20	3/8" x 20'	6600	30
5262463	3/8" x 25'	6600	37	LB033-25	3/8" x 25'	6600	37
8605182	1/2" x 20'	11,300	51	LB034-20	1/2" x 20'	11,300	51



G70 HOOKS				
Part Number	Description	Size of G70 Chain (in.)	WLL (lbs.)	Weight (lbs/pc)
CGHG70-516	Clevis Grab Hook	5/16"	4,700	0.72
CGHG70-38	Clevis Grab Hook	3/8"	6,600	1.15
CGHG70-12	Clevis Grab Hook	1/2"	11,300	2.61
CSHLG70-516	Clevis Slip Hook with Latch	5/16"	4,700	0.87
CSHLG70-38	Clevis Slip Hook with Latch	3/8"	6,600	1.3
CSHLG70-12	Clevis Slip Hook with Latch	1/2"	11,300	2.85



Part Number	Chain Size (in.)	WLL (lbs.)	Feet Per Full Drum	Drum Weight (lbs.)
516X550G70	5/16	4,700	550	561
38X400G70	3/8	6,600	400	552
12X200G70	1/2	11,300	200	486

### G70 CHAIN REFERENCE CHART

This chart indicates the minimum number of indirect tie-downs (tie-downs with both ends attached to opposite sides of vehicle) needed to secure a load based only on the loads weight. Note: Additional tie-downs may be needed based on the size of the load and/or your overall securement system.

GRADE OF CHAIN	SIZE (in.)	WLL (lbs.)	Weight of Load (lbs.)									
			5,000	10,000	15,000	20,000	25,000	30,000	35,000	40,000	45,000	50,000
Grade 70 Transport	5/16	4,700	1	2	2	3	3	4	4	5	5	6
	3/8	6,600	1	1	2	2	2	3	3	4	4	4
	1/2	11,300	1	1	1	1	2	2	2	2	2	3





**AMERICAN**

**INDUSTRIAL**

## CHAIN LOAD BINDERS

DB LOAD BINDERS						
Part Number	Type	Size of G70 Chain (in)	TakeUp (in)	Handle Length (in)	WLL (lbs)	Weight (lbs/pc)
DB-II	Lever	5/16-3/8	4.5	16	5,400	9
DF-7100	Lever	5/16-3/8	4.5	16	7,100	9
DB-III	Lever	3/8-1/2	4.5	18	9,200	13
DB-IV	Lever	1/2-5/8	4.5	18	13,000	16
LDR-38-10+	Ratchet	5/16-3/8	8	12.75	7,100	9.4
DR-1-7300	Ratchet	5/16-3/8	8	15.5	7,300	12.2
LDR-12-10+	Ratchet	3/8-1/2	8	12.75	9,200	12.5
DR-2	Ratchet	3/8-1/2	8	15.5	12,000	14.6
DR-3	Ratchet	1/2-5/8	8	15.5	13,000	15.8

Chain Load Binders are made of formed steel, providing a quality chain binder at a competitive price. They are for use with Grade 70 transport chain assemblies. They are available in Lever, Compression Spring and Ratchet models. All load binders meet or exceed NACM, FMCSA & CVSA standards.



IMPORT LOAD BINDERS						
Part Number	Type	Size of G70 Chain (in)	Take Up (in)	Handle Length (in)	WLL (lbs)	Weight (lbs/pc)
LLB-38	Lever	5/16-3/8	4.5	16	5,400	8
LLB-12	Lever	3/8-1/2	4.5	18	9,200	12
RLB-38	Ratchet	5/16-3/8	8	12.75	5,400	10
RLB-12	Ratchet	3/8-1/2	8	12.75	9,200	12

## RECOVERY & TOW STRAPS

Recovery straps are made from heavy duty polyester webbing with sewn eyes wrapped with Cordura® for abrasion resistance.



Part Number	Description	Web Width	Strap Length	End Fittings	Capacity (lbs.)	Tensile Strength (lbs.)
RAW-2-220	2 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	2"	20'	Eyes	13,066	39,200
RAW-2-230	2 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	2"	30'	Eyes	13,066	39,200
RAW-2-320	2 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	3"	20'	Eyes	19,600	58,800
RAW-2-330	2 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	3"	30'	Eyes	19,600	58,800
RAW-2-420	2 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	4"	20'	Eyes	26,133	78,400
RAW-2-430	2 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	4"	30'	Eyes	26,133	78,400
RAW-4-220	4 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	2"	20'	Eyes	26,133	78,400
RAW-4-230	4 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	2"	30'	Eyes	26,133	78,400
RAW-4-320	4 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	3"	20'	Eyes	39,200	117,600
RAW-4-330	4 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	3"	30'	Eyes	39,200	117,600
RAW-4-420	4 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	4"	20'	Eyes	52,266	156,800
RAW-4-430	4 PLY Recovery Strap w/ CORDURA® reinforced eyes for wear	4"	30'	Eyes	52,266	156,800



### WARNING



Inspect before each use. Do not use a damaged strap. Avoid dragging the strap. Do not tie strap into knots. Do not attach strap to bumpers. Avoid contact with hot exhaust systems. Do not exceed Strap Work Load Limits. Attachment points must be suitable for the application and should exceed the break strength of the strap. Detached connection points can become deadly projectiles. Stand far away from the vehicle and strap while under tension. Never stand near or in line of a strap under tension. DO NOT SHOCK LOAD THE STRAP. You must take into account all factors such as suction and incline to ensure that you maintain control of all materials and components used for recovery, including dynamic loading and tension if you are not capable of determining loading factors, use load measuring devices or equipment controls to avoid overloading. If these options are not available, DO NOT USE THE VEHICLE STRAP. IMPROPER USE MAY RESULT IN INJURY, DEATH AND/OR PROPERTY DAMAGE. Avoid edges or surfaces that could damage the strap. Use protection to prevent damage to the strap. Store strap in a cool, dark, dry location, free of environmental and mechanical damage. Remove the strap from service and do not use for any application, if any of the following are visible: Acid or Caustic Burn, Melting or Charring of any part of the strap, Ultraviolet/Sunlight Damage, Broken or worn stitching, Excessive Abrasive, Wear Holes, Tears, Cuts, Snags or Punctures and/or other visible damage that causes doubt as to the strength of the strap.





**AMERICAN**

**INDUSTRIAL**

## **MANUAL HOIST SAFETY INFORMATION**

### **Inspection Checklist**

The first step in finding any abnormalities in the equipment is a visual inspection, which should be a part of a hoist owner's daily operation. During an inspection, the following checkpoints for manually operated chain hoists are vital to ensuring proper operation. Read the hoist user's manual for the specific requirements of your equipment.

- Check to ensure that hoists are not tagged, "Out of Service".
- Verify hoist nameplates are present and complete.
- Ensure that all warning and safety labels are not missing and are legible.
- Test run to ensure that all motions agree with control device markings.
- Run the hoist through the full range of motions, all the way up and down.
- Check to make sure that there is no load drift; the hoist must hold load without any drift.
- Check for hook damage. Inspect for: cracks, nicks, gouges, twisting, deformation of the throat opening and wear on saddle or load bearing point. Refer to the owner's manual provided by the original manufacturer.
- Check hook latch operation and inspect for wear or deformation. The latch must be present and operational.
- Deformation between the hook fitting and shank.
- Load chain inspection. Check for: nicks, gouges, deformation, flaws, heat damage, bent links, wear, stretch, corrosion, pitch elongation and proper lubrication.
- Inspect Hand Chain for deformation and pitch elongation.
- Reeving: Ensure that the chain is properly reeved and that the chain is not twisted around each other.
- Limit Switches: Check to ensure that the upper limit device stops the lifting motion of the hoist load block before striking any part of the hoist.
- Deformation and corrosion of the body frame, gear case, gears, sheaves, bearings and chain stopper pin.
- Presence of bolts and nuts.
- Wear of brake screws, linings and ratchet wheels.
- Check for any sign of oil leakage on the hoist and/or on the ground beneath the hoist.
- Check for any unusual sounds from the hoist mechanism while operating the hoist.





# HAND CHAIN HOISTS & MANUAL TROLLEYS

## Hand Chain Hoist

AMH™ (MA) model hand chain hoist features lightweight and durable all steel construction with powder coated finish and plated external components to resist corrosion; premium grade 80 Zinc plated alloy load chain; sealed ball bearing on the chain wheel maximize efficiency and serviceability; self adjusting double pawl disc type mechanical load brake insures positive load control.

Optional: Overload protection is new design one directional clutch that will only slip in the lift direction. All hand chain hoists meet ASME B30.16 and OSHA standards.

MA SERIES HAND CHAIN HOIST							
Part Number	Capacity (lbs)	Capacity (tons)	Standard Lift (ft)	Min. Headroom (in)	Number of Falls	Pull Force Lift Capacity (lbs)	Weight for 10' lift (lbs)
MA005	1,100	1/2	10, 15, 20	13.8	1	56	20
MA010	2,200	1	10, 15, 20	15.1	1	64	26
MA015	3,300	1 1/2	10, 15, 20	17.4	1	69	36
MA020	4,400	2	10, 15, 20	19.1	1	77	44
MA030	6,600	3	10, 15, 20	21.8	1	84	72
MA050	11,000	5	10, 15, 20	27.1	2	84	93
MA100	22,000	10	10, 15, 20	30.1	4	86	165



BADGER™ HAND CHAIN HOIST							
Part Number	Capacity (lbs)	Capacity (tons)	Standard Lift (ft)	Min. Headroom (in)	Number of Falls	Pull Force Lift Capacity (lbs)	Weight for 10' lift (lbs)
CB005	1,100	1/2	10, 20, 30	10.6	1	49	22
CB010	2,200	1	10, 20, 30	12.5	1	72	26
CB015	3,300	1 1/2	10, 20, 30	15.7	1	81	42
CB020	4,400	2	10, 20, 30	16.3	1	82	44
CB030	6,600	3	10, 20, 30	18.3	2	87	59
CB050	11,000	5	10, 20, 30	24.3	2	98	101
CB100	22,000	10	10, 20, 30	31.4	4	98	183

## Manual Push Trolleys

Machined cast iron wheels with universal tread design to fit flat or tapered beam flanges. Trolleys meet ASME B30.16 and OSHA standards.



MANUAL PUSH TROLLEYS				
Part Number	Capacity (Tons)	Beam Flange Adjustment (in)	Minimum Radius (in)	Weight (lbs)
PT005	1/2	2.52 - 8.66	36	18
PT010	1	2.52 - 8.66	40	24
PT020	2	3.46 - 8.66	48	40
PT030	3	4.02 - 8.66	52	69
PT050	5	4.49 - 8.66	56	94
PT100	10	4.9 - 12	79	198





AMERICAN

INDUSTRIAL

## LEVER HOISTS & BEAM CLAMPS

### Lever Hoists

AMH™ (LA) model lever hoist features lightweight and durable all steel construction with powder coated finish and plated external components to resist corrosion; premium grade 80 Zinc plated alloy load chain; self adjusting double pawl disc type mechanical load brake insures control; horseshoe chain guard allows operation in any orientation.

Optional: Overload protection is new design one directional clutch that will only slip in the lift direction. All lever hoists meet ASME B30.21 and OSHA standards.

LA SERIES LEVER CHAIN HOIST							
Part Number	Capacity (tons)	Standard Lift (in)	Min. Headroom (in)	Number of Falls	Lever Length (in)	Pull Force Lift Capacity (lbs)	Weight for 5' lift (lbs)
LA008	3/4	5, 10, 15, 20	13.4	1	10.5	47	14.9
LA010	1	5, 10, 15, 20	13.4	1	12.1	51	15.3
LA016	1 3/4	5, 10, 15, 20	15.7	1	14.0	66	24.1
LA032	3 1/2	5, 10, 15, 20	20.5	1	16.5	72	44.8
LA063	7	5, 10, 15, 20	25.2	2	16.5	74	66.3



BADGER™ LEVER CHAIN HOIST							
Part Number	Capacity (lbs)	Capacity (tons)	Standard Lift (ft)	Min. Headroom (in)	Number of Falls	Lever Length (in)	Weight for 5' lift (lbs)
LC008	1,650	3/4	5, 10, 20	12.6	1	11.4	17
LC015	3,300	1 1/2	5, 10, 20	15.0	1	16.5	26
LC030	6,600	3	5, 10, 20	18.9	1	16.5	46
LC060	13,200	6	5, 10, 20	24.4	2	16.5	70

### Mini Hand Chain Hoist & Lever Hoists

Their small size allows operation and storage in tight places.

MINI MM HAND CHAIN HOIST & ML LEVER CHAIN HOIST							
Part Number	Capacity (lbs)	Capacity (tons)	Standard Lift (ft)	Min. Headroom (in)	Number of Falls	Lever Length (in)	Weight for 5' lift (lbs)
MM003-08-06	550	1/4	8	9.1	1	N/A	7.7
ML003-05	550	1/4	5, 10	8.5	1	6.2	4.4
ML005-05	1,100	1/2	5, 10	10.0	1	7.1	7.7



BEAM CLAMPS			
Part Number	Capacity (lbs)	Beam Flange Adjustment (in)	Weight (lbs)
BC-01	2,200	3.1 - 9.4	7.7
BC-02	4,400	3.1 - 9.4	9.9
BC-03	6,600	3.5 - 12.2	20.9
BC-05	11,000	3.5 - 12.2	24.2
BC-10	22,000	3.5 - 12.6	35.2

### Beam Clamps

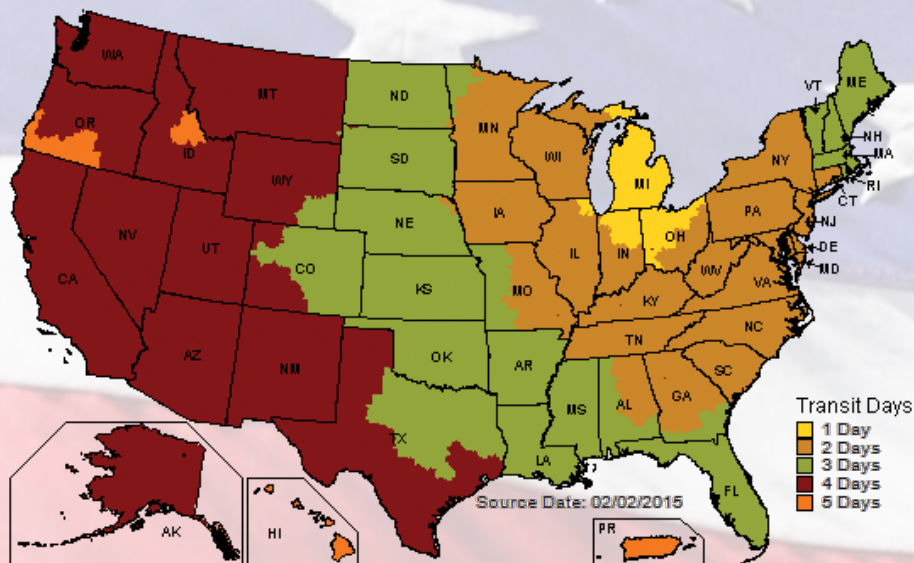
Beam clamps are easy an easy way to install a fixed hoist mount or rigging point. Simple installation by hand, no tools required. All beam clamps meet ASME B30 and OSHA standards.

## FRACTION AND DECIMAL CONVERSION TABLE

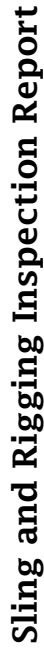
Fraction	Inches	Millimeters
1/32	0.031	0.8
1/16	0.063	1.59
3/32	0.094	2.38
1/8	0.125	3.18
5/32	0.156	3.97
3/16	0.188	4.76
7/32	0.219	5.56
1/4	0.25	6.35
9/32	0.281	7.14
5/16	0.313	7.94
11/32	0.344	8.73
3/8	0.375	9.53
13/32	0.406	10.32
7/16	0.438	11.11
15/32	0.469	11.91
1/2	0.5	12.7

Fraction	Inches	Millimeters
17/32	0.531	13.49
9/16	0.563	14.29
19/32	0.594	15.08
5/8	0.625	15.88
21/32	0.656	16.67
11/16	0.688	17.46
23/32	0.719	18.26
3/4	0.75	19.05
25/32	0.781	19.84
13/16	0.813	20.64
27/32	0.844	21.43
7/8	0.875	22.23
29/32	0.906	23.02
15/16	0.938	23.81
31/32	0.969	24.61
1	1	25.4

## UPS GROUND DELIVERY TIMES







Tag Color:

[illegible]



**AMERICAN**

**INDUSTRIAL**

**LIFTING PRODUCTS**



**23851 VREELAND ROAD  
FLAT ROCK, MICHIGAN 48134**

**5900 FRANKLIN AVENUE, STE 1  
WACO, TEXAS 76710**

**SAFE LIFT  
SAFE LIFE**



**Orders@SafeSlings.com  
877-789-9099 FAX**

**844-4SLINGS • 844-475-4647  
TX - 254-732-7572**

**WWW.SAFESLINGS.COM**