



Bed Mount Winch

A & M Sales Offers a complete Line of Winch Line Rope

Just give us a call and we can walk you through the process of ordering and replacing your wire rope. Wether you have a Bed Mount, Bumper Mount or Boom Tip Winch **We have the Wire Rope for you.**



Boom Tip Winch

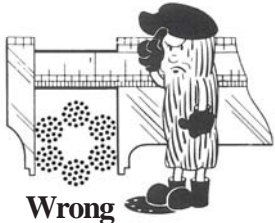


Bumper Mount Winch

How To Order Winch Line or Wire Rope

Steps 1 & 2

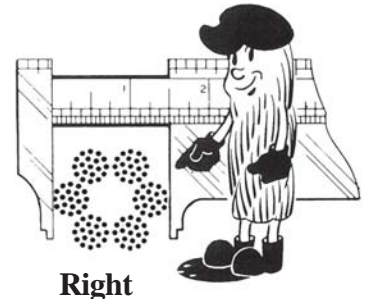
The first two steps in ordering Wire Rope is determining the length which is measured in feet end to end, and determining the diameter which is measured in inches.



Wrong

Steps 1 & 2

1. Determine Length by measuring end to end.
2. Determine diameter - the correct diameter of wire rope is the diameter of a circle which encloses the rope - the distance between its widest points.

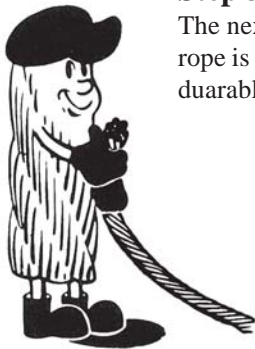


Right

4
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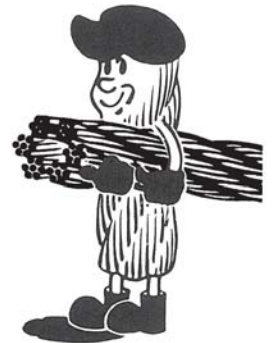
Step 3 & 4

The next two steps are to determine the number of strands and the strand construction. Wire rope is made in differnt combinations of thick and thin wire formed together to create a duarable long lasting winch rope.



Steps 3 & 4

3. Determine the number of strands. Strands made with a large number of small wires are more flexible than strands with a small number of large wires.
4. Determine the strand construction. The number of strands in wire rope may vary from three to eighteen. In the more familiar constructions, ropes are made of six strands.



Step 5

This next step is to determine the type of core that your wire rope contains. The core is the foundation of a wire rope around which the standrs are laid.

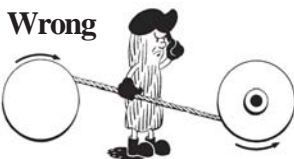


Steps 5

5. FC Fiber Core usually has a polypropylene fiber in it. IWRC Independent Wire Rope Core is a separete wire rope which serves as the core of the rope. The wire strand core is a single strand usually of the same construction as the other strands of rope.

Installing Rope on the Drum

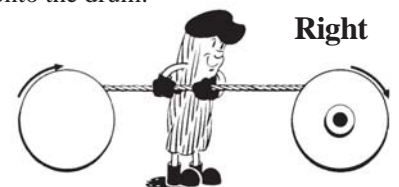
Whenever possible, it is a good practice to take rope directly from the reel onto the drum.



Wrong

Installation

1. To avoid putting any turn into the rope the reel should be placed as far away from the drum as possible.
2. Always keep the same direction of bending when making this transfer, because reverse bending will injure the rope.



Right

Wire Rope Selection
Improved Plow Steel &
Swedged Steel Construction



6 x 19 Fiber Core



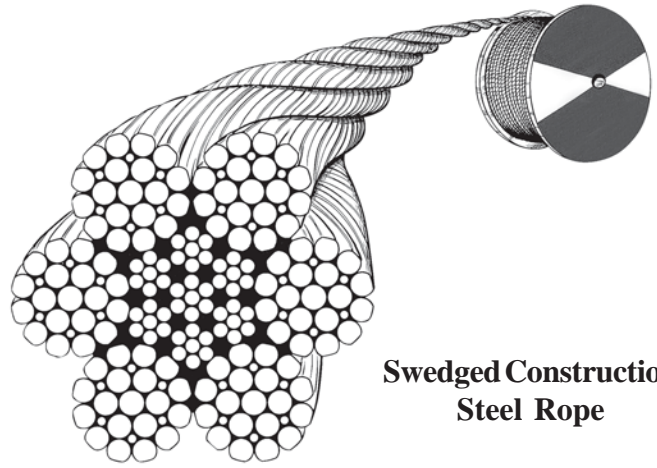
6 x 19 Steel Core



6 x 37 Fiber Core



6 x 37 Steel Core



Swedged Construction
Steel Rope

6 x 19 and 6 x 37 IPS

Swedged Wire
Construction

Fiber Core

IWRC Steel Core

IWRC Steel Core

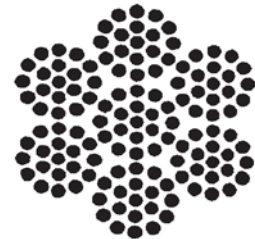
Rope Diameter	Strength (Tons)	Approximate Weight/Foot (Pounds)	Strength (Tons)	Approximate Weight/Foot (Pounds)	Strength (Tons)	Approximate Weight/Foot (Pounds)
3/16"	1.55	.059	1.67	.065	N/A	N/A
1/4"	2.74	.105	2.94	.116	N/A	N/A
5/16"	4.26	.164	4.58	.18	N/A	N/A
3/8"	6.10	.236	6.56	.26	8.8	.31
7/16"	8.27	.32	8.89	.35	11.9	.39
1/2"	10.7	.42	11.5	.46	15.3	.49
9/16"	13.5	.53	14.5	.59	19.2	.63
5/8"	16.7	.66	17.9	.72	22.7	.78



7 x 7 Aircraft Core

**Galvanized
Preformed Aircraft
Cable**

(For Non-Aircraft Use)



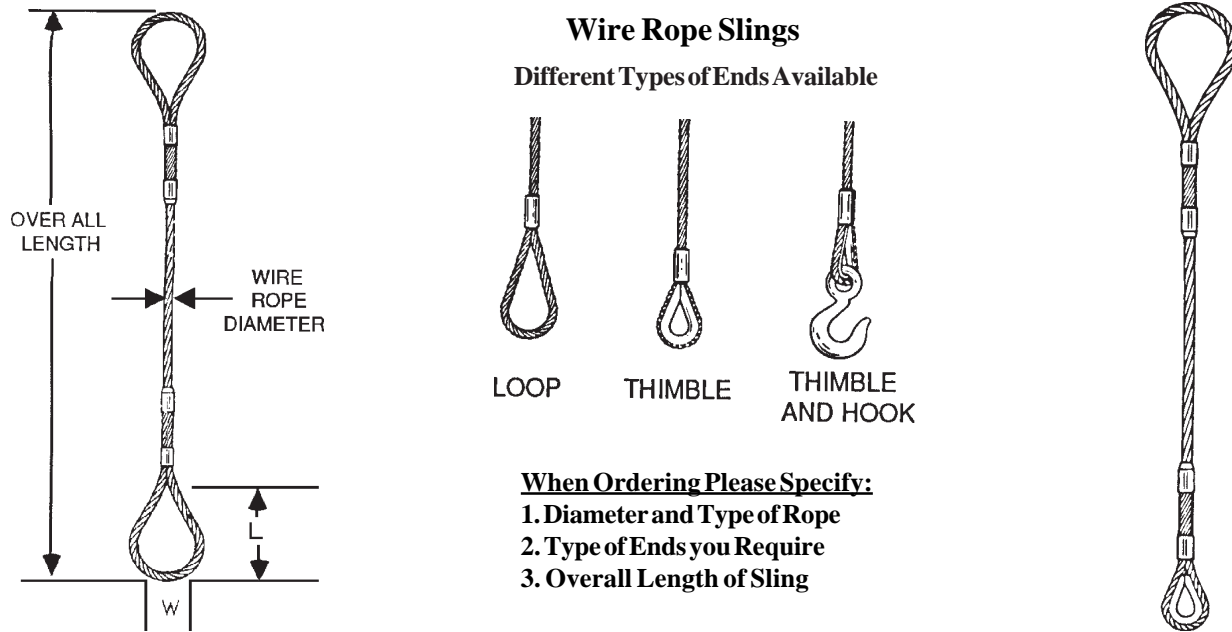
7 x 19 Aircraft Core

7 x 7 Galvanized
Wire Rope

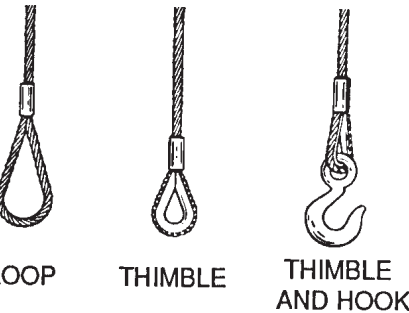
Rope Diameter	Break Strength (Pounds)	Weight/1000 Ft. (Pounds)
1/16"	480	7.5
3/32	920	16
1/8"	1,700	28
5/32"	2,600	43
3/16"	3,700	62

7 x 19 Galvanized
Wire Rope

Rope Diameter	Break Strength (Pounds)	Weight/1000 Ft. (Pounds)
1/8"	200	29
5/32"	2,800	45
3/16"	4,200	65
7/32"	5,600	86
1/4"	7,000	110
5/16"	9,800	173
3/8"	14,400	243



Wire Rope Slings
Different Types of Ends Available



When Ordering Please Specify:
1. Diameter and Type of Rope
2. Type of Ends you Require
3. Overall Length of Sling

Wire Rope Slings are made to your specifications in 1/4" Thru 2" Dia. Rope
Standard Size Rope Slings In 6 x 19 and 6 x 37 IWRC Rope and Fiber Core (FC)

Rope Diameter (In.)	Loop Size (Inches) W x L	IWRC Rope Slings Capacity In Tons			Fiber Core Rope Slings Capacity In Tons		
		Vert.	Chocker	Basket	Vert.	Chocker	Basket
1/4	2 x 4	.53	.40	1.0	.48	.36	.96
5/16	2-1/2 x 5	.87	.65	1.7	.79	.59	1.6
3/8	3 x 6	1.2	.93	2.5	1.1	.85	2.2
7/16	3-1/2 x 7	1.7	1.3	3.4	1.5	1.1	3.0
1/2	4 x 8	2.2	1.6	4.4	2.0	1.5	3.9
9/16	4-1/2 x 9	2.7	2.1	5.5	2.5	1.9	5.0
5/8	5 x 10	3.4	2.5	6.8	3.1	2.3	6.2

CAUTION: DO NOT EXCEED RATED CAPACITIES
If you need help in your sling selection call us Toll Free.

Safe-Line Clamps - For 1/16" thru 3/4" Wire Rope

Provides an efficiency of over 90% of rated wire rope strength - Accommodates 6 x 19 (I.W.R.C.) or 7 x 19 right-regular-lay wire rope - Easy-to-use 3 piece assembly - Can be field assembled faster than U-bolt clips, yet offers nearly the same smooth configuration as a swaged fitting - Encloses potentially hazardous wire ends -, Meets or exceeds all requirements for military standard MS-16843; and conforms to Federal Specification FF-C-450.



Part#	Description	Size	Part#	Description	Size
1051 - BX	Safe Line Clamps	1/8"	1056 - BX	Safe Line Clamps	3/8"
1053 - BX	Safe Line Clamps	3/16"	1058 - BX	Safe Line Clamps	1/2"
1054 - BX	Safe Line Clamps	1/4"	1060 - BX	Safe Line Clamps	5/8"
1055 - BX	Safe Line Clamps	5/16"	1062 - BX	Safe Line Clamps	3/4"

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Wire Rope Cutter

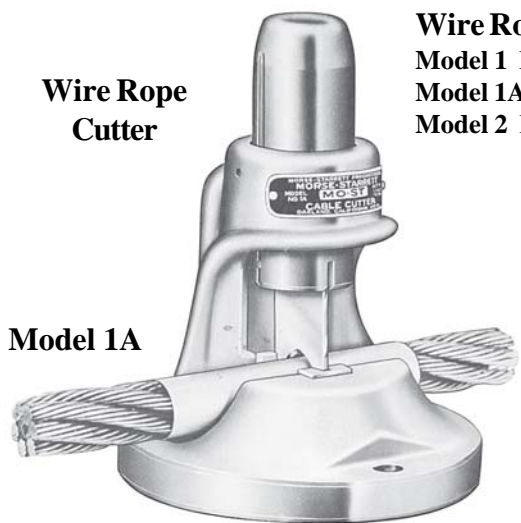
Wire Rope Cutter

Model 1 Designed for occasional on-the-job cutting up to 1" Diameter Rope.

Model 1A Designed for continuous cutting of rope over 5/8" diameter up to 1-1/16" Diameter.

Model 2 Designed for regular, and extra heavy-duty usage through 1-1/2" diameter rope.

Specifications: All are portable. Firm base required for operation.



Model 1A

Part #	Capacity	Height	Base	Weight
1	1"	6"	3-1/2"	7 lbs
1A	1-1/16"	7"	6-1/4"	15 lbs.
2	1-1/2"	9"	7-3/4"	28 lbs.



Model 1



Model 2

Replacement Parts Available



Cable Bands also Available
Steel or Galvanized
3/16" thru 1-1/2"

Winch Line Hook

The Eagle Winch Line Hook is a one piece forging with a "mushroom" head which inserts easily into the loop at the end of the winch line. Hook can be used on cable up to 3/4" in diameter. **10,000 lbs. maximum load**



Part #	Description	Opening
206B243/4	Winch Line Hook	3/4"
206B241	Winch Line Hook	1"

Snatch Block



Exclusive bolt retaining spring assures no lost bolts.

Units available with Safety Latch.

Snatch Block Dimensions and Ratings

Part #	Sheave Size	Center Pin Diameter	Wire Rope Size	Manila Rope Size	Weight (Pounds)	Safe Working Load Tons
418-3	3"	3/4"	5/16" - 3/8"		3	2
418-4-1/2	4-1/2"	1"	3/8" - 1/2"	1"	11	4
418-6	6"	1-1/2"	5/8" - 3/4"	1-1/2"	26	8
418-8	8"	1-1/2"	5/8" - 3/4"	1-1/2"	33	8



Polypropylene Rope

Polypropylene Rope

This rope is a premium grade 100% Monofilament rope that is versatile and economical. Poly rope will not rot or mildew. This is great rope for fish line, and general purpose uses. Try a roll and I'm sure you will agree. Available in bulk reels starting at 600 feet. Call for availability.



Part#	Size	Description	Minimum Tensile (lbs.)	Weight/100 Ft.
2109P	3/16"	Polypropylene Rope	720	.7 lbs.
6109P	1/4"	Polypropylene Rope	1,130	1.2 lbs.
0209P	5/16"	Polypropylene Rope	1,710	1.8 lbs.
4249P	3/8"	Polypropylene Rope	2,440	2.7 lbs.
8249P	7/16"	Polypropylene Rope	3,160	3.8 lbs.
2349P	1/2"	Polypropylene Rope	3,780	4.7 lbs.
0409P	5/8"	Polypropylene Rope	5,600	7.5 lbs.
8409P	3/4"	Polypropylene Rope	7,650	10.7 lbs.
6509P	7/8"	Polypropylene Rope	10,400	15.0 lbs.
0019P	1"	Polypropylene Rope	12,600	18.0 lbs.

4
0
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Composite Double Braid Winch Rope

Cable Pulling Rope

Composite Double Braid rope with shock absorption properties similar to nylon and a higher tensile strength than either nylon or polyester. This rope offers even balance and excellent resistance to abrasion, sunlight and most comon chemicals. Color: White with double green marker.

Urathane coating available for extra abraision resistance.



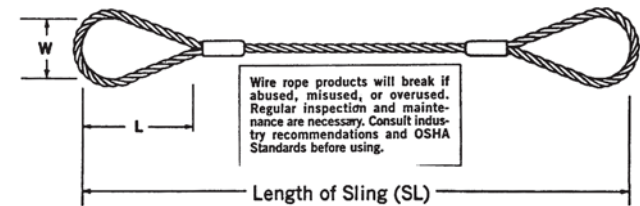
All ropes available in standard 600 ft. and 1,200 ft. cable pulling lengths with factory spliced eye on one or both ends.

Excellent for Boom Tip Winches
(Available with Spliced Eyes)

Part#	Size	Description	Minimum Tensile (lbs.)	Weight/100 Ft.
CPWL38	3/8"	Composite Double Braid Winch Rope	5,000	4.0 lbs.
CPWL12	1/2"	Composite Double Braid Winch Rope	9,500	7.5 lbs.
CPWL916	9/16"	Composite Double Braid Winch Rope	14,000	9.0 lbs.
CPWL58	5/8"	Composite Double Braid Winch Rope	18,000	12.0 lbs.
CPWL34	3/4"	Composite Double Braid Winch Rope	23,000	15.0 lbs.
CPWL78	7/8"	Composite Double Braid Winch Rope	32,000	22.0 lbs.
CPWL1	1"	Composite Double Braid Winch Rope	42,000	26.0 lbs.

Diameters Up to 2" and Lengths Up to 20,000' Available

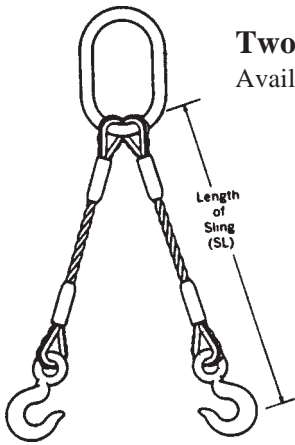
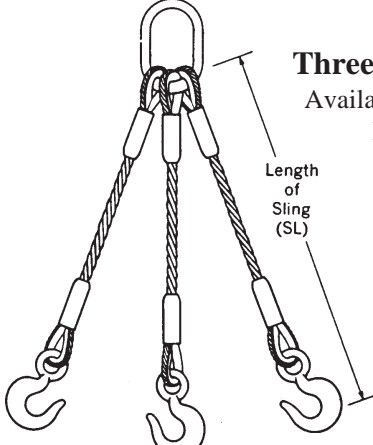
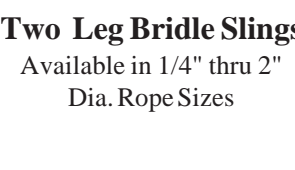

Tensile Strength is Based on Tests of New, Unused Rope Under Laboratory Conditions



Braided Slings

Braided Slings are good general purpose slings that possess several advantages over strand laid slings. These slings possess excellent gripping and load-hugging characteristics, in addition to excellent flexibility and kink resistance. Another advantage of braided construction is the non-spinning tendency when supporting a free hanging load on a single leg sling.

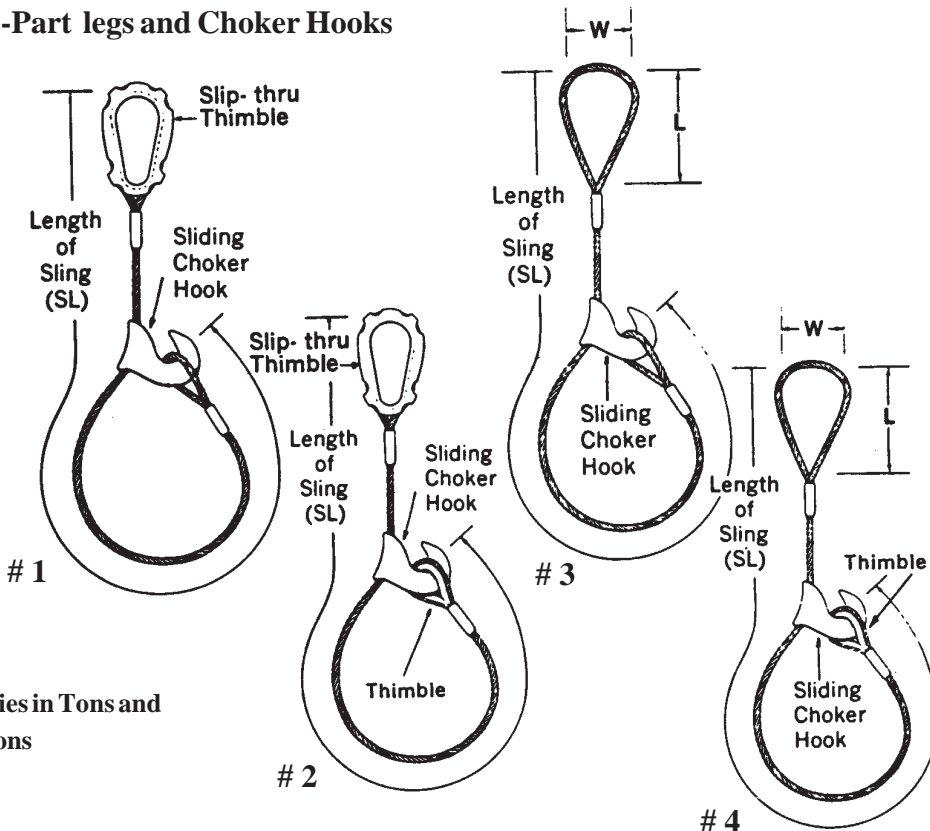
400

 <p>Two Leg Bridle Slings Available in 1/4" thru 2-1/4" Dia. Rope Sizes</p> <p>Length of Sling (SL)</p>	 <p>Three Leg Bridle Slings Available in 1/4" thru 2-1/4" Dia. Rope Sizes</p> <p>Length of Sling (SL)</p>
 <p>Two Leg Bridle Slings Available in 1/4" thru 2" Dia. Rope Sizes</p> <p>Length of Sling (SL)</p>	 <p>Four Leg Bridle Slings Available in 1/4" thru 2" Dia. Rope Sizes</p> <p>Length of Sling (SL)</p>

Call for rated Capacities in Tons and Specifications

Sling with Single-Part legs and Choker Hooks

Available in 1/4" thru 1-1/2" Dia. Rope Sizes in four different combinations - see drawing at right



Call for rated Capacities in Tons and Specifications



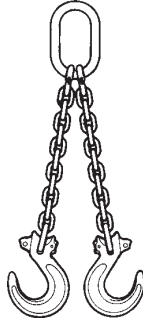
Chain Slings

Available with different combinations of end hooks
(Call for specifications on all Chain Slings)

Single Chain Sling



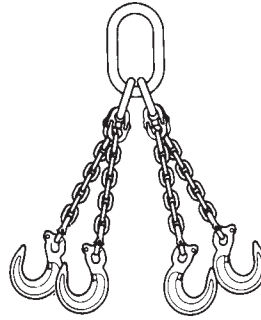
Double Chain Sling



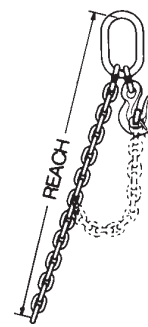
Tripple Chain Sling



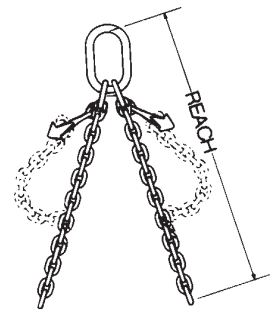
Quad Chain Sling



Single Adjustable Loop Chain Sling



Double Adjustable Loop Chain Sling

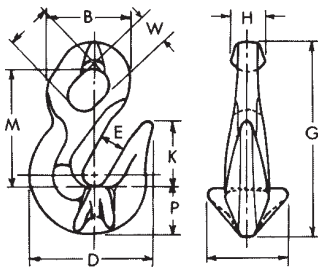


Hooks & Couplings

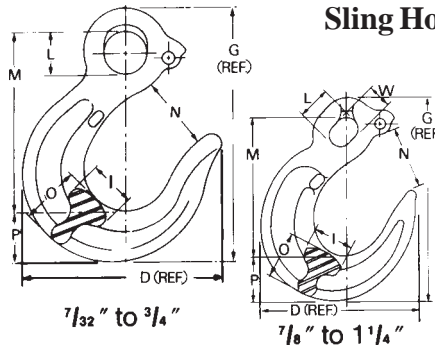
(Specifications on Hooks and Couplings available on request)

** Available with/without Latch

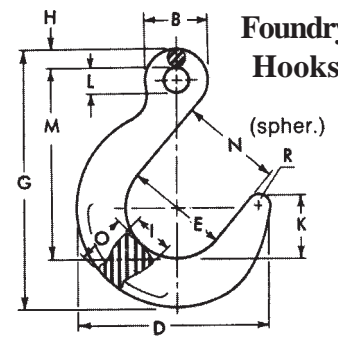
Cradle Grab Hook



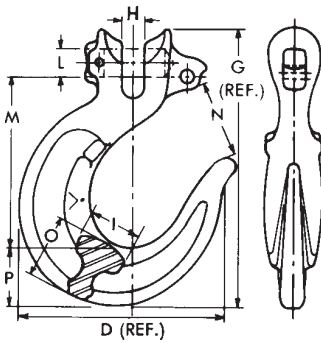
Sling Hooks**



Foundry Hooks

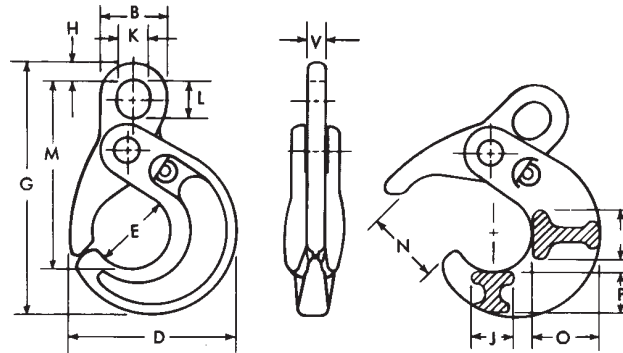


Clevlok Sling Hooks**

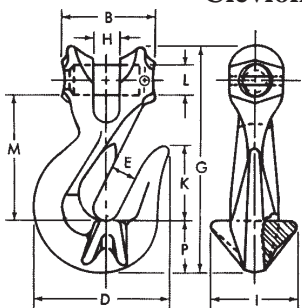


Latchlok Hooks

Designed for simplified rigging and more secured load attachment. Recessed, push button thumb release; will not open accidentally even if chain goes slack; eliminates danger of open hook snagging on a projection.



Clevlok Cradle Grab Hooks

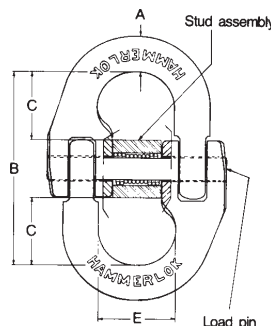


Combines unique Cradle Grab design with a simple, dependable clevis devise for do-it-yourself hook attachment.



Hammerlok Coupling Link

Dependable and easy to use for fast, on-the-job assembly; for attaching chain to master links and eye-type hooks, and installing new body chain in old slings.



Web Slings

Metal Hardware Slings

Light Duty Slings

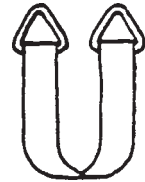
Single Ply 6800 lbs. Per Inch of Web Width

**Type 1
Tri-Chocker**



Part # Type-1	Part # Type-2	Rated Capacity in Pounds		
		Vertical	Choker	Basket
TC1-62	TT1-62	2400	2000	4800
TC1-63	TT1-63	3600	2700	7200
TC1-64	TT1-64	4800	3800	9600
TC1-66	TT1-66	7200	5400	14400

**Type 2
Tri-Tri Slings**



Type 1 and also Type 2 Available in Two Ply.

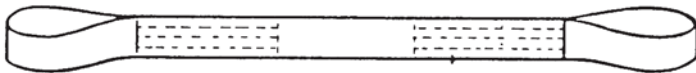
Heavy Duty Slings

Single Ply 9800 lbs. Per Inch of Web Width

Part # Type-1	Part # Type-2	Rated Capacity in Pounds		
		Vertical	Choker	Basket
TC1-92	TT1-92	3200	2500	6400
TC1-93	TT1-93	4800	3800	9600
TC1-94	TT1-94	6400	5000	12800
TC1-95	TT1-95	8000	6000	16000
TC1-96	TT1-96	9600	7200	19200

Eye & Eye Slings

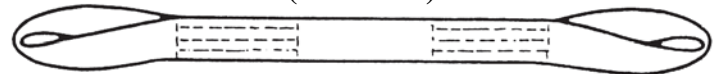
Type 3 - Flat Eyes



Light Duty Slings

Single Ply 6800 lbs. Per Inch of Web Width

**Type 4 - Twisted Eyes
(Reversed)**



Heavy Duty Slings

Single Ply 9800 lbs. Per Inch of Web Width

Part # Type - 3 & 4	Rate Capacity in Pounds		
	Vertical	Choker	Basket
EE1-61	1200	900	2400
EE1-6175	2100	1600	4200
EE1-62	2400	2000	4800
EE1-63	3600	2700	7200
EE1-64	4800	3600	9600
EE1-66	7200	5400	14400

Part # Type - 3 & 4	Rated Capacity in Pounds		
	Vertical	Choker	Basket
EE1-91	1600	1200	3200
EE1-92	3200	2500	6400
EE1-93	4800	3800	9600
EE1-94	6400	5000	12800
EE1-95	8000	6000	16000
EE1-96	9600	7200	19200

Type 3 & 4 also available in Two, Three & Four Ply

Flat Eye Slings : Eyes are formed as the material is folded back and sewn flat to the sling body. A general purpose sling that can be used in any hitch.

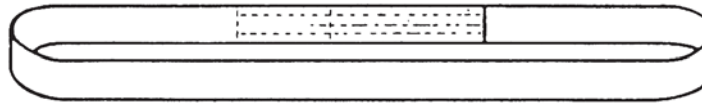
Twisted Eye Slings : Eyes are formed by turning the web 180 degrees before sewing to the sling body. This provides snug chocking, and can be used in any hitch.

Flat eyes are standard, please specify if you require twisted eyes.



Endless Slings

Type 5



Type 5

Two and Three Ply also Available

Light Duty Slings

Single Ply 6800 lbs. Per Inch of Web Width

Part #	Rated Capacity in Pounds		
	Type - 3 & 4	Vertical	Basket
EN1-61		2400	4800
EN1-6175		4200	8400
EN1-62		4800	9600
EN1-63		6500	13000
EN1-64		8600	17200
EN1-66		12200	24400

Heavy Duty Slings

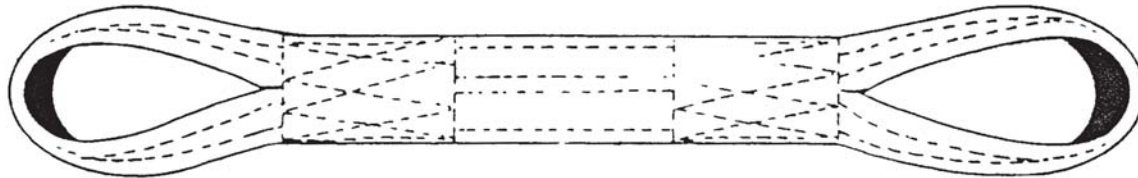
Single Ply 9800 lbs. Per Inch of Web Width

Part #	Rated Capacity in Pounds		
	Type - 3 & 4	Vertical	Basket
EN1-91		3200	6400
EN1-92		6400	12800
EN1-93		8600	17200
EN1-94		12000	24000
EN1-95		15000	30000
EN1-96		18000	36000

Endless Slings: Most versatile type as load wear points can be rotated. Used in choker, vertical and basket hitches. Hook contact points can be tapered and reinforced for longer sling life

Reverse Eye Slings

Type 6



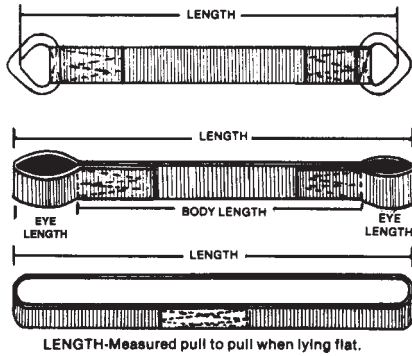
Type 6

Part #	Width	Rated Capacity in Pounds			Eye Length
		Vertical	Choker	Basket	
RE1-62	2"	3500	3000	7200	9"
RE1-92	2"	4500	3600	9000	9"
RE2-62	2"	6000	4800	12000	12"
RE2-92	2"	7500	6000	15000	12"
RE1-635	3.5"	5000	4000	10000	12"
RE2-635	3.5"	9000	7200	18000	12"
RE3-635	3.5"	12000	9600	24000	15"
RE1-64	4"	6800	5600	13600	12"
RE1-94	4"	7700	6200	15400	12"
RE2-64	4"	10500	8400	21000	12"
RE2-94	4"	13000	10400	26000	12"
RE3-64	4"	18000	14500	36000	15"

6" Width also available

Reversed Eye Slings: This model will out-perform all sling types when conditions are abusive and continuous. The inside of both eyes and body are lined and protected with cordura.

HOW TO ORDER WEBSLINGS FROM - A & M SALES, INC.



EXAMPLE:

- | | |
|--|-------|
| 1. SPECIFY TYPE | 4 |
| 2. SPECIFY PLY | 1 |
| 3. SPECIFY WIDTH | 4 |
| 4. SPECIFY LENGTH | 5 |
| 5. SPECIFY DUTY | LIGHT |
| 6. SPECIFY LOCATION OF WEAR PADS OR SLEEVES (OPTIONAL) | NONE |

A & M WILL CALCULATE FOR YOU THE RESULT
TYPE 4 PART #EE1-64/5 FT. LG.

Measure Pull to Pull When Flat

When Ordering, Consider:

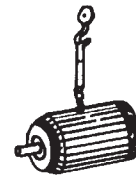
Choker: One eye of sling on hook. Sling passes through other eye.

Vertical: One eye of sling on hook. Other eye attached to load.

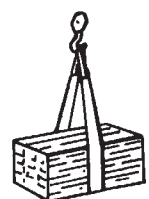
Basket: Both eyes of sling on hook.



CHOKER



VERTICAL

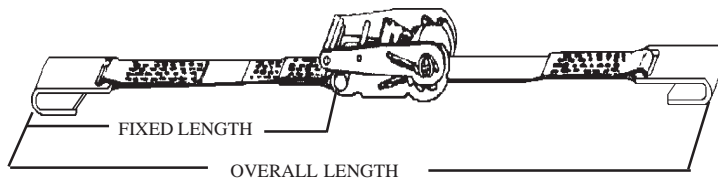


BASKET

Web Ratchet Tie-Down Assemblies

Style 1 - Two Piece

- Standard assembly consists of ratchet buckle and flat hooks both ends. 27" O.A. Length, 18" Fixed Length
- Available in 2" Web
- Available in 10,000 lb. capacities.



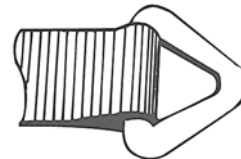
Fixed End Attachments



Flat Hook



Forged Snap



Forged Dees

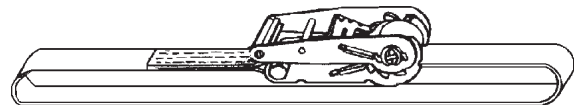


Loop End

**Ratchet Assemblies are Fabricated of Polyester or Nylon Web.
All other End Attachments by Quotation**

STYLE II - Single Endless Buckle with Web

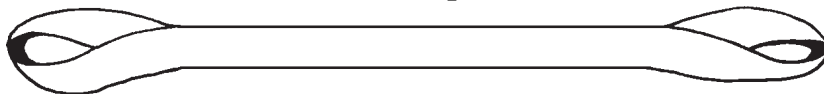
- Standard assembly consists of buckle and 15' of webbing sewn to the ratchet buckle.
- Available in 2" Web.
- Available in 10,000 lb. capacities.



400



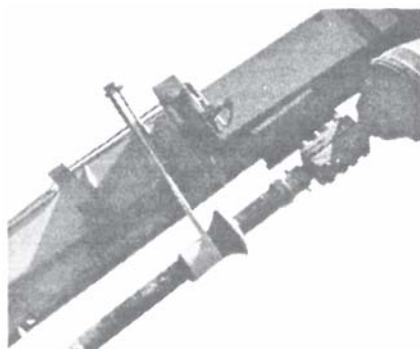
Vehicle Recovery Straps (Tow Straps)



Designed for Off-Road Vehicles, the elastic properties of Nylon Web frees stuck vehicles without the use of dangerous, chains or cables.

- Standard Straps:** 2" X 25' or 30' - 20,000 lbs Ult. Tensile
 3" X 25' or 30' - 27,000 lbs Ult. Tensile
 4" X 25' or 30' - 36,000 lbs Ult. Tensile
 5" X 25' or 30' - 54,000 lbs Ult. Tensile

Each strap packaged in Poly Bag with complete Instructions



Nylon Auger Slings

These slings are perfect for securing auger to digger arm while not in use or in transit. These easy to use slings are available of the shelf in many standard sizes. Listed below are the most common sizes.



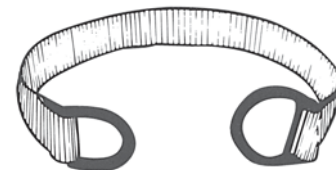
Part #	Description	Size (W x L)
AS 108	Nylon Auger Sling	1" x 8'
AS 109	Nylon Auger Sling	1" x 9'
AS 110	Nylon Auger Sling	1" x 10'

Pole Slings

This sling was specifically designed for lifting and moving utility poles easily and quickly.

Part #	Description	Length	Width
30NPS	Pole Sling	30"	2"
36NPS	Pole Sling	36"	2"
48NPS	Pole Sling	48"	2"

Unlimited use where Choker or Basket Lift is Desired



Other Sizes Available

Pole Sling

Nylon Web Lanyards

Fixed Length Lanyard

This lanyard offers a 1" wide Nylon Webbing with a snap at one end and a sewn loop on the other. This lanyard has the ability to adjust in length and is also available with snaps on both ends.

Part #	Description	Width	Length	Weight
2057XN	Lanyard, Fixed Length (Snap one end, Loop other end)	1"	6'	13 oz.
2055XN	Lanyard, Fixed Length (Snaps on both ends)	1"	6'	1.25 lbs.



Adjustable Length Lanyard

This lanyard offers a 1" wide Nylon Webbing with snaps on both ends for easy use. This lanyard has a length adjustment buckle sewn in for easy use.

Part #	Description	Width	Length	Weight
2051XN	Lanyard, Adjustable Length (Snaps on both ends)	1"	6'	1.25 lbs



Nylon Rope Lanyards

Rope Elongation Information: Permanent elongation takes place the first time rope is loaded. After repeated applications of the same load, most rope will stretch no further. All A & M rope and webbing lanyards meet or exceed all current government requirements.



Nylon Rope Lanyard

Used for a wide variety of applications this lanyard was deigned as a connecting device with a snap at one end and a burn finished end at the other. Rope diameter is 1/2" with a standard length of 6'.

Custom lengths available upon request.

Part#	Description	Length	Rope Dia.	Weight
2001XN	Nylon Rope Lanyard	6'	1/2"	1 lb.



Nylon Rope Lanyard

This Nylon Rope Lanyard is the same as the one above only this one comes with snaps on both ends for easy use. Rope diameter is 1/2" with a standard length of 6'. **Custom lengths available upon request.**

Part#	Description	Length	Rope Dia.	Weight
2056XN	Nylon Rope Lanyard	6'	1/2"	1 lb. 3 oz.



Adjustable Nylon Rope Lanyard

Used for a wide variety of applications this lanyard was deigned as a connecting device with a snaps on both ends and the ability to adjust in length as to the desired job. Rope diameter is 1/2" with a standard length of 6'.

Custom lengths available upon request.

Part#	Description	Length	Rope Dia.	Weight
2056AL	Nylon Rope Lanyard, Adjustable	6'	1/2"	1 lb. 13 oz.



Nylon Rope Lanyard

This Nylon Rope Lanyard is the same as the one above only this one comes with one regular snap and one large opening double lock rebar snap. Rope diameter is 1/2" with a standard length of 6'.

Custom lengths available upon request.

Part#	Description	Length	Rope Dia.	Weight
2059	Nylon Rope Lanyard	6'	1/2"	2 lb. 1 oz.



Nylon Rope or Web Lanyards with Shock Absorbers

These Lanyards were designed with shock absorbers built into the line to cushion the shock of a fall. These lanyards come with snaps on both ends. **Shock Absorbers are available in varying lengths with differnet combinations of loops and hardware call for pricing.**

Part#	Description	Length	Rope Dia.	Weight
08S	Nylon Rope Lanyard with Shock Absorber	6'	1/2"	2 lbs.
09S	Nylon Web Lanyard with Shock Absorber	6'	1"	2 lbs.



Hardware for Lanyards & Shock Absorbers

Replacement snaps for rope and web lanyards. These snaps come in various sizes for each of your needs or applications.



Part#	Description	Eye Size	Weight
3155	Double Lock Rope Snap	1"	8 oz.
3130	Double Lock Rope Snap	1"	14 oz.
3129	Double Lock Rope Snap	1"	14 oz.

• Lanyards can be supplied in any length on special order. When ordering state overall length required.