



2013 EDITION

# **MUNCY™** INDUSTRIES

*Catalog  
&  
User's Manual*



***Inspiring Confidence***



## Four Divisions, One Mission

Our mission is to provide quality wire rope fittings, lifting hardware and machines at competitive prices to serve our customers. We at Muncy Industries, along with our experienced employees, are committed to providing the ultimate in quality and service.



## Companies History

**Muncy Machine & Tool Co., Inc.** is the successor to Muncy Machine & Repair Company, founded in 1949 by Charles J. Kunz. The business originally occupied a 4,000 square foot building situated near Muncy, Pennsylvania. In addition to general repair work, the company began machining parts for J&L Wire Rope in Muncy, and Bethlehem Steel in Williamsport.

Service was expanded over the years to other companies in the wire rope industry and Charles' grandson, James R. Fetter Jr., took the reins in 1976 becoming the company's president. The very next year, Muncy moved to its current location near Turbotville, Pennsylvania, consisting of a manufacturing plant and office complex.

Founded in 1871 as a ship chandler supplying ships on the Great Lakes, **The Upson-Walton Company** became one of the nation's leading manufacturers and suppliers of wire rope fittings. The company was purchased by Ophelia Fetter in 1986 and moved to its current location in Turbotville, PA.

**Muncy Marine & Architectural** and **Muncy Measurements** were established in 2011 to focus on their respective markets. These four divisions work together, providing the ultimate quality and service for you, our customer.



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# Muncy™ Industries

P.O Box 205, Muncy, PA 17756  
Phone (570) 649-5188  
Over 130 Years Serving the Wire Rope Industry

## Machining Dimensions for Non-Standard Items

Customer Name: \_\_\_\_\_  
Contact Name: \_\_\_\_\_  
QUANTITY: \_\_\_\_\_

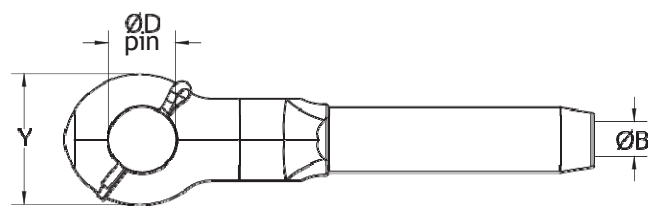
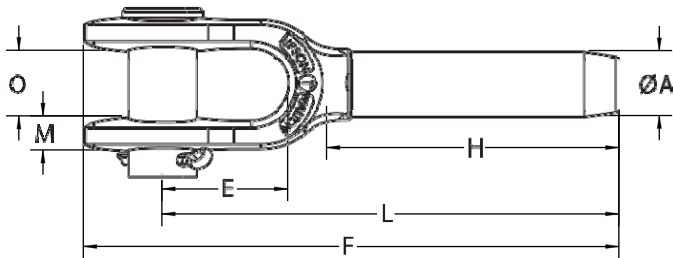
Phone: \_\_\_\_\_  
Fax: \_\_\_\_\_  
MATERIAL: \_\_\_\_\_

### OPEN SWAGE SOCKET

Pieces Required: \_\_\_\_\_

Date Required: \_\_\_\_\_

Rope Dia.	A	B	D	Pin Length	E	F	H	L	M	O	Y

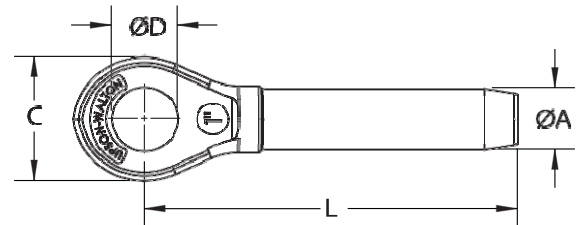
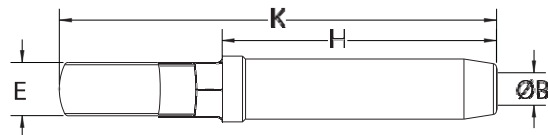


### CLOSED SWAGE SOCKET

Pieces Required: \_\_\_\_\_

Date Required: \_\_\_\_\_

Rope Dia	A	B	D	E	H	K	L

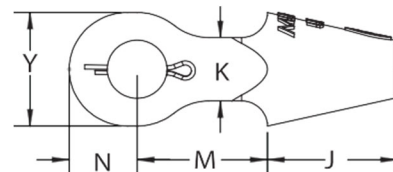
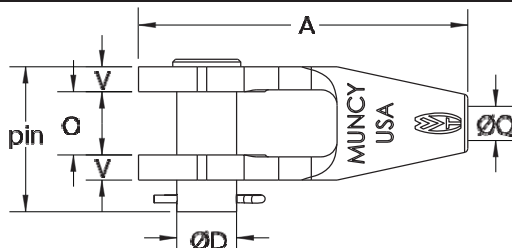


### MUNCY™ SPELTER SOCKETS

Pieces Required: \_\_\_\_\_

Date Required: \_\_\_\_\_

Rope Dia	D	J	M	N	O	Q	V



Fill in the blanks and fax to (570) 649-5850 or e-mail to [sales@muncyindustries.com](mailto:sales@muncyindustries.com) for a quick quotation.  
All dimensions subject to tolerances.



# Muncy™ Industries

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## Machining Dimensions for Non-Standard Items

Customer Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Fax: \_\_\_\_\_

QUANTITY: \_\_\_\_\_

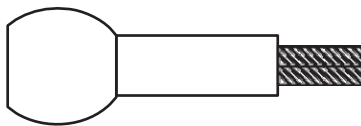
MATERIAL: \_\_\_\_\_

BEFORE SWAGE ☐ AFTER SWAGE ☐ WRENCH FLATS ☐

### BALL SHANKS

Ball Dimensions

Diameter \_\_\_\_\_  
1/2, 3/4, or Full \_\_\_\_\_



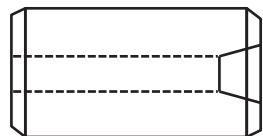
Shank

O.D. \_\_\_\_\_

Length \_\_\_\_\_

I.D. \_\_\_\_\_

### BUTTONS



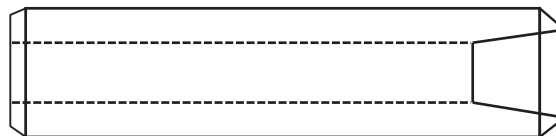
O.D. \_\_\_\_\_

Length \_\_\_\_\_

I.D. \_\_\_\_\_

### THREADED STUDS

(threaded after swaging)



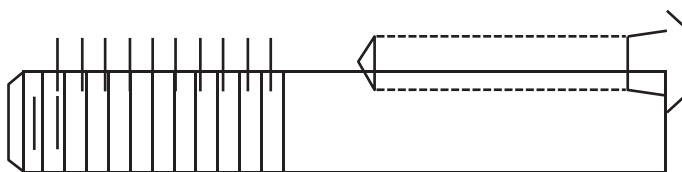
O.D. \_\_\_\_\_

Length \_\_\_\_\_

I.D. \_\_\_\_\_

### THREADED STUDS

STS Style (A)



NC or NF

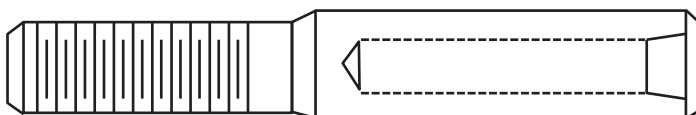
RH or LH

Thread Length \_\_\_\_\_

I.D. \_\_\_\_\_

Approx. O.A. Length \_\_\_\_\_

TTS Style (B)



NC or NF

RH or LH

Thread Length \_\_\_\_\_

I.D. \_\_\_\_\_

Approx. O.A. Length \_\_\_\_\_

Fill in the blanks and fax to (570) 649-5850 or e-mail to [sales@muncyindustries.com](mailto:sales@muncyindustries.com) for a quick quotation.

All dimensions subject to tolerances.



## General Cautions



Failure to follow instructions can result in serious injury or death. Make sure purchasers and end users of Muncy Machine & Tool Co., Inc., read and understand all warnings and instructions.

All products manufactured, distributed or handled by Muncy Industries are sold with the express understanding that the purchaser and user are thoroughly familiar with the safe and proper assembly, use and application of the product. Misapplication, abuse or improper maintenance can result in serious property damage, injury or death. Responsibility for the use and application of the products rests with the user. Muncy Industries make no guarantee and therefore make no express or implied warranties as to any performance of any of its products that were misapplied, abused or received improper maintenance.

Muncy Industries expressly recommends the following safety precautions when using its products to avoid common misapplications, abuses or improper maintenances, though acknowledge that many other safety precautions exist.

- Avoid jerking, impacting or swinging loads in an unreasonable manner;
- Avoid side loading;
- Conduct all lifting operations in such a manner so that if any equipment fails, no person will be injured;
- Do not weld or modify the fittings;
- Train personnel;
- Use correct rope length; and
- Do not overload or load past the working load limit of the attached wire rope.

If you have any questions as to proper use of any product of Muncy Industries and/or Muncy Machine & Tool Co., Inc. and The Upson-Walton Company, please contact (570) 649-5188.



### WARNING



Not all Muncy™ wire rope fittings are designed to hold the breaking strength of wire rope. This is especially true of modified wire rope fittings. Muncy Machine & Tool Co., Inc. makes no representation or warranty of any kind or nature whatsoever with respect to a fitting's ability to support the breaking strength of the attached wire rope.

**Testing is recommended.**





# Sockets Cautions



## Sockets Installation

The following socketing methods are general in nature and have been proven over years of use. Procedures for zinc and resin differ significantly, but will achieve the same result. Slight variations to these procedures have been used with acceptable results, however the effectiveness of any change cannot be predetermined without destructive tests.

There are many ways to go **wrong** in socketing procedures. Some of the more common pitfalls that should be guarded against include:

1. Turning the strands back, inward or outward, before the "boom" is inserted into the socket;
2. Turning back the strands and seizing them to the body of the rope;
3. Turning back the strands and tucking them into the body of the rope;
4. Tying a knot in the rope;
5. Wedging nails, spikes, bolts, etc. into the socket after the rope is inserted in an attempt to secure a tight fit. This is a particularly dangerous practice.

## Socket Reuse

All warranties from Muncy are voided if spelter sockets are reused. If spelter sockets are to be reused, wire rope manufacturers recommend certain procedures to be followed. Contact Muncy for any assistance on dimensional, chemical or physical properties. All sockets that are to be reused should be:

1. Magnetic particle inspected (100% of fitting) to locate any cracks (surface defects) that may have developed over the use of the fitting. Discard the socket if any cracks are found.
2. Dimensionally checked. The pin hole should not be elongated more than 5% of the original dimension.
3. Thermally stress relieved.

## Spelter Socketing - Zinc Poured

When using Zinc socketing media, be sure to have adequate ventilation. The Zinc used should meet ASTM specifications designation B6-49 Grade (1) Prime Western or better. SDS sheets are available from Muncy.

The following steps give a general outline to follow for socketing with Zinc.

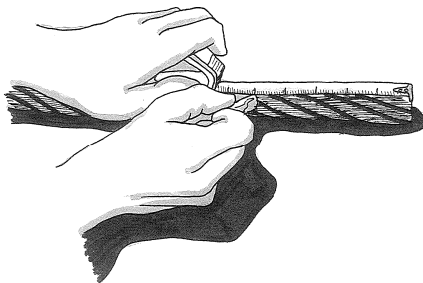


Fig. 1

1. *Measure the Rope Ends to be socketed*  
The rope should be of sufficient length so that the ends of the unlaid wires from the strands will be at the top of the socket basket. (Fig. 1)
2. *Apply Serving at Base of Socket*  
Apply a tight serving band for the length of two rope diameters, at the point where the socket base will be to eliminate any distortion the band of the wires and strands.



# Sockets Cautions

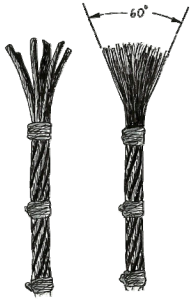


Fig. 2

### 3. *Broom Out Strand Wires*

Unlay and straighten the individual rope strands and spread them evenly so that they form an included angle of approximately 60 degrees. Unlay the wires of each individual strand for the full length of the rope end-being careful not to disturb or change the lay of the wires and strands under the serving band. Unlay the wires of the independent wire rope core (IWRC) in the same manner. A fiber core should be cut out and removed as close to the serving band as possible. (Fig 2)



Fig. 3

### 4. *Clean the Broomed-Out Ends*

A suggested cleaning solvent for this step is Bromothane R or equivalent solvent. These are known under n-Propyl Bromide or Normal Propyl Bromide (nPB).

Other proven cleaning methods may be used, such as hot detergents. The continued availability of the current cleaning solvents is uncertain due to the federal regulations concerning ozone depleting substances. For information on available solvents consult the solvent suppliers.

**CAUTION:** Breathing the vapor of this solvent is harmful; it should be used in a well-ventilated area. Be sure to follow the solvent manufacturer's instructions, and carefully observe all instructions printed on the label. Note that vapor densities may vary, some solvent vapors do not rise but may stay close to the ground. Refer to solvent SDS sheets.



Fig. 4

Swish the broomed-out end in the solvent, then brush vigorously to remove all the grease and dirt. Make certain that the wires are clean from the very bottom of the broom up to the serving band (Fig. 3). One of the best and preferred cleaning methods for rope ends prior to socketing is ultrasonic cleaning using a suitable solvent. After this cleaning step, place the broomed-out end pointing downward, allowing the remaining solvent to evaporate and the wires are dry.

Solvent should never be permitted to remain on the top or on the serving band since it will run down the wires when the rope is turned upright.

### *Dip the Broomed-Out Rope Ends in Flux*

5. Mix a flux comparable to hot zinc-ammonium chloride with 1 gallon of water; maintain a solution temperature of 180 degrees to 200 degrees F. Swish the broomed-out end in the flux solution (Fig. 4), then point the rope end downward until the wires have dried thoroughly.

### *Close Rope Ends and Place Socket*

6. Use clean seizing wire to compress the broomed-out end into a tight bundle which will permit the socket to be slipped easily over the wires (Fig. 5). Before placing the socket on the rope, make certain the socket is clean and no moisture is present inside the bowl of the socket. Heating the socket will dispel any residual moisture and will also prevent the zinc from freezing or cooling prematurely.



Fig. 5



# Sockets Cautions



Fig. 6

Another method of placing the socket onto the rope is to first cover the end of the rope with a wrapping or split tubing; then slide the socket onto this section of the covered rope, this will prevent contamination of the inner surface of the socket by the wire rope lubricant. Once the end of the wire rope is cleaned and broomed, the socket can be slid into position and the wrapping or split tubing can be removed.

**CAUTION: Never heat a socket after it has been placed on the rope. This could cause damage to the rope.**

After the socket is on the rope, the wires should be distributed evenly in the socket basket so the zinc can surround each wire. Use extreme care in aligning the socket with the rope's center line, and in making certain there is a minimum vertical length of rope extending from the socket equal to about 30 rope diameters. This vertical length is necessary for rope balance. Premature wire breaks at the socket can occur if the rope is not balanced at pouring.

Seal the socket base with fire clay or putty but make certain the material does not penetrate into the socket base. Should this occur, it could prevent the zinc from penetrating the full length of the socket basket thereby creating a void (fig 6).

Insert Lube Tube in the middle of the basket, if required.

## *Pour the Zinc*

7. Pour the zinc at a temperature between 925 degrees and 975 degrees F (Fig. 7).

**CAUTION: Do not heat zinc above 1000 degrees F. Overheating of zinc may affect its bonding properties. The zinc temperatures may be measured with a portable pyrometer or thermocouple. Remove all dross from the top of the zinc pool before pouring. Pour the zinc in one continuous stream until it reaches the top of the basket and all wire ends are covered. There should be no "capping" of the socket, unless the customer requires a smooth surface with no shrinkage on the top of the basket. The use of a pinhole in the basket may be employed to allow air and voids within the zinc.**

## *Remove Serving*

8. After the zinc and socket have cooled, remove the fire clay or putty and the serving band from the socket base, and check to make certain that the zinc has penetrated to the socket base.

## *Lubricate the Rope*

9. Apply the wire rope lubricant to the rope at the base of the socket and on any rope section where the original lubricant may have been removed.



Fig. 7





# Sockets Cautions



## Spelter Socketing - Resin Poured

Before proceeding with a resin socketing procedure, check the resin manufacturer's instructions carefully. Each resin system has specific procedures and steps which must be followed in the order specified for the system to give the desired results. Since any resin system depends upon a chemical reaction, the procedure becomes critically important. Give particular attention to selecting sockets designed for resin socketing. Stainless steel spelter sockets and stainless steel rope or strand should not be used with resin socketing media. All properties and precautions of resins should be obtained from the resin manufacturers. Take special note of the "shelf life" of the resin being used.

The following steps give a general outline to follow for resin socketing; they should not be used as a substitute for detailed instructions supplied by the resin manufacturer.

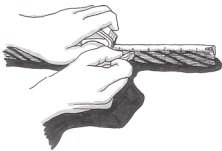


Fig. 8

1. *Measure the Rope Ends to be Socketed*

The rope end should be of sufficient length so the ends of unlay wires (from the strands) will be at the top of the socket basket. (Fig. 8)

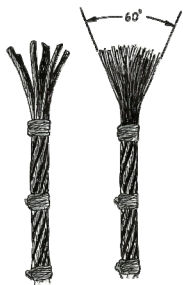


Fig. 9

2. *Apply Serving at Base of Socket*

Apply a tight serving band for the length of two rope diameters at the point where the socket base will be. This will eliminate any distortion below the band of the wires and strands.

3. *Broom Out Strand Wires*

Unlay and straighten the individual rope strands and spread them evenly so that they form an included angle of approximately 60 degrees. Unlay the wires of each individual strand for the full length of the rope end - being careful not to disturb or change the lay of the wires and strands under the serving band. Unlay the wire of the independent wire rope core (IWRC) in the same manner. A fiber core should be cut out and removed as close to the serving band as possible. (Fig. 9)



Fig. 10

4. *Clean the Broomed-Out Ends*

A suggested cleaning solvent for this step is Bromothene R or equivalent solvent (Fig. 10). It is also known under the names N-Propyl Bromide or Normal Propyl Bromide (nPB), Perchorthane, and Perchloroethylene. Other proven cleaning methods may be used, such as hot detergents. The continued availability of current cleaning solvents is uncertain due to federal regulations concerning ozone depleting substances. For information on available solvents, consult the solvent supplier.

**CAUTION: Breathing the vapor of this solvent is harmful; it should be used in a well-ventilated area. Be sure to follow the solvent manufacturer's instructions, and carefully observe all instructions printed on the label. Note that vapor densities may vary, some solvent vapors do not rise but may stay close to the ground. Refer to solvent SDS sheets.**



Fig. 11

5. *Close Rope Ends and Place Socket*

Place rope in a vertical position with the broom end up. Close and compact the broom to permit insertion of the broomed end into the base of the socketing (Fig. 11). Slip the socketing on, removing any temporary banding or seizing as required. Make certain the broomed wires are uniformly spaced in the basket, with the wire ends slightly below the top edge of the basket, and the axis of the rope and the fitting are aligned. For sockets with grooves it is recommended to fill the grooves with clay or putty. Seal the ring-like space between the base of the socket and the rope to prevent leakage of the resin from the basket.



# Sockets Cautions



**Fig. 12**

In addition to normal sealing materials, non-hardening butyl rubber-base sealant or latex glazing compounds are satisfactory for this purpose. Make sure the sealant does not enter the base of the socket, so the resin will be able to fill the complete depth of the socket basket (Fig. 12).

## 6. *Pouring the Resin*

Mix and pour the resin in strict accordance with resin manufacturer's instructions (Fig. 13).



**Fig. 13**

## 7. *Lubrication After Socket Attachment*

After the resin has cured, re-lubricate the wire rope at the base of the socket to replace any lubricant that may have been removed during the cleaning operation.

## 8. *Resin Properties*

All properties and precautions of resins should be obtained from the resin manufacturers. Take special note of the "shelf life" of the resin being used.

# Wire Rope Termination Efficiencies



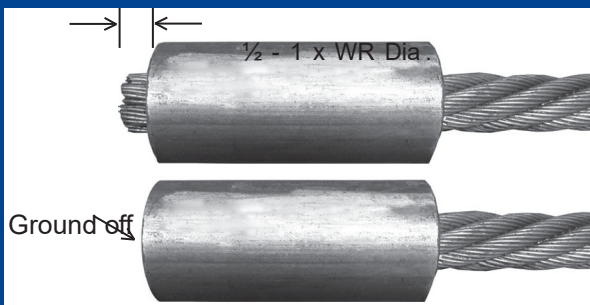
Termination	% of Catalog Breaking Strength of IWRC
Upson-Walton Open Swage Socket	100%
Upson-Walton Closed Swage Socket	100%
Muncy™ Swaged Button Stop (SB/NB) (CB 1/8"-3/16") (CB 1/8"-3/16") G BB Twist-On	98% 75% 98% Varies Varies 98%
Upson-Walton Flemish Eye Sleeve 1/4"-1" 1-1/8"-2" 2-1/8"-up	96% 92% 90%
Muncy™ Threaded Studs STS & TTS	100%
Muncy™ Spelter Type Sockets	100%
Upson-Walton Duplex Sleeve (1pc) Carbon Steel	95%
Upson-Walton Duplex Sleeve (2pc) Carbon Steel 1/4"-5/16" 3/8"-1/2" 9/16" 5/8"	100% 89% 77% 85%

## CAUTION

Termination Efficiencies are based on straight (in-line) pull conditions to destruction using approved wire rope grades and assembly procedures using hydraulic swagers. Refer to product warnings included in this catalog and other technical data. DO NOT use above charts for products made by other manufacturers.



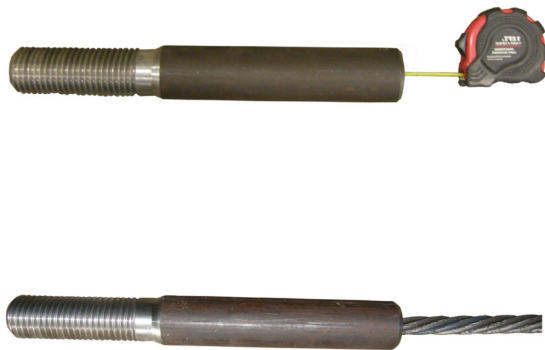
# GENERAL SWAGING GUIDELINES



## Swaged Fittings with Through-Holes

- Be sure that the end of the wire rope extends an additional length of  $\frac{1}{2}$  - 1 x's its diameter past the end of the fitting before swaging.
- After swaging the excessive rope may be trimmed away. Be sure **not** to grind or cut the end fitting.

## Swaged Fittings with Dead-End Holes



- Measure rope hole depth with a tape measure or caliper.
- Mark the wire rope with chalk to indicate the fitting's rope hole depth.
- Insert the rope and ensure that the chalk line lines up with the end of the fitting.
- If it is necessary to swage multiple sections, swage the fitting starting at the nose.
- After swaging, check to ensure that the chalk line is still in line with the end of the fitting.

## Carbon Steel 1 pc Sleeves



- Be sure that the dead end of the wire rope protrudes 1-2 x's the wire rope diameter out of the nose of the fitting before swage.

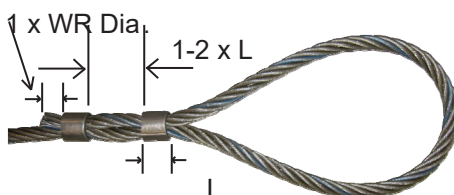
After swaging, check that the dead end of the wire rope protrudes a minimum of 1x's the wire rope diameter out of the nose of the fitting.

## Stainless Steel 1 pc Sleeves



- Measure the length of the rope hole on the side of the fitting where the dead end of the rope is to be swaged. Mark this length on the wire rope with chalk.
- After swaging, be sure that the rope has not slipped by checking the position of the chalk line, and/or by visually inspecting the nose of the fitting to ensure that the dead end of the rope has been fully inserted.

## Carbon and Stainless Steel 2 pc Sleeves

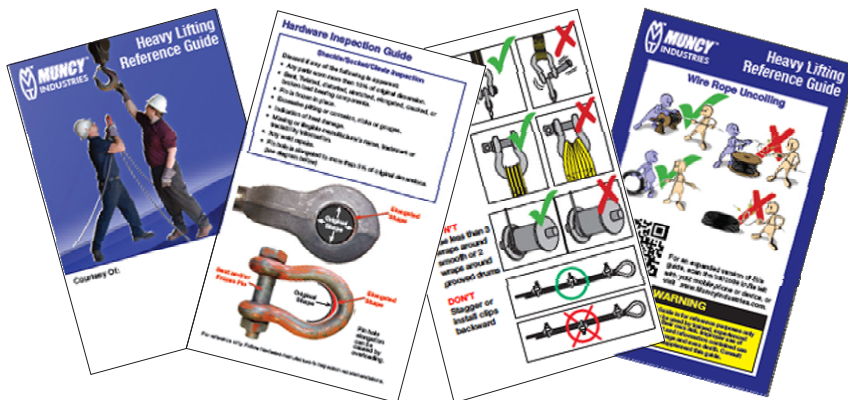


- Insert the rope and position the two sleeves 2-3x's the "L" apart.
- Be sure that the dead end of the wire rope protrudes 1-2 x's the wire rope diameter out of the nose fitting before swage.
- After swaging, check that the dead end of the wire rope protrudes a minimum of 1x's the wire rope diameter out of the nose of the fitting.

# from Muncy™ Reference Guide

The Muncy™ Pocket Reference Guide is a great useful-content filled booklet to hand out to your employees and customers.

- ➔ Sling Capacity Charts
  - ➔ Efficiency Tables
  - ➔ Conversion and Formula Charts
  - ➔ Proper Wedge Buttoning
  - ➔ Proper use of heavy-lifting hardware
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  - Cut to portable pocket size.



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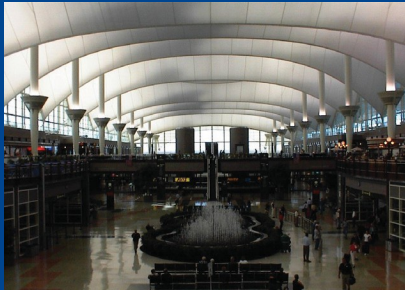
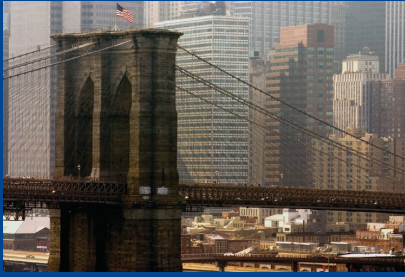
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- ✓ **1998** Vincent Thomas Bridge
- ✓ **1999** Salt Lake City Olympic Stadium
- ✓ **2000** Missouri River Bridge
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- ✓ **2004** Rhode Island Tied Anchor Bridge
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- ✓ **2006** Flushing Meadow Park Pool/Ice Rink
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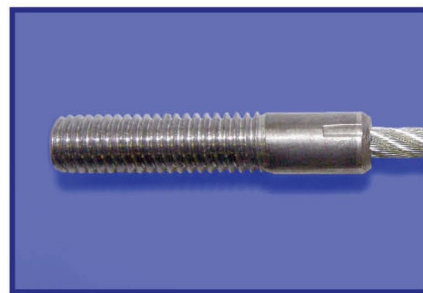




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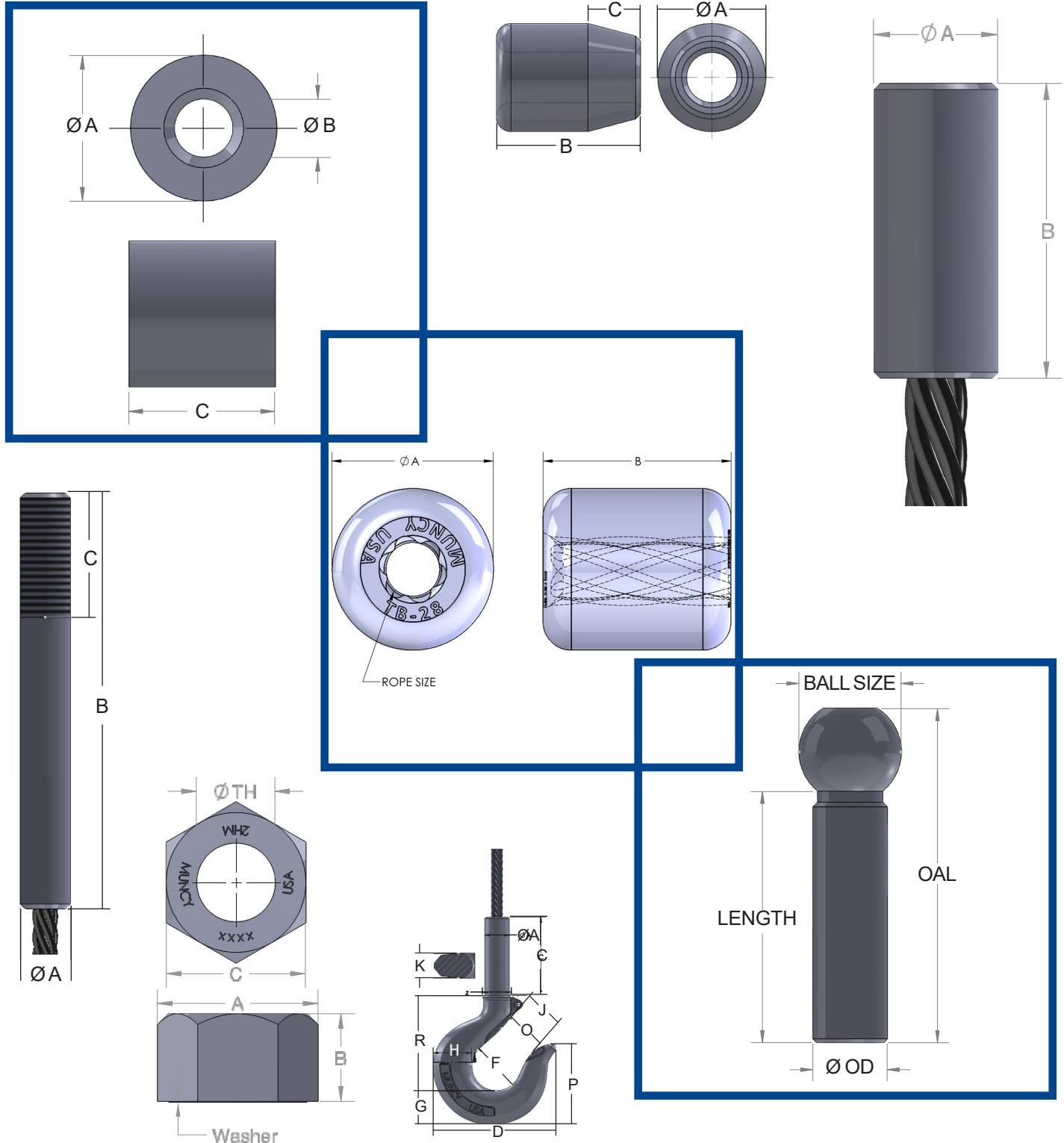


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# Buttons and End Fittings





## BB Buttons

Stock No.	Rope Dia.	After Swage Dimension				Weight lbs. Each
		Min	A Nominal	Max	B Approx.	
BB-8	1/4	0.490	.500	.510	1-1/32	0.04
BB-10	5/16	0.615	.625	.635	1-1/4	0.08
BB-12	3/8	0.740	.750	.770	1-1/2	0.15
BB-14	7/16	0.855	.875	.895	1-7/8	0.24
BB-16	1/2	0.980	1.000	1.030	2	0.34
BB-18	9/16	1.040	1.063	1.090	2-7/16	0.52
BB-20	5/8	1.230	1.250	1.290	2-3/4	0.79
BB-24	3/4	1.480	1.500	1.550	3-1/4	1.35
BB-28	7/8	1.730	1.750	1.800	3-7/8	2.18
BB-32	1	1.980	2.000	2.050	4-23/64	3.23



- ✓ Carbon Steel.
- ✓ Specially treated for swaging.
- ✓ Stocked.
- ✓ Also available in Stainless Steel see pg 19.

### CAUTION

BB Buttons are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, XXIP, EEIP IWRC regular lay ropes. Not all BB Buttons are designed to hold the breaking strength of the wire rope. Before using BB Buttons with any other type lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## CB Buttons

Stock No.	Rope Dia.	After Swage Dimension				Weight lbs. Each
		Min	A Nominal	Max	B Approx.	
CB-4	1/8	0.240	0.250	0.260	0.625	0.01
CB-6	3/16	0.365	0.375	0.400	0.813	0.02
CB-8	1/4	0.490	0.500	0.520	1.125	0.06
CB-10	5/16	0.615	0.625	0.635	1.250	0.08
CB-12	3/8	0.740	0.750	0.770	1.563	0.15
CB-14	7/16	0.855	0.875	0.895	1.750	0.24
CB-16	1/2	0.980	1.000	1.030	1.875	0.34
CB-18	9/16	1.105	1.125	1.160	1.500	0.34
CB-20	5/8	1.230	1.250	1.290	2.750	0.79
CB-24	3/4	1.480	1.500	1.550	3.250	1.35
CB-28	7/8	1.730	1.750	1.800	3.875	2.18
CB-32	1	1.980	2.000	2.050	4.360	3.23
CB-36	1-1/8	2.220	2.250	2.300	5.000	4.60
CB-40	1-1/4	2.470	2.500	2.560	5.500	6.27



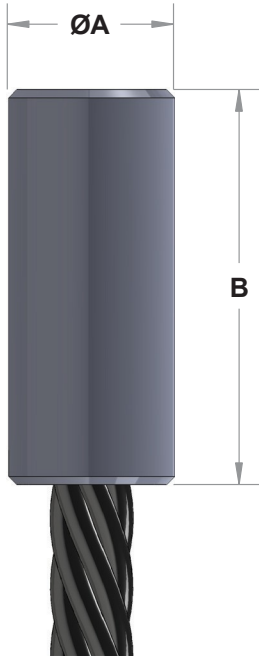
- ✓ Carbon Steel.
- ✓ Specially treated for swaging.
- ✓ Stocked.
- ✓ Also available in Stainless Steel see pg 19.

### CAUTION

CB Buttons are recommended for use with 6 x 19 or 6 x 37 IPS or XIP, EIP IWRC regular lay ropes. Not all CB Buttons are designed to hold the breaking strength of the wire rope. Before using a CB Button for any type lay, construction or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



# G Buttons



- ✓ Carbon Steel .
- ✓ Specially treated for swaging .
- ✓ Stocked .
- ✓ Also available in Stainless Steel upon request .

Stock No.	Rope Dia.	After Swage Dimension					Weight lbs. Each
		Min	A Nominal		Max	B Approx.	
G6-8	3/16	0.490	1/2	0.500	0.520	0.813	0.04
G6-12	3/16	0.740	3/4	0.750	0.770	1.125	0.14
G7-5	7/32	0.553	9/16	0.563	0.573	0.938	0.06
G8-4*	1/4	0.428	7/16	0.438	0.448	1.250	0.04
G8-8	1/4	0.490	1/2	0.500	0.510	1.000	0.04
G8-14	1/4	0.490	1/2	0.500	0.510	1.125	0.05
G8-16	1/4	0.490	1/2	0.500	0.510	1.500	0.06
G8-20	1/4	0.615	5/8	0.625	0.635	0.875	0.07
G8-24	1/4	0.615	5/8	0.625	0.635	1.250	0.10
G8-28	1/4	0.615	5/8	0.625	0.635	1.500	0.12
G8-32	1/4	0.740	3/4	0.750	0.770	1.125	0.13
G8-36	1/4	0.740	3/4	0.750	0.770	1.250	0.15
G8-40	1/4	0.740	3/4	0.750	0.770	1.500	0.18
G8-44	1/4	0.855	7/8	0.875	0.895	1.000	0.17
G8-48	1/4	0.855	7/8	0.875	0.895	1.125	0.19
G8-52	1/4	0.855	7/8	0.875	0.895	1.250	0.21
G8-56	1/4	0.855	7/8	0.875	0.895	1.500	0.26
G8-60	1/4	0.980	1	1.000	1.020	1.125	0.26
G8-64	1/4	0.980	1	1.000	1.020	1.250	0.28
G8-68	1/4	0.980	1	1.000	1.020	1.500	0.32
G8-72*	1/4	0.980	1	1.000	1.020	2.000	0.45
G8-76	1/4	1.230	1-1/4	1.250	1.290	1.750	0.64
G9-5	9/32	0.615	5/8	0.625	0.635	1.125	0.08
G10-3	5/16	0.740	3/4	0.750	0.770	1.250	0.13
G10-4	5/16	0.855	7/8	0.875	0.895	0.875	0.14
G10-8	5/16	0.855	7/8	0.875	0.895	1.000	0.16
G10-12	5/16	0.855	7/8	0.875	0.895	1.250	0.20
G10-16	5/16	0.855	7/8	0.875	0.895	1.500	0.25
G10-20	5/16	0.855	7/8	0.875	0.895	2.000	0.33
G10-24	5/16	0.980	1	1.000	1.020	1.438	0.31
G10-28	5/16	0.980	1	1.000	1.020	1.500	0.32
G12-3	3/8	0.855	7/8	0.875	0.895	1.500	0.23
G12-4	3/8	0.980	1	1.000	1.020	1.500	0.32
G12-5	3/8	0.980	1	1.000	1.020	1.000	0.30
G12-8*	3/8	0.980	1	1.000	1.020	1.750	0.36
G12-12	3/8	0.980	1	1.000	1.020	2.000	0.41
G12-16	3/8	1.230	1-1/4	1.250	1.270	2.000	0.69
G14-1	7/16	0.855	7/8	0.875	0.895	1.625	0.23
G14-2	7/16	0.980	1	1.000	1.030	1.375	0.27
G14-3	7/16	0.980	1	1.000	1.030	1.500	0.32
G14-8	7/16	1.105	1-1/8	1.125	1.145	1.750	0.34
G16-2	1/2	0.980	1	1.000	1.020	1.750	0.33
G16-3	1/2	1.105	1-1/8	1.125	1.160	2.000	0.50
G16-4	1/2	1.230	1-1/4	1.250	1.270	1.250	0.40
G16-5	1/2	1.230	1-1/4	1.250	1.270	1.750	0.57
G20-3	5/8	1.355	1-3/8	1.375	1.420	2.500	0.93
G24-4	3/4	1.480	1-1/2	1.500	1.550	2.000	0.93
G28-2	7/8	1.730	1-3/4	1.750	1.800	2.500	1.50
G28-4	7/8	1.730	1-3/4	1.750	1.800	2.791	1.61
G28-8	7/8	1.730	1-3/4	1.750	1.800	3.000	1.74

## CAUTION

G Buttons are modeled after special use buttons . G Buttons are recommended for use with 6 x 19 or 6 x 37 IPS or XIP, EIP, IWRC regular lay ropes. G Buttons are not necessarily designed to hold the breaking strength of the attached wire rope. Before using a G Button for any type lay, construction or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly. The efficiency of G Buttons are not rated .



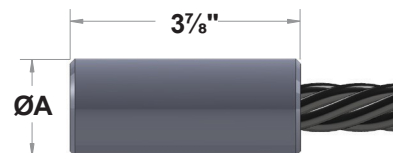
# USA





# NB Buttons

Stock No.	Rope Dia.	After Swage Dimension				Weight lbs. Each
		Min	A Nominal	Max	B Approx.	
NB-4	1/8	0.365	3/8	0.375	0.400	0.02
NB-5	5/32	0.428	7/16	0.438	0.448	0.03
NB-6	3/16	0.490	1/2	0.500	0.520	0.04
NB-7	7/32	0.553	9/16	0.563	0.573	0.06
NB-8	1/4	0.553	9/16	0.563	0.580	0.07
NB-10	5/16	0.740	3/4	0.750	0.770	0.15
NB-12	3/8	0.740	3/4	0.750	0.770	0.18
NB-14	7/16	0.980	1	1.000	1.030	0.39
NB-16	1/2	1.105	1-1/8	1.125	1.160	0.59
NB-18	9/16	1.230	1-1/4	1.250	1.290	0.74
NB-20	5/8	1.355	1-3/8	1.375	1.420	1.06
NB-24	3/4	1.480	1-1/2	1.500	1.550	1.35
NB-28	7/8	1.730	1-3/4	1.750	1.800	2.18
NB-32	1	1.980	2	2.000	2.050	3.23
NB-36	1-1/8	2.220	2-1/4	2.250	2.300	4.60
NB-40	1-1/4	2.470	2-1/2	2.500	2.560	6.27
NB-44	1-3/8	2.720	2-3/4	2.750	2.810	8.46
NB-48	1-1/2	2.970	3	3.000	3.060	10.98



- ✓ Carbon Steel .
- ✓ Specially treated for swaging .
- ✓ Stocked .
- ✓ Also available in Stainless Steel see pg 19 .

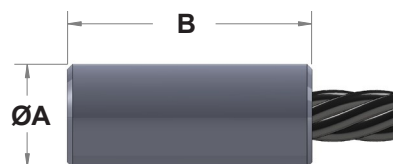
## CAUTION

NB Buttons are recommended for use with 6 x 19 or 6 x 37 IPS, XIP, EIP IWRC regular lay ropes. Before using an NB Button for any other type lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



# SB Buttons

Stock No.	Rope Dia.	After Swage Dimension				Weight lbs. Each
		Min	A Nominal	Max	B Approx.	
SB-4	1/8	0.365	3/8	0.375	0.400	0.02
SB-5	5/32	0.428	7/16	0.438	0.448	0.03
SB-6	3/16	0.490	1/2	0.500	0.520	0.04
SB-7	7/32	0.553	9/16	0.563	0.573	0.06
SB-8	1/4	0.615	5/8	0.625	0.635	0.09
SB-9	9/32	0.678	11/16	0.688	0.698	0.11
SB-10	5/16	0.740	3/4	0.750	0.770	0.17
SB-12	3/8	0.855	7/8	0.875	0.895	0.27
SB-14	7/16	0.980	1	1.000	1.030	0.39
SB-16	1/2	1.105	1-1/8	1.125	1.160	0.59
SB-18	9/16	1.230	1-1/4	1.250	1.290	0.80
SB-20	5/8	1.355	1-3/8	1.375	1.420	1.06
SB-24	3/4	1.480	1-1/2	1.500	1.550	1.46
SB-28	7/8	1.730	1-3/4	1.750	1.800	2.32
SB-32	1	1.980	2	2.000	2.050	3.53
SB-36	1-1/8	2.220	2-1/4	2.250	2.300	5.00
SB-40	1-1/4	2.470	2-1/2	2.500	2.560	6.79
SB-44	1-3/8	2.720	2-3/4	2.750	2.810	9.24
SB-48	1-1/2	2.970	3	3.000	3.060	11.97



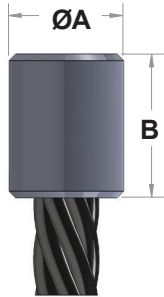
- ✓ Carbon Steel .
- ✓ Specially treated for swaging .
- ✓ Stocked .
- ✓ Also available in Stainless Steel see pg 19 .

## CAUTION

SB Buttons are modeled after Wire Rope Technical Board's Specifications. SB Buttons are recommended for use with 6 x 19 or 6 x 37 IPS, XIP, EIP IWRC regular lay ropes. Wire Rope. Before using an SB Button for any other type lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Drumline Buttons



Stock No.	Rope Dia.	After Swage Dimensions					Weight lbs. Each
		A			B		
		Min	Nominal	Max	Approx.		
DB-48	1-1/2	2.690	2-3/4	2.750	2.810	3-3/8	4.45
DB-56	1-3/4	2.690	2-3/4	2.750	2.810	3-3/8	4.07
DB-64	2	3.440	3-1/2	3.500	3.560	4-3/8	6.33
DB-68	2-1/8	3.440	3-1/2	3.500	3.560	4-3/8	6.03
DB-72	2-1/4	3.440	3-1/2	3.500	3.560	4-3/8	5.84
DB-80	2-1/2	3.938	4	4.000	4.063	4-3/4	7.69
DB-84	2-5/8	4.063	4-1/8	4.125	4.188	4-3/4	7.44
DB-88	2-3/4	4.063	4-1/8	4.125	4.188	5	7.59

- ✓ Carbon Steel.
- ✓ Specially treated for swaging.
- ✓ Stocked.
- ✓ Also available in Stainless Steel upon request.
- ✓ Commonly used for seizing wire rope.

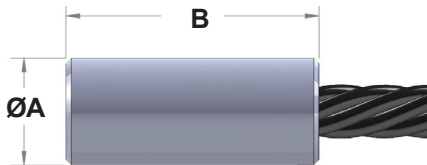
**\* Smaller sizes available upon request**

### CAUTION

Drumline Buttons are not intended to hold the breaking strength of the attached wire rope. Testing is recommended.



## Stainless Steel Swage Buttons



- ✓ Stocked in 304 Stainless Steel.
- ✓ Specially treated for swaging.
- ✓ Available in 316 Stainless Steel upon request.

Stock No.	Rope Size	After Swage Dimensions					Weight lbs. Each
		Min.	Nominal	Max.	B		
SB-4-SS	1/8	0.365	3/8	0.375	0.400	0.625	0.020
SB-5-SS	5/32	0.428	7/16	0.438	0.448	0.750	0.032
SB-6-SS	3/16	0.490	1/2	0.500	0.520	0.875	0.043
SB-7-SS	7/32	0.553	9/16	0.563	0.573	1.000	0.062
SB-8-SS	1/4	0.615	5/8	0.625	0.635	1.125	0.085
SB-10-SS	5/16	0.740	3/4	0.750	0.770	1.500	0.165
SB-12-SS	3/8	0.855	7/8	0.875	0.895	1.750	0.271
SB-14-SS	7/16	0.980	1	1.000	1.130	2.000	0.385
SB-16-SS	1/2	1.105	1-1/8	1.125	1.160	2.375	0.585
SB-18-SS	9/16	1.230	1-1/4	1.250	1.290	2.625	0.802
SB-20-SS	5/8	1.355	1-3/8	1.375	1.425	2.875	1.065
SB-24-SS	3/4	1.480	1-1/2	1.500	1.550	3.500	1.457
SB-28-SS	7/8	1.730	1-3/4	1.750	1.800	4.125	2.320
SB-32-SS	1	1.980	2	2.000	2.050	4.750	3.525
SB-36-SS	1-1/8	2.220	2-1/4	2.250	2.300	5.250	5.000
SB-40-SS	1-1/4	2.470	2-1/2	2.500	2.560	5.875	6.790
SB-44-SS	1-3/8	2.720	2-3/4	2.750	2.780	6.500	9.240
SB-48-SS	1-1/2	2.970	3	3.000	3.030	7.125	11.970

Stock No.	Rope Size	After Swage Dimensions					Weight lbs. Each
		Min.	Nominal	Max.	B		
NB-4-SS	1/8	0.365	3/8	0.375	0.400	0.625	0.020
NB-5-SS	5/32	0.428	7/16	0.438	0.448	0.750	0.032
NB-6-SS	3/16	0.490	1/2	0.500	0.520	0.875	0.043
NB-7-SS	7/32	0.553	9/16	0.563	0.573	1.000	0.062
NB-8-SS	1/4	0.553	5/8	0.625	0.533	1.188	0.070
NB-10-SS	5/16	0.740	3/4	0.750	0.770	1.375	0.152
NB-12-SS	3/8	0.740	7/8	0.750	0.770	1.750	0.180
NB-14-SS	7/16	0.980	1	1.000	1.030	2.000	0.386
NB-16-SS	1/2	1.105	1-1/8	1.125	1.160	2.188	0.585
NB-18-SS	9/16	1.230	1-1/4	1.250	1.290	2.438	0.744
NB-20-SS	5/8	1.355	1-3/8	1.375	1.420	2.875	1.062
NB-24-SS	3/4	1.480	1-1/2	1.500	1.550	3.250	1.353
NB-28-SS	7/8	1.730	1-3/4	1.750	1.800	3.875	2.175
NB-32-SS	1	1.980	2	2.000	2.050	4.375	3.230
NB-36-SS	1-1/8	2.220	2-1/4	2.250	2.300	4.813	4.595
NB-40-SS	1-1/4	2.470	2-1/2	2.500	2.560	5.438	6.270
NB-44-SS	1-3/8	2.720	2-3/4	2.750	2.81	6.000	8.460
NB-48-SS	1-1/2	2.970	3	3.000	3.060	6.500	10.980

### CAUTION

Stainless Steel Swage Buttons are recommended for use with 6 x 19 or 6 x 37 Stainless Steel RRL IWRC wire ropes. Before using Stainless Steel Swage Buttons on any other lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.

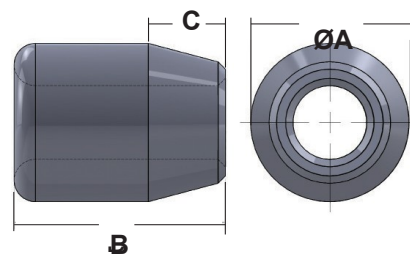


**USA**



# Logging Ferrules

Stock No.	Rope Dia.	After Swage Dimensions				Before Swage		Weight lbs. Each
		Min	A Nominal	Max	B Approx.	C Approx.		
LF-12	3/8	1.136	1-5/32	1.156	1.176	1.500	0.697	0.38
LF-14	7/16	1.136	1-5/32	1.156	1.176	1.500	0.587	0.35
LF-16S	1/2	1.136	1-5/32	1.156	1.176	1.430	0.697	0.33
LF-16L	1/2	1.136	1-5/32	1.156	1.176	1.500	0.697	0.33
LF-18S	9/16	1.136	1-5/32	1.156	1.176	1.400	0.697	0.31
LF-18L	9/16	1.136	1-5/32	1.156	1.176	1.500	0.697	0.32
LF-20D	5/8	1.480	1-1/2	1.500	1.520	2.000	0.730	0.86
LF-24A	3/4	1.480	1-1/2	1.500	1.520	2.000	0.730	0.72
LF-24	3/4	1.520	1-35/64	1.547	1.560	2.250	0.910	1.17
LF-28	7/8	1.520	1-35/64	1.547	1.560	2.250	0.910	1.06



- ✓ Carbon Steel.
- ✓ Specially treated for swaging.
- ✓ Stocked.
- ✓ Also available in Stainless Steel upon request.

## CAUTION

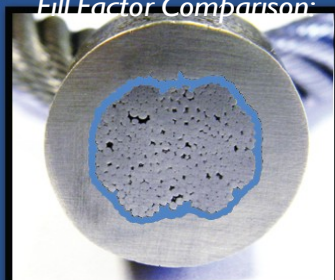
Logging Ferrules are NOT intended to hold the breaking strength of the attached wire rope.  
Testing is recommended.



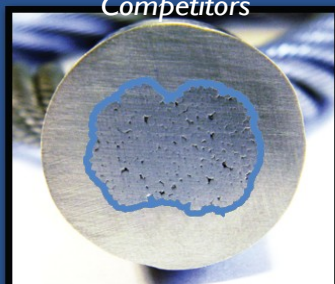
# IN STOCK

Turbotville, PA & Lafayette, LA

Fill Factor Comparison:



Competitors



Muncy Industries

## Stainless Steel One Piece Sleeve

- Maximized cross sectional fill factor.
- Maximized wire rope to sleeve contact by unique hourglass shape.
- Minimizes wire notching within the wire rope.
- Eliminates the "valley" produced during swaging.
- Precision cast for better reliability.
- Hourglass shape helps keep rope in place during swaging.
- Traceable.



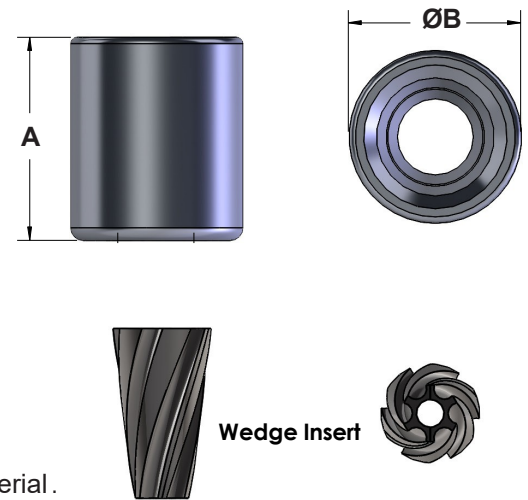
*Inspiring Confidence.*





## Wedge Buttons

Stock No.	Rope Size	Color	Wedge Part Number	A	B
M3	3/8", 7/16"	Silver	4	1.375	1.130
M4	1/2", 9/16"	Baby Blue	4	1.375	1.130
D5	9/16", 5/8"	Pink	5	1.750	1.500
B5	9/16", 5/8"	Maroon	5	2.000	1.700
B6	3/4"	Grey	6	2.000	1.700
L6	3/4"	White	6	2.625	2.125
L7	7/8"	Black	7	2.625	2.125
L8	1"	Green	8	2.625	2.125
J7	7/8"	Red	7	2.750	2.450
J8	1"	Navy	8	2.750	2.450
J9	1-1/8"	Yellow	9	2.575	2.380
J10	1-1/4"	Orange	10	2.750	2.455



- ✓ High quality casting.
- ✓ Field applied.
- ✓ Domestic material.
- ✓ Comes with 2 part wedge.
- ✓ Use Wedges or by pouring.

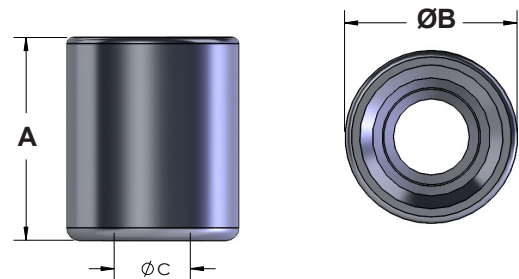
### CAUTION

Wedge Buttons are recommended for use with EIP, IWRC, or FC right regular lay wire ropes. When using wedges, wedge buttons are designed for 6 strand right lay ropes ONLY. Because this product will be commonly used by end users in the field, please refer end users to proper procedures as stated in Muncy™ manuals, catalogs, and other technical manuals. DO NOT use for overhead lifting.



## Spelter Buttons

Part No.	Rope Size	A	B
M3	3/8", 7/16"	1.375	1.130
M4	1/2", 9/16"	1.375	1.130
D5	9/16", 5/8"	1.750	1.500
B5	9/16", 5/8"	2.000	1.700
B6	3/4"	2.000	1.700
L7	7/8"	2.625	2.125
L8	1"	2.625	2.125
J7	7/8"	2.750	2.450
J8	1"	2.750	2.450
J9	1-1/8"	2.575	2.380
J10	1-1/4"	2.750	2.455



- ✓ For use with zinc or resin.
- ✓ Can be field applied.
- ✓ Domestic material.

### CAUTION

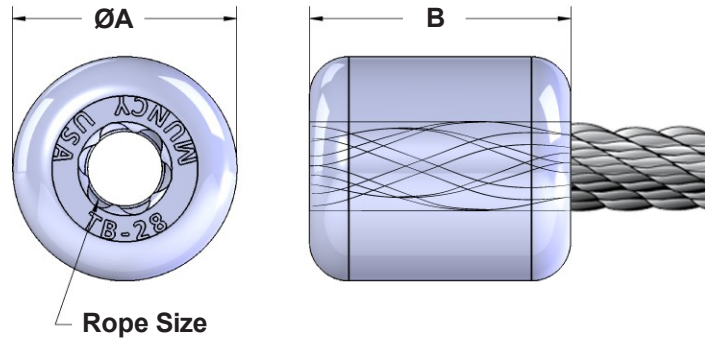
Spelter Buttons are recommended for use with 6 x 7, 9 x 16, 6 x 37 IPS, XIP(EIP), RRL, FC, IWRC wire ropes. Before using on any other lay, construction, or grade of wire rope, it is recommended that the termination be proof loaded to prove the adequacy of the assembly.





## Twist-On™ Buttons

- ✓ High quality casting.
- ✓ Wire rope imprint to enhance assembly efficiency.
- ✓ Shorter button length, higher strength.
- ✓ Domestic material.
- ✓ Rated for direct loads.



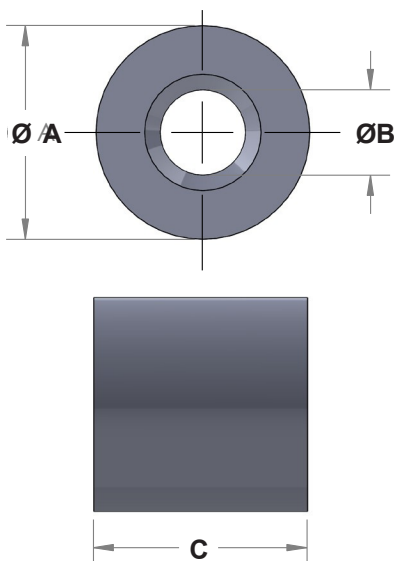
Stock No.	Rope Dia.	After Swage Dimension				Weight lbs. Each
		min	A Nominal	max	B Approx.	
TB-24	3/4	1.970	<b>2.000</b>	2.050	2.65	2.1
TB-28	7/8	1.970	<b>2.000</b>	2.050	3.11	2.4
TB-32	1	1.970	<b>2.000</b>	2.050	3.60	2.5

### CAUTION

Muncy™ Twist-On™ Buttons are recommended for use on 6 x 7, 6 x 19, and 6 x 37 IPS, XIP(EIP), XXIP (EEIP), RRL, IWRD wire rope. Before using on any other wire rope lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Aluminum Button Stop



Stock No.	Rope Size	Dimensions				Weight lbs. Per 1,000
		A	B	C		
AB-2	1/16	0.250	0.078	5/32	0.156	0.63
AB-2-5	5/64	0.250	0.094	5/32	0.156	0.64
AB-3	3/32	0.344	0.112	5/16	0.313	2.50
AB-4	1/8	0.344	0.152	5/16	0.313	2.10
AB-5	5/32	0.437	0.185	11/32	0.344	4.20
AB-6	3/16	0.437	0.216	11/32	0.344	3.90
AB-7	7/32	0.437	0.250	11/32	0.344	3.20
AB-8	1/4	0.688	0.281	11/16	0.688	20.40
AB-9	9/32	0.688	0.312	11/16	0.688	19.10
AB-10	5/16	0.688	0.375	11/16	0.688	17.00
AB-12	3/8	0.688	0.406	11/16	0.688	16.00

### CAUTION

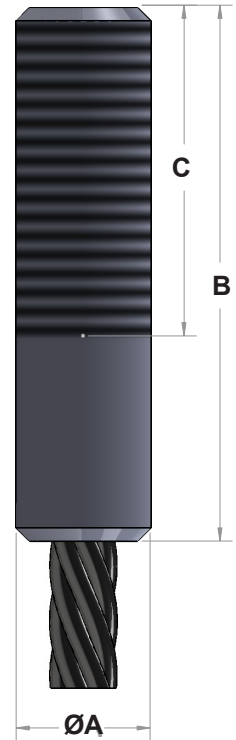
Upson-Walton Aluminum Button Stops are not intended to hold the breaking strength of the attached wire rope. Aluminum fittings on Carbon Steel Wire Rope may be subject to accelerated corrosion due to the unlike metals. Testing is recommended.





# Threaded Sleeves

Stock No.	Rope Dia.	After Swage			Thread Length		Weight lbs. Each
		A		B	*TL	Tolerance	
Min.	Max.						
SS-6	3/16	0.365	0.375	1-3/4	1	.063 -.000	0.05
SS-7	7/32	0.423	0.438	2	1-1/4	+.125	0.07
SS-8	1/4	0.485	0.500	2	1-1/4		0.09
SS-10	5/16	0.610	0.625	2-1/2	1-1/2		0.18
SS-12	3/8	0.735	0.750	3	1-3/4		0.31
SS-14	7/16	0.860	0.875	3-1/2	2		0.51
SS-16	1/2	0.885	1.000	4	2-1/4		0.73
SS-18	9/16	1.100	1.125	4-1/2	2-1/2		1.08
SS-20	5/8	1.225	1.250	5	2-3/4	+.188	1.48
SS-24	3/4	1.475	1.500	6	3		2.51
SS-28	7/8	1.725	1.750	7	4		3.98
SS-32	1	1.975	2.000	8	5		6.00
SS-36	1-1/8	2.225	2.250	9	6		8.54
SS-40	1-1/4	2.475	2.500	10	7		11.73
SS-44	1-3/8	2.725	2.750	11	8		15.76
SS-48	1-1/2	2.975	3.000	12	9	-.000	20.25



- ✓ Carbon Steel.
- ✓ Specially treated for swaging.
- ✓ Stocked.
- ✓ Also available in Stainless Steel upon request.

\*Muncy threaded sleeves are threaded after swaging.

## CAUTION

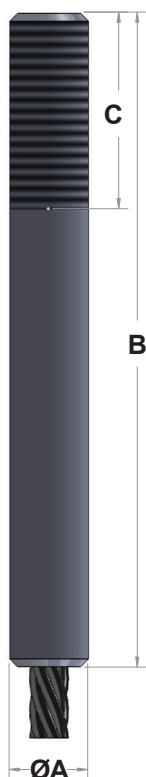
Threaded Sleeves are recommended for use with 6 x 19 or 6 x 37 IPS or XIP, EIP IWRC regular lay ropes. Before using a threaded sleeve for any other type lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



# USA



# TTS Threaded Studs



Stock No.	Rope Dia.	After Swage Dimensions					Thread Description			Weight lbs. Each
		Min	A Nominal		Max	B Approx.	C	NC	NF	
TTS-8	1/4	0.553	9/16	0.563	0.573	4-23/32	1-1/2	9/16"-12	9/16"-18	0.28
TTS-8A	1/4	0.490	1/2	0.500	0.510	4-23/32	1-1/2	1/2"-13	1/2"-20	0.21
TTS-10	5/16	0.615	5/8	0.625	0.650	5-23/32	1-3/4	5/8"-11	5/8"-18	0.41
TTS-10A	5/16	0.615	5/8	0.625	0.650	8-31/32	5	5/8"-11	5/8"-18	0.64
TTS-12	3/8	0.740	3/4	0.750	0.780	6-3/4	2	3/4"-10	3/4"-16	0.72
TTS-12A	3/8	0.740	3/4	0.750	0.780	9-3/4	5	3/4"-10	3/4"-16	1.05
TTS-14	7/16	0.865	7/8	0.875	0.910	7-21/32	2-1/4	7/8"-9	7/8"-14	1.13
TTS-16	1/2	0.990	1	1.000	1.030	8-9/16	2-1/2	1"-8	1"- 12 or 14	1.64
TTS-16A	1/2	0.990	1	1.000	1.030	12-1/16	6	1"-8	1"- 12 or 14	2.40
TTS-18	9/16	1.115	1-1/8	1.125	1.160	9-5/8	2-3/4	1-1/8"-7	1-1/8"-12	2.33
TTS-20	5/8	1.240	1-1/4	1.250	1.280	10-21/32	3-1/8	1-1/4"-7	1-1/4"-12	3.23
TTS-24	3/4	1.490	1-1/2	1.500	1.550	12-11/16	3-3/4	1-1/2"-6	1-1/2"-12	5.51
TTS-28	7/8	1.740	1-3/4	1.750	1.800	14-5/8	4-3/8	1-3/4"-5	1-3/4"-12	8.58
TTS-32	1	1.990	2	2.000	2.050	16-21/32	5	2"- 4-1/2	2"-12	12.60
TTS-36	1-1/8	2.240	2-1/4	2.250	2.300	18-5/8	5-5/8	2-1/4"- 4-1/2	2-1/4"-12	18.00
TTS-40	1-1/4	2.490	2-1/2	2.500	2.560	20-21/32	6-1/4	2-1/2"- 4	2-1/2"- 12	24.69
TTS-44	1-3/8	2.740	2-3/4	2.750	2.810	22-17/32	6-7/8	2-3/4"- 4	2-3/4"-12	33.06
TTS-48	1-1/2	2.990	3	3.000	3.060	24-1/2	7-1/2	3"- 4	3"-12	49.30

- ✓ Carbon Steel .
- ✓ Specially treated for swaging .
- ✓ Stocked .
- ✓ Also available in Stainless Steel upon request .
- ✓ Nuts available .

**Note:** We stock right-handed N .C . thread . Left-handed and fine thread are available upon special request . Sizes for larger diameter rope can be supplied . All studs supplied without wrench grips unless requested .

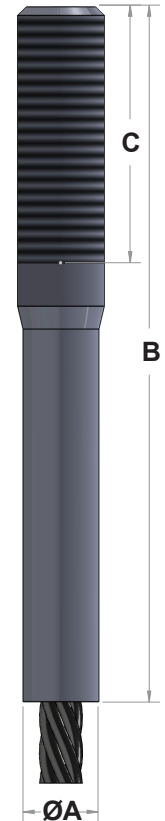
## CAUTION

TTS Threaded Studs are recommended for use with 6 x 19 or 6 x 37 IWRC regular lay ropes . They are also satisfactory on galvanized bridge rope . Before using studs with any other type lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly .



# STS Threaded Studs

Stock No.	Rope Dia.	After Swage Dimensions					Thread Description			Weight lbs. Each
		A				B	C	NC	NF	
		Min	Nominal		Max	Approx.				
STS-4	1/8	0.210	7/32	0.219	0.230	2-3/8	1	1/4"-20	1/4"-28	0.03
STS-6	3/16	0.305	5/16	0.313	0.330	3	1-1/8	3/8"-16	3/8"-24	0.07
STS-8	1/4	0.430	7/16	0.438	0.460	4-1/16	1-1/2	1/2"-13	1/2"-20	0.16
STS-8A	1/4	0.430	7/16	0.438	0.460	5-1/16	2-1/2	1/2"-13	1/2"-20	0.20
STS-10	5/16	0.553	9/16	0.563	0.585	5-1/16	1-7/8	5/8"-11	5/8"-18	0.33
STS-12	3/8	0.615	5/8	0.625	0.650	6-1/4	2-1/4	3/4"-10	3/4"-16	0.58
STS-14	7/16	0.740	3/4	0.750	0.780	7-5/16	2-5/8	7/8"-9	7/8"-14	0.90
STS-16	1/2	0.865	7/8	0.875	0.910	8-1/4	3	1"- 8	1"-12 or 14	1.36
MM56-16	1/2	0.740	3/4	0.750	0.780	6-5/8	2-1/4	7/8"-9	7/8"-14	1.00
STS-18	9/16	0.990	1	1.000	1.030	9-1/4	3-3/8	1-1/8"-7	1-1/8"-12	1.93
STS-20	5/8	1.115	1-1/8	1.125	1.160	10-1/8	3-3/4	1-1/4"-7	1-1/4"-12	2.66
STS-24	3/4	1.365	1-3/8	1.375	1.420	12-13/16	4-1/2	1-1/2"-6	1-1/2"-12	4.56
STS-28	7/8	1.490	1-1/2	1.500	1.550	14-9/16	5-1/4	1-3/4"-5	1-3/4"12	7.14
STS-32	1	1.740	1-3/4	1.750	1.800	16-1/4	6	2"- 4-1/2	2"-12	10.66
STS-36	1-1/8	1.990	2	2.000	2.050	18-1/4	6-3/4	2-1/4"- 4-1/2	2-1/4"-12	15.63
STS-40	1-1/4	2.240	2-1/4	2.250	2.300	20-1/4	7-1/2	2-1/2"- 4	2-1/2"- 12	21.00
STS-44	1-3/8	2.365	2-3/8	2.375	2.410	22-7/8	8-1/4	2-3/4"- 4	2-3/4"- 12	30.50
STS-48	1-1/2	2.740	2-3/4	2.750	2.810	24-3/4	9	3"- 4	3"- 12	41.10



- ✓ Carbon Steel.
- ✓ Specially treated for swaging.
- ✓ Stocked.
- ✓ Also available in Stainless Steel upon request.
- ✓ Nuts available.

## CAUTION

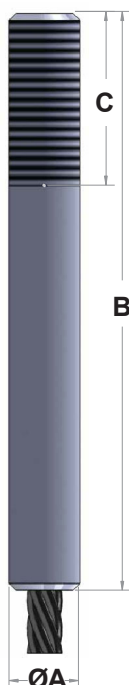
STS Threaded Studs are recommended for use with 6 x 19 or 6 x 37 IWRC regular lay ropes. They are also satisfactory on galvanized bridge rope. Before using studs with any other type lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.

**Note:** We stock right-handed N.C. thread. Left-handed and fine thread are available upon special request. Sizes for larger diameter rope can be supplied. All studs supplied without wrench grips unless requested.

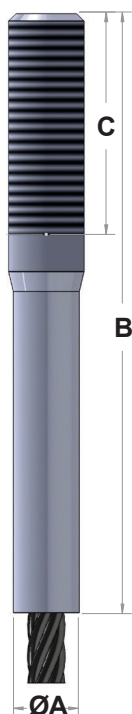




# Stainless Steel Threaded Studs



- ✓ Stainless Steel.
- ✓ Specially treated for swaging.
- ✓ Stocked.
- ✓ Stainless Steel Nuts and Hardware available.



Stock No.	Rope Size	After Swage		C	Thread Description			Weight lbs. Each
		A	B		Size	NC	NF	
TTS-8-SS	1/4	9/16	4-23/32	1-1/2	9/16	12	18	0.281
TTS-8A-SS	1/4	1/2	4-23/32	1-1/2	1/2	13	20	0.213
TTS-10-SS	5/16	5/8	5-23/32	1-3/4	5/8	11	18	0.413
TTS-10A-SS	5/16	5/8	8-31/32	5	5/8	11	18	0.638
TTS-12-SS	3/8	3/4	6-3/4	2	3/4	10	16	0.719
TTS-12A-SS	3/8	3/4	9-3/4	5	3/4	10	16	1.050
TTS-14-SS	7/16	7/8	7-21/32	2-1/4	7/8	9	14	1.125
TTS-16-SS	1/2	1	8-9/16	2-1/2	1	8	12 or 14	1.644
TTS-16A-SS	1/2	1	12-1/16	6	1	8	12 or 14	2.400

Stock No.	Rope Size	After Swage		C	Thread Description			Weight lbs. Each
		A	B		Size	NC	NF	
STS-4-SS	1/8	7/32	2-3/8	1	1/4	20	28	0.025
STS-6-SS	3/16	5/16	3	1-1/8	3/8	16	24	0.069
STS-8-SS	1/4	7/16	4-1/16	1-1/2	1/2	13	20	0.162
STS-8A-SS	1/4	7/16	5-1/16	2-1/2	1/2	13	20	0.200
STS-10-SS	5/16	9/16	5-1/16	1-7/8	5/8	11	18	0.331
STS-12-SS	3/8	5/8	6-1/4	2-1/4	3/4	10	16	0.575
STS-14-SS	7/16	3/4	7-5/16	2-5/8	7/8	9	14	0.900
STS-16-SS	1/2	7/8	8-1/4	3	1	8	12 or 14	1.632
MM56-16-SS	1/2	3/4	6-5/8	2-1/4	7/8	9	14	1.000

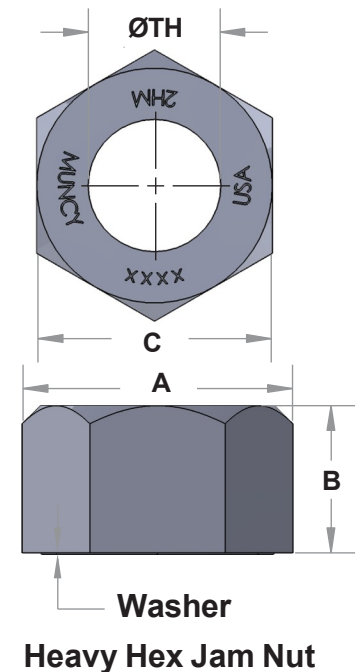
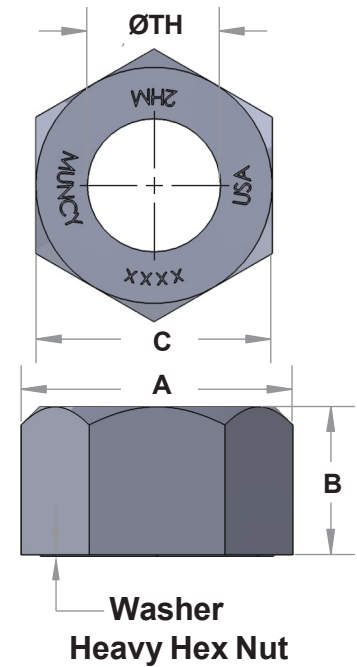
## CAUTION

Stainless Steel Threaded Studs are recommended for use with 6 x 19 or 6 x 37 Stainless Steel RRL IWRC wire ropes. Before using Stainless Steel Threaded Studs on any other lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Heavy Hex & Heavy Hex Jam Nuts

D	Threads Per Inch ØTH	A	Heavy Hex B	Heavy Hex Jam B	C
1.750	5, 8, 12	3.175	1.750	1.000	2.750
2.000	4.5, 6, 8, 12	3.608	2.000	1.125	3.125
2.250	4.5, 6, 8, 12	4.041	2.250	1.250	3.500
2.500	4, 6, 8, 12	4.474	2.500	1.500	3.875
2.750	4, 6, 8	4.907	2.750	1.625	4.250
3.000	4, 6, 8	5.340	3.000	1.750	4.625
3.250	4, 6, 8	5.774	3.250	1.875	5.000
3.500	4, 6, 8	6.207	3.500	2.000	5.375
3.750	4, 6, 8	6.640	3.750	2.125	5.750
4.000	4, 6, 8	7.073	4.000	2.250	6.125
4.250	4, 6, 8	7.406	4.250	2.4375	6.500
4.500	2.75, 4, 6, 8	7.828	4.500	2.563	6.875
4.750	4, 6, 8	8.266	4.750	2.688	7.250
5.000	2.5, 4, 6, 8	8.688	5.000	2.813	7.625
5.250	2.5, 4, 6, 8	9.125	5.250	2.969	8.000
5.500	4, 6, 8	9.547	5.250	3.094	8.375
5.750	4, 6, 8	10.969	5.750	3.219	8.750
6.000	2.25, 4, 6, 8	10.406	6.000	3.434	9.125



- ✓ Manufactured to: ASTM A194 Grade 2 and 2H, and A563 grades A,B,C AND 2H.
- ✓ Larger and smaller sizes available upon request.
- ✓ Other material specifications available upon request.
- ✓ Hot dip galvanized and zinc plating available upon request.

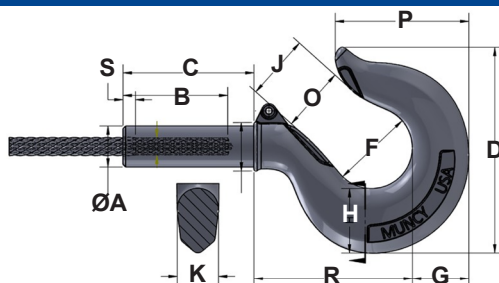
**Note:** It is recommended to buy nuts and threaded studs from Muncy Industries to ensure proper fit of nut to stud.







# Shank Hooks



Stock No.	Rope Dia.	After Swage Dimensions																		Latch Hole Dia.	Weight lbs. Each	
		B	C	D	F	G	H	J	K	L	O	P	R	T	A			Y	Z			
															Min	Nominal	Max					
SH-6	3/16	.5625	1.00	3.06	1.25	0.87	1.05	0.93	0.63	4.16	0.88	2.12	2.35	0.87	0.490	1/2	0.500	0.510	1.81	0.69	0.144	0.6
SH-8	1/4	.750	1.125	3.33	1.38	0.94	1.11	0.97	0.71	4.72	0.91	2.27	2.59	0.97	0.553	9/16	0.563	0.570	2.13	0.78	0.180	0.8
SH-10	5/16	.9375	1.500	3.67	1.50	1.06	1.21	1.06	0.88	5.58	1.00	2.54	2.75	1.03	0.553	9/16	0.563	0.570	2.83	1.00	0.180	1.3
SH-10A	5/16	1.00	1.625	4.20	1.63	1.27	1.43	1.19	0.94	5.99	1.16	2.80	3.16	1.16	0.740	3/4	0.750	0.760	2.83	1.00	0.180	1.8
SH-12	3/8	1.313	1.875	4.20	1.63	1.27	1.43	1.19	0.94	6.33	1.16	2.80	3.16	1.16	0.740	3/4	0.750	0.760	3.17	1.00	0.180	1.8
SH-14	7/16	1.375	1.875	5.11	2.00	1.44	1.63	1.50	1.31	7.34	1.41	3.47	3.85	1.53	0.990	1	1.000	1.010	3.49	1.25	0.203	3.6
SH-16	1/2	.6875	2.250	5.11	2.00	1.44	1.63	1.50	1.31	7.41	1.41	3.47	3.85	1.53	0.990	1	1.000	1.010	3.56	1.25	0.203	3.6
SH-18	9/16	1.750	2.250	6.24	2.50	1.82	2.01	1.78	1.68	8.90	1.69	4.59	4.77	1.94	1.115	1-1/8	1.125	1.145	4.13	1.56	0.203	7.4
SH-20	5/8	2.250	2.750	6.24	2.50	1.82	2.01	1.78	1.68	9.22	1.69	4.59	4.77	1.94	1.115	1-1/8	1.125	1.145	4.45	1.56	0.203	7.3
SH-24	3/4	2.625	3.00	7.69	3.00	2.25	2.63	2.41	1.88	11.47	2.22	5.63	5.88	2.46	1.365	1-3/8	1.375	1.395	5.59	2.00	0.257	12.7
SH-28	7/8	3.00	3.00	8.37	3.25	2.59	2.94	2.50	2.19	12.32	2.23	6.06	6.38	2.62	1.490	1-1/2	1.500	1.520	5.94	2.19	0.265	17.6
SH-32	1	3.500	3.500	10.19	4.25	3.22	3.50	3.30	2.69	14.67	3.05	6.93	8.14	2.74	2.990	1-3/4	1.750	1.800	6.53	2.63	0.390	31.5

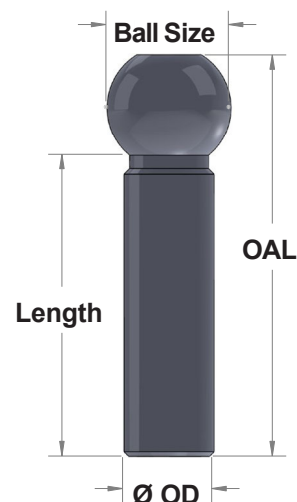
## CAUTION

Shank Hooks are recommended for use on 6 x 19 or 6 x 37 EIP, RRL, IWRC regular lay ropes. Shank Hooks are not recommended for use on fiber core or lang lay ropes. Before using shank hooks on any other type, lay, or construction of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



# Ball Shanks

Stock No.	Rope Dia.	Ball Size	After Swage Dimensions			Weight lbs. Each
			OD	Length	OAL	
BS-260250	1/4	13/16	1/2	3	4	0.24
BS-260313	5/16	13/16	1/2	3	4	0.22
BS-260375A	3/8	13/16	9/16	3	4	0.25
BS-440438	7/16	1-3/8	7/8	3-1/2	4-3/4	0.98
BS-440500	1/2	1-3/8	7/8	3-1/2	4-3/4	0.91
BS-440563	9/16	1-3/8	7/8	3-1/2	4-3/4	0.89
BS-440625	5/8	1-3/8	7/8	3-1/2	4-3/4	0.84
BSL-440375	3/8	1-3/8	1	4-1/4	5-1/4	1.36
BSL-440500	1/2	1-3/8	1	4-1/4	5-1/4	1.24
BSL-440563	9/16	1-3/8	1	4-1/4	5-1/4	1.21
BSL-440625	5/8	1-3/8	1	4-1/4	5-1/4	1.14



- ✓ NO SPECIAL POCKET DIES NEEDED!
- ✓ Muncy™ Ball Shanks are swaged on their shanks only.
- ✓ Alloy and Stainless Steel available upon request.

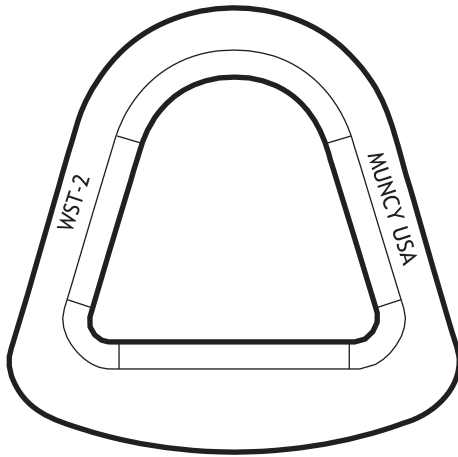
## CAUTION

Some Ball Shanks are not rated for direct lifting. Testing is recommended.

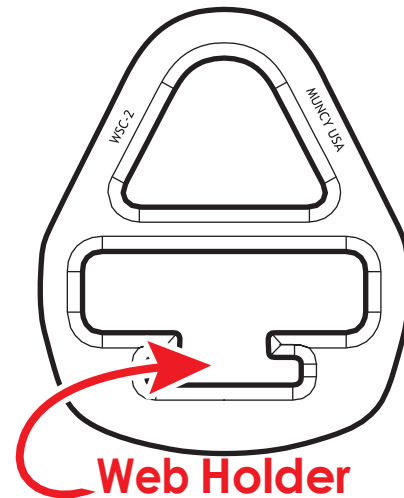


# <sup>TM</sup> New from Muncy <sup>TM</sup> **Triangles** for Web Lifting Slings

## Steel Triangles



## Steel Choker Triangles



**No Sharp Edges. Better Design.**

- ➔ Machined Contour for Consistent Quality
- ➔ Better Design: Web Holder
- ➔ Heavy Duty Design
- ➔ American Quality Steel
- ➔ Made In USA



Muncy <sup>TM</sup> Industries  
5820 Susquehanna Trail  
Turbotville, PA 17772

Ph: (570) 649-5188  
Fax: (570) 649-5850  
[www.muncyindustries.com](http://www.muncyindustries.com)

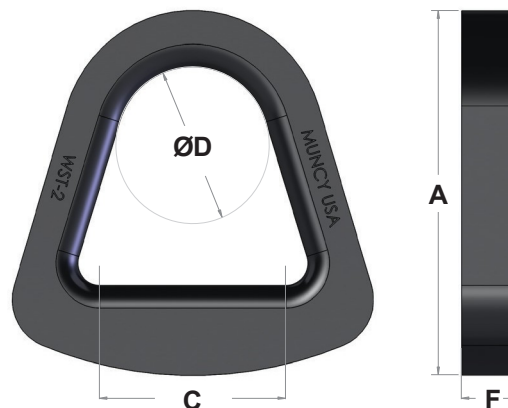




## Steel Triangles - 2 Ply

Muncy Number	A	C	D	F	W.L.L.
WST-2	4.063	2.125	1.750	5/8	7,000
WST-3	5.446	3.125	2.000	5/8	10,300
WST-4	6.500	4.125	2.250	5/8	11,500
WST-5	7.813	5.125	2.500	3/4	15,000

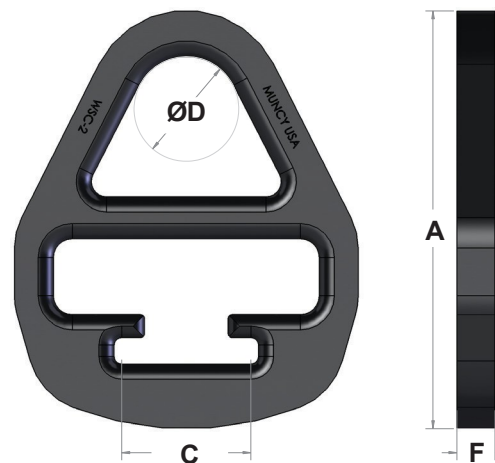
✓ Larger sizes available upon request.



## Steel Choker Triangles - 2 Ply

Muncy Number	A	C	D	F	W.L.L.
WSC-2	6.876	2.375	1.750	5/8	7,000
WSC-3	7.703	3.375	2.000	5/8	10,300
WSC-4	9.313	4.375	2.375	5/8	11,500
WSC-5	10.500	5.500	2.500	3/4	15,000

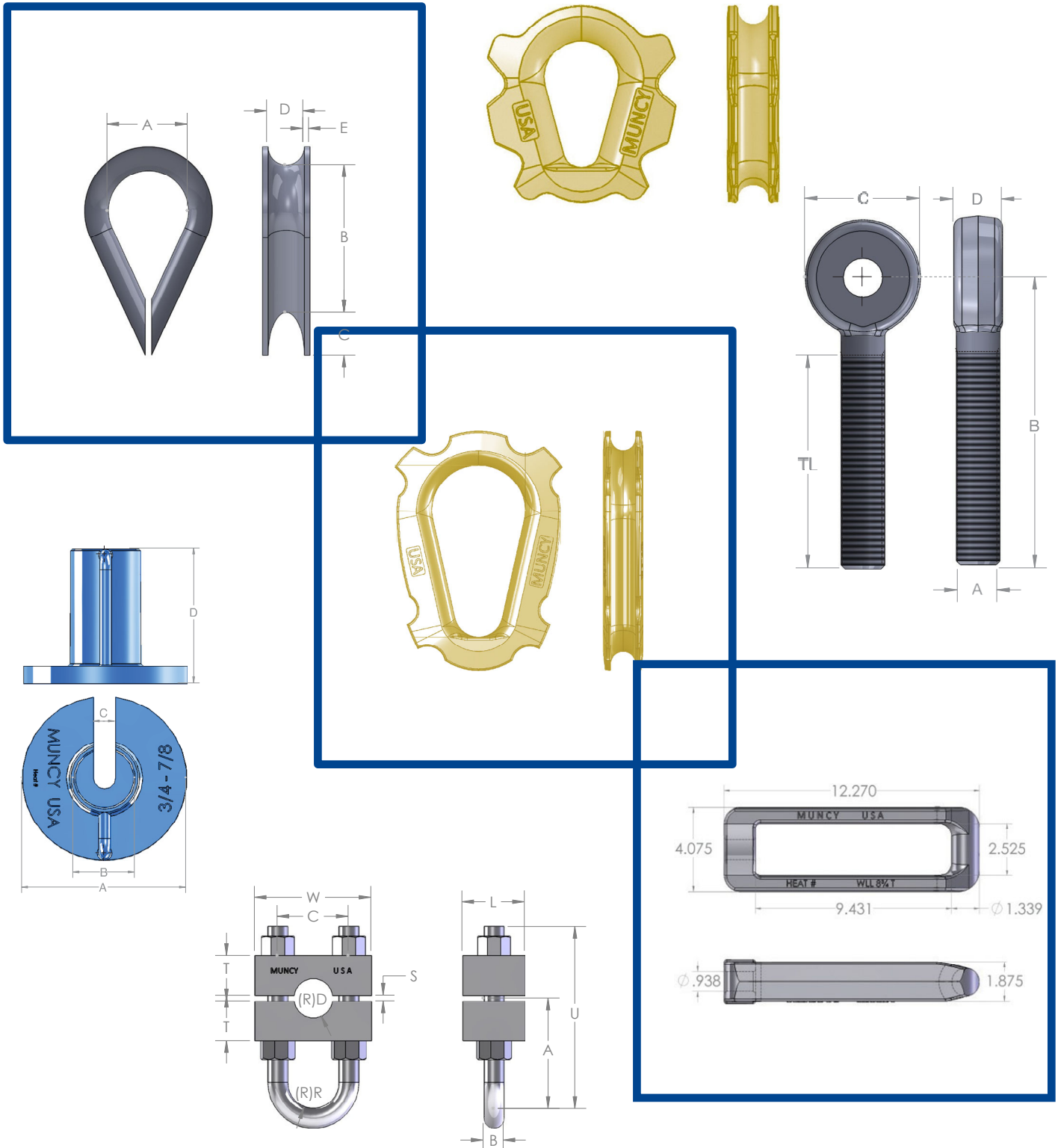
- ✓ Larger sizes available upon request.
- ✓ Machined .
- ✓ No Sharp Edges .
- ✓ Tested in the most extreme conditions



### CAUTION

DO NOT EXCEED stated working load limit for Muncy Triangles and Steel Choker Triangles .

# Hardware







## Tea Cups

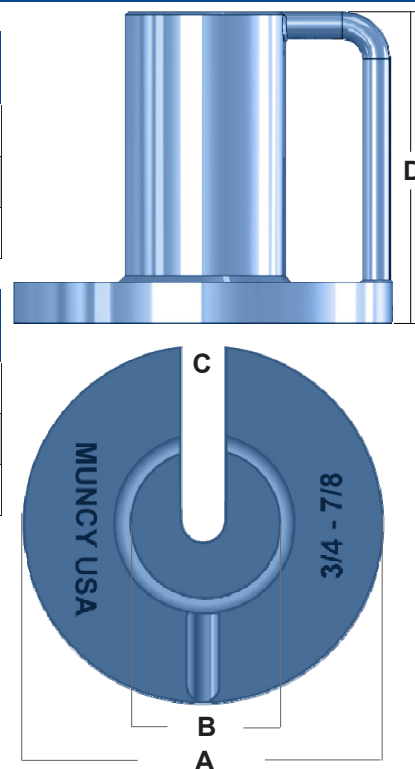
Stock No.	Rope Size	Dimensions					Use With Muncy Button	WLL
		A	B	C	D	Weight		
TC-24	3/4" - 7/8"	7.00	2.50	0.938	5.75	9.5 lbs	NB-24, NB-28	12,320
TC-32	1" - 1-1/8"	7.00	2.50	1.250	5.75	9.5 lbs	NB-32, NB-36	26,000
TC-40	1-1/4"	7.00	3.00	1.375	5.75	10 lbs	NB-40	31,960

Stock No.	Rope Size	Dimensions					Use With Muncy Button	WLL
		A	B	C	D	Weight		
TC-24A	3/4" - 7/8"	12.00	2.50	0.938	5.75	26 lbs	NB-24, NB-28	12,320
TC-32A	1" - 1-1/8"	12.00	2.50	1.250	5.75	26 lbs	NB-32, NB-36	26,000
TC-40A	1-1/4"	12.00	3.00	1.375	5.75	27 lbs	NB-40	31,960

- ✓ An efficient way to lift concrete pipe .
- ✓ Light weight design .
- ✓ Available with 7" and 12" diameter flanges.

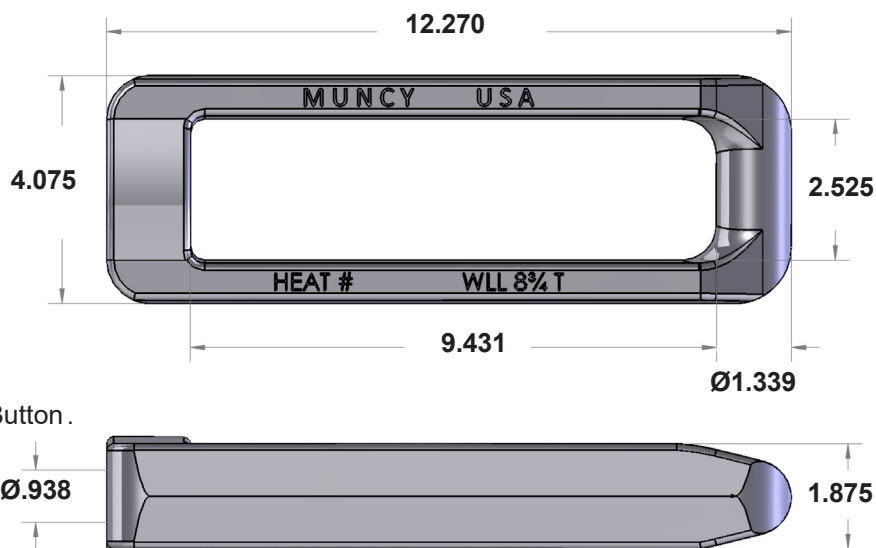
### CAUTION

DO NOT exceed stated working load limit of wire rope .



## Roll-Off Hooks

- ✓ **Part Number: ROH-28**
- ✓ For Roll-Off Containers .
- ✓ Alloy steel for strength and durability .
- ✓ Heavy Duty Design .
- ✓ For 7/8" Wire Rope .
- ✓ 17,000 lb. working load limit.
- ✓ Use with Standard NB-28 or TB-28 Swage Button .

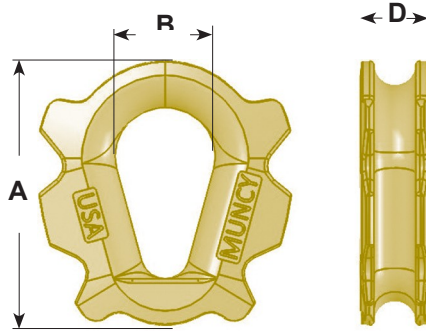


### CAUTION

DO NOT exceed stated working load limit of wire rope .



## Casing Thimbles

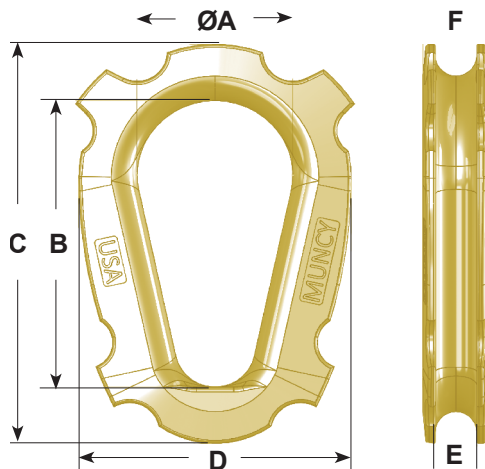


Stock No.	Six Part Rope Size	Eight Part Rope Size	Dimensions			
			A	B	C	D
CT-4	1/8	1/8	3.21	1.23	.51	.84
CT-8	1/4	3/16	4.08	1.47	0.69	1.00
CT-10	5/16	1/4	4.65	1.72	0.81	1.31

- ✓ Specially designed for braided slings.
- ✓ Ears can be peened over to retain wire rope.
- ✓ High strength casting.
- ✓ Designed to resist elongation from loading.
- ✓ Can come cut to bend around a master link.



## Slip-Through Thimbles



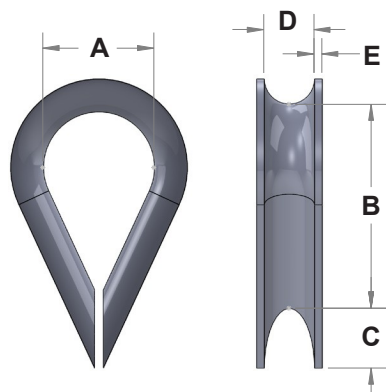
Stock No.	Single Part Rope Size	Six Part Rope Size	Eight Part Rope Size	Dimensions					
				A	B	C	D	E	F
ST-10	5/16-3/8	1/8	3/32	2.125	4.125	5.25	3.25	7/16	13/16
ST-16	1/2 - 9/16	3/16	3/16	2.34	4.38	6.09	4.09	0.69	1.00
ST-20	5/8 - 3/4	1/4 - 5/16	1/4	3.31	6.20	8.60	5.35	0.98	1.40

- ✓ Designed to allow passage of an identical thimble through its eye when used as a choker sling.
- ✓ Protects wire rope from mashing together and the top of the eye wearing excessively.
- ✓ Ears can be peened over to retain wire rope.
- ✓ High strength casting.
- ✓ Designed to resist elongation from loading.
- ✓ Can come cut to bend around a master link.





## Carbon Steel Thimbles-Light Duty

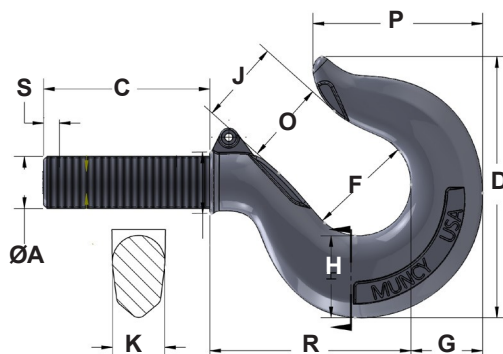


- ✓ Zinc-Plated.
- ✓ Corrosion Resistant.

Stock No.	Rope Size	Dimensions				
		A	B	C	D	E
43007801	3/64 - 5/64	0.355	0.705	0.188	0.094	0.032
43012501	3/32 - 1/8	0.356	0.710	0.219	0.141	0.032
43015601	5/32	0.410	0.797	0.230	0.172	0.032
43018801	3/16	0.502	1.050	0.313	0.203	0.032
43025001	7/32 - 1/4	0.683	1.415	0.412	0.266	0.032
43031301	5/16	0.885	1.563	0.469	0.400	0.062
43037501	3/8	1.015	1.750	0.810	0.440	0.074



## Threaded Shank Hooks



Stock No.	Working Load Limit	Max Shank Dia. After Machining	Minimum Thread Size (UNC)	Dimensions														Latch Hole Dia.
				D	F	G	H	J	K	L	O	P	R	T	X	Y	Z	
SH-02	1,654	0.53	1/2 - 13	3.06	1.25	0.87	1.05	0.93	0.63	5.28	0.88	2.12	2.35	0.87	0.590	2.06	0.69	0.144
SH-03	2,205	0.62	5/8 - 11	3.33	1.38	0.94	1.11	0.97	0.71	5.78	0.91	2.27	2.59	0.97	0.660	2.25	0.78	0.180
SH-04	3,308	0.66	5/8 - 11	3.67	1.50	1.06	1.21	1.06	0.88	6.29	1.00	2.54	2.75	1.03	0.720	2.50	1.00	0.180
SH-05	4,410	0.81	3/4 - 10	4.20	1.63	1.27	1.43	1.19	0.94	7.26	1.16	2.80	3.16	1.16	0.880	2.84	1.00	0.180
SH-06	5,513	0.94	7/8 - 9	4.67	1.63	1.42	1.59	1.38	1.00	7.55	1.28	3.24	3.13	1.16	1.000	3.00	1.16	0.180
SH-07	6,615	1.03	7/8 - 9	5.11	2.00	1.44	1.63	1.50	1.31	8.63	1.41	3.47	3.85	1.53	1.160	3.37	1.25	0.203
SH-08	8,820	1.13	1 - 8	6.09	2.25	1.69	1.98	1.75	1.44	11.81	1.66	4.06	4.13	1.28	1.220	6.00	1.44	0.203
SH-09	11,025	1.27	1-1/8 - 7	6.24	2.50	1.82	2.01	1.78	1.68	10.43	1.69	4.59	4.77	1.94	1.410	3.84	1.56	0.203
SH-11	16,538	1.52	1-3/8 - 6	7.69	3.00	2.25	2.63	2.41	1.88	12.50	2.22	5.63	5.88	2.46	1.810	4.38	2.00	0.257
SH-15	22,040	1.56	1-1/2 - 6	8.37	3.25	2.59	2.94	2.50	2.19	13.56	2.23	6.06	6.38	2.62	2.000	4.60	2.19	0.265
SH-22	33,060	2.25	2 - 8	10.19	4.25	3.00	3.50	3.30	2.69	16.77	3.05	6.93	8.14	2.74	2.560	5.63	2.63	0.390

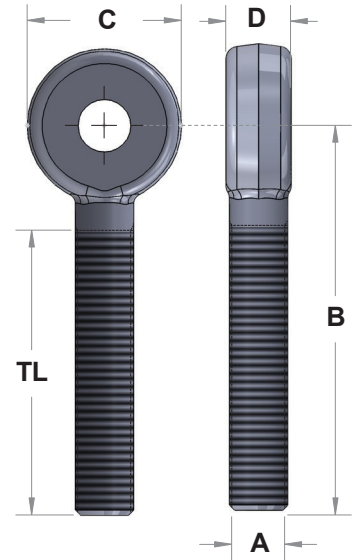
### CAUTION

Shank Hooks are not intended for internal threading. To obtain maximum strength, threads must be class 2 or better. Thread engagement must not be less than one thread diameter. Insufficient thread engagement can result in loss of load.  
Do not exceed working load limit.



## Rod Ends

Stock No.	Dimensions			
	A	B	C	D
2AA	5/16	1-1/2	0.5625	0.343
3A	3/8	3-1/2	0.750	0.438
3E	3/8	6	0.750	0.438
5A	1/2	3-1/2	0.969	0.563
5AX	1/2	3-1/2	1.1875	0.50
5E	1/2	6	0.969	0.563
5EX	1/2	6	1.1875	0.50
5J	1/2	12	0.969	0.563
5JX	1/2	12	1.1875	0.50
6A	5/8	3-1/2	1.25	0.688
6E	5/8	6	1.25	0.688
6J	5/8	12	1.25	0.688
7A	3/4	3-1/2	1.50	0.813
7E	3/4	6	1.50	0.813
7J	3/4	12	1.50	0.813
8E	7/8	6	1.813	0.938
8J	7/8	12	1.813	0.938
10E	1	6	2.030	1.063
10J	1	12	2.030	1.063
12J	1-1/4	12	2.625	1.312
14J	1-1/2	12	3.094	1.50



Muncy Industries stocks corresponding nuts to ensure proper fit.

- ✓ Forged, self-colored 1035 carbon steel.
- ✓ Stocked in blank form.
- ✓ Drilled and threaded to specifications at additional cost.
- ✓ Plated at additional cost.
- ✓ Longer lengths available 7/16" thru 1-1/2".
- ✓ Forged Stainless Steel upon request.

### CAUTION

Rod Ends are not intended for internal threading. To obtain maximum strength, threads must be class 2 or better. Thread engagement must not be less than one thread diameter. Insufficient thread engagement can result in loss of load. Average properties of 1035 hot rolled steel is typically 75 - 85,000 psi tensile, 40 - 55,000 psi yield.

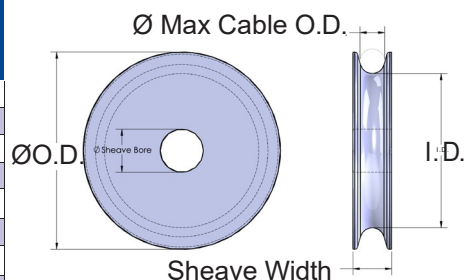


# USA



# Sheaves

Part Number	Wire Rope Size	OD	Thread Dia	Sheave Bore	Sheave Width	Bushing Width	Groove Radius	Groove Depth
SH-6A	3/16	1.500	1.000	0.875	0.438	0.469	0.125	0.250
SH-6B	3/16	2.000	1.500	0.875	0.438	0.469	0.125	0.250
SH-6C	3/16	4.000	3.625	0.875	0.531	0.531	0.125	0.188
SH-8A	1/4	2.500	2.000	0.875	0.438	0.469	0.156	0.250
SH-8B	1/4	3.000	2.500	0.875	0.438	0.469	0.156	0.250
SH-8C	1/4	4.000	3.625	0.875	0.531	0.531	0.156	0.188
SH-10A	5/16	3.000	2.500	0.875	0.438	0.469	0.188	0.250
SH-10B	5/16	3.500	3.000	1.000	0.625	0.688	0.188	0.250
SH-10C	5/16	4.000	3.375	0.875	0.656	0.656	0.188	0.313
SH-10D	5/16	5.000	4.375	1.250	0.875	0.875	0.188	0.313
SH-10E	5/16	6.000	5.375	1.250	0.875	0.875	0.188	0.313
SH-12A	3/8	3.500	3.000	1.000	0.625	0.688	0.219	0.250
SH-12B	3/8	4.000	3.250	1.000	0.625	0.688	0.219	0.375
SH-12C	3/8	4.000	3.375	0.875	0.656	0.656	0.219	0.313
SH-12D	3/8	4.000	3.375	0.875	0.656	0.875	0.219	0.313
SH-12E	3/8	5.000	4.250	1.000	0.625	0.688	0.219	0.375
SH-12F	3/8	5.000	4.375	0.875	0.875	0.875	0.219	0.313
SH-12G	3/8	6.000	5.375	1.250	0.875	0.875	0.219	0.313
SH-14A	7/16	4.000	3.125	0.875	0.781	0.781	0.250	0.438
SH-14B	7/16	5.000	4.125	1.250	0.875	0.875	0.250	0.438
SH-14C	7/16	6.000	5.125	1.250	0.875	0.875	0.250	0.438
SH-16A	1/2	4.000	3.125	0.875	0.781	0.781	0.281	0.438
SH-16B	1/2	5.000	4.125	1.250	0.875	0.875	0.281	0.438
SH-16C	1/2	6.000	5.125	1.250	0.875	0.875	0.281	0.438



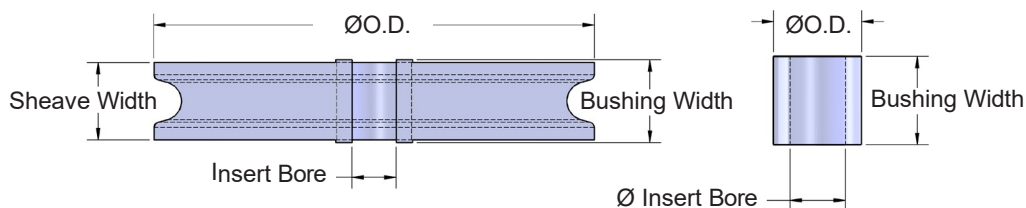
- ✓ Zinc plated or self colored .
- ✓ Bronze bushings are designed for high load and medium speeds .
- ✓ Oil impregnated bronze bushings for permanent lubrication .
- ✓ Greasable grooved bushings for permanent lubrication .
- ✓ Special sheaves available upon request .

## CAUTION

Use designated wire rope size . Do not overload .



# Sheave Inserts



## Bronze Bushing Blanks

Part Number	Bronze Bushing OD	Bushing Bore	Bushing Width
BB28-16	0.875	0.500	0.469
BB28-16A	0.875	0.500	0.875
BB28-20	0.875	0.625	0.656
BB32-24	1.000	0.750	0.656
BB40-28	1.250	0.875	0.875

## Steel Inserts

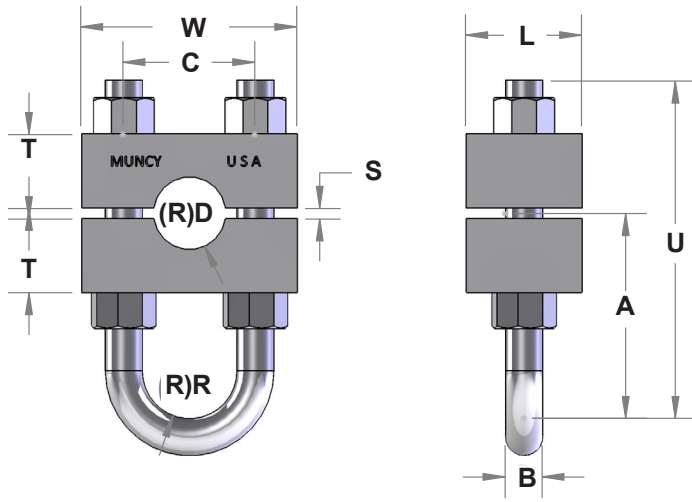
Part Number	Steel Bushing OD	Bushing Bore	Bushing Width
SI16-8	0.500	0.250	0.500
SI16-10	0.500	0.313	0.500
SI16-12	0.500	0.375	0.500
SI24-12	0.750	0.375	0.750







# Cable Clamps



- ✓ Manufactured for wire rope and strand .
- ✓ Clamps made from high quality domestic steel .
- ✓ Call for availability . Cable clamps are primarily made to order .

Cable Dia	Part Number	Dimensions										Est. Wt
		A	B	C	D	R	S	T	U	W	L	
1/2	CC-16	2.38	0.50	1.50	0.59	0.50	0.19	0.63	4.00	2.63	1.75	2
5/8	CC-20	2.75	0.50	1.63	0.72	0.56	0.19	0.75	4.63	3.00	1.88	3
3/4	CC-24	3.50	0.63	2.00	0.84	0.69	0.19	1.00	5.50	3.50	2.00	4.5
7/8	CC-28	3.50	0.63	2.00	0.97	0.69	0.19	1.00	5.50	3.50	2.00	4.5
1	CC-32	3.63	0.75	2.25	1.09	0.75	0.19	1.25	6.00	4.00	2.25	7.5
1-1/8	CC-36	3.63	0.75	2.25	1.22	0.75	0.19	1.25	6.00	4.00	2.25	7.5
1-1/4	CC-40	4.00	0.75	2.63	1.34	0.94	0.25	1.50	6.75	4.38	2.50	10
1-3/8	CC-44	4.00	0.75	2.63	1.47	0.94	0.25	1.50	6.75	4.38	2.50	10
1-1/2	CC-48	4.75	0.88	3.13	1.59	1.13	0.25	1.75	8.00	5.13	2.75	15
1-5/8	CC-52	4.75	0.88	3.13	1.72	1.13	0.25	1.75	8.00	5.13	2.75	15
1-3/4	CC-56	5.25	1.00	3.50	1.84	1.25	0.25	2.00	8.88	6.00	3.00	25
1-7/8	CC-60	5.25	1.00	3.50	1.97	1.25	0.25	2.00	8.88	6.00	3.00	25
2	CC-64	5.88	1.13	4.00	2.09	1.44	0.31	2.25	10.00	6.50	3.25	30
2-1/8	CC-68	5.88	1.13	4.00	2.22	1.44	0.31	2.25	10.00	6.50	3.25	30
2-1/4	CC-72	6.50	1.25	4.50	2.34	1.63	0.38	2.50	11.13	7.25	3.50	43
2-3/8	CC-76	6.50	1.25	4.50	2.47	1.63	0.38	2.50	11.13	7.25	3.50	43
2-1/2	CC-80	7.25	1.25	5.00	2.59	1.88	0.38	2.75	12.25	7.75	4.00	53
2-5/8	CC-84	7.25	1.25	5.00	2.72	1.88	0.38	2.75	12.25	7.75	4.00	53
2-3/4	CC-88	8.00	1.38	5.25	2.84	1.94	0.38	3.00	13.25	8.50	4.50	72
2-7/8	CC-92	8.00	1.38	5.25	2.97	1.94	0.38	3.00	13.25	8.50	4.50	72
3	CC-96	8.50	1.50	5.50	3.09	2.00	0.38	3.25	14.25	9.00	5.00	92

## CAUTION

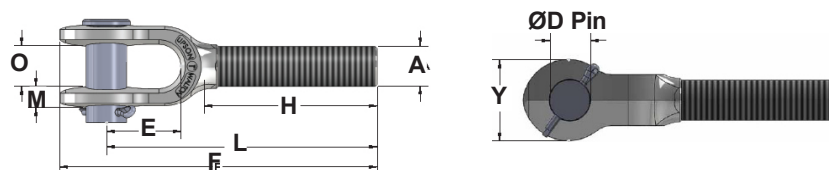
Use designated wire rope size. Do not overload or three-way load.



# USA



## Threaded Clevis

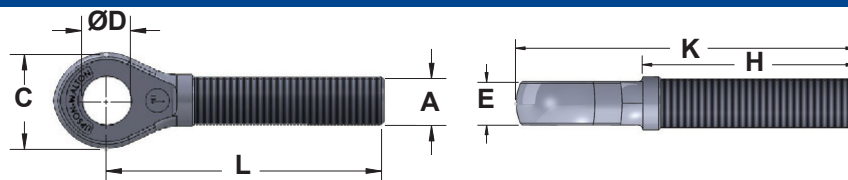


Thread Size

Stock No.	A	D	E	F	H	L	M	O	Y
40025075	0.500	0.688	1-1/2	4-3/4	2-1/8	4	5/16	11/16	1-3/8
40031375	0.563	0.812	1-3/4	6-1/4	3-3/16	5-5/16	13/32	13/16	1-5/8
40037575	0.625	0.812	1-3/4	6-1/4	3-3/16	5-5/16	13/32	13/16	1-5/8
40043875	0.750	1.000	2	7-13/16	4-1/4	6-11/16	1/2	1	2
40050075	0.875	1.000	2	7-13/16	4-1/4	6-11/16	1/2	1	2
40056375	1.000	1.190	2-1/4	9-9/16	5-5/16	8-1/8	5/8	1-1/4	2-1/2
40062575	1.250	1.190	2-1/4	9-9/16	5-5/16	8-1/8	5/8	1-1/4	2-1/2
40075075	1.625	1.380	2-3/4	11-11/16	6-3/8	10	3/4	1-1/2	3
40087575	1.875	1.630	3-1/4	13-5/8	7-7/16	11-5/8	15/16	1-3/4	3-3/8
40100075	2.000	2.000	3-3/4	15-5/8	8-1/2	13-3/8	1-1/32	2	4



## Threaded Eye



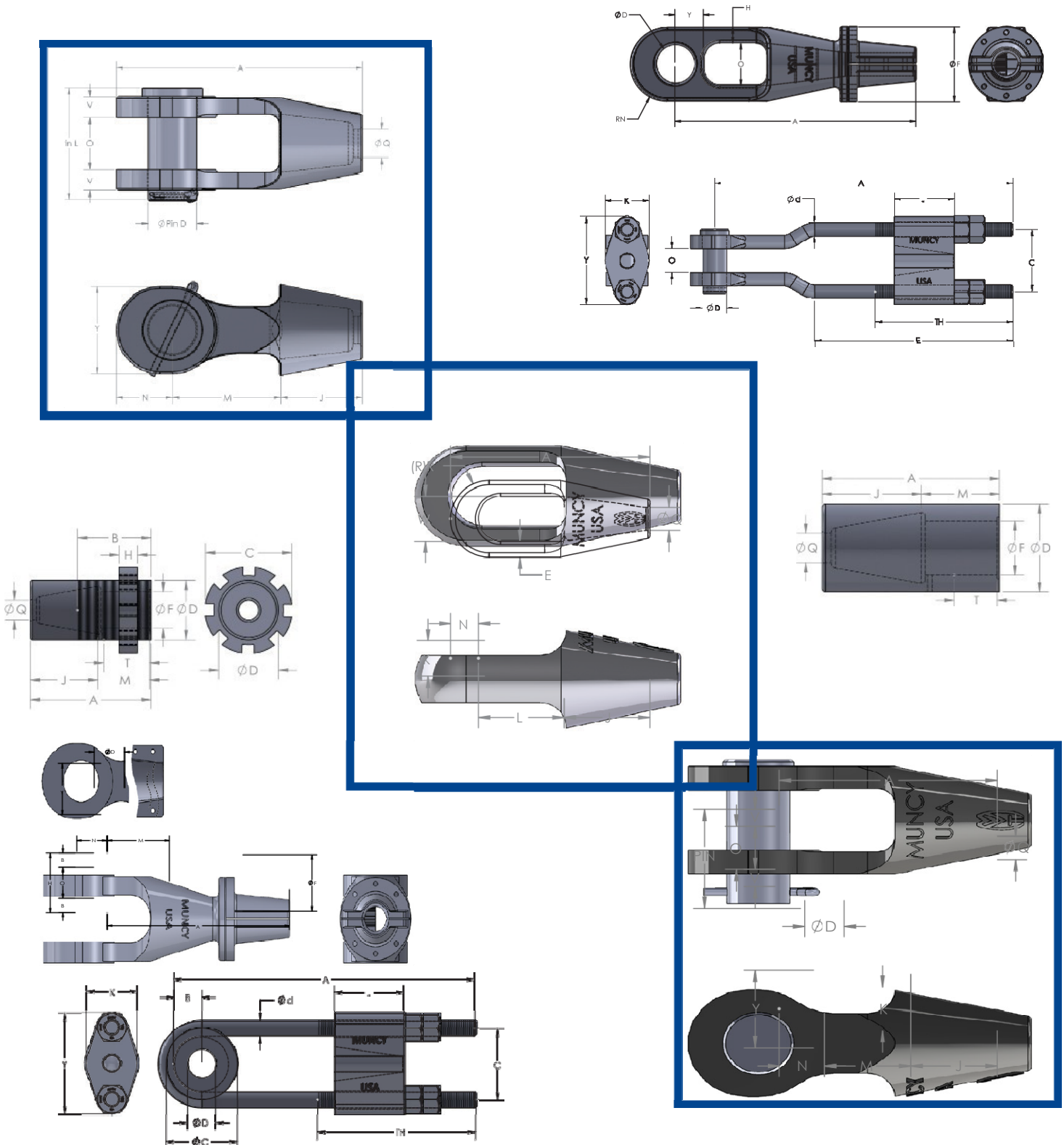
Thread Size

Stock No.	A	B	C	D	E	H	K	L
41025075	0.500	0.272	1-7/16	.688	1/2	2-1/8	4-3/8	3-1/2
41031375	0.563	0.339	1-11/16	.812	11/16	3-3/16	5-1/2	4-1/2
41037575	0.625	0.406	1-11/16	.812	11/16	3-3/16	5-1/2	4-1/2
41043875	0.750	0.484	2	1.000	7/8	4-1/4	6-15/16	5-3/4
41050075	0.875	0.547	2	1.000	7/8	4-1/4	6-15/16	5-3/4
41056375	1.000	0.609	2-1/2	1.190	1-1/8	5-5/16	8-3/4	7-1/4
41062575	1.250	0.672	2-1/2	1.190	1-1/8	5-5/16	8-3/4	7-1/4
41075075	1.625	0.796	3	1.380	1-5/16	6-3/8	10-3/8	8-5/8
41087575	1.875	0.938	3-1/2	1.630	1-1/2	7-7/16	12-1/8	10-1/8
41100075	2.000	1.062	4	2.000	1-3/4	8-1/2	13-3/4	11-1/2

### CAUTION

Threaded Eyes are not intended for internal threading. To obtain maximum strength, threads must be class 2 or better. Thread engagement must not be less than one thread diameter. Insufficient thread engagement can result in loss of load. Average properties of 1035 hot rolled steel is typically 75 - 85,000 psi tensile, 40 - 55,000 psi yield.

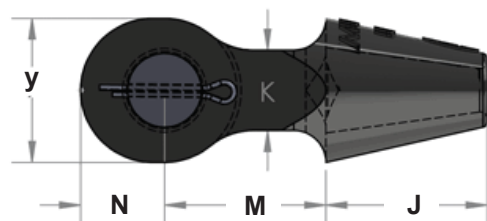
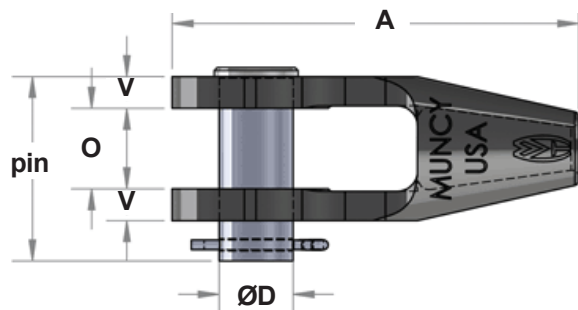
# Spelter Sockets



USA



# Open Rope Spelter Sockets



- Muncy™ 1-1/2" and smaller Rope Sockets have a grooveless basket design for use with resin or zinc socketing media.
- Muncy™ 1-5/8" and larger Rope Sockets have a grooved basket design that meet the requirements of Federal Specifications RR-S-550D.
- Specially designed retaining segments preventing rotation and pop-out of socketing compound. 1-1/2" and smaller Muncy™ Rope Sockets and all Muncy™ Strand Sockets feature these retaining segments.
- Engineered and designed for the most extreme applications. We use high grade steel for strength and durability.

## ZINC OR RESIN POURED

Stock No.	Rope Size	Strand Size	Dimensions											Weight lbs. Each
			A	J	K	M	N	O	Q	V	Y	Pin		
												Length	Dia.	
R-101	5/16 - 3/8	-	4.88	2.25	0.81	1.75	.875	0.81	0.50	0.44	1.50	2.06	0.81	1.4
R-102	7/16 - 1/2	-	5.56	2.50	1.00	2.00	1.06	1.00	0.56	0.50	1.88	2.62	1.00	2.5
R-103	9/16 - 5/8	1/2	6.75	3.00	1.25	2.50	1.25	1.25	0.69	0.56	2.25	2.88	1.19	3.5
R-104	3/4	9/16 - 5/8	7.94	3.50	1.50	3.00	1.44	1.50	0.81	0.63	2.63	3.25	1.38	6.0
R-105	7/8	11/16 - 3/4	9.22	4.00	1.75	3.50	1.75	1.75	0.94	0.75	3.13	3.88	1.63	10.0
R-106	1	13/16 - 7/8	10.56	4.50	2.00	4.00	2.06	2.00	1.13	0.88	3.75	4.50	2.00	15.5
R-107	1-1/8	15/16 - 1	11.81	5.00	2.38	4.49	2.31	2.25	1.25	1.00	4.13	5.00	2.25	22.0
R-108	1-1/4 - 1-3/8	1-1/16 - 1-1/8	13.19	5.50	2.75	5.00	2.69	2.50	1.50	1.13	4.75	5.63	2.50	32.0
R-109	1-1/2	1-3/16 - 1-1/4	15.13	6.00	3.00	6.00	3.13	3.00	1.63	1.19	5.38	6.38	2.75	46.0
R-110	1-5/8	1-5/16 - 1-3/8	16.25	6.50	3.25	6.50	3.25	3.00	1.75	1.31	5.75	6.63	3.00	55.0
R-111	1-3/4 - 1-7/8	1-7/16 - 1-5/8	18.25	7.50	3.88	7.00	3.75	3.50	2.00	1.56	6.50	7.63	3.50	85.0
R-112	2 - 2-1/8	1-13/16 - 1-7/8	21.50	8.50	4.25	9.00	4.00	4.00	2.25	1.81	7.00	8.75	3.75	96.0
R-113	2-1/4 - 2-3/8	1-15/16 - 2	23.50	9.00	4.38	10.00	4.50	4.50	2.50	2.13	7.75	10.00	4.25	165.0
R-114	2-1/2 - 2-5/8	2-3/16 - 2-1/4	25.50	9.75	4.63	10.75	5.00	5.00	3.00	2.38	8.50	11.00	4.75	252.0
R-115	2-3/4 - 2-7/8	2-5/16 - 2-3/8	28.75	11.50	5.25	11.50	5.75	5.38	3.00	2.38	10.00	11.38	5.00	305.0
R-116	3 - 3-1/8	2-5/8 - 2-3/4	30.56	12.50	5.50	12.00	6.06	5.75	3.25	2.50	10.50	12.25	5.25	370.0
R-117	3-1/4 - 3-3/8	2-5/8 - 2-3/4	34.75	14.00	7.00	14.00	6.75	6.25	3.563	2.75	11.50	13.25	5.50	510.0
R-118	3-1/2 - 3-5/8	2-7/8 - 3	36.50	15.00	8.00	14.50	7.00	7.50	3.813	3.25	12.50	15.50	6.00	760.0
R-119	3-3/4 - 4	3-5/8 - 3-3/4	38.75	16.00	8.25	15.00	7.75	7.75	4.13	3.38	14.00	16.00	7.00	808.0

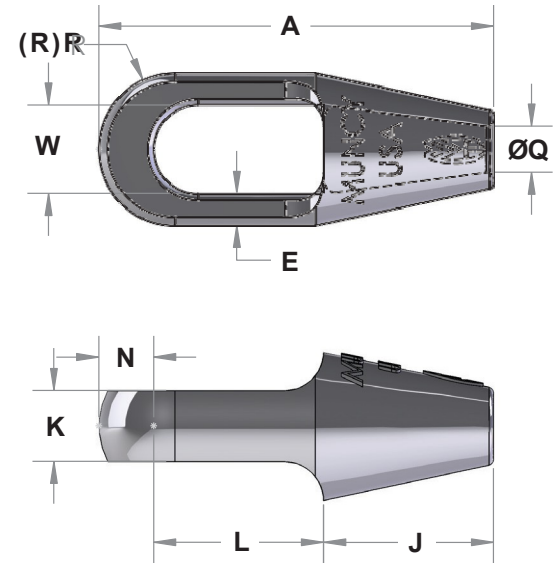
### CAUTION

Open Rope Spelter sockets are recommended for use on 6x7, 6x19, and 6x37, IPS, XIP (EIP), XXIP (EEIP), RRL, FCI WRC regular lay ropes. They are also approved for use on bridge ropes and structural strand. Before using open rope spelter sockets with other type, lay, construction, or grade of wire rope, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Closed Rope Spelter Sockets

- Muncy™ 1-1/2" and smaller Rope Sockets have a grooveless basket design for use with resin or zinc socketing media.
- Muncy™ 1-5/8" and larger Rope Sockets have a grooved basket design that meet the requirements of Federal Specifications RR-S-550D.
- Specially designed retaining segments preventing rotation and pop-out of socketing compound. 1-1/2" and smaller Muncy™ Rope Sockets and all Muncy™ Strand Sockets feature these retaining segments.



### ZINC OR RESIN POURED

Stock No.	Rope Size	Strand Size	Dimensions								Weight lbs. Each
			A	E	J	K	L	N	Q	W	
R-201	5/16 - 3/8	-	4.88	0.38	2.25	0.69	2.00	0.63	0.50	0.94	1.0
R-202	7/16 - 1/2	-	5.44	0.44	2.50	0.88	2.25	0.69	0.56	1.13	1.4
R-203	9/16 - 5/8	1/2	6.31	0.63	3.00	1.00	2.50	0.81	0.69	1.38	3.0
R-204	3/4	9/16 - 5/8	7.56	0.69	3.50	1.25	3.00	1.06	0.81	1.63	4.5
R-205	7/8	11/16 - 3/4	8.75	0.88	4.00	1.50	3.50	1.25	0.94	1.88	7.0
R-206	1	13/16 - 7/8	9.87	0.94	4.50	1.75	4.00	1.38	1.13	2.25	11.0
R-207	1-1/8	15/16 - 1	11.01	1.00	5.00	2.00	4.50	1.50	1.25	2.50	16.0
R-208	1-1/4 - 1-3/8	1-1/16 - 1-1/8	12.13	1.13	5.50	2.25	5.00	1.63	1.50	2.75	22.0
R-209	1-1/2	1-3/16 - 1-1/4	13.94	1.13	6.00	2.50	6.00	1.94	1.63	3.13	28.0
R-210	1-5/8	1-5/16 - 1-3/8	15.13	1.25	6.50	2.75	6.50	2.13	1.75	3.25	36.0
R-211	1-3/4 - 1-7/8	1-7/16 - 1-5/8	17.25	1.61	7.50	3.00	7.56	2.19	2.00	3.53	58.0
R-212	2 - 2-1/8	1-13/16 - 1-7/8	19.50	1.94	8.50	3.25	8.56	2.44	2.25	3.75	80.0
R-213	2-1/4 - 2-3/8	1-15/16 - 2	21.63	2.11	9.50	3.63	9.50	2.63	2.50	4.28	105.0
R-214	2-1/2 - 2-5/8	2-3/16 - 2-1/4	24.25	2.13	10.50	4.00	10.62	3.13	2.88	5.50	140.0
R-215	2-3/4 - 2-7/8	2-5/16 - 2-3/8	27.00	2.13	11.50	5.00	11.50	4.00	3.00	6.00	200.0
R-216	3 - 3-1/8	2-5/8 - 2-3/4	29.00	2.44	12.50	5.00	12.00	4.50	3.25	6.50	240.0
R-217	3-1/4 - 3-3/8	2-5/8 - 2-3/4	33.50	2.75	14.00	6.00	14.00	5.50	3.563	7.00	330.0
R-218	3-1/2 - 3-5/8	2-7/8 - 3	35.50	3.13	15.00	7.00	14.50	6.00	3.813	7.63	465.0
R-219	3-3/4 - 4	3-5/8 - 3-3/4	37.50	3.25	16.00	7.25	15.00	6.50	4.219	8.00	570.0

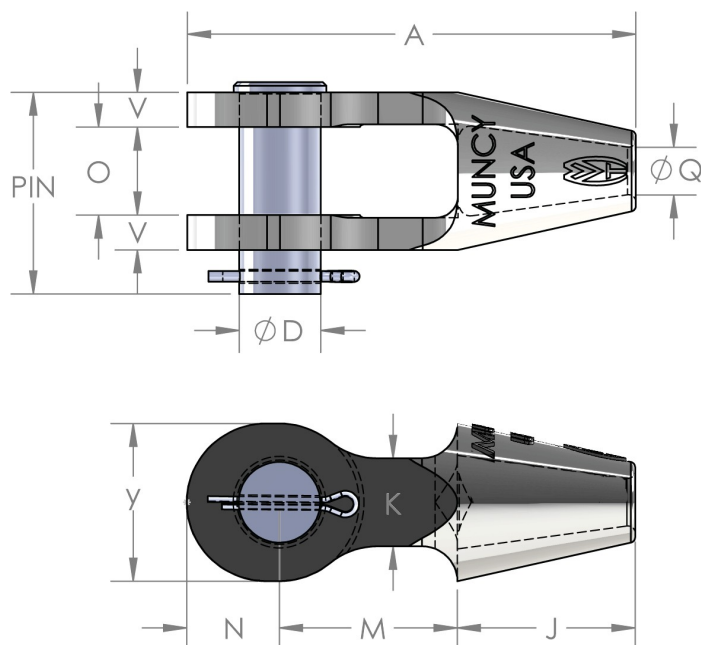
### CAUTION

Closed Rope Spelter sockets are recommended for use on 6x7, 6x19, and 6x37, IPS, XIP (EIP), XXIP (EEIP), RRL, FCI WRC regular lay ropes. They are also approved for use on bridge ropes and structural strand. Before using closed rope spelter sockets with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.





# Stainless Steel Open Rope Spelter Sockets



- ☞ Quality stainless steel casting.
- ☞ Grooveless with a retaining segment.
- ☞ Material grade 316.
- ☞ For use with zinc socketing media ONLY.

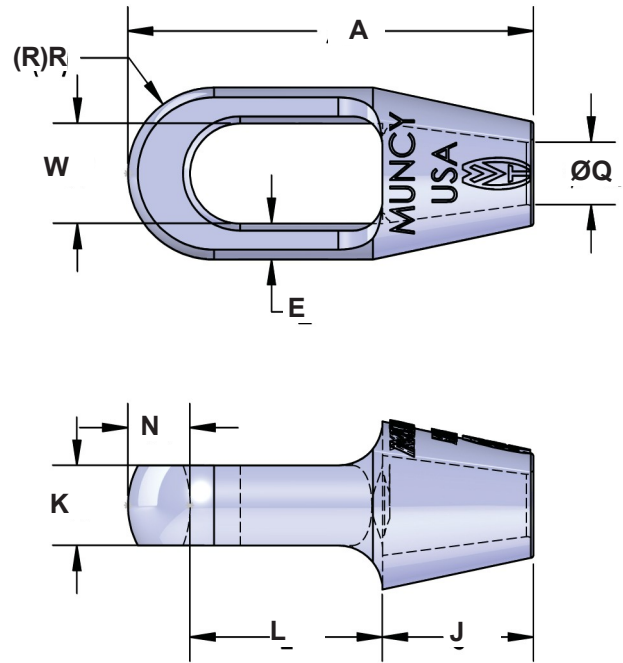
Stock No.	Rope Size	Strand Size	Dimensions											Weight lbs Each
			A	J	K	M	N	O	Q	V	Y	Pin Length	Pin Dia.	
R-101SS	5/16 - 3/8	-	4.88	2.25	0.81	1.75	.875	0.81	0.50	0.44	1.50	2.06	0.80	1.5
R-102SS	7/16 - 1/2	-	5.56	2.50	1.00	2.00	1.06	1.00	0.56	0.50	1.88	1.00	2.62	2.5
R-103SS	9/16 - 5/8	1/2	6.75	3.00	1.25	2.50	1.25	1.25	0.69	0.56	2.25	2.88	1.19	3.5
R-104SS	3/4	9/16 - 5/8	7.94	3.50	1.50	3.00	1.44	1.50	0.81	0.63	2.63	3.25	1.38	6.0
R-105SS	7/8	11/16 - 3/4	9.22	4.00	1.75	3.50	1.75	1.75	0.94	0.75	3.13	3.88	1.63	10.0
R-106SS	1	13/16 - 7/8	10.56	4.50	2.00	4.00	2.06	2.00	1.13	0.88	3.75	4.50	2.00	15.5
R-107SS	1-1/8	15/16 - 1	11.81	5.00	2.38	4.49	2.31	2.25	1.25	1.00	4.13	5.00	2.25	22.0
R-108SS	1-1/4 - 1-3/8	1-1/16 - 1-1/8	13.19	5.50	2.75	5.00	2.69	2.50	1.50	1.13	4.75	5.63	2.50	32.0
R-109SS	1-1/2	1-3/16 - 1-1/4	15.13	6.00	3.00	6.00	3.13	3.00	1.63	1.19	5.38	6.38	2.75	46.0
R-110SS	1-5/8	1-5/16 - 1-3/8	16.25	6.50	3.25	6.50	3.25	3.00	1.75	1.31	5.75	6.63	3.00	55.0

## CAUTION

Stainless Steel Open Rope Spelter Sockets are recommended for use on 6x7, 6x19, and 6x37 stainless steel wire rope, RRL, FC, IWRC regular lay ropes. Before using stainless steel spelter sockets with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly. For use with zinc socketing media only.



# Stainless Steel Closed Rope Spelter Sockets



- ☞ Quality stainless steel casting.
- ☞ Grooveless with a retaining segment
- ☞ Material grade 316.
- ☞ For use with zinc socketing media ONLY.

Stock No.	Rope Size	Strand Size	Dimensions								Weight lbs. Each
			A	E	J	K	L	N	Q	W	
R-201SS	5/16 - 3/8	-	4.88	0.38	2.25	0.69	2.00	0.63	0.50	0.94	1.0
R-202SS	7/16 - 1/2	-	5.44	0.44	2.50	0.88	2.25	0.69	0.56	1.13	1.4
R-203SS	9/16 - 5/8	1/2	6.31	0.63	3.00	1.00	2.50	0.81	0.69	1.38	3.0
R-204SS	3/4	9/16 - 5/8	7.56	0.69	3.50	1.25	3.00	1.06	0.81	1.63	4.5
R-205SS	7/8	11/16 - 3/4	8.75	0.88	4.00	1.50	3.50	1.25	0.94	1.88	7.0
R-206SS	1	13/16 - 7/8	9.87	0.94	4.50	1.75	4.00	1.38	1.13	2.25	11.0
R-207SS	1-1/8	15/16 - 1	11.01	1.00	5.00	2.00	4.50	1.50	1.25	2.50	16.0
R-208SS	1-1/4 - 1-3/8	1-1/16 - 1-1/8	12.13	1.13	5.50	2.25	5.00	1.63	1.50	2.75	22.0
R-209SS	1-1/2	1-3/16 - 1-1/4	13.94	1.13	6.00	2.50	6.00	1.94	1.63	3.13	28.0
R-210SS	1-5/8	1-5/16 - 1-3/8	15.13	1.25	6.50	2.75	6.50	2.13	1.75	3.25	36.0

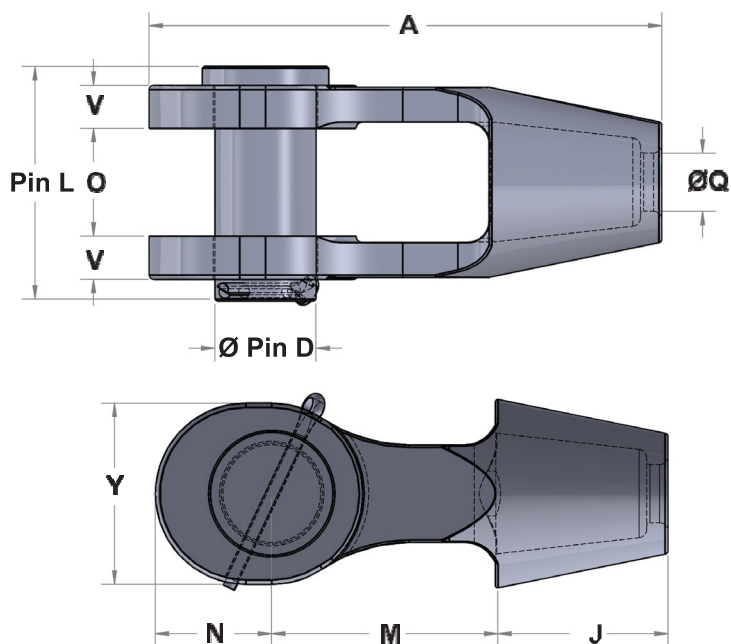
## CAUTION

Stainless Steel Closed Rope Spelter sockets are recommended for use on 6x7, 6x19, and 6x37, stainless steel wire rope, RRL, FC, IWRC regular lay ropes. Before using stainless steel spelter sockets with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly. For use with zinc socketing media only.


**USA**



# Open Strand Spelter Sockets



- ☞ Specially designed retaining segments prevent rotation and pop-out of socketing compound.
- ☞ 1-1/2" and smaller Muncy™ Rope Sockets and all Muncy™ Strand Sockets feature these retaining segments.
- ☞ Engineered and designed for the most extreme applications. We use high grade steel for strength and durability.
- ☞ Not all sizes regularly stocked. Call for availability.

**ZINC POURED**

Stock No.	Rope Size	Strand Size	Dimensions											Weight lbs. Each
			A	J	K	M	N	O	Q	V	Y	Pin		
												Length	Dia.	
F-4374	1-3/4 - 1-7/8	1-7/16 - 1-5/8	16.63	6.13	3.50	6.50	4.00	3.50	2.00	1.25	6.25	7.00	3.50	71.0
F-4375	-	1-11/16 - 1-3/4	17.50	6.50	3.63	7.00	4.00	4.00	2.25	1.63	6.25	8.38	3.75	92.0
F-4376	2 - 2-1/8	1-13/16 - 1-7/8	19.25	6.75	3.75	8.00	4.50	4.25	2.19	1.63	6.88	8.63	4.00	111.0
F-4377	2-1/4 - 2-3/8	1-15/16 - 2	21.38	7.00	3.88	9.50	4.88	4.50	2.31	1.63	7.50	8.88	4.25	138.0
F-4362	-	2-1/16 - 2-1/8	22.50	7.75	3.88	10.00	4.75	4.50	2.50	2.00	7.50	9.63	4.50	161.0
F-4398	2-1/2 - 2-5/8	2-3/16 - 2-1/4	24.13	7.88	4.00	11.00	5.25	5.00	2.63	2.00	8.00	10.25	4.75	196.0
F-4399	2-3/4 - 2-7/8	2-5/16 - 2-3/8	24.75	8.25	4.50	11.00	5.50	5.25	2.75	2.13	8.50	10.75	5.00	231.0
F-4400	-	2-7/16 - 2-9/16	26.56	8.50	5.00	12.00	5.75	5.50	3.00	2.25	9.00	11.25	5.25	261.0
F-3438	3 - 3-1/8	2-5/8 - 2-3/4	27.34	8.75	5.00	12.25	6.38	6.00	3.13	2.50	9.75	12.25	5.75	320.0
F-3421	3-1/4 - 3-3/8	2-7/8 - 3	29.75	10.00	6.63	13.00	6.75	6.25	3.38	2.50	10.50	12.50	6.00	392.0
F-3471	3-1/2 - 3-5/8	3-1/8 - 3-1/4	31.50	10.50	6.13	13.25	7.75	6.75	3.75	2.75	11.25	13.50	6.50	433.0
F-3478	-	3-3/8 - 3-1/2	32.75	10.75	6.38	13.75	8.25	7.25	4.00	3.00	11.75	14.63	6.75	582.0
F-3479	3-3/4 - 4	3-5/8 - 3-3/4	33.50	11.00	6.74	14.00	8.50	7.50	4.25	3.38	12.25	15.50	7.00	677.0
F-3480	-	3-7/8 - 4	34.50	11.25	7.00	14.25	9.00	8.00	4.50	3.50	12.75	16.38	7.25	754.0
F-3557	4-1/2 - 4-3/4	4-1/8 - 4-3/8	35.00	11.75	7.00	14.75	8.50	8.25	5.25	2.75	12.75	15.13	7.25	659.0
F-3558	-	4-1/2 - 4-3/4	37.00	12.50	8.00	15.50	9.00	8.50	5.75	3.00	13.50	15.88	7.50	778.0
F-3559	5-1/2 - 5-3/4	4-7/8 - 5-1/8	40.25	13.75	9.00	16.50	9.00	8.75	6.25	3.00	14.75	16.13	8.00	947.0
F-3560	6	5-1/4 - 5-1/2	43.50	15.00	10.00	17.25	11.25	9.00	6.50	3.00	16.50	16.38	8.50	1130.0

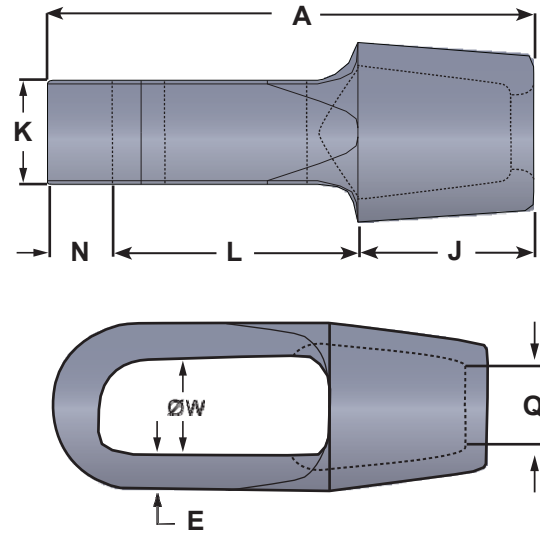
## CAUTION

Open Strand spelter sockets are recommended for use on 6x7, 6x19, and 6x37, IPS, XIP (EIP), XXIP (EEIP), RRL, FC IWRC regular lay ropes. They are also approved for use on bridge ropes and structural strand. Before using strand spelter sockets with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Closed Strand Spelter Sockets

- ✓ Specially designed retaining segments prevent rotation and pop-out of socketing compound.
- ✓ 1-1/2" and smaller Muncy™ Rope Sockets and all Muncy™ Strand Sockets feature these retaining segments.
- ✓ For use on structural strand and rope.
- ✓ Not all sizes regularly stocked. Call for availability.



### ZINC POURED

Stock No.	Rope Size	Strand Size	Dimensions							Weight lbs. Each
			A	J	K	L	N	Q	W	
F-3439	1-3/4 - 1-7/8	1-7/16 - 1-5/8	15.63	6.13	3.25	7.50	2.00	2.00	3.88	46.0
F-3457	-	1-11/16 - 1-3/4	16.75	6.50	3.75	8.00	2.25	2.25	4.25	56.0
F-3459	2 - 2-1/8	1-13/16 - 1-7/8	17.88	6.75	4.00	8.75	2.38	2.25	4.38	78.0
F-4454	2-1/4 - 2-3/8	1-15/16 - 2	18.88	7.00	4.25	9.50	2.38	2.31	4.75	78.0
F-4455	-	2-1/16 - 2-1/8	20.25	7.75	4.50	10.00	2.50	2.50	5.00	96.0
F-4456	2-1/2 - 2-5/8	2-3/16 - 2-1/4	21.13	7.88	4.75	10.50	2.75	2.63	5.25	114.0
F-4459	2-3/4 - 2-7/8	2-5/16 - 2-3/8	22.13	8.25	5.00	11.00	2.88	2.75	5.50	134.0
F-4463	-	2-7/16 - 2-9/16	23.25	8.50	5.25	11.50	3.25	2.94	5.75	167.0
F-3472	3 - 3-1/8	2-5/8 - 2-3/4	24.00	8.75	5.75	12.00	3.25	3.13	6.50	182.0
F-3473	3-1/4 - 3-3/8	2-7/8 - 3	26.00	10.00	6.00	12.25	3.75	3.38	6.25	242.0
F-3474	3-1/2 - 3-5/8	3-1/8 - 3-1/4	26.75	10.50	6.50	12.50	3.75	3.75	7.00	282.0
F-3494	-	3-3/8 - 3-1/2	27.75	10.75	7.00	13.00	4.00	4.00	7.25	343.0
F-3495	3-3/4 - 4	3-5/8 - 3-3/4	28.75	11.00	7.25	13.50	4.25	4.25	7.50	391.0
F-3496	-	3-7/8 - 4	29.75	11.25	7.75	14.00	4.50	4.50	7.75	465.0
F-3561	4-1/4 - 4-1/2	4-1/8 - 4-3/8	32.50	11.75	7.88	17.13	3.63	5.25	7.75	459.0
F-3562	-	4-1/2 - 4-3/4	34.63	12.50	8.13	17.75	4.38	5.75	8.00	547.0
F-3563	5-1/2 - 5-3/4	4-7/8 - 5-1/8	38.13	13.75	8.38	19.50	4.88	6.25	8.50	671.0
F-3564	6	5-1/4 - 5-1/2	41.50	15.00	8.63	21.00	5.50	6.50	9.00	910.0

### CAUTION

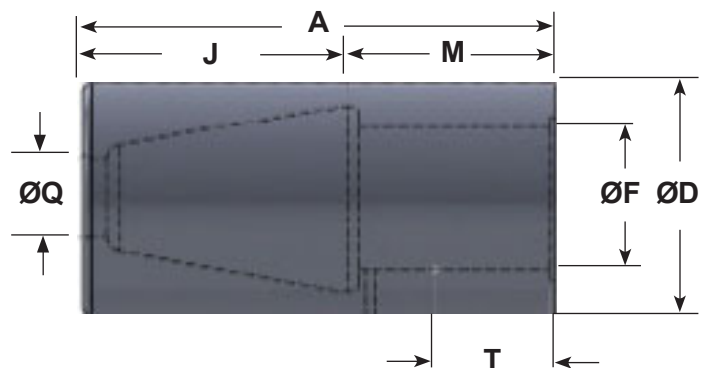
Closed Strand spelter sockets are recommended for use on 6x7, 6x19, and 6x37, IPS, XIP (EIP), XXIP (EEIP), RRL, FC IWRC regular lay ropes. They are also approved for use on bridge ropes and structural strand. Before using strand spelter sockets with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



# USA



# Type 6 Anchor Sockets



- ✓ Use with structural strand and rope.
- ✓ Rod and nut will be furnished upon request.
- ✓ Internal thread.

**ZINC POURED**

Stock No.	Rope Dia.	Strand Diameter	Dimensions							Weight lbs. Each
			A	D	F	J	M	Q	T	
F-2618	1/2	1/2	5-1/16	2-5/8	1	2-7/8	2-3/16	7/8	1-9/16	5
F-2619	5/8	9/16 - 5/8	6	2-15/16	1-1/4	3-9/16	2-7/16	1	1-13/16	8
F-2620	3/4	11/16 - 3/4	6-13/16	3-1/4	1-1/2	4-3/16	2-5/8	1-1/8	2	11
F-2621	7/8 - 1	13/16 - 7/8	7-3/4	3-9/16	1-3/4	4-7/8	2-7/8	1-1/4	2-1/4	14
F-2622	1-1/8	15/16 - 1	8-11/16	3-7/8	2	5-9/16	3-1/8	1-3/8	2-1/2	18
F-2623	1-1/4	1-1/16 - 1-1/8	9-1/4	4-3/16	2-1/4	5-7/8	3-3/8	1-1/2	2-3/4	22
F-2624	1-3/8	1-3/16 - 1-1/4	8-7/8	4-3/16	2-1/2	5-1/4	3-5/8	1-5/8	3	21
F-2604	1-1/2	1-5/16 - 1-3/8	9-3/8	4-7/16	2-3/4	5-1/2	3-7/8	1-3/4	3-1/4	25
F-2586	1-5/8	1-7/16 - 1-1/2	9-7/8	4-7/8	3	5-3/4	4-1/8	1-7/8	3-1/2	30
F-2625	1-3/4	1-9/16 - 1-5/8	10-3/8	5-1/8	3-1/4	6	4-3/8	2	3-3/4	35
F-4580	1-7/8 - 2	1-11/16 - 1-3/4	11	5-3/8	3-1/2	6-1/4	4-3/4	2-1/8	4	41
F-2626	2-1/8	1-13/16 - 1-7/8	11-3/8	5-3/4	3-3/4	6-1/2	4-7/8	2-1/4	4-1/4	48
F-2627	2-1/4	1-15/16 - 2	11-7/8	6	4	6-3/4	5-1/8	2-3/8	4-1/2	54
F-2569	2-3/8	2-1/16 - 2-1/8	12-1/4	6-5/16	4	7	5-1/4	2-1/2	4-1/2	65
F-4614	2-1/2	2-3/16 - 2-1/4	12-3/4	6-11/16	4-1/4	7-1/4	5-1/2	2-3/4	4-3/4	77
F-4691	2-5/8	2-5/16 - 2-3/8	13-1/8	7-1/16	4-1/2	7-1/2	5-5/8	2-3/4	5	89
F-4692	2-3/4 - 2-7/8	2-7/16 - 2-9/16	13-5/8	7-9/16	4-3/4	7-3/4	5-7/8	2-15/16	5-1/4	106
F-4693	3	2-5/8 - 2-3/4	14-1/4	8-1/8	5	8-1/8	6-1/8	3-1/8	5-1/2	131
F-4615	3-1/4	2-7/8 - 3	15-5/8	8-3/4	5-1/2	8-7/8	6-3/4	3-3/8	6	169
F-4694	3-1/2	3-1/8 - 3-1/4	16-7/8	9-11/16	6	9-3/4	7-1/8	3-3/4	6-1/2	219
F-4616	3-3/4	3-3/8 - 3-1/2	17-7/8	10-3/8	6-1/4	10-3/8	7-1/2	4	6-3/4	275
F-4695	4	3-5/8 - 3-3/4	19-3/4	11-1/4	6-3/4	11-1/8	8-5/8	4-1/4	8	351
F-4667	4-1/4	3-7/8 - 4	20-1/4	11-3/4	7-1/4	11-3/4	8-1/2	4-1/2	8	405
F-4759	4-1/2 - 4-3/4	4-1/8 - 4-3/8	20-1/4	11-3/4	7-1/4	11-3/4	8-1/2	5-1/4	7-3/4	376
F-4760	5 - 5-1/4	4-1/2 - 4-3/4	22	12-1/2	7-3/4	12-1/2	9-1/2	5-3/4	8-3/4	441
F-4761	5-1/2 - 5-3/4	4-7/8 - 5-1/8	23-1/2	13-1/2	8	13-3/4	9-3/4	6-1/4	9	567
F-4762	6	5-1/4 - 5-1/2	25	14	8-1/4	15	10	6-1/2	9-1/4	639

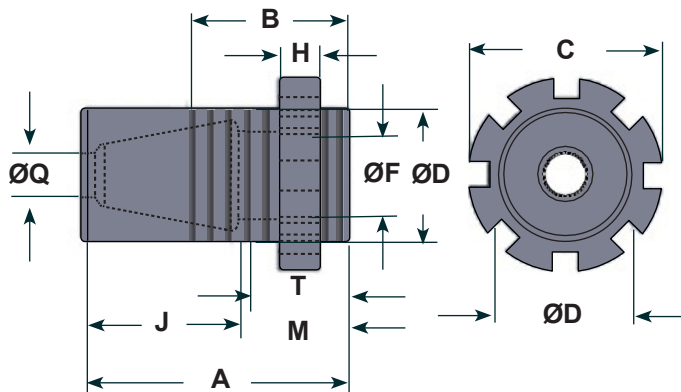
## CAUTION

Anchor sockets are recommended for use on bridge ropes and structural strand. They are also approved for use on 6x7, 6x19, and 6x37, IPS, XIP (EIP), XXIP (EEIP), RRL, FC, IWRC wire ropes. Before using Anchor Sockets with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.





# Type 7 Anchor Sockets



- ✓ This socket is used for structural strand and rope.
- ✓ The anchor connection is effected through the bearing of an adjustable spanner nut.
- ✓ Furnished with or without internal threads. (Internal threads are used to accommodate tensioning jack.)

**Note:** Spanner nut not to be used for tensioning.

## ZINC POURED

Stock No.	Rope Dia.	Strand Diameter	Dimensions										Weight lbs. Each
			A	B	C	D	F	H	J	M	Q	T	
F-2628	1/2	1/2	5-1/16	2-1/2	3-7/8	2-5/8	1	1/2	2-7/8	2-1/16	7/8	1-9/16	6
F-2629	5/8	9/16 - 5/8	6	2-7/8	4-1/16	2-15/16	1-1/4	5/8	3-9/16	2-5/16	1	1-13/16	8
F-2630	3/4	11/16 - 3/4	6-13/16	3-1/4	4-1/2	3-1/4	1-1/2	3/4	4-3/16	2-1/2	1-1/8	2	12
F-2631	7/8 - 1	13/16 - 7/8	7-3/4	3-1/2	5-1/16	3-9/16	1-3/4	7/8	4-7/8	2-3/4	1-1/4	2-1/4	16
F-2632	1-1/8	15/16 - 1	8-11/16	3-3/4	5-1/2	3-7/8	2	1	5-9/16	3	1-3/8	2-1/2	21
F-4696	1-1/4	1-1/16 - 1-1/8	9-1/4	4-1/2	5-5/16	4-3/16	2-1/4	1-1/8	5-7/8+	3-1/4	1-1/2	2-3/4	26
F-4697	1-3/8	1-3/16 - 1-1/4	89-7/8	4-3/4	6-3/16	4-3/16	2-1/2	1-1/4	5-1/4	3-1/2	1-5/8	3	24
F-4698	1-1/2	1-5/16 - 1-3/8	9-3/8	5-1/2	6-5/8	4-7/16	2-3/4	1-3/8	5-1/2	3-3/4	1-3/4	3-1/4	30
F-4699	1-5/8	1-7/16 - 1-1/2	9-7/8	6	7-1/8	4-7/8	3	1-1/2	5-3/4	4	1-7/8	3-1/2	38
F-4700	1-3/4	1-9/16 - 1-5/8	10-3/8	6-1/4	7/9/16	5-1/8	3-1/4	1-5/8	6	4-1/4	2	3-3/4	45
F-4701	1-7/8 - 2	1-11/16 - 1-3/4	10-7/8	6-3/8	8	5-3/8	3-1/2	1-3/4	6-1/4	4-1/2	2-1/8	4	53
F-4702	2-1/8	1-13/16 - 1-7/8	11-3/8	6-3/4	8-1/2	5-3/4	3-3/4	1-7/8	6-1/2	4-3/4	2-1/4	4-1/4	63
F-4663	2-1/4	1-15/16 - 2	11-1/2	6	9-1/4	6-1/4	3-3/4	2	6-3/4	4-3/4	2-5/16	4-1/4	76
F-4704	2-3/8	2-1/16 - 2-1/8	12-1/8	7-1/4	9-9/16	6-5/16	4	2-1/8	7	5	2-1/2	4-1/2	88
F-4705	2-1/2	2-3/16 - 2-1/4	12-5/8	7-1/2	10-1/8	6-11/16	4-1/4	2-1/4	7-1/4	5-1/4	2-3/4	4-3/4	99
F-4706	2-5/8	2-5/16 - 2-3/8	13-1/8	8	10-11/16	7-1/16	4-1/2	2-3/8	7-1/2	5-1/2	2-3/4	5	119
F-4707	2-3/4 - 2-7/8	2-7/16 - 2-9/16	13-5/8	8-1/4	11-9/16	7-1/16	4-3/4	2-9/16	7-3/4	5-3/4	2-15/16	5-1/4	141
F-4708	3	2-5/8 - 2-3/4	14-1/4	8-1/2	12-5/16	8-1/8	5	2-3/4	8-1/8	6	3-1/8	5-1/2	175
F-4690	3-1/4	2-7/8 - 3	15-5/8	9-1/4	13-1/4	8-3/4	5-1/2	3	8-7/8	6-5/8	3-3/8	6-1/8	225
F-4683	3-1/2	3-1/8 - 3-1/4	16-7/8	9-1/2	14-3/8	9-3/4	6	3-1/4	9-3/4	7	3-3/4	6-1/2	242
F-4682	3-3/4	3-3/8 - 3-1/2	17-3/4	9-3/4	15-1/4	10-3/8	6-1/4	3-1/2	10-3/8	7-1/4	4	6-3/4	361
F-4590	4	3-5/8 - 3-3/4	19-3/4	10	16-1/2	11-1/4	6-3/4	3-3/4	11-1/8	8-1/2	4-1/4	8	461
F-4709	4-1/4	3-7/8 - 4	20-1/8	10-3/4	17-1/4	11-3/4	7-1/4	4	11-3/4	8-1/4	4-1/2	7-3/4	522
F-4747	4-1/2 - 4-3/4	4-1/8 - 4-3/8	20-1/4	10-3/4	16-1/2	11-3/4	7-1/4	4-3/8	11-3/4	8-1/4	5	7-3/4	487
F-4742	5 - 5-1/4	4-1/2 - 4-3/4	22	11-3/4	17-1/2	12-1/2	7-3/4	4-3/4	12-1/2	9-1/4	5-3/8	8-3/4	575
F-4749	5-1/2 - 5-3/4	4-7/8 - 5-1/8	23-1/2	12	18-3/4	13-1/2	8	5-1/8	13-3/4	9-1/2	5-7/8	9	734
F-4750	6	5-1/4 - 5-1/2	25	12-1/4	19-1/2	14	8-1/4	5-1/2	15	9-3/4	6-1/4	9-1/4	836

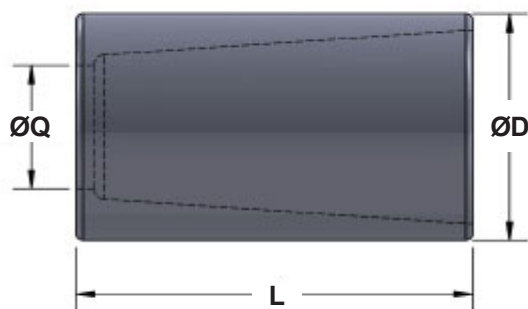
### CAUTION

Anchor sockets are recommended for use on bridge ropes and structural strand. They're also approved for use on 6x7, 6x19, and 6x37, IPS, XIP (EIP), XXIP (EEIP), RRL, FC IWRC regular lay ropes. Before using Anchor sockets with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.





# Type 8 Anchor Sockets



- ☞ This socket is used for structural strand and rope.
- ☞ This is a bearing-type socket.
- ☞ Assembly length is adjusted by slimming at the bearing surface.

## ZINC POURED

Stock No.	Rope Dia.	Strand Diameter	Dimensions			Weight lbs. Each
			D	J	Q	
F-2600	1/2	1/2	2-5/8	2-7/8	7/8	2.5
F-2599	5/8	9/16 - 5/8	2-15/16	3-9/16	1	4
F-2567	3/4	11/16 - 3/4	3-1/4	4-3/16	1-1/8	5.5
F-2598	7/8 - 1	13/16 - 7/8	3-9/16	4-7/8	1-1/4	8
F-2593	1-1/8	15/16 - 1	3-7/8	5-9/16	1-3/8	10.5
F-2601	1-1/4	1-1/16 - 1-1/8	4-1/8	5-7/8	1-1/2	12.5
F-2602	1-3/8	1-3/16 - 1-1/4	4	5-1/4	1-5/8	10
F-2603	1-1/2	1-5/16 - 1-3/8	4-3/16	5-1/2	1-3/4	11
F-2577	1-5/8	1-7/16 - 1-1/2	4-1/2	5-3/4	1-7/8	13
F-4595	1-3/4	1-9/16 - 1-5/8	4-13/16	6	2	16.5
F-4577	1-7/8 - 2	1-11/16 - 1-3/4	5-1/8	6-1/4	2-1/8	20
F-4669	2-1/8	1-13/16 - 1-7/8	5-1/2	6-1/2	2-1/4	24
F-4670	2-1/4	1-15/16 - 2	5-15/16	6-3/4	2-3/8	31
F-2568	2-3/8	2-1/16 - 2-1/8	6-5/16	7	2-1/2	37
F-2576	2-1/2	2-3/16 - 2-1/4	6-11/16	7-1/4	2-3/4	44
F-2673	2-5/8	2-5/16 - 2-3/8	7-1/16	7-1/2	2-3/4	53
F-2574	2-3/4 - 2-7/8	2-7/16 - 2-9/16	7-9/16	7-3/4	2-15/16	62
F-4671	3	2-5/8 - 2-3/4	8-1/8	8-1/8	3-1/8	76
F-4617	3-1/4	2-7/8 - 3	8-3/4	8-7/8	3-3/8	99
F-4672	3-1/2	3-1/8 - 3-1/4	9-11/16	9-3/4	3-3/4	130
F-4618	3-3/4	3-3/8 - 3-1/2	10-3/8	10-3/8	4	161
F-4583	4	3-5/8 - 3-3/4	11-1/16	11-1/8	4-1/4	194
F-4673	4-1/4	3-7/8 - 4	11-3/4	11-3/4	4-1/2	233

### CAUTION

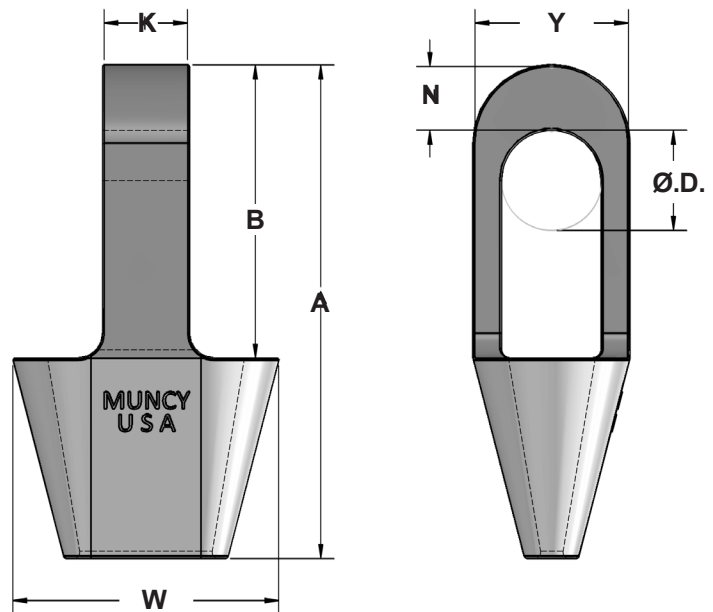
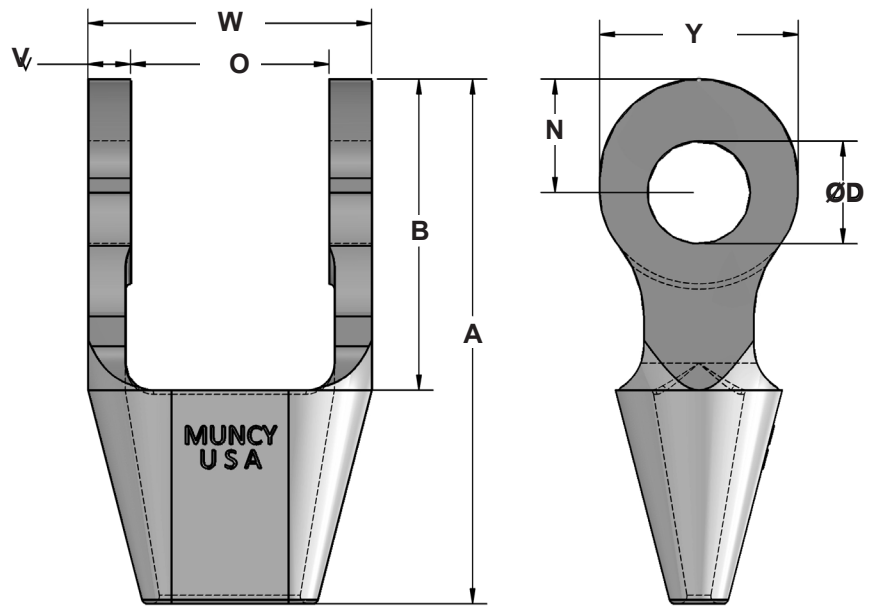
Anchor sockets are recommended for use on bridge ropes and structural strand. They are also approved for use on 6x7, 6x19, and 6x37, IPS, XIP (EIP), XXIP (EEIP), RRL, FC, IWRC regular lay ropes. Before using Anchor sockets with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



# Flat Rope Spelter Socket

- ✓ Muncy™ flat rope spelter sockets are recommended for use with zinc socketing media.
- ✓ Flat rope sockets are commonly seen in vertical lift gates or bridges.
- ✓ Dimensions are made to customers specifications.
- ✓ All pricing is upon request.
- ✓ Available with the ears (or bail) perpendicular or parallel with the basket.
- ✓ Available in carbon or stainless steel.

## ZINC OR RESIN POURED



### CAUTION

Designed for use with flat rope or braided rope. Muncy recommends that a test assembly be destructively tested to prove the adequacy of the assembly.

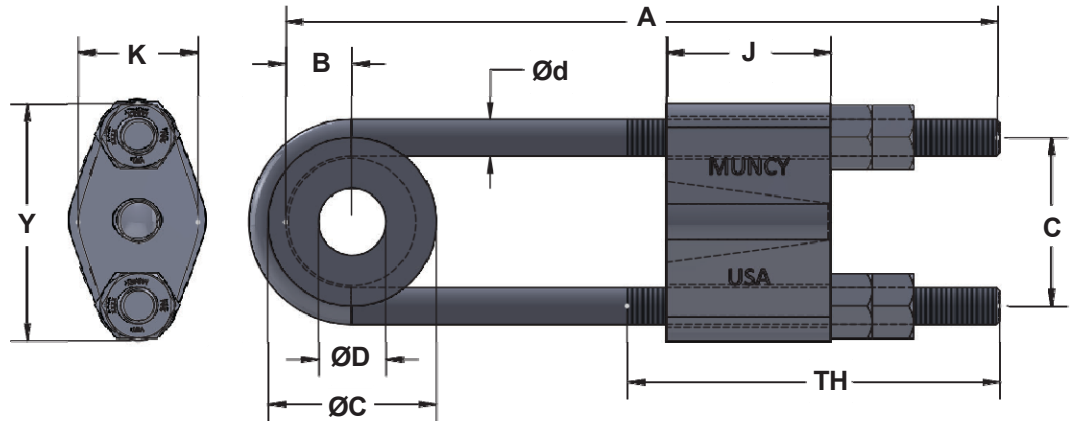


**USA**



# Closed Bridge Bowl Sockets

- ✓ Muncy™ Open Bridge Sockets are for use on structural strand and rope.
- ✓ Uses Standard and 48" take-up.
- ✓ Available with or without spool.
- ✓ Meets the requirements of federal specs RR-S-550D.



## ZINC or RESIN POURED

Stock No.	Rope Size	Strand Size	Dimensions												Weight lbs. Each	
			Std. Take-up	A		C	d	D	J	K	R	TH		Y	For Std. Take-up	For 48" Take-up
				For Std. Take-up	For 48" Take-up							For Std. Take-up	For 48" Take-up			
F-4481-C	1-5/8 - 1-3/4	1-7/16 - 1-1/2	15	34	67	8-1/8	2	3-9/16	7-5/16	6-1/2	2-9/16	19-1/4	52-1/4	11-3/4	170	229
F-4482-C	1-7/8 - 2	1-9/16 - 1-3/4	15	36	69	9	2-1/4	3-13/16	8-1/8	7-5/16	2-13/16	19-3/4	52-3/4	13-1/8	234	309
F-4483-C	2-1/8 - 2-1/4	1-13/16 - 2	18	42	72	10-1/4	2-1/2	4-9/16	9-5/16	8-1/8	3-1/16	23-1/4	53-1/4	14-3/4	333	416
F-4484-C	2-3/8 - 2-1/2	2-1/16 - 2-1/4	18	45	75	11-1/2	2-3/4	4-13/16	10-7/8	8-15/16	3-5/16	23-3/4	53-3/4	16-1/2	460	561
F-4485-C	2-5/8 - 2-3/4	2-5/16 - 2-3/8	18	48	78	12-11/16	3	5-1/16	11-13/16	9-3/4	3-11/16	24-1/4	54-1/4	18-1/16	597	717
F-4486-C	2-7/8 - 3	2-7/16 - 2-5/8	21	53	80	13-3/8	3-1/4	5-13/16	12-13/16	10-9/16	3-15/16	27-3/4	54-3/4	19-1/4	737	864
F-4487-C	3-1/4	2-11/16 - 2-3/4	21	55	82	14-1/16	3-1/2	5-13/16	13	9-7/8	4-3/16	28-1/4	55-1/4	20-5/16	855	1003
F-4488-C	3-1/2	2-7/8 - 3	21	58	85	15-1/4	3-3/4	6-13/16	15-1/2	12-3/16	4-1/2	28-3/4	55-3/4	22	1124	1293
F-4489-C	3-3/4	3-1/8 - 3-1/4	24	65	89	17-1/4	4	7-1/6	16	11-5/16	4-3/4	32-1/4	56-1/4	24-1/2	1493	1664
F-4490-C	N/A	3-3/8 - 3-1/2	24	69	93	18-5/16	4-1/4	7-5/16	16-3/4	11-7/8	5	32-3/4	56-3/4	26-1/16	1617	1810
F-4491-C	4	3-5/8 - 3-3/4	24	72	96	19-3/8	4-1/2	7-9/16	18-3/16	12-3/4	5-1/4	33-1/4	57-1/4	27-5/8	2079	2295
F-4492-C	4-1/4	3-7/8 - 4	24	75	99	20-7/16	4-3/4	7-13/16	20	13-7/16	5-1/2	33-3/4	57-3/4	29-7/16	2501	2742
F-4755-C	4-1/2 - 4-3/4	4-1/8 - 4-3/8	27	78	99	20	4-1/4	7-5/16	20	14	5	36	57	28	2172	2340
F-4756-C	5 - 5-1/4	4-1/2 - 4-3/4	27	81	102	21	4-3/4	7-9/16	21-1/4	14-7/8	5-1/2	37	58	30-1/4	2757	2968
F-4757-C	5-1/2 - 5-3/4	4-7/8 - 5-1/8	30	87	105	22	5	8-1/16	22-3/4	16	5-3/4	40-1/2	58-1/2	31-1/2	3215	3415
F-4758-C	6	5-1/4 - 5-1/2	30	91	109	23	5-1/2	8-9/16	24-1/2	17	6-1/4	41-1/2	59-1/2	33	3907	4149

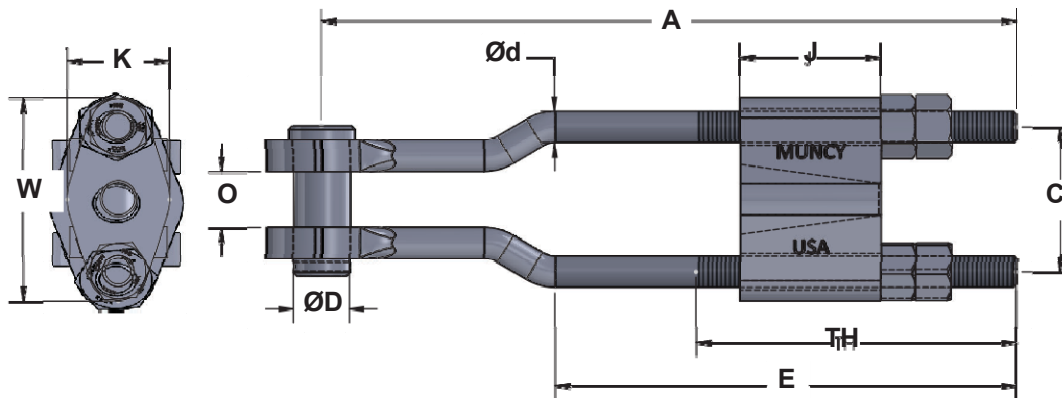
### CAUTION

Bridge Bowls are recommended for use on bridge ropes and structural strand. They are also approved for use on 6x7, 6x19, and 6x37, IPS, XIP (EIP), XXIP (EEIP), RRL, FC, IWRC IWRC regular lay ropes. Before using Bridge Bowls with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



# Open Bridge Bowl Sockets

Also known as "Stirrup Rod Assembly"



- ✓ Muncy™ Open Bridge Sockets are for use on structural strand and rope.
- ✓ Uses Standard and 48" take-up.
- ✓ Meets the requirements of federal spec RR-S-550D.

**ZINC or RESIN POURED**

Stock No.	Rope Size	Strand Size	Dimensions																Weight lbs. Each	
			Std. Take-up	A		C	d	D	E		J	K	O	P	TH		Y	Cotter Pin Dia.	For Std. Take-up	For 48" Take-up
				For Std. Take-up	For 48" Take-up				For Std. Take-up	For 48" Take-up					For Std. Take-up	For 48" Take-up				
F-4481-O	1-5/8 - 1-3/4	1-7/16 - 1-1/2	15	39	72	8-1/8	2	3-1/2	27	60	7-5/16	6-1/2	3-1/2	8-1/2	19-1/4	52-1/4	11-3/4	1/2	180	239
F-4482-O	1-7/8 - 2	1-9/16 - 1-3/4	15	42	75	9	2-1/4	3-3/4	28-1/2	61-1/2	8-1/8	7-5/16	4	9-5/8	19-3/4	52-3/4	13-1/8	1/2	249	323
F-4483-O	2-1/8 - 2-1/4	1-13/16 - 2	18	50	80	10-1/4	2-1/2	4-1/4	33	63	9-5/16	8-1/8	4-1/2	10-5/8	23-1/4	53-1/4	14-3/4	1/2	356	439
F-4484-O	2-3/8 - 2-1/2	2-1/16 - 2-1/4	18	52	82	11-1/2	2-3/4	4-3/4	35-1/2	65-1/2	10-7/8	8-15/16	5	11-3/4	23-3/4	53-3/4	16-1/2	5/8	485	586
F-4485-O	2-5/8 - 2-3/4	2-5/16 - 2-3/8	18	54	84	12-11/16	3	5	36-1/2	66-1/2	11-13/16	9-3/4	5-3/8	12-5/8	24-1/4	54-1/4	18-1/16	5/8	610	730
F-4486-O	2-7/8 - 3	2-7/16 - 2-5/8	21	59	86	13-3/8	3-1/4	5-3/4	41	68	12-13/16	10-9/16	6	13-3/4	27-3/4	54-3/4	19-1/4	5/8	776	903
F-4487-O	3-1/4	2-11/16 - 2-3/4	21	61	88	14-1/6	3-1/2	5-3/4	42-1/2	69-1/2	13	9-7/8	6-1/4	14-1/2	28-1/4	55-1/4	20-5/16	5/8	882	1030
F-4488-O	3-1/2	2-7/8 - 3	21	63	90	15-1/4	3-3/4	6-1/4	45	72	15-1/2	12-3/16	7-1/2	16-3/8	28-3/4	55-3/4	22	5/8	1180	1349
F-4489-O	3-3/4	3-1/8 - 3-1/4	24	70	94	17-1/4	4	7	50	74	16	11-5/16	7-3/4	17	32-1/4	56-1/4	24-1/2	5/8	1508	1679
F-4490-O	N/A	3-3/8 - 3-1/2	24	75	99	18-5/16	4-1/4	7-1/4	53	77	16-3/4	11-7/8	8	17-7/8	32-3/4	56-3/4	26-1/16	3/4	1621	1821
F-4491-O	4	3-5/8 - 3-3/4	24	80	104	19-3/8	4-1/2	7-1/2	55-1/2	79-1/2	18-3/16	12-3/4	8-1/4	18-5/8	33-1/4	57-1/4	27-5/8	3/4	2031	2251
F-4492-O	4-1/4	3-7/8 - 4	24	85	109	20-7/16	4-3/4	7-3/4	57-1/2	81-1/2	20	13-7/16	8-1/2	19-3/8	33-3/4	57-3/4	29-7/16	3/4	2444	2684
F-4755-O	4-1/2 - 4-3/4	4-1/8 - 4-3/8	27	87	108	20	4-1/4	7-1/4	59-1/2	80-1/2	20	14	8-1/4	18-1/4	36	57	28	3/4	2311	2480
F-4756-O	5 - 5-1/4	4-1/2 - 4-3/4	27	90	111	21	4-3/4	7-1/2	62	83	21-1/4	14-7/8	8-1/2	19-1/2	37	58	30-1/4	3/4	2917	3129
F-4757-O	5-1/2 - 5-3/4	4-7/8 - 5-1/8	30	96	114	22	5	8	67	85	22-3/4	16	8-3/4	20-1/4	40-1/2	58-1/2	31-1/2	3/4	3427	3627
F-4758-O	6	5-1/4 - 5-1/2	30	99	117	23	5-1/2	8-1/2	69-1/2	87-1/2	24-1/2	17	9	21-1/2	41-1/2	59-1/2	33	3/4	4166	4408

## CAUTION

Bridge Bowls are recommended for use on bridge ropes and structural strand. They are also approved for use on 6x7, 6x19, and 6x37, IPS, XIP (EIP), XXIP (EEIP), RRL, FC IWRC regular lay ropes. Before using Bridge Bowls with other type, lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.

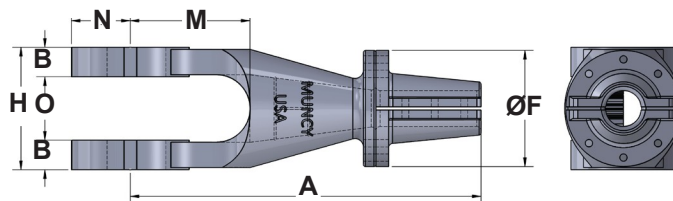






## Open Boom Pendant Socket

- Muncy™ boom pendant sockets are designed for use on large draglines.
- All open sockets are radiograph and magnetic particle tested.
- Available with or without damper and related hardware.



Strand Diameter	Damper Number	*Damper Hardware Kit No.	A	B	D	F	H	M	N	O	Est. Socket Wt.	Est. Damper Wt.
3-3/8"	F-4735	MMT-001-HW	49.75	3.50	6.03125	13.75	14.50	13.5	7.75	7.50	590	144
3-1/2"	F-4688	MMT-001-HW	49.75	3.50	6.03125	13.75	14.50	13.5	7.75	7.50	590	151
3-5/8"	F-4722	MMT-001-HW	50.25	3.50	6.03125	13.75	14.50	13.5	7.75	7.50	590	165
3-3/4"	F-4720	MMT-001-HW	50.25	3.50	6.03125	13.75	14.50	13.5	7.75	7.50	590	163

\* Damper Hardware Kit includes plastic gasket, bolts, nuts, and belting.

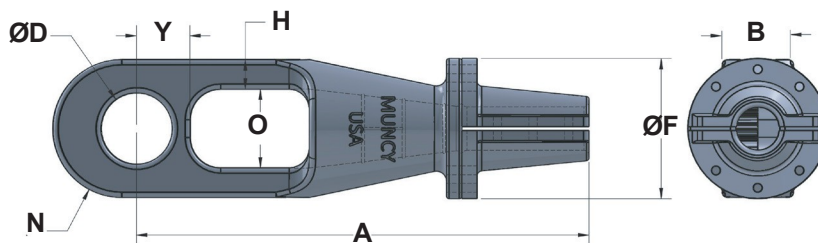
### CAUTION

Testing is recommended to prove the adequacy of the assembly. Due to the harsh conditions the socket and assembly is subjected to during it's use, sockets and assemblies should be routinely inspected by end users.



## Closed Boom Pendant Socket

- Muncy™ boom pendant sockets are designed for use on large draglines.
- All closed sockets are radiograph, ultrasonic, and magnetic particle tested.
- Available with or without damper and related hardware.



Strand Diameter	Damper Number	*Damper Hardware Kit No.	A	B	D	F	H	N	O	Y	Est. Socket Wt.	Est. Damper Wt.
3-3/8"	F-4735	MMT-002-HW	53.75	7.00	7.031	13.75	2.88	6.75	7.75	5.25	651	144
3-1/2"	F-4688	MMT-002-HW	53.75	7.00	7.031	13.75	2.88	6.75	7.75	5.25	651	151
3-5/8"	F-4722	MMT-002-HW	54.25	7.00	7.031	13.75	2.88	6.75	7.75	5.25	651	165
3-3/4"	F-4720	MMT-002-HW	54.25	7.00	7.031	13.75	2.88	6.75	7.75	5.25	651	163

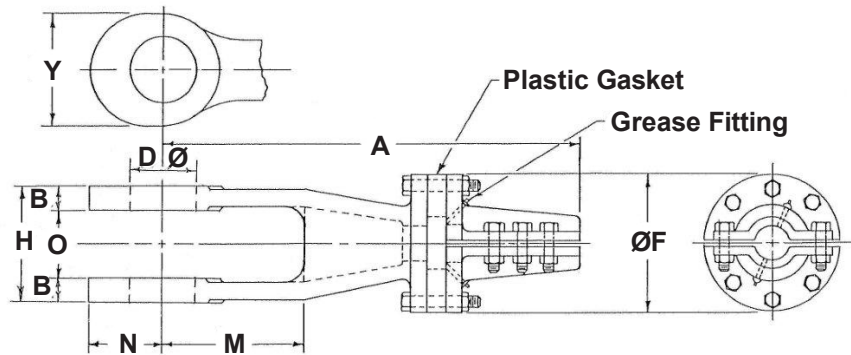
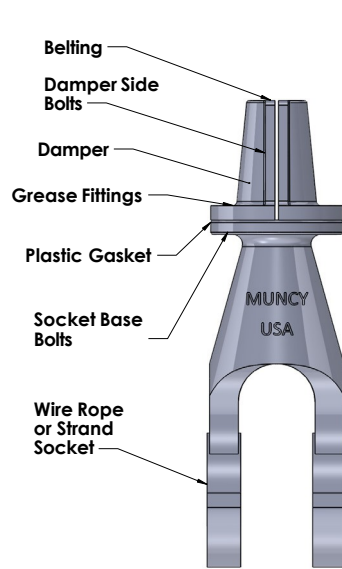
\* Damper Hardware Kit includes plastic gasket, bolts, nuts, and belting.

### CAUTION

Testing is recommended to prove the adequacy of the assembly. Due to the harsh conditions the socket and assembly is subjected to during it's use, sockets and assemblies should be routinely inspected by end users.



# Vibration Dampening Fittings



Muncy™ vibration dampening system consists of a split flanged clamp secured to the rope or strand and bolted to a flanged socket through an elastomeric gasket. A lubricant reservoir is provided around the rope or strand within the gasket. This system is designed to reduce vibration and fatigue in the rope or strand wires adjacent to the end fitting, resulting in longer operating life.

Strand Diameter	Damper Number	*Damper Hardware Kit No.	Strand Socket Pattern No.	A	B	D	F	H	M	N	O	Y	Est. Wt.
2"	F-4733	F-4733-HW	F-4377-A	27.50	1.625	4.25	9.25	8.875	9.50	4.875	4.50	7.50	200
2-1/8"	F-4731	F-4731-HW	F-4362-A	29.00	2.00	4.50	9.375	9.625	10.00	4.75	4.50	7.50	228
2-1/4"	F-4729	F-4729-HW	F-4398-A	30.125	2.00	4.75	9.75	10.25	11.00	5.25	5.00	8.00	268
2-3/8"	F-4715	F-4715-HW	F-4399-A	30.50	2.125	5.00	10.25	10.75	11.00	5.50	5.25	8.50	308
2-1/2"	F-4716	F-4716-HW	F-4400-A	32.25	2.25	5.25	10.625	11.25	12.00	5.75	5.50	9.00	352
2-5/8"	F-4728	F-4728-HW	F-3438-A	33.25	2.50	5.75	10.25	12.25	12.25	6.375	6.00	9.75	401
2-3/4"	F-4676-A	F-4676-A-HW	F-3438-A	33.25	2.50	5.75	10.25	12.25	12.25	6.375	6.00	9.75	401
2-7/8"	F-4727	F-4727-HW	F-3421-B	37.50	2.50	6.00	11.5	12.50	13.00	6.75	6.25	10.50	529
3"	F-4684	F-4684-HW	F-3421-B	37.50	2.50	6.00	11.5	12.50	13.00	6.75	6.25	10.50	529
3-1/8"	F-4723	F-4723-HW	F-3471-B	38.50	2.75	6.50	12.5	13.50	13.25	7.75	6.75	11.25	663
3-1/4"	F-4710	F-4710-HW	F-3471-B	38.50	2.75	6.50	12.5	13.50	13.25	7.75	6.75	11.25	663
3-3/8"	F-4735	F-4735-HW	F-3478-B	39.50	3.00	6.75	13	14.625	13.75	8.25	7.25	11.75	794
3-1/2"	F-4688	F-4688-HW	F-3478-B	39.50	3.00	6.75	13	14.625	13.75	8.25	7.25	11.75	794
3-5/8"	F-4722	F-4722-HW	F-3479-B	40.50	3.38	7.00	13.75	15.50	14.00	8.50	7.50	12.25	907
3-3/4"	F-4720	F-4720-HW	F-3479-B	40.50	3.38	7.00	13.75	15.50	14.00	8.50	7.50	12.25	907
3-7/8"	F-4726	F-4726-HW	F-3480-A	41.50	3.50	7.25	14	16.375	14.25	9.00	8.00	12.75	1006
4"	F-4724	F-4724-HW	F-3480-A	41.50	3.50	7.25	14	16.375	14.25	9.00	8.00	12.75	1006

\* Damper Hardware Kit includes plastic gasket, bolts, nuts, and belting.

## CAUTION

Testing is recommended to prove the adequacy of the assembly. Due to the harsh conditions the socket and assembly is subjected to during it's use, sockets and assemblies should be routinely inspected by end users.



# USA

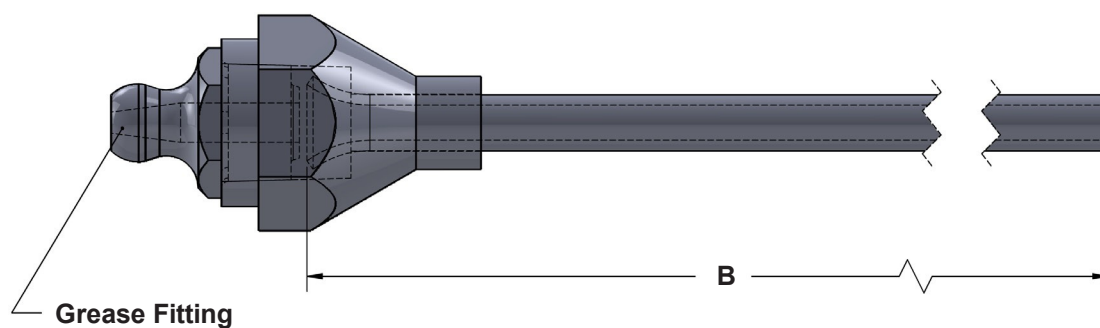


## Socketing Zinc

- ✓ Super High Quality (99.5%) Grade.
- ✓ Sold in 50-60 lb ingots.
- ✓ In stock!



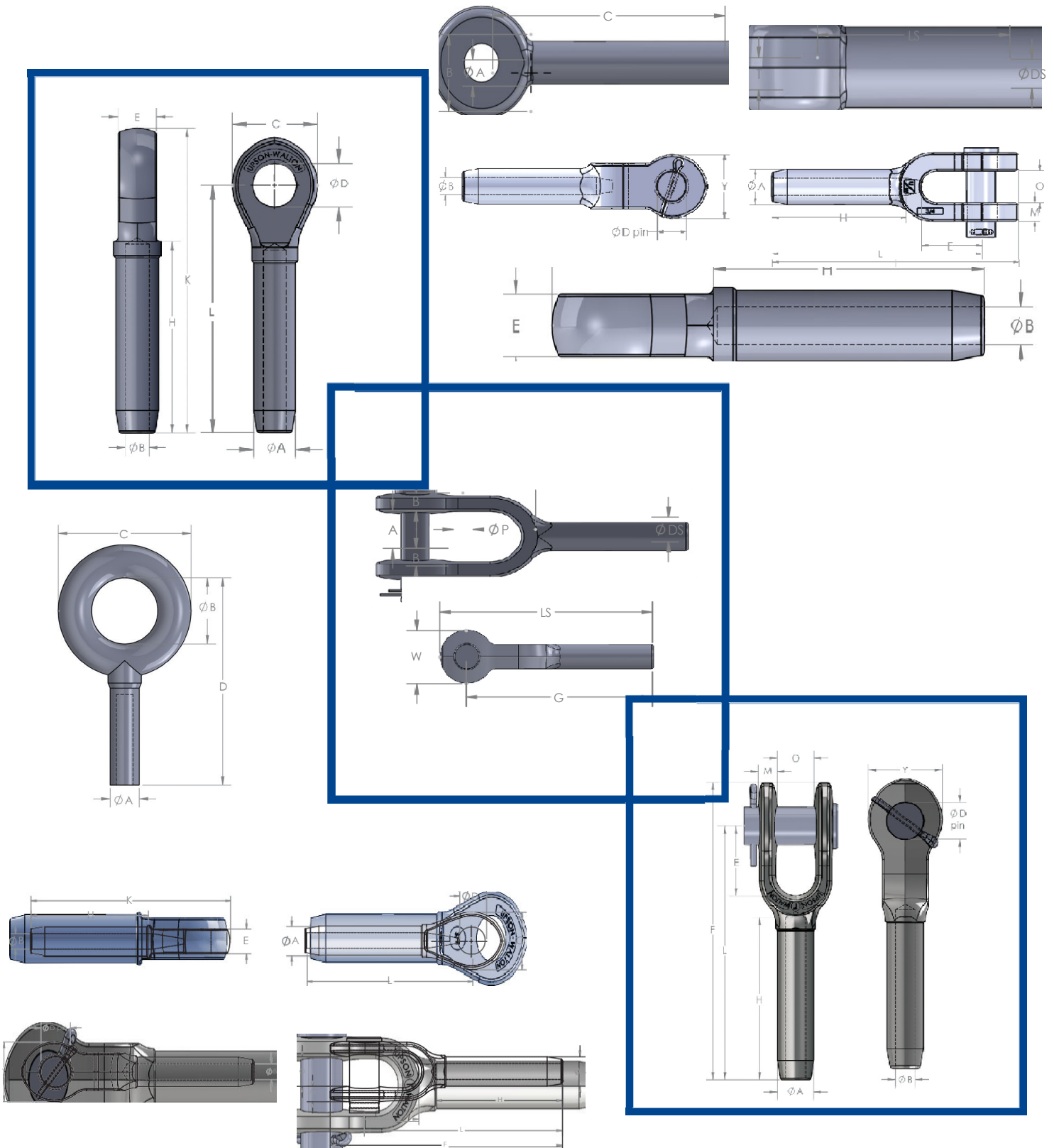
## Lube Tubes (Socketing Tubes)



- ✓ 1/8" Grease Fitting.
- ✓ Re-grease wire rope core at nose of spelter socket.
- ✓ A Bethlehem Wire Rope Design.

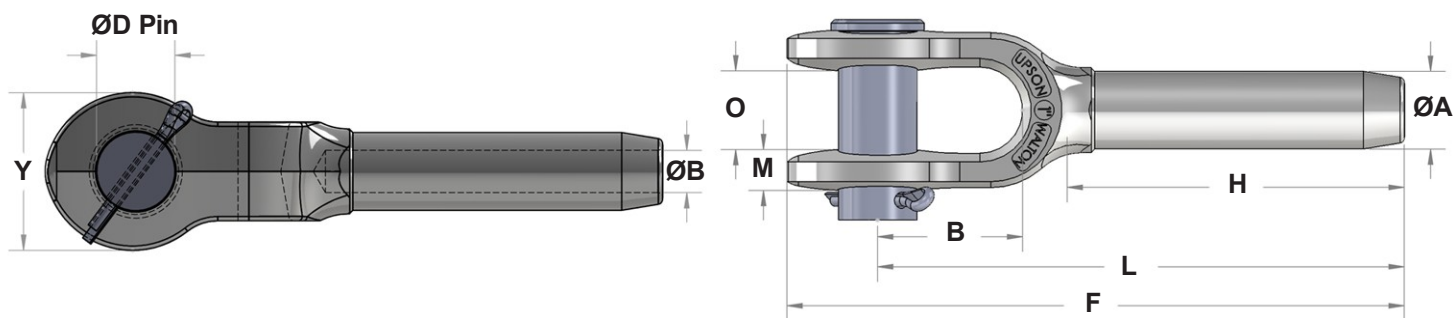


# Swage Sockets





# Open Swage Sockets - Carbon Steel



Stock No.	Rope Size	Dimensions										Weight lbs. Each	After Swage Min - Max
		A	B	D	E	F	H	L	M	O	Y		
40025002	1/4	0.495	0.272	0.688	1-1/2	4-3/4	2-1/8	4	5/16	11/16	1-3/8	0.57	0.428-0.460
40031302	5/16	0.770	0.339	0.812	1-3/4	6-1/4	3-3/16	5-5/16	13/32	13/16	1-5/8	1.25	0.678-0.710
40037502	3/8	0.770	0.406	0.812	1-3/4	6-1/4	3-3/16	5-5/16	13/32	13/16	1-5/8	1.20	0.678-0.710
40043802	7/16	0.982	0.484	1.000	2	7-13/16	4-1/4	6-11/16	1/2	1	2	2.45	0.865-0.910
40050002	1/2	0.982	0.547	1.000	2	7-13/16	4-1/4	6-11/16	1/2	1	2	2.40	0.865-0.910
40056302	9/16	1.257	0.609	1.190	2-1/4	9-9/16	5-5/16	8-1/8	5/8	1-1/4	2-1/2	4.80	1.115-1.160
40062502	5/8	1.257	0.672	1.190	2-1/4	9-9/16	5-5/16	8-1/8	5/8	1-1/4	2-1/2	4.50	1.115-1.160
40075002	3/4	1.545	0.796	1.380	2-3/4	11-11/16	6-3/8	10	3/4	1-1/2	3	7.80	1.365-1.420
40087502	7/8	1.700	0.938	1.630	3-1/4	13-5/8	7-7/16	11-5/8	15/16	1-3/4	3-3/8	11.80	1.490-1.550
40100002	1-0/0	1.975	1.062	2.000	3-3/4	15-5/8	8-1/2	13-3/8	1-1/32	2	4	17.80	1.740-1.800
40112502	1-1/8	2.245	1.188	2.250	4-1/4	17-1/2	9-9/16	15	1-3/16	2-1/4	4-1/2	28.90	1.990-2.050
40125002	1-1/4	2.525	1.328	2.500	4-3/4	19-7/16	10-5/8	16-1/2	1-3/16	2-1/2	5	36.20	2.240-2.300
40137502	1-3/8	2.800	1.453	2.500	5-1/4	21-1/4	11-11/16	18-1/8	1-5/16	2-1/2	5-1/4	47.70	2.490-2.560
40150002	1-1/2	3.075	1.578	2.750	5-3/4	23-1/4	12-3/4	19-3/4	1-7/16	3	5-3/4	64.40	2.740-2.810
40175002	1-3/4	3.385	1.859	3.500	6-3/4	27-1/8	14-7/8	23	1-11/16	3-1/2	7	93.40	2.990-3.060
40200002	2-0/0	3.935	2.109	3.750	8	31-7/16	17	26-3/4	1-13/16	4	8	148.00	3.490-3.560
40225002	2-1/4	4.450	2.360	4.250	6-3/4	32-7/8	19-1/8	27-3/4	2-9/16	4-1/2	8-3/4	173.00	3.950-4.020
40250002	2-1/2	4.930	2.657	4.250	6-3/4	34-5/8	19-5/8	29-1/2	2-9/16	4-1/2	8-3/4	233.00	4.350-4.420
40300002	3-0/0	5.960	3.166	5.250	8-5/8	41-1/8	23-3/4	35-5/8	3	5-3/4	9-1/2	382.00	5.240-5.310

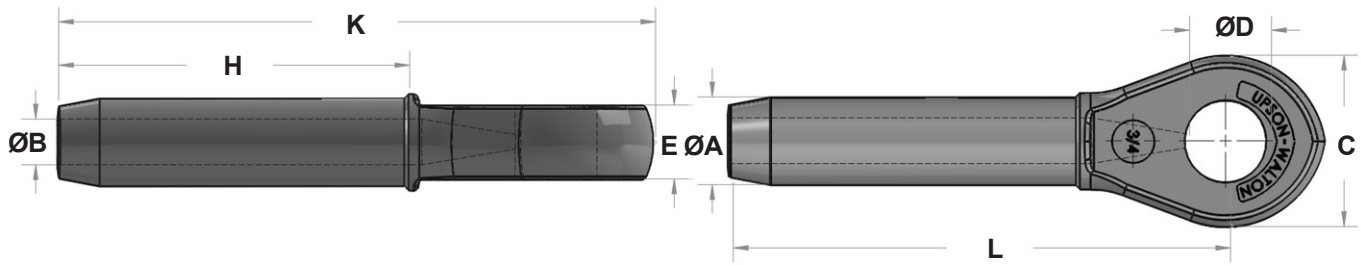
## CAUTION

Carbon Steel Open Swage Sockets are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, (EIP), XXIP (EEIP) IWRC regular lay ropes. Before using Swage Sockets with any other type lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.





## Closed Swage Sockets - Carbon Steel



Stock No.	Rope Size	Dimensions								Weight lbs. Each	After Swage Min - Max
		A	B	C	D	E	H	K	L		
41025002	1/4	0.495	0.272	1-7/16	0.750	1/2	2-1/8	4-3/8	3-1/2	0.35	0.428-0.460
41031302	5/16	0.770	0.339	1-11/16	0.875	11/16	3-3/16	5-1/2	4-1/2	0.77	0.678-0.710
41037502	3/8	0.770	0.406	1-11/16	0.875	11/16	3-3/16	5-1/2	4-1/2	0.73	0.678-0.710
41043802	7/16	0.982	0.484	2	1.063	7/8	4-1/4	6-15/16	5-3/4	1.47	0.865-0.910
41050002	1/2	0.982	0.547	2	1.063	7/8	4-1/4	6-15/16	5-3/4	1.38	0.865-0.910
41056302	9/16	1.257	0.609	2-1/2	1.250	1-1/8	5-5/16	8-3/4	7-1/4	2.90	1.115-1.160
41062502	5/8	1.257	0.672	2-1/2	1.250	1-1/8	5-5/16	8-3/4	7-1/4	2.80	1.115-1.160
41075002	3/4	1.545	0.796	3	1.438	1-5/16	6-3/8	10-3/8	8-5/8	5.16	1.365-1.420
41087502	7/8	1.700	0.938	3-1/2	1.688	1-1/2	7-7/16	12-1/8	10-1/8	7.40	1.490-1.550
41100002	1-0/0	1.975	1.062	4	2.063	1-3/4	8-1/2	13-3/4	11-1/2	11.20	1.740-1.800
41112502	1-1/8	2.245	1.188	4-1/2	2.313	2	9-9/16	15-1/4	12-3/4	16.00	1.990-2.050
41125002	1-1/4	2.525	1.328	5	2.563	2-1/4	10-5/8	17-1/4	14-3/8	22.70	2.240-2.300
41137502	1-3/8	2.800	1.453	5-1/4	2.563	2-1/4	11-11/16	18-7/8	15-3/4	29.00	2.490-2.560
41150002	1-1/2	3.075	1.578	5-1/2	2.813	2-1/2	12-3/4	20-3/8	17	37.50	2.740-2.810
41175002	1-3/4	3.385	1.859	6-3/4	3.563	3	14-7/8	24	20	55.70	2.990-3.060
41200002	2-0/0	3.935	2.109	7-3/4	3.813	3-1/4	17	27-1/2	23	90.00	3.490-3.560
41225002	2-1/4	4.450	2.360	8-5/8	4.312	4	19-1/8	29-3/4	24-7/8	125.00	3.950-4.020
41250002	2-1/2	4.930	2.657	8-5/8	4.312	4	19-5/8	31-1/8	26-1/4	142.00	4.350-4.420
41300002	3-0/0	5.960	3.166	9-1/4	5-5/16	5-3/8	23-3/4	37-3/4	32-1/8	252.00	5.240-5.310

### CAUTION

Carbon Steel Closed Swage Sockets are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, (EIP), XXIP (EEIP) IWRC regular lay ropes. Before using Swage Sockets with any other type lay, construction, or grade of wire rope, or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.

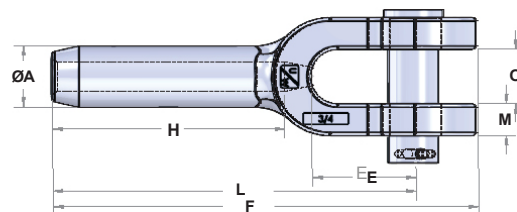
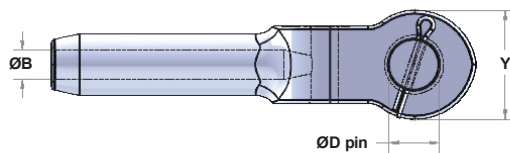


# USA



## Open Swage Sockets - Stainless Steel

- ✓ 304 stainless steel.
- ✓ Dimensions modeled after Carbon Steel Swage Socket.



Stock No.	Rope Size	Dimensions										After Swage Min - Max
		A	B	D	E	F	H	L	M	O	Y	
40025050	1/4	0.495	0.272	0.688	1-1/2	4-3/4	2-1/8	4	5/16	11/16	1-3/8	0.428 - 0.460
40031350	5/16	0.770	0.339	0.812	1-3/4	6-1/4	3-3/16	5-5/16	13/32	13/16	1-5/8	0.678 - 0.710
40037550	3/8	0.770	0.406	0.812	1-3/4	6-1/4	3-3/16	5-5/16	13/32	13/16	1-5/8	0.678 - 0.710
40043850	7/16	0.982	0.484	1.000	2	7-13/16	4-1/4	6-11/16	1/2	1	2	0.865 - 0.910
40050050	1/2	0.982	0.547	1.000	2	7-13/16	4-1/4	6-11/16	1/2	1	2	0.865 - 0.910
40056350	9/16	1.257	0.609	1.190	2-1/4	9-9/16	5-5/16	8-1/8	5/8	1-1/4	2-1/2	1.115 - 1.160
40062550	5/8	1.257	0.672	1.190	2-1/4	9-9/16	5-5/16	8-1/8	5/8	1-1/4	2-1/2	1.115 - 1.160
40075050	3/4	1.545	0.796	1.380	2-3/4	11-11/16	6-3/8	10	3/4	1-1/2	3	1.365 - 1.420
40087550	7/8	1.700	0.938	1.630	3-1/4	13-5/8	7-7/16	11-5/8	15/16	1-3/4	3-3/8	1.490 - 1.550
40100050	1-0/0	1.975	1.062	2.000	3-3/4	15-5/8	8-1/2	13-3/8	1-1/32	2	4	1.740 - 1.800
40112550	1-1/8	2.245	1.188	2.250	4-1/4	17-1/2	9-9/16	15	1-3/16	2-1/4	4-1/2	1.990 - 2.050
40125050	1-1/4	2.525	1.328	2.500	4-3/4	19-7/16	10-5/8	16-1/2	1-3/16	2-1/2	5	2.240 - 2.300

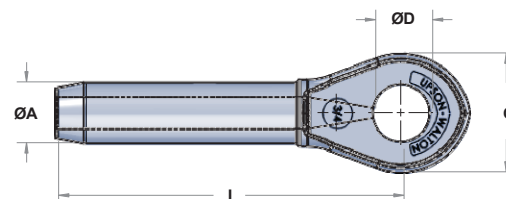
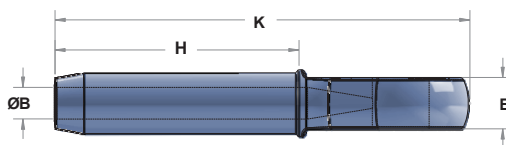
### CAUTION

Stainless Steel Open Swage Sockets are recommended for use on 6 x 19 or 6 x 37 stainless steel wire rope, SS sockets are also approved for use on IPS or XIP (EIP), XXIP (EEIP), RRL, FC IWRC regular lay ropes. Before using Swage Sockets with any other type of lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Closed Swage Sockets - Stainless Steel

- ✓ 304 stainless steel.
- ✓ Dimensions modeled after Carbon Steel Swage Socket.



Stock No.	Rope Size	Dimensions								After Swage Min - Max
		A	B	C	D	E	H	K	L	
41025050	1/4	0.495	0.272	1-7/16	0.750	1/2	2-1/8	4-3/8	3-1/2	0.428 - 0.460
41031350	5/16	0.770	0.339	1-11/16	0.875	11/16	3-3/16	5-1/2	4-1/2	0.678 - 0.710
41037550	3/8	0.770	0.406	1-11/16	0.875	11/16	3-3/16	5-1/2	4-1/2	0.678 - 0.710
41043850	7/16	0.982	0.484	2	1.063	7/8	4-1/4	6-15/16	5-3/4	0.865 - 0.910
41050050	1/2	0.982	0.547	2	1.063	7/8	4-1/4	6-15/16	5-3/4	0.865 - 0.910
41056350	9/16	1.257	0.609	2-1/2	1.250	1-1/8	5-5/16	8-3/4	7-1/4	1.115 - 1.160
41062550	5/8	1.257	0.672	2-1/2	1.250	1-1/8	5-5/16	8-3/4	7-1/4	1.115 - 1.160
41075050	3/4	1.545	0.796	3	1.438	1-5/16	6-3/8	10-3/8	8-5/8	1.365 - 1.420
41087550	7/8	1.700	0.938	3-1/2	1.688	1-1/2	7-7/16	12-1/8	10-1/8	1.490 - 1.550
41100050	1-0/0	1.975	1.062	4	2.063	1-3/4	8-1/2	13-3/4	11-1/2	1.740 - 1.800
41112550	1-1/8	2.245	1.188	4-1/2	2.313	2	9-9/16	15-1/4	12-3/4	1.990 - 2.050
41125050	1-1/4	2.525	1.328	5	2.563	2-1/4	10-5/8	17-1/4	14-3/8	2.240 - 2.300

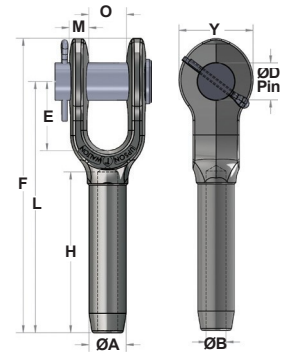
### CAUTION

Stainless Steel Closed Swage Sockets are recommended for use on 6 x 19 or 6 x 37 stainless steel wire rope, SS sockets are also approved for use on IPS or XIP (EIP), XXIP (EEIP), RRL, FC IWRC regular lay ropes. Before using Swage Sockets with any other type of lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Boom Pendant Open Swage Sockets

Stock No.	Rope Size	Dimensions										Weight lbs. Each	After Swage Min - Max
		A	B	D	E	F	H	L	M	O	Y		
40100010	1-1/8	1.975	1.188	2.000	3.750	15.625	8.500	13.375	1.031	2.000	4.000	12.69	1.740 - 1.800
40112510	1-1/4	2.245	1.328	2.250	4.250	17.500	9.563	15.000	1.188	2.250	4.500	19.35	1.990 - 2.050
40125010	1-3/8	2.525	1.453	2.500	4.750	19.438	10.625	16.500	1.188	2.500	5.000	26.38	2.240 - 2.300
40137510	1-1/2	2.800	1.578	2.500	5.250	21.250	11.688	18.125	1.313	2.500	5.250	38.00	2.490 - 2.560
40150010	1-3/4	3.075	1.859	2.750	5.750	23.250	12.750	19.750	1.438	3.000	5.500	48.83	2.740 - 2.810



✓ RFID Enabled Upon Request.

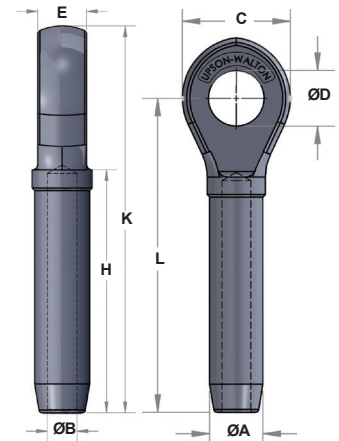
### CAUTION

Boom Pendant Open Swage Sockets are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, XXIP, EEIP IWRC regular lay ropes. Before using Swage Sockets with any other type lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Boom Pendant Closed Swage Sockets

Stock No.	Rope Size	Dimensions								Weight lbs. Each	After Swage Min - Max
		A	B	C	D	E	H	K	L		
41100010	1-1/8	1.975	1.188	4.000	2.063	1.750	8.500	13.750	11.500	11.00	1.740 - 1.800
41112510	1-1/4	2.245	1.328	4.500	2.313	2.000	9.563	15.250	12.750	15.21	1.990 - 2.050
41125010	1-3/8	2.525	1.453	5.000	2.563	2.250	10.625	17.250	14.375	22.25	2.240 - 2.300
41137510	1-1/2	2.800	1.578	5.250	2.563	2.250	11.688	18.875	15.750	28.16	2.490 - 2.560
41150010	1-3/4	3.075	1.859	5.500	2.813	2.500	12.750	20.375	17.000	34.65	2.740 - 2.810



### CAUTION

Boom Pendant Closed Sockets are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, XXIP, EEIP IWRC regular lay ropes. Before using Swage Sockets with any other type lay, construction, or grade of wire rope, it is recommended that the termination be proof loaded to prove the adequacy of the assembly.

### Boom Pendant Socket Weights (1 Open, 1 Closed)

Rope Dia. Inches	U-W Boom Pendant Socket	U-W Standard Swage Socket	Typical Spelter Socket	Boom Pendant Thimble
1-1/8	23.69	44.9	35.75	31.6
1-1/4	34.56	58.9	50.75	48.6
1-3/8	48.63	76.7	50.75	48.6
1-1/2	66.16	101.9	76.45	70
1-3/4	83.48	149.1	118	166

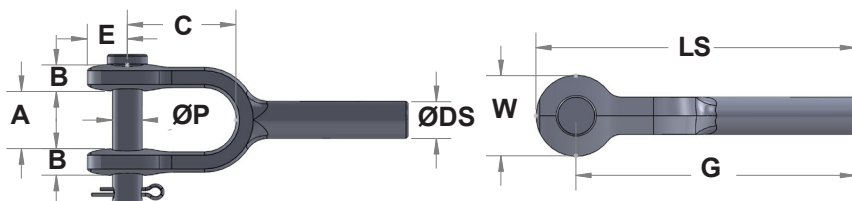
- ✓ **Boom Pendants are Lighter!** Compare Upson-Walton's boom pendant socket to a regular socket, to a typical spelter, and to a boom pendant thimble and you'll see the **WEIGHT SAVINGS!**
- ✓ Boom Pendants are commonly found in the crane industry.



# USA



## Fork Terminals



- ✓ Upson-Walton™ machined Fork Terminals are forged.
- ✓ Plated and galvanizing are available.
- ✓ Call for price breaks.

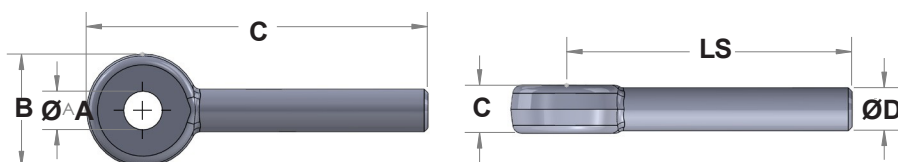
Stock No.	Rope Dia.	Dimensions										
		A	B	C	E	P	W	After Swage				
								G	DS			LS
									Min	Nominal	Max	
FT-4	1/8	0.45	0.23	0.66	0.19	0.25	0.63	1.98	0.210	0.219	0.230	2.04
FT-6	3/16	0.54	0.27	0.98	0.19	0.25	0.81	2.53	0.305	0.313	0.330	2.59
FT-8	1/4	0.55	0.44	1.30	0.23	0.31	1.00	3.40	0.430	0.438	0.460	3.48
FT-10	5/16	0.82	0.43	1.59	0.28	0.38	1.31	4.30	0.553	0.563	0.585	4.39
FT-12	3/8	1.03	0.47	2.01	0.38	0.50	1.62	4.91	0.615	0.625	0.650	5.04
FT-14	7/16	1.23	0.60	2.07	0.47	0.63	1.88	6.17	0.740	0.750	0.780	6.33
FT-16	1/2	1.31	0.66	2.47	0.56	0.75	2.12	7.03	0.865	0.875	0.910	7.22
FT-18	9/16	1.31	0.66	2.47	0.56	0.75	2.12	7.79	0.865	0.875	0.910	7.98

### CAUTION

Fork Eye Terminals are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, IWRC regular lay ropes. Before using Fork Eye Terminals with any other type lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly. Fork Eye Terminals are NOT intended to hold the breaking strength of the attached wire rope. Testing is recommended.



## Pin Eye Terminals



- ✓ Upson-Walton™ machined Pin Eyes Terminals are forged.
- ✓ Plated, galvanizing, and stainless steel are available.
- ✓ Call for price breaks.

Stock No.	Rope Dia.	Dimensions								Weight lbs. Each
		A	B	T	After Swage					
					C	Min	DS Nominal	Max	LS	
PE-4	1/8	0.266	0.563	0.344	1.787	0.240	0.250	0.260	1.51	0.08
PE-6	3/16	0.344	0.750	0.438	2.606	0.303	0.313	0.323	2.23	0.09
PE-8	1/4	0.406	1.188	0.500	3.600	0.428	0.438	0.448	3.01	0.22
PE-10	5/16	0.531	1.250	0.688	4.293	0.553	0.563	0.573	3.67	0.37
PE-12	3/8	0.656	1.500	0.813	5.137	0.615	0.625	0.635	4.39	0.62
PE-14	7/16	0.781	1.813	0.938	6.378	0.740	0.750	0.770	5.47	1.20
PE-16	1/2	0.906	2.031	1.063	6.986	0.855	0.875	0.895	5.97	1.41
PE-18	9/16	0.906	2.031	1.063	7.877	0.855	0.875	0.895	6.86	2.50
PE-20	5/8	1.156	2.625	1.313	8.786	1.105	1.125	1.160	7.47	2.95
PE-24	3/4	1.438	3.093	1.500	10.535	1.355	1.375	1.420	8.99	4.65

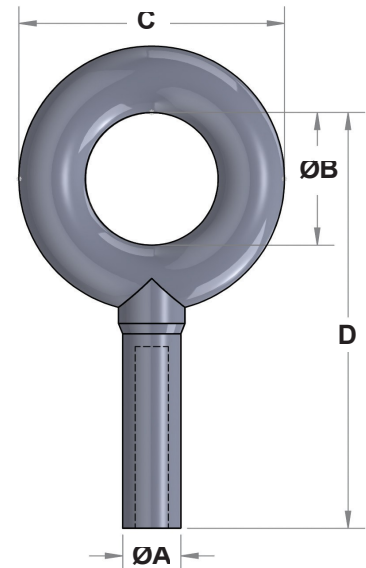
### CAUTION

Pin Eye Terminals are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, IWRC regular lay ropes. Before using Pin Eye Terminals with any other type lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.. Pin Eye Terminals are NOT intended to hold the breaking strength of the attached wire rope. Testing is recommended.



## Ring Eyes

Stock No.	Rope Dia	A			B	C	D Approx.
		Min	Nominal	Max			
RE-3	3/32	0.210	7/32	0.219	0.230	0.500	1.418
RE-4	1/8	0.210	7/32	0.219	0.230	0.500	1.641
RE-5	5/32	0.240	1/4	0.250	0.260	0.625	2.113
RE-6	3/16	0.305	5/16	0.313	0.330	0.750	2.313
RE-7	7/32	0.430	7/16	0.438	0.460	1.000	3.059
RE-8	1/4	0.430	7/16	0.438	0.460	1.000	3.133
RE-9	9/32	0.553	9/16	0.563	0.585	1.375	4.004
RE-10	5/16	0.553	9/16	0.563	0.585	1.375	4.078
RE-12	3/8	0.615	5/8	0.625	0.650	1.500	4.922
RE-14	7/16	0.740	3/4	0.750	0.780	1.750	5.743
RE-16	1/2	0.865	7/8	0.875	0.910	2.000	6.563
RE-18	9/16	0.865	7/8	0.875	0.910	2.000	7.008
RE-20	5/8	1.115	1-1/8	1.125	1.160	2.500	8.204



✓ Forged .

✓ Domestic .

### CAUTION

Ring Eyes are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, IWRC regular lay ropes. Before using Ring Eyes with any other type lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly. Ring Eyes are NOT intended to hold the breaking strength of the attached wire rope. Testing is recommended.

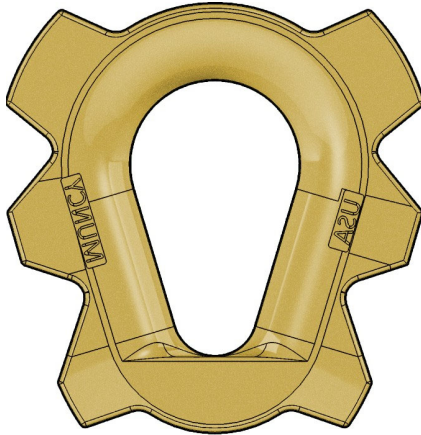

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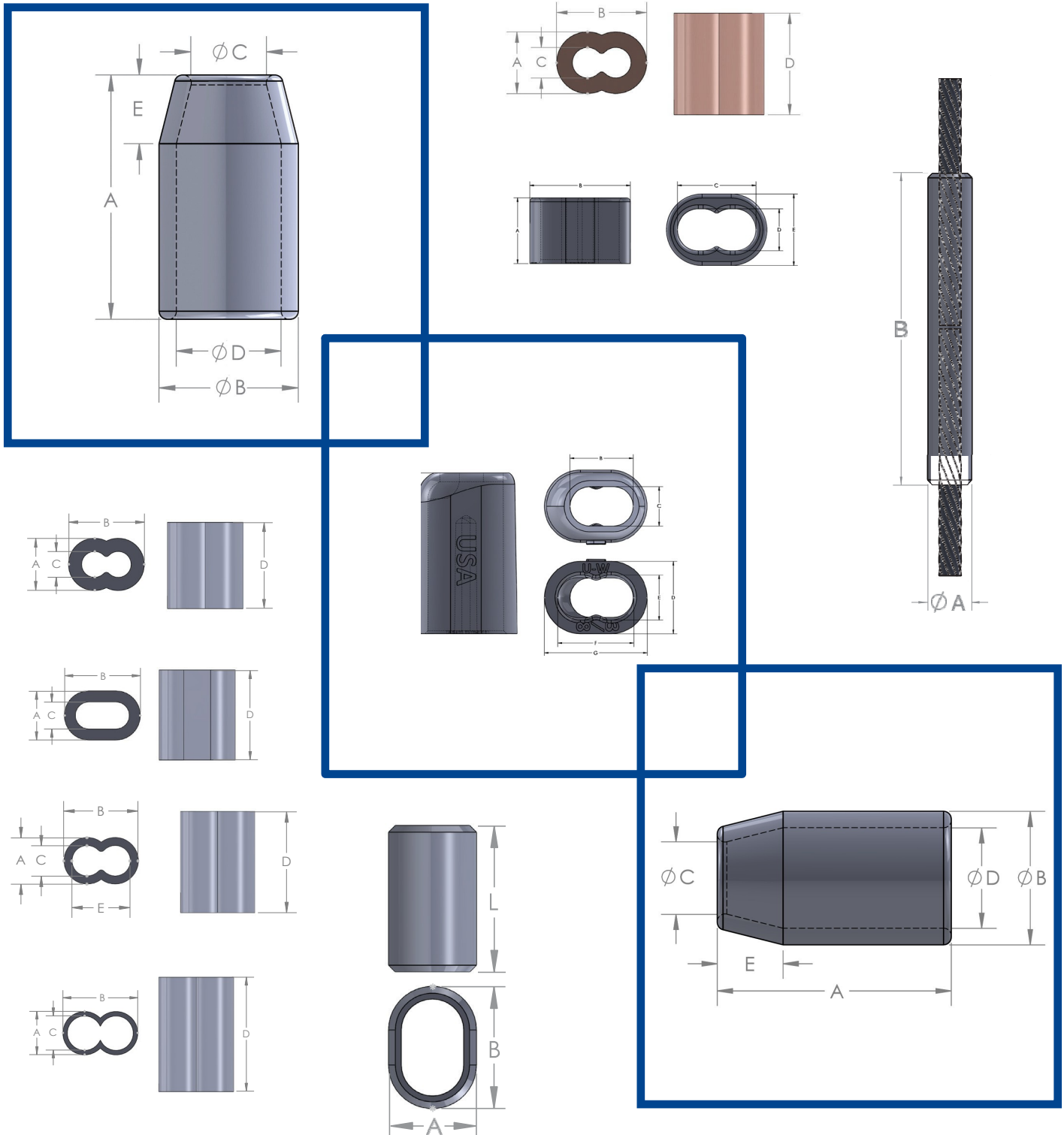
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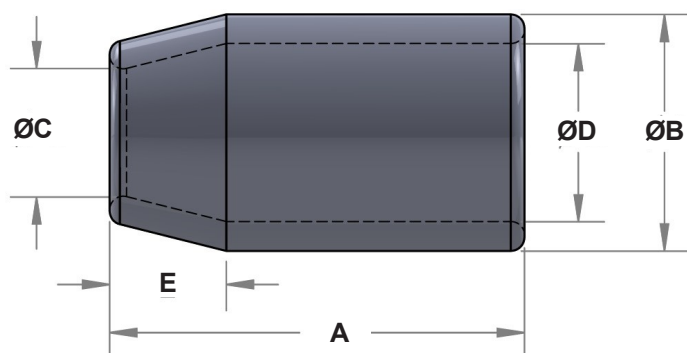


# Sleeves





# Flemish Eye Carbon Steel Sleeves



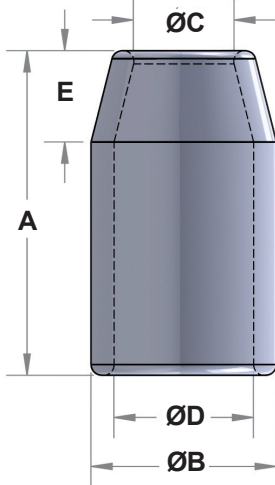
Black Stock No.	Zinc Plated Stock No.	Rope Size	Color	Dimensions							Shipping			Weight lbs. Each
				A	B	C	D	E	Wall Thickness	After Swage Dia.	Per Carton	Per Drum	Per Wholesale Box	
-	45025060	1/4	Gold	1	21/32	21/64	15/32	9/32	3/32	0.50	250	700	20000	0.04
-	45031360	5/16	Red	1-1/2	29/32	7/16	39/64	7/16	9/64	0.73	100	3000	8000	0.14
-	45037560	3/8	Green	1-1/2	29/32	15/32	21/32	7/16	1/8	0.73	100	3000	8000	0.12
-	45043860	7/16	Blue	2	1-7/32	9/16	27/32	19/32	3/16	0.98	50	1500	4000	0.32
-	45050060	1/2	Gold	2	1-7/32	5/8	29/32	19/32	5/32	0.98	50	1500	4000	0.28
-	45056360	9/16	Red	2-3/4	1-15/32	11/16	1-1/32	45/64	7/32	1.20	25	500	2000	0.63
-	45062560	5/8	Green	2-3/4	1-15/32	3/4	1-3/32	45/64	3/16	1.20	25	500	2000	0.56
45075040	45075060	3/4	Black	3-3/16	1-23/32	59/64	1-9/32	55/64	7/32	1.41	20	400	1250	0.88
45087540	45087560	7/8	Black	3-9/16	2-1/32	1-1/32	1-17/32	1	1/4	1.63	10	300	750	1.38
45100040	45100060	1	Black	4	2-9/32	1-5/32	1-23/32	1-1/8	9/32	1.88	10	200	500	1.90
45112540	45112560	1-1/8	Black	4-13/16	2-1/2	1-9/32	1-15/16	1-1/4	9/32	2.08	1	125	500	2.60
45125040	45125060	1-1/4	Black	5-13/64	2-25/32	1-7/16	2-5/32	1-13/32	5/16	2.27	1	100	400	3.40
45137540	45137560	1-3/8	Black	5-13/16	3	1-9/16	2-3/8	1-9/16	5/16	2.46	1	-	150	4.30
45150040	45150060	1-1/2	Black	6-1/4	3-1/4	1-11/16	2-5/8	1-11/16	5/16	2.65	1	-	150	5.00
45175040	45175060	1-3/4	Black	7-1/4	3-27/32	1-15/16	3-1/8	1-31/32	23/64	3.04	1	-	125	8.40
45200040	45200060	2	Black	8-1/2	4-3/8	2-1/4	3-5/8	2-1/4	3/8	3.50	1	-	90	11.30
45225040	45225060	2-1/4	Black	9-9/16	5-1/32	2-1/2	4-1/32	2-17/32	1/2	4.06	1	-	80	19.20
45250040	45250060	2-1/2	Black	10-1/2	5-1/2	2-3/4	4-1/2	2-13/16	1/2	4.44	1	-	40	23.20
45275040	45275060	2-3/4	Black	11-3/4	5-3/4	3	4-11/16	3-3/32	17/32	4.64	1	-	35	28.00
45300040	45300060	3	Black	12	6	3-1/4	5	3-3/8	1/2	4.89	1	-	30	29.40
45350040	45350060	3-1/2	Black	14	7	3-7/8	5-53/64	3-15/16	39/64	5.70	1	-	25	46.40
45400040	45400060	4	Black	16	8-1/8	4-3/8	6-25/32	4-1/2	43/64	6.62	1	-	-	69.00

## CAUTION

Flemish Eye Carbon Steel Sleeves are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, RRL, FC, or IWRC wire rope. Proper swaging practices are the sling manufacturer's responsibility. A color change will not indicate proper swaging. Before using sleeves with other type lay, construction, or grade of wire rope or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Stainless Steel Flemish Eye Sleeves



Stainless Steel Stock No.	Rope Size	Dimensions							Weight lbs. Each
		A	B	C	D	E	Wall Thickness	After Swage Dia.	
45025050	1/4	1	21/32	21/64	15/32	9/32	3/32	0.50	0.04
45031350	5/16	1-1/2	29/32	7/16	39/64	7/16	9/64	0.73	0.14
45037550	3/8	1-1/2	29/32	15/32	21/32	7/16	1/8	0.73	0.12
45043850	7/16	2	1-7/32	9/16	27/32	19/32	3/16	0.98	0.32
45050050	1/2	2	1-7/32	5/8	29/32	19/32	5/32	0.98	0.28
45056350	9/16	2-3/4	1-15/32	11/16	1-1/32	45/64	7/32	1.20	0.63
45062550	5/8	2-3/4	1-15/32	3/4	1-3/32	45/64	3/16	1.20	0.56
45075050	3/4	3-3/16	1-23/32	59/64	1-9/32	55/64	7/32	1.41	0.88

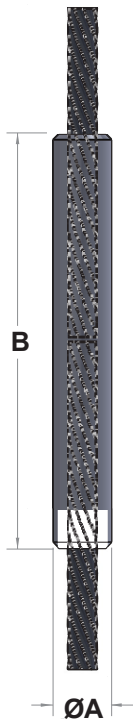
✓ Specially treated for swaging.

### CAUTION

Flemish Eye Stainless Steel Sleeves are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, RRL, FC, or IWRC wire rope. Proper swaging practices are the sling manufacturer's responsibility. Before using sleeves with other type lay, construction, or grade of wire rope, or strand, it is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Grommet Sleeves



Stock No.	Rope Dia.	After Swage Dimensions					Weight lbs. Each
		A			B		
		Min	Nominal	Max	Approx.		
GS-8	1/4	0.490	1/2	0.500	0.510	3-1/2	0.15
GS-12	3/8	0.730	3/4	0.750	0.770	5-3/8	0.5
GS-16	1/2	0.980	1	1.000	1.020	7	1.25
GS-20	5/8	1.230	1-1/4	1.250	1.270	8-3/4	2
GS-24	3/4	1.480	1-1/2	1.500	1.520	10-1/2	5
GS-28	7/8	1.730	1-3/4	1.750	1.770	12-3/8	7
GS-32	1	1.980	2	2.000	2.020	14-1/4	10
GS-36	1-1/8	2.220	2-1/4	2.250	2.280	16	14
GS-40	1-1/4	2.470	2-1/2	2.500	2.530	17-3/4	21
GS-44	1-3/8	2.720	2-3/4	2.750	2.780	19-1/2	27
GS-48	1-1/2	2.970	3	3.000	3.030	21-1/4	35
GS-52	1-5/8	2.970	3	3.000	3.030	23	44
GS-56	1-3/4	3.470	3-1/2	3.500	3.530	26	52
GS-64	2	3.470	3-1/2	3.500	3.530	26	47

### CAUTION

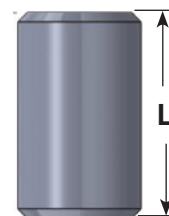
Grommet Sleeves are recommended for use with 6 x 19 or 6 x 37 EIP IWRC wire rope. Grommet Sleeves are NOT intended to hold the breaking strength of the attached wire rope. See section 4 of the Wire Rope Sling User's Manual, Third Edition for reference. Testing is recommended.





# One-Piece Carbon Steel Duplex Sleeves

Stock No.	Rope Size	Dimensions						Shipping Per Carton	Weight lbs. Each
		A	B	L	After Swage Dia.				
					Min	Nominal	Max		
45025002	1/4	0.66	0.92	0.94	0.615	0.625	0.645	250	0.08
45031302	5/16	0.69	0.96	1.125	0.740	0.750	0.770	100	0.11
45037502	3/8	0.83	1.16	1.375	0.740	0.750	0.770	100	0.20
45043802	7/16	0.90	1.26	1.625	0.845	0.875	0.925	50	0.25
45050002	1/2	1.04	1.46	1.75	0.970	1.000	1.050	50	0.37
45056302	9/16	1.12	1.56	0.94	1.095	1.125	1.175	25	0.46
45062502	5/8	1.26	1.76	2.00	1.220	1.250	1.300	25	0.61
45075002	3/4	1.45	2.02	2.625	1.470	1.500	1.550	20	1.05
45087502	7/8	1.73	2.42	3.00	1.720	1.750	1.800	10	1.75
45100002	1	1.94	2.71	3.50	1.970	2.000	2.050	10	2.48



- ✓ Zinc-Plated.
- ✓ Corrosion Resistant.

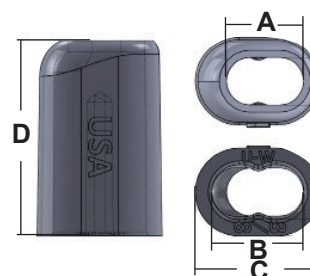
## CAUTION

One-Piece Carbon Steel Duplex Sleeves are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, RRL, FC, or IWRC wire rope. It is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



# One-Piece Stainless Steel Duplex Sleeves

Stock No.	Rope Size	Dimensions						
		A	B	C	D	After Swage Dia.		
						Min	Nominal	Max
45025004	1/4	.48	0.74	.58	1.00	0.490	0.500	0.510
45031304	5/16	.61	1.10	.80	1.57	0.740	0.750	0.770
45037504	3/8	.70	1.14	.84	1.78	0.740	0.750	0.770
45043804	7/16	.79	1.39	1.00	2.02	0.970	1.000	1.050
45050004	1/2	.84	1.45	1.10	1.98	0.970	1.000	1.050
45056304	9/16	.97	1.70	1.25	2.28	1.220	1.250	1.300
45062504	5/8	1.05	1.78	1.32	2.75	1.220	1.250	1.300
45075004	3/4	1.30	2.05	1.55	3.08	1.470	1.500	1.550
45087504	7/8	1.54	2.40	1.77	3.78	1.720	1.750	1.800
45100004	1	1.75	2.75	2.02	3.80	1.970	2.000	2.050



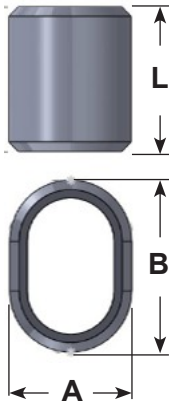
- ✓ Hourglass internal design for better efficiency.
- ✓ Precision casting.
- ✓ Lip to cover sharp wires in tail.
- ✓ Specially treated for swaging.

## CAUTION

One-Piece Stainless Steel Duplex Sleeves are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, RRL, or IWRC wire rope. It is recommended that a test assembly be destructively tested to prove the adequacy of the assembly.



## Two-Piece Carbon Steel Duplex Sleeves



- ✓ Zinc-Plated.
- ✓ Corrosion Resistant.

Stock No.	Rope Size	Dimensions						Shipping Per Carton	Weight lbs. Each
		A	B	L	After Swage Dia.				
					Min	Nominal	Max		
45025003	1/4	0.47	0.79	0.72	0.490	0.500	0.510	250	0.02
45031303	5/16	0.81	1.06	1.06	0.740	0.750	0.760	100	0.10
45037503	3/8	0.81	1.12	1.06	0.740	0.750	0.760	100	0.08
45043803	7/16	1.02	1.41	1.40	0.985	1.000	1.015	50	0.22
45050003	1/2	1.02	1.44	1.40	0.985	1.000	1.015	50	0.20
45056303	9/16	1.23	1.72	2.05	1.230	1.250	1.270	25	0.48
45062503	5/8	1.28	1.84	2.05	1.230	1.250	1.270	25	0.42

### CAUTION

Two-Piece Carbon Steel Duplex Sleeves are recommended for use on 6 x 19 or 6 x 37 IPS or XIP, EIP, RRL, FC, or IWRC wire rope. It is recommended that a test assembly be destructively tested to prove the adequacy of the assembly. Two-Piece Carbon Steel Duplex Sleeves are not rated to break the rope.



109 Balboa Drive  
Broussard, Louisiana

## NEW MUNCY™ STOCKING AND MANUFACTURING FACILITY IN LOUISIANA



- ➔ Flemish Eye Sleeves
- ➔ Spelter Sockets
- ➔ Swage Sockets
- ➔ Casing Thimbles
- ➔ Slip-Through Thimbles
- ➔ Zinc
- ➔ 1 Piece Turnback Sleeves
- ➔ Aluminum Turnback Sleeves
- ➔ Roll-Off Hooks
- ➔ Button Stops

Call 570-649-5188 for any orders or questions. Visits to the new facility are welcomed.



**USA**



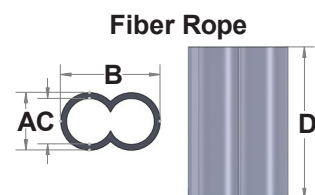
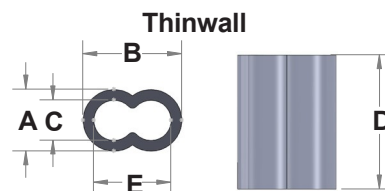
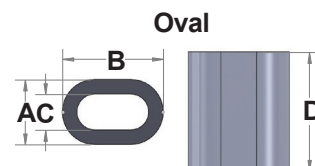
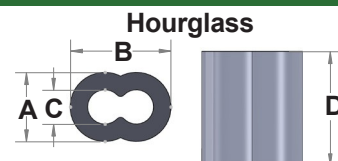
# Aluminum Swage Sleeves

Rope Size	Part Number	Dimensions				Weight lbs. per 1,000
		A	B	C	D	
1/32	HG-1	0.090	0.136	0.040	0.250	0.16
3/64	HG-1.4	0.133	0.196	0.071	0.375	0.50
1/16	OV-2	0.172	0.250	0.078	0.375	0.90
1/16	HG-2	0.172	0.250	0.078	0.375	0.90
5/64	HG-2.5	0.219	0.313	0.094	0.375	1.60
3/32	HG-3	0.278	0.404	0.125	0.500	3.20
3/32	TW-3	0.226	0.372	0.118	0.500	2.10
1/8	FR-4	0.250	0.388	0.160	0.500	1.80
1/8	HG-4	0.343	0.500	0.156	0.625	6.40
1/8	TW-4	0.343	0.500	0.170	0.625	5.70
5/32	HG-5	0.375	0.562	0.187	0.688	8.00
5/32	TW-5	0.375	0.562	0.200	0.688	7.50
3/16	FR-6	0.373	0.560	0.257	0.688	5.40
3/16	HG-6	0.440	0.665	0.223	1.000	15.60
3/16 - 1/8	HG-4X6	0.430	0.656	0.160 & 0.230	1.000	16.20
7/32	HG-7	0.500	0.750	0.250	1.063	22.20
1/4	FR-8	0.441	0.652	0.325	1.000	9.20
1/4	HG-8	0.536	0.818	0.290	1.125	25.20
9/32	HG-9	0.562	0.880	0.312	1.188	28.30
5/16	HG-10	0.687	1.031	0.375	1.250	45.00
3/8	HG-12	0.750	1.156	0.438	1.438	60.70
7/16	FR-14	0.855	1.350	0.525	1.250	69.80
7/16	HG-14	0.937	1.437	0.500	1.688	120.00
1/2	HG-16	1.062	1.625	0.562	2.000	176.00

\* Ask us to make your custom aluminum and copper sleeves.

## CAUTION

Upson-Walton Copper Swage Sleeves have greater efficiency when machine swaged;  
a lower efficiency when hand swaged.



# Copper Swage Sleeves

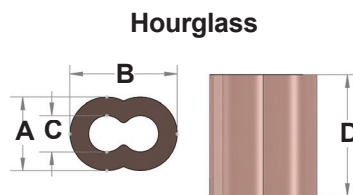
Rope Size	Part Number	Dimensions					Weight lbs. per 1,000
		A	B	C	D	E	
1/32	CHG-1	0.089	0.131	0.044	0.263	0.086	0.0006
3/64	CHG-1.4	0.134	0.201	0.068	0.390	0.135	0.0017
1/16	CHG-2	0.170	0.251	0.094	0.390	0.175	0.0025
3/32	CHG-3	0.224	0.369	0.114	0.440	0.259	0.0064
1/8	CHG-4	0.324	0.492	0.162	0.575	0.330	0.0159
5/32	CHG-5	0.365	0.592	0.193	0.625	0.420	0.0220
3/16	CHG-6	0.449	0.671	0.229	1.000	0.451	0.0507
7/32	CHG-7	0.461	0.713	0.265	0.875	0.517	0.0428
1/4	CHG-8	0.515	0.810	0.285	1.114	0.580	0.0757
5/16	CHG-10	0.665	1.011	0.375	1.125	0.725	0.1130
3/8	CHG-12	0.726	1.113	0.443	1.312	0.829	0.1472
7/16	CHG-14	0.853	1.297	0.525	1.770	0.976	0.2794
1/2	CHG-16	0.965	1.475	0.595	1.900	1.104	0.3758

\* Ask us to make your custom aluminum and copper sleeves.

Per US Military Specification MS-51844.

## CAUTION

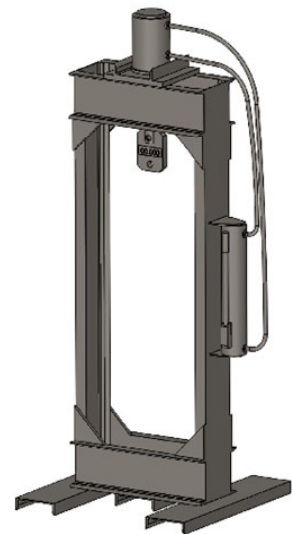
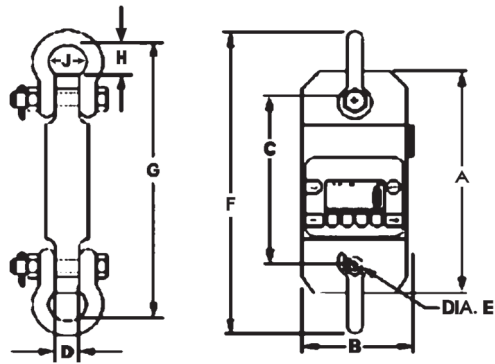
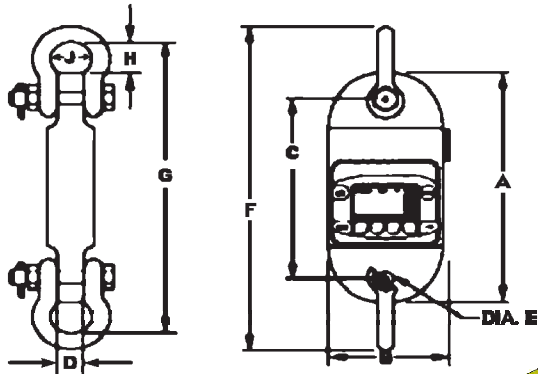
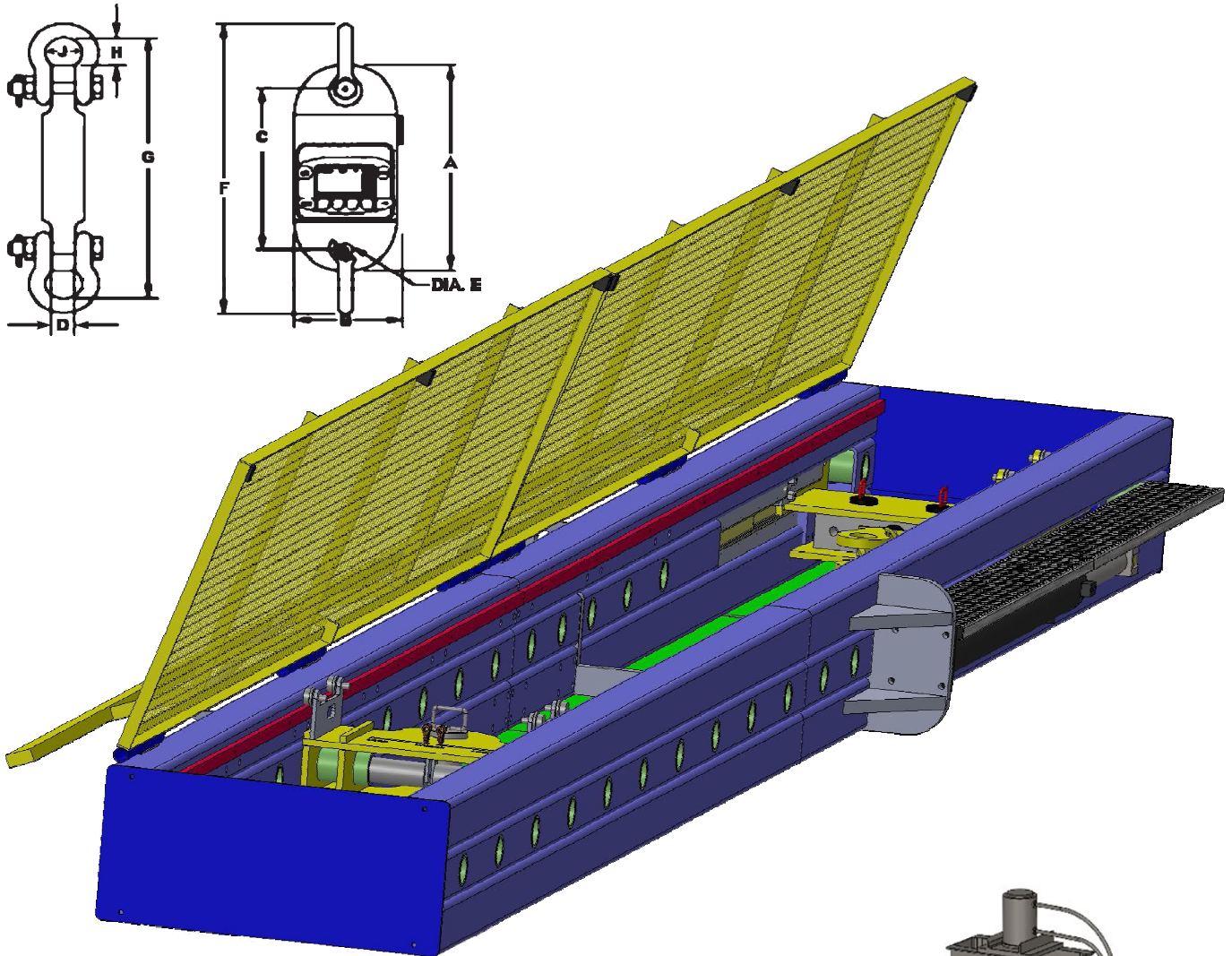
Upson-Walton Copper Swage Sleeves have greater efficiency when machine swaged;  
a lower efficiency when hand swaged.



✓ Zinc-Plated Upon Request.

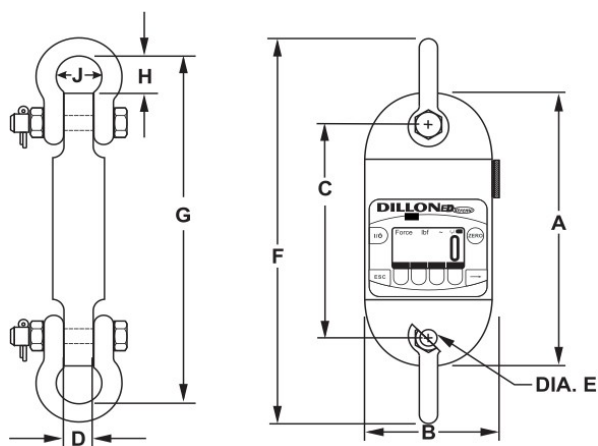


# Muncy Measurements





# EDxtreme Dynamometer



- ✓ System total / summing .
- ✓ 2,500 – 550,000 lb (1,000 – 250,000 kg)
- ✓ Highly accurate with 0.1% accuracy .
- ✓ Industry's first frequency-hopping radio system .
- ✓ Superior strength and corrosion resistance .
- ✓ 5:1 factor of safety .
- ✓ Exclusive SOFTKEY interface .
- ✓ Wide-angle LCD .
- ✓ Battery operation .



Model	Capacity x Resolution (normal/enhanced)			Body Construction and Overload Design
EDx-1T (EDx-2.5K)	2,500 lbf x 2/0.5	1,000 kgf x 1/0.2	10,000 N x 10/2	<ul style="list-style-type: none"> <li>Aircraft quality</li> <li>2024 Aluminum</li> <li>700% Ultimate overload protection</li> </ul>
EDx-2T (EDx-5K)	5,000 lbf x 5/1	2,000 kgf x 2/0.5	20,000 N x 20/5	
EDx-5T (EDx-10k)	10,000 lbf x 10/2	5,000 kgf x 5/1	50,000 N x 50/10	
EDx-10T (EDx-25k)	25,000 lbf x 20/5	10,000 kgf x 10/2	100,000 N x 100/2	<ul style="list-style-type: none"> <li>Aircraft quality</li> <li>E4340 Steel</li> <li>500% Ultimate overload protection</li> </ul>
EDx-20T (EDx-50k)	50,000 lbf x 50/10	20,000 kgf x 20/5	200,000 N x 200/5	
EDx-50T (EDx-100k)	100,000 lbf x 100/20	50,000 kgf x 50/10	500,000 N x 500/100	
EDx-75T (EDx-160k)	160,000 lbf x 100/50	75,000 kgf x 50/20	-----	<ul style="list-style-type: none"> <li>Aircraft quality</li> <li>E4340 Steel</li> <li>400% Ultimate overload protection</li> </ul>
EDx-100T (EDx-220k)	220,000 lbf x 200/50	100,000 kgf x 100/20	-----	
EDx-150T (EDx-330k)	330,000 lbf x 200/100	150,000 kgf x 100/50	-----	
EDx-250T (EDx-550k)	550,000 lbf x 500/200	250,000 kgf x 200/50	-----	

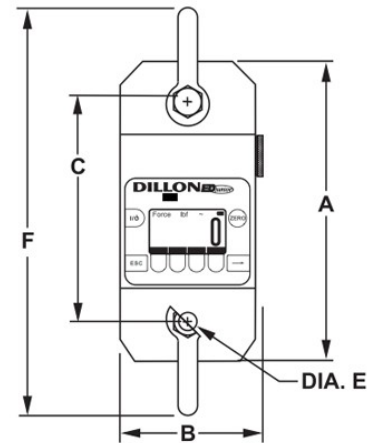
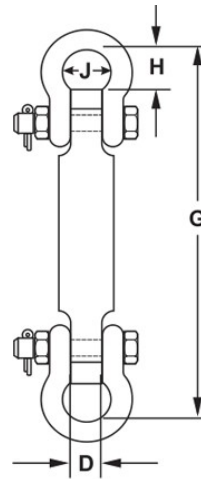
Dimensions (Dimensions shown are nominal and subject to tolerances)										
Model		A	B	C	D	E	F	G	H	J
EDx-1T	inch	10.6	5	7.8	1.06	0.75	15.3	13.4	1.36	1.69
	mm	269	127	198	26	19	389	340	34	43
EDx-2T	inch	10.6	5	7.8	1.06	0.75	15.3	13.4	1.36	1.69
	mm	269	127	198	26	19	389	340	34	43
EDx-5T	inch	11.4	5.3	8.1	1.38	1	17.8	15.8	2.17	2.28
	mm	289	135	206	35	25	451	402	56	58
EDx-10T	inch	11.5	5.3	7.9	1.97	1.38	21.6	18.8	3.67	3.25
	mm	291	133	201	50	35	548	478	93	83
EDx-25T	inch	13.7	6	9	2.75	2	29.7	25.2	5.7	5
	mm	348	152	229	70	51	754	640	146	127
EDx-50T	inch	15.8	6.8	10.3	3.88	2.75	40.5	34.3	9.3	7.3
	mm	400	172	262	99	70	1029	870	235	184
EDx-75T	inch	16.5	7.5	10.3	3.88	2.75	40.5	34.3	8.9	7.3
	mm	419	197	262	99	70	1030	870	225	184
EDx-100T	inch	18	7.8	11	5	3.25	47.7	40.5	11.2	7.8
	mm	457	197	280	127	83	1211	1027	284	200
EDx-150T	inch	21	8.8	12.6	5.25	3.75	53.9	45.6	12.3	9
	mm	533	222	321	133	95	1368	1159	313	229
EDx-250T	inch	27	9.8	17.5	8.5	5	75.8	62.8	17.9	13
	mm	686	248	445	216	127	1925	1595	454	330



## EDjunior Dynamometer



- ✓ 2,500 – 25,000 lb  
(1,000 – 10,000 kg).
- ✓ 0.2% accuracy.
- ✓ Exclusive SOFTKEY interface.
- ✓ Large, 6-digit LCD display.
- ✓ 200-hour battery life.
- ✓ High strength, low weight.



Model	Capacity x Resolution			Body Construction and Overload Design
EDjr-1T (EDjr-2.5K)	2,500 lbf x 2	1,000 kgf x 1	10,000 N x 10	<ul style="list-style-type: none"> <li>• Aircraft quality</li> <li>• 2024 Aluminum</li> <li>• 700% Ultimate overload protection</li> </ul>
EDjr-2T (EDjr-5K)	5,000 lbf x 5	2,000 kgf x 2	20,000 N x 20	
EDjr-5T (EDjr-10K)	10,000 lbf x 10	5,000 kgf x 5	50,000 N x 50	
EDjr-10T (EDjr-25K)	25,000 lbf x 20	10,000 kgf x 10	100,000 N x 100	<ul style="list-style-type: none"> <li>• E 4340 Alloy Steel</li> <li>• 500% Ultimate overload protection</li> </ul>

Dimensions (Dimensions shown are nominal and subject to tolerances)											
Model		A	B	C	D	E	F	G	H	I	J
EDjr-1T	inch	8.40	5.00	6.70	0.75	0.5	11.60	10.80	1.20	2.03	1.16
	mm	213	127	174	19	13	296	274	30	52	29
EDjr-2T	inch	10.60	5.00	7.80	1.06	0.75	14.80	13.40	1.41	2.94	1.69
	mm	269	127	198	27	19	375	340	35	75	43
EDjr-5T	inch	11.40	5.30	8.10	1.38	1.00	17.80	15.80	2.22	4.03	2.25
	mm	289	135	206	35	25	451	402	56	102	58
EDjr-10T	inch	11.50	5.30	7.50	1.97	1.38	21.60	18.80	3.67	4.53	3.25
	mm	291	133	201	50	35	548	478	93	115	83





# AP Mechanical Dynamometer

## Specifications

- ✓ **Accuracy:** 0.5% of capacity
- ✓ **Temperature Range:** -50° to 140° F (-45° to 60° C)
- ✓ **Case Housing:**  
5" models are equipped with high strength composite plastic case.  
10" models use cast aluminum enclosure.
- ✓ **Corrosion Protection:** Pressure bar protected with durable powder coat paint.  
Shackles and pins are electroless nickel plated. All integral machining and fasteners are produced from noncorrosive materials or have suitable plating.
- ✓ **Zeroing Control:** Zero up to 20% of capacity. Zeroed load must be considered as part of ultimate load.
- ✓ **Calibration:** Traceable to NIST.
- ✓ **Documentation:** Includes User's Guide and signed calibration card.
- ✓ **Carry Case/Crate:**  
Low/Med capacity 5" dial – includes plastic carry case.  
Low/Med capacity 10" dial – optional steel carry case.  
All high capacity – includes reinforced plywood crate.
- ✓ **Periodic Proof Loads:** Controlled 150% proof loads permitted annually.



## Pound Capacities

5" (125mm) Dial Size			10" (250mm) Dial Size		Ultimate Safety Factor
	Stock No.	Cap x Division Size	Stock No.	Cap x Division Size	
Low	300006-0019	500 x 5	300007-0018	500 x 2	5:1
	300006-0027	1,000 x 10	300007-0026	1,000 x 5	5:1
	300006-0035	2,000 x 20	300007-0034	2,000 x 10	5:1
	300006-0043	4,000 x 25	300007-0042	4,000 x 20	5:1
	300006-0050	5,000 x 50	300007-0059	5,000 x 20	5:1
	300006-0068	6,000 x 50	300007-0067	6,000 x 25	5:1
	300006-0076	8,000 x 50	300007-0075	8,000 x 50	5:1
	300006-0084	10,000 x 100	300007-0083	10,000 x 50	5:1
Med	300006-0092	15,000 x 100	300007-0091	15,000 x 100	5:1
	300006-0100	20,000 x 200	300007-0109	20,000 x 100	4.5:1
High	—	—	30784-0017	30,000 x 200	5:1
	—	—	30784-0033	50,000 x 200*	3:1

\* Not CE Approved

## Kilogram Capacities

5" (125mm) Dial Size			10" (250mm) Dial Size		Ultimate Safety Factor
	Stock No.	Cap x Division Size	Stock No.	Cap x Division Size	
Low	300006-0142	200 x 2	300007-0141	200 x 1	5:1
	300006-0134	500 x 5	300007-0133	500 x 2	5:1
	300006-0159	1,000 x 10	300007-0158	1,000 x 5	5:1
	300006-0126	2,000 x 20	300007-0125	2,000 x 10	5:1
	300006-0167	4,000 x 25	300007-0166	4,000 x 20	5:1
	300006-0175	5,000 x 50	300007-0174	5,000 x 20	5:1
Med	300006-0118	10,000 x 100	300007-0117	10,000 x 50	4.5:1
High	—	—	30784-0058	20,000 x 100	4:1

## Shipping and packing (approximate weights)

### 5" Low and Med Capacities

Net weight	9 lb
Shipping weight	15 lb
Shipping box	16" x 11" x 7"

### 10" Low and Med Capacities

Net weight	10 lb
Shipping weight	16 lb
(w/ optional case)	26 lbs
Shipping box	14" x 14" x 7"

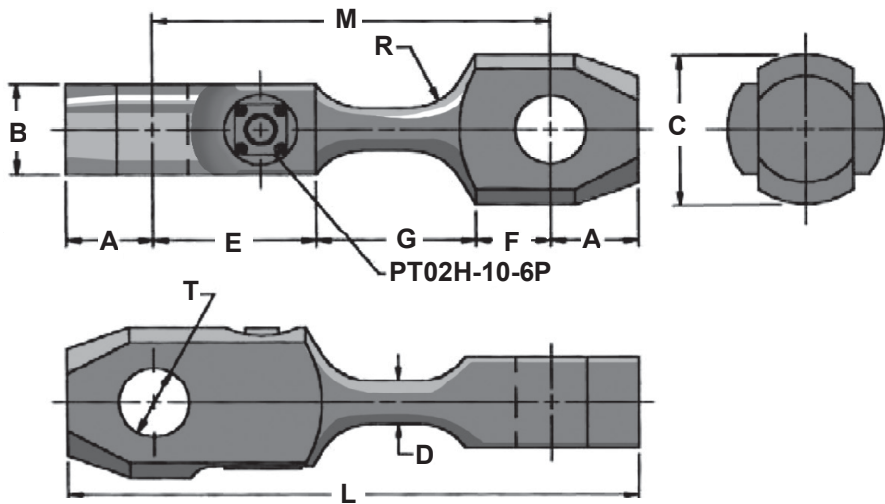
### 30,000 – 50,000 lb (15,000 – 20,000 kg) High capacity

Net weight	64 lb
Shipping weight	98 lb
Shipping crate	37.5" x 13" x 10.5"





# Tension Links



Tension Link Model No.	Shackle Size	CAP. lbs.	A	B	C Dia.	D Dia.	E	F	G	L	M	R Rad.	T Rad.	Safety Factor	Weight lbs.
STL-0.75*	5/16	1,500	1/2	7/16	1	0.384	2-1/8	1/4	1-5/8	5	4	1/2	0.406	4.2	1
STL-1*	3/8	2,000	9/16	9/16	1-1/8	0.427	2-3/16	5/16	1-3/4	5-3/8	4-1/4	1/2	0.469	4.2	1
STL-1.5*	7/16	3,000	5/8	5/8	1-7/16	0.505	2-1/4	5/16	1-15/16	5-3/4	4-1/2	1/2	0.531	4.2	1
STL-2*	1/2	4,000	3/4	11/16	1-9/16	0.572	2-5/16	3/8	2-1/16	6-1/4	4-3/4	1/2	0.656	4.2	1
STL-3.25*	5/8	6,500	15/16	15/16	2	0.779	2-9/16	9/16	2-3/8	7-3/8	5-1/2	1/2	0.781	4.1	1
STL-4.75	3/4	9,500	1-1/8	1-1/8	2-3/16	0.635	2-5/8	3/4	2-5/8	8-1/4	6	1/2	0.906	3.0	4
STL-6.5	7/8	13,000	1-1/4	1-5/16	2-7/16	0.695	2-3/4	7/8	2-7/8	9	6-1/2	1	1.031	3.0	6
STL-8.5	1	17,000	1-3/8	1-9/16	2-11/16	0.764	2-11/16	1-1/16	3	9-1/2	6-3/4	1	1.156	3.0	8
STL-9.5	1-1/8	19,000	1-9/16	1-11/16	2-13/16	0.797	2-3/4	1-1/4	3-1/8	10-1/4	7-1/8	1	1.281	3.0	9
STL-12	1-1/4	24,000	1-3/4	1-7/8	3-1/16	0.873	2-11/16	1-7/16	3-3/8	11	7-1/2	1	1.438	3.0	12
STL-13.25	1-3/8	27,000	1-7/8	2-1/16	3-5/16	0.916	2-7/8	1-1/2	3-1/2	11-5/8	7-7/8	1	1.563	3.0	14
STL-30	1-1/2	60,000	1-13/16	2-3/16	3-7/16	1.274	2-15/16	1-7/16	4	12	8-3/8	1	1.688	3.0	16
STL-40	1-3/4	80,000	2-1/4	2-11/16	4-1/16	1.478	3-1/8	1-7/8	4-5/8	14-1/8	9-5/8	1	2.063	3.0	25
STL-50	2	100,000	1-1/2	3-1/16	4-1/2	1.614	3-1/4	2-1/16	5-1/16	15-3/8	10-3/8	1	2.313	3.0	32
STL-80	2-1/2	160,000	3-1/8	3-3/4	5-3/8	2.054	3-1/2	2-5/8	6-1/8	18-1/2	12-1/4	1	2.875	3.0	56
STL-110	3	220,000	3-11/18	4-5/8	6-3/8	2.397	3-3/4	3-1/2	6-5/8	21-1/4	13-7/8	1-1/2	3.375	3.0	95
STL-140	3-1/2	280,000	4-1/4	4-7/8	6-7/8	2.696	4-1/16	4	7-5/16	23-7/8	15-3/8	1-1/2	3.875	3.0	120
STL-175	4	350,000	4-3/4	5-1/8	7-7/16	3.008	4-7/16	4-7/16	7-7/8	26-1/4	16-3/4	1-1/2	4.375	3.0	190

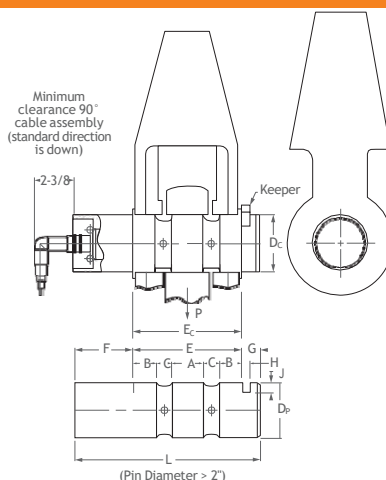
\* Aluminum Alloy: 7075-T6; Hard Coat Finish; Rockwell C-60. All others 17-4 Stainless Steel, H-1025.  
Dimensions are in inches.

- ✓ Highly durable Dynamometer.
- ✓ Made for underwater use upon request.





## Socket Pin Dynamometer



- ✓ Electronic pin measures load.
- ✓ For use with swage or spelter sockets.
- ✓ Special pin keeper built into socket prior to final heat treatment.
- ✓ Made for underwater use upon request.

Model No.	Wire Rope Dia. In.	P Cap. lbs.	A	B	C	Dp Dia.	E	F	G	H	J	L	U	Wt. lbs.	Safety Factor	Keeper Plates
SPA-12.5	0.44 - 0.50	12,500	11/16	15/32	5/16	1.000	2-1/4	2	1/2	13/64	1/4	4-3/4	1/8	1.7	3.8	SPA-12.5-112-1-A
SPA-16	0.56 - 0.63	16,000	13/16	17/32	3/8	1.187	2-5/8	2	5/8	17/64	1/4	5-1/4	1/8	2.1	4.1	SPA-16-112-1-A
SPA-25	0.75	25,000	15/16	19/32	7/16	1.375	3	2	5/8	17/64	5/16	5-5/8	1/8	2.6	3.8	SPA-25-112-1-A
SPA-32	0.88	32,000	1-1/8	11/16	1/2	1.625	3-1/2	2	5/8	17/64	3/8	6-1/8	1/8	3.5	3.5	SPA-32-112-1-A
SPA-50	1	50,000	1-7/16	23/32	9/16	2.000	4	2	5/8	17/64	3/8	6-5/8	1/8	5.5	4.22	SPA-50-112-1-A
SPA-65	1.13	65,000	1-5/8	13/16	5/8	2.250	4-1/2	2	5/8	17/64	3/8	7-1/8	1/8	7.5	3.8	SPA-65-112-1-A
SPA-75	1.25 - 1.38	75,000	1-7/8	15/16	5/8	2.500	5	2	5/8	17/64	1/2	7-5/8	1/8	10	4.6	SPA-75-112-1-A
SPA-100	1.5	100,000	2	1-1/8	11/16	2.750	5-5/8	2	3/4	13/32	1/2	8-3/8	1/8	13	4.1	SPA-100-112-1-A
SPA-125	1.63	125,000	2-5/16	1-3/32	11/16	3.000	5-7/8	2	7/8	13/32	5/8	8-3/4	1/8	17	4.4	SPA-125-112-1-A
SPA-160	1.75 - 1.88	160,000	2-5/8	1-5/16	7/8	3.500	7	2	1	17/32	5/8	10	3/16	26	4.5	SPA-160-112-1-A
SPA-180	2.00 - 2.13	180,000	3	1-5/8	7/8	3.750	8	2	1	17/32	3/4	11	3/16	33	4.6	SPA-180-112-1-A
SPA-220	2.25 - 2.38	220,000	3-1/4	1-15/16	1	4.250	9-1/8	2-1/4	1-1/4	21/32	7/8	12-5/8	3/16	49	4.3	SPA-220-112-1-A
SPA-275	2.50 - 2.63	275,000	3-11/16	2-5/32	1-1/16	4.750	10-1/8	2-1/4	1-1/4	21/32	7/8	13-5/8	3/16	66	4.4	SPA-275-112-1-A
SPA-300	2.75 - 2.88	300,000	3-7/8	2-11/16	1-1/8	5.000	11-1/2	2-1/4	1-1/2	25/32	1	15-1/4	1/4	83	4.1	SPA-300-112-1-A
SPA-330	3.00 - 3.13	330,000	4-3/16	2-27/32	1-3/16	5.250	12-1/4	2-1/4	1-1/2	25/32	1	16	1/4	95	4	SPA-330-112-1-A
SPA-360	3.25 - 3.38	360,000	4-1/2	3	1-1/4	5.500	13	2-1/4	1-3/4	25/32	1-1/8	17	1/4	110	3.9	SPA-360-112-1-A
SPA-400	3.50 - 3.63	400,000	4-5/8	3-3/16	1-3/8	6.000	13-3/4	2-1/4	1-3/4	25/32	1-1/8	17-3/4	1/4	155	4.1	SPA-400-112-1-A
SPA-600	3.75 - 4.00	600,000	5-3/8	3-3/16	1-5/8	7.000	15	2-1/4	1-3/4	25/32	1-1/4	19	1/4	200	4.4	SPA-600-112-1-A



## Quick Balance Tension Meter



Part Number	Capacity & Resolution
AWT15-500844	10,000 x 10lbf / 4,5000 x 5 kgf / 45,000 x 50 N

Additional available sheaves:

Quick-Balance comes standard with part number 36309-0010 Code

Part Number	Sheave Code	Accommodates wire diameters (min - max)	
36309-0058	L	3/16" - 1/4"	4.75 mm - 6.5 mm
36309-0044	P	3/16" - 1/2"	4.75 mm - 12.7 mm
36309-0010	S	1/4" - 3/4"	6.5 mm - 19mm
36309-0101	T	1/2" - 1"	12.7 mm - 25.4 mm

- ✓ Elevator Inspections
- ✓ Measures total force quickly.
- ✓ Default of 3 wire rope sizes.
- ✓ Ability to add 5 more wire ropes.

The Dillon Quick Balance quickly measures tension on lift traction cables or other cable sets, recording individual readings, averages and total readings. The Quick Balance clamps onto each wire rope and determines the force/load, or wire rope tension.







# Quick Check Tension Meter



Stock No.	Capacity & Resolution
36289-0022	2,000 x 2lbf / 1,000 x 1 kgf / 10,000 x 10 N
36289-0014	8,000 x 10 lbf / 3,500 x 5 kgf / 35,000 x 50 N

Sheaves		
Stock No.	Sheave Code	Wire Diameters (min - max)
36309-0085	L	any up to 1/4"
36309-0044	P	any up to 1/2"
36309-0010	S	1/4" - 3/4"
36309-0101	T	1/2" - 1"

## Wire Rope Calibration Slings On Hand:

Popular Stranded Wire		Wire Rope					
Wire Size	Default Load * lbf	1 x 7 EHS	1 x 19 EHS	6 x 19 Fiber Core	6 x 19 IWRC Wire Core	7 x 19 Wire Core	8 x 19 Fiber Core
3/16"	1,000	Y	Y	Y			
1/4"	2,000	Y	Y	Y	Y	Y	
5/16"	3,000	Y		Y		Y	
3/8"	3,500	Y	Y	Y	Y	Y	
7/16"	4,000	Y		Y			
1/2"	5,000	Y		Y		Y	
9/16"	6,000	Y		Y			Y
5/8"	7,000	Y	Y	Y	Y		
3/4"	8,000		Y	Y	Y	Y	Y
7/8"	9,000		Y				

\* or maximum capacity of Quick-Check, whichever is greater

- ✓ Built-in averaging.
- ✓ Portable & rugged.
- ✓ Built-in temperature sensor.
- ✓ Stores 15 unique calibrations.
- ✓ Time-saving check-tensioning mode.

## Electric Conductors

Name	Size	Diameter	Type	Sheathing	Max. Load
Sparrow	2 AWG	0.316	ACSR	No	1710 lbf
Raven	1/0	0.398	ACSR	No	2628 lbf
Penguin	4/0	0.563	ASCR	No	3636 lbf
Chickadee	397.5	0.743	ACSR	No	3636 lbf
Petunia	750	0.997	AAC	No	3636 lbf

## Individual Applications

Wire Size	Description	Default Load
1/2"	6 x 26 wire core	5,000 lbf
3/4"	3 x 7 standard safety (unstretched)	6,000 lbf
3/4"	3 x 7 pre-stretched safety	8,000 lbf
5 mm	1 x 7 stainless steel	1,000 lbf
3/16"	solid steel (pre-stressed concrete)	7,000 lbf


**USA**

# Model AP Mechanical Crane Scale Hardware Kits

## Specifications

- ✓ **Accuracy:** To  $\pm 0.5\%$  of full scale
- ✓ **Tare adjustment:** Up to 20% of full scale range
- ✓ **Ultimate Safety Factor:** 5:1 (\* 4:1 for 20,000 lb, 50,000 lb, 10000 kg and 20000 kg)
- ✓ **Dial diameter:** 10"
- ✓ **Scale length:** ( from inside of eye to inside of hook)
  - Low Range: 25½"
  - Intermediate Range: 29¾"
  - High Range: 37½"



CAPACITY	Capacities & Dial Divisions (lb)	Capacities & Dial Divisions (kg)	Length (Inches)	Net/Gross	Wt. (lb)
low	1,000 x 5	500 x 2	25.5	28	62
low	2,000 x 10	1000 x 5	25.5	28	62
low	N/A	2000 x 10	25.5	28	62
low	5,000 x 20	N/A	25.5	28	62
low	8,000 x 50	N/A	25.5	28	62
low	10,000 x 50	5000 x 20	25.5	28	62
med	15,000 x 100	N/A	29.75	48	83
med	*20,000 x 100	*10000 x 50	29.75	48	83
high	30,000 x 200	N/A	37.5	140	175
high	*50,000 x 200	*20000 x 100	37.5	140	175

Part Number	Capacity
AWT05-503446	Crane Scale Kit, 1000 lb-5000 lb 500-2000 kg
AWT05-503447	Crane Scal Kit, 8k lb-10k lb 4000-5000 kg
AWT05-503448	Crane Scale Kit, 15k lb-20k lb 10,000 kg

# GS and GTXPlus Force Gauges



## GS Plus Model

Model No.	N	kg-f	lb-f
GS005	5 x 0.002	0.5 x 0.003	1.1 x 0.0005
GS010	10 x 0.005	1 x 0.0005	2.2 x 0.001
GS025	25 x 0.01	2.5 x 0.001	5.5 x 0.005
GS050	50 x 0.02	5 x 0.002	11 x 0.005
G2100	100 x 0.05	10 x 0.005	22 x 0.01
G2500	500 x 0.2	50 x 0.02	110 x 0.05
GS2K5	2500 x 1	250 x 0.1	550 x 0.2

## GTX Plus Model

Model No.	N	kg-f	lb-f
GTX025	25 x 0.005	2.5 x 0.0005	5.5 x 0.001
GTX050	50 x 0.01	5 x 0.001	11 x 0.002
GTX100	100 x 0.02	10 x 0.002	22 x 0.005
GTX250	250 x 0.05	25 x 0.005	55 x 0.01
GTX1K0	1000 x 0.2	100 x 0.02	220 x 0.05

## Specifications

- ✓ **Accuracy:**
  - GTX: 0.01% of capacity
  - GS: 0.2% of capacity
- ✓ **Communication:** RS-232 and USB
- ✓ **Functions:** GTX Plus also has database, statistics, date/time, pass/fail, reverse display and backlight.
- ✓ **Dial diameter:** 10"
- ✓ **Warranty:** Two year parts and labor.
- ✓ **Includes:** Hook, plate, extension rod, carry case, batteries, charger, user's manual, calibration certificate

# DynaSwitch®



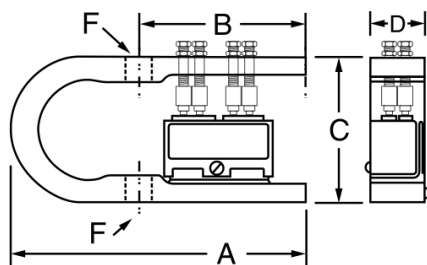
## Specifications

	DSW-1	DSW-2	DSW-3	DSW-4	DSW-5	DSW-6	DSW-7
Capacity lb (kg)	100 (50)	1,000 (500)	2,000 (1000)	5,000 (2500)	10,000 (12500)	25,000 (125000)	50,000 (250000)
Min Setpoint* lb (kg)	15 (7.5)	100 (50)	200 (100)	500 (250)	1,000 (500)	1,250 (625)	2,500 (1250)
Repeatability lb (kg)	±3 (±1.5)	±30 (±15)	±60 (±30)	±150 (±75)	±300 (±150)	±750 (±375)	±1,500 (±750)
Hardware options	D,E,S	D,E,G,S	E,F,G,H,S	E,G,S	E,F,G,H,S	E,G,S	E,G
Switch options	A,J	A,J	B,C	A,J	B,C	B,C	B,C

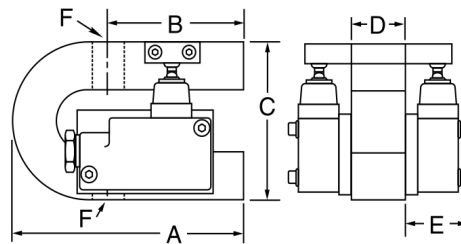
## Dimensions

	DSW-1	DSW-2	DSW-3	DSW-4	DSW-5	DSW-6	DSW-7
A in (cm)	5.12 (13.0)	5.12 (13.0)	6.00 (15.2)	5.50 (14.0)	6.00 (15.2)	8.25 (21.0)	9.31 (23.7)
B in (cm)	2.94 (7.5)	2.94 (7.5)	3.50 (8.9)	3.00 (7.6)	3.50 (8.9)	5.00 (12.7)	5.00 (12.7)
C in (cm)	2.48 (6.3)	2.48 (6.3)	3.96 (10.1)	3.96 (10.1)	3.96 (10.1)	4.69 (11.9)	5.50 (14.0)
D in (cm)	0.98 (2.5)	0.98 (2.5)	1.47 (3.7)	0.98 (2.5)	1.44 (3.7)	2.38 (6.1)	2.68 (6.8)
E in (cm) Option B	n/a	n/a	1.59 (4.0)	n/a	1.59 (4.0)	1.59 (4.0)	1.59 (4.0)
E in (cm) Option C	n/a	n/a	2.48 (6.3)	n/a	2.48 (6.3)	2.48 (6.3)	2.48 (6.3)
F (thread)	1/4 - 28 UNF	1/2 - 20 UNF	7/8 - 14 UNF	1/2 - 20 UNF	7/8 - 14 UNF	1 1/4 - 12 UNF	1 3/4 - 12 UNF

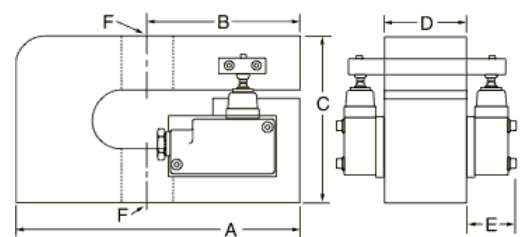
\*Multiply by 3 for Option C.



100 lb, 1,000 lb and 5,000 lb capacity force beam .  
Illustrated with four low differential switches .



2,000 lb and 10,000 lb capacity force beam .  
Illustrated with two weather proof switches



25,000 lb and 50,000 lb capacity force beam .  
Illustrated above two weatherproof switches (Option 2B) .

# Cranegard®



Clamps on cables for wire rope hoist, elevator and crane overload prevention and slackline detection . Installs in minutes with screwdriver and Allen wrench .

## Specifications

	Capacity	Min. Set Point	Repeat-ability	Rope Dia.
CGS-1	2,500	100	±75	3/16 to 1/2
CGS-2	5,000	200	±150	3/8 to 7/8
CGS-3	10,000	400	±300	7/16 to 7/8
CGS-4	20,000	800	±600	5/8 to 1 1/4

## Dimensions

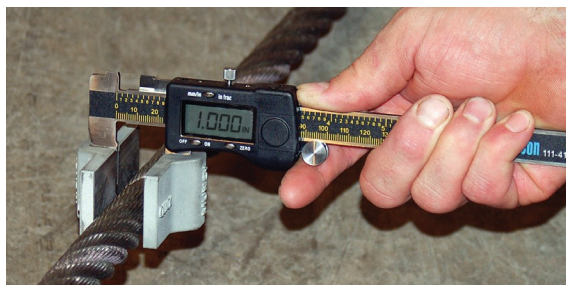
	Switch Options	Width in (cm)	Height in (cm)	Length in (cm)
CGS-1 CGS-2 CGS-3	1B, 2B	3.6 (9.2)	5.4 (13.7)	11.5 (29.2)
	3B 4B	4.6 (11.8)		
	1C	5.0 (12.7)	5.4 (13.7)	
	2C	7.3 (18.4)		
CGS-4	1B, 2B	4.5 (9.2)	7.8 (19.7)	16.0 (40.6)
	3B 4B	5.4 (13.7)		
	1C	5.9 (14.9)		
	2C	8.0 (20.3)		

\* Specify rope diameter when ordering . Other rope diameters can be specified on special order.





## Quick Check Calipers

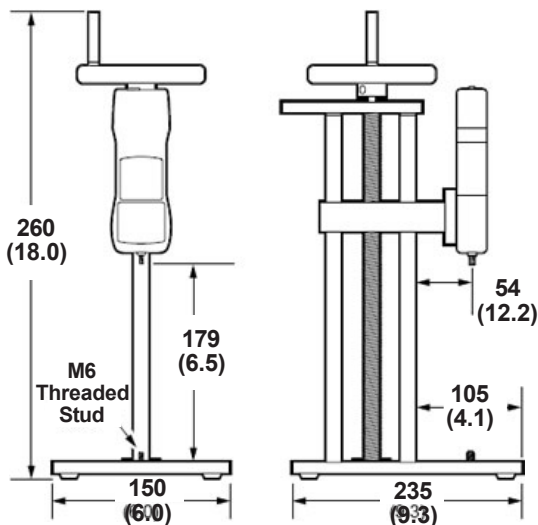


When Measuring the diameter of irregular surfaces, such as wire rope or threads, the jaws of a caliper must be placed precisely to measure the included circle to get an exact measurement . Precise measurement can be hard to accomplish with a standard set of calipers, especially in difficult environments like a shop floor or cramped elevator shaft .

Muncy™ Quick Check Calipers are designed with a large 3" x 1-3/8" measuring surface, allowing multiple contact points with the measuring surface . Simply clamp the jaws on the surface to be measured and read the gauge . Muncy™ Quick Check Calipers can be used horizontal or vertically using just the edges of the jaws .



## CT Manual Test Stand



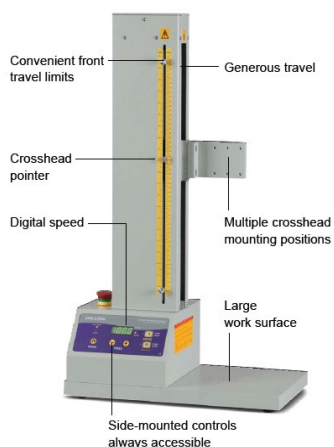
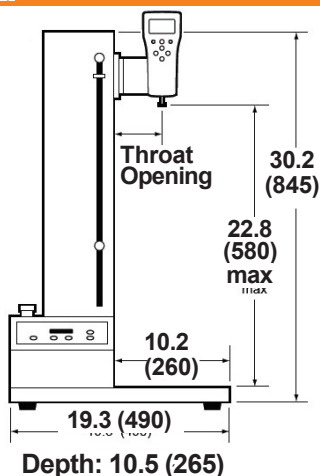
### Specifications

- ✓ **Capacity:** 500 N / 110 lbf / 50 kgf
- ✓ Does both Tension testing and compression testing
- ✓ Travel per hand wheel rotation: 3.0 mm / 0.12 in
- ✓ **Gauge mounting:** All Dillon electronic force gauges and other gauges with the popular 2.25 inch (57 mm) spacing attach to crosshead . Plate may be drilled to accommodate other patterns .
- ✓ **Warranty:** One year parts and labor .
- ✓ **Shipping weight:** 8 kg (18 lb)

**Model: 52751-1885**



## GTS-1000 Digital Motorized Test Stand



### Specifications

- ✓ **Speed:** 0.2 – 40 in/min / 5 – 1000 mm/min
- ✓ **Speed accuracy:** +4% of indicated speed
- ✓ **Mount holes:** Two 2.25 in / 57 mm vertically spaced
- ✓ **Travel:** 18.7 inch / 475 mm
- ✓ **Warranty:** 2 year parts and labor
- ✓ **Weight:** 54 lb / 25 kg

**Model: AWT05-506010**





## Mechanical Force Gauges – Model X



### Model X-C with compression calibration

Model X-C comes in nine capacities ranging from 50 lb to 25,000 lb or 50 to 10000 kg. All feature accuracy of  $\pm 1\%$  of full capacity, except the 25,000 (10000 kg) capacity instruments which are accurate to  $\pm 2\%$  of full capacity. Load is applied against a hardened ball which rotates to maintain vertical alignment as pressure increases. The ball is held in place with a spring clip or retainer. A threaded mounting hole is located opposite the loading ball in the bottom of the beam.

Model X-C is available in pound and kilogram capacities.



### Model X-ST with tension calibration

Dillon offers the Model X-ST in seven capacities from 100 lb to 10,000 lb or 25 kg to 5000 kg. Accuracy is  $\pm 1\%$  of full range. (Note: For applications requiring capacities beyond 10,000 lb or 5000 kg in tension, consider the Dillon Dynamometer).

Tension Force Gauges in capacities through 2,000 lb (1000 kg) are supplied with two rod-end connectors. 5,000 and 10,000 lb (5000 kg) capacities are equipped with convenient shackles and pins.

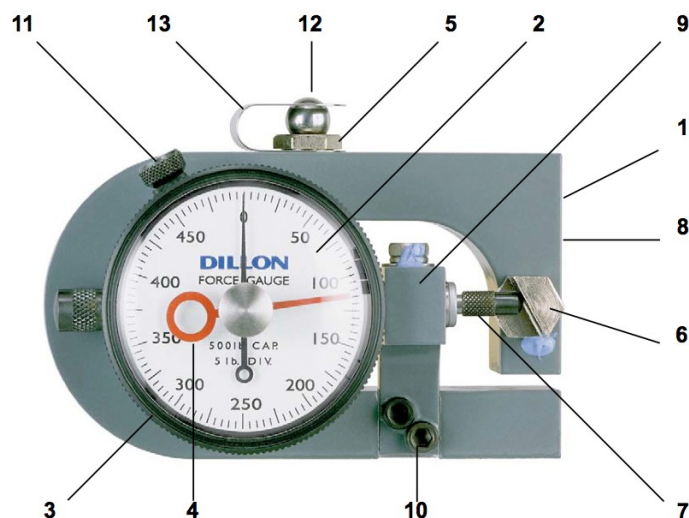
Calibration is available in pounds and kilograms.



### Model X-PP with compression/tension calibration

Force gauges calibrated in push-pull are available in four capacities in pounds ranging from 50-0-50 lb up to and including 2,500-0-2,500 lb and three metric capacities from 50-0-50 to 1000-0-1000 kg. Accuracy is  $\pm 2\%$  of maximum dial reading (based upon total capacity of both compression and tension scales). Model X-PP gauges in capacities up to and including 500-0-500 lb or 250-0-250 kg are supplied with a set of self-aligning spherical rod-end connectors for tension loading. Force is applied to connectors through a hardened steel pin which must be slip fit in connector holes.

2,500-0-2,500 lb and 1000-0-1000 kg capacity gauges are equipped with two shackle adapters, shackles and pins. Shackles must be removed when compression load is involved. Force is then applied against shackle pins in a suitable test setup.



### Model X Force-Gauge Parts Identification

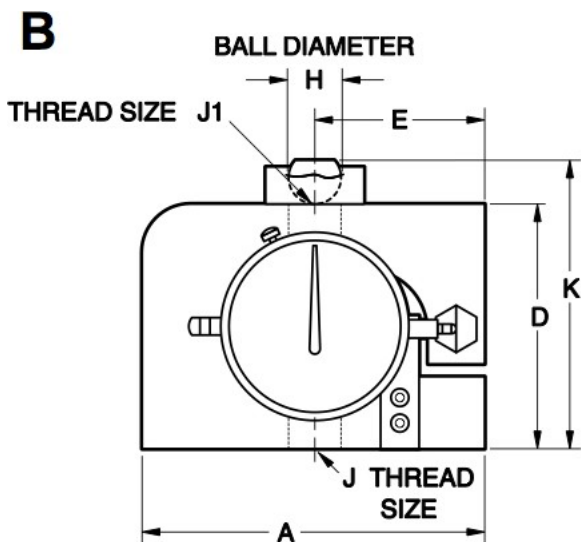
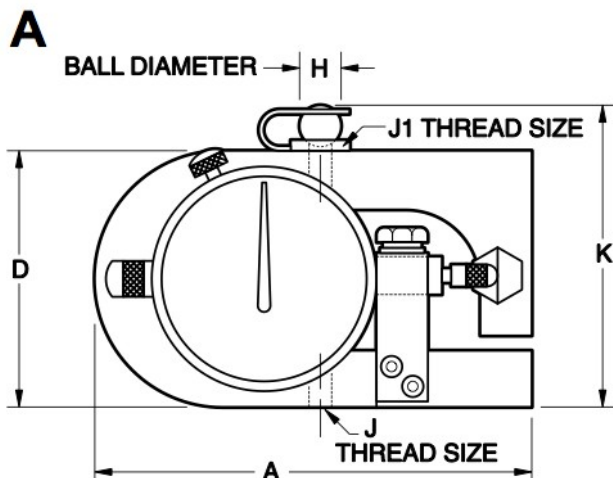
1. Deflection beam
2. Dial indicator with zero at standard 12:00 position
3. Bezel
4. Maximum load pointer (optional)
5. Pressure button
6. Slanted Anvil
7. Dial indicator plunger
8. Anvil set screw
9. Mounting bracket for dial indicator
10. Screws for mounting bracket
11. Bezel-locking screw
12. Loading ball
13. Spring retainer clip





# Mechanical Force Gauges – Model X

## Model X-C (Compression) Force Gauge



**A**

Part No.	Pounds	Part No.	Kilograms	A in.(mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	J1 in. (mm)	K in. (mm)
30386-0035	50 x .5	----	----	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.00 (50.8)	2.25 (57.1)	.38 (9.6)	1/4-28	1/4-28	2.94 (74.6)
30386-0043 30386-0159*	100 x 1	30386-0183*	50 x .5	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.00 (50.8)	2.25 (57.1)	.38 (9.6)	1/4-28	1/4-28	2.94 (74.6)
30446-0033 30446-0090*	250 x 2.5	30446-0181*	100 x 1	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.00 (50.8)	2.25 (57.1)	.38 (9.6)	1/4-28	1/4-28	2.94 (74.6)
30446-0017 30446-0074*	500 x 5	30446-0082*	200 x 2	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.00 (50.8)	2.25 (57.1)	.38 (9.6)	1/4-28	1/4-28	2.94 (74.6)
30444-0019 30444-0050*	1,000 x 10	30444-0068*	500 x 5	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.00 (50.8)	2.25 (57.1)	.38 (9.6)	1/2-20	1/2-20	2.94 (74.6)
30388-0017 30388-0058*	2,000 x 20	30388-0066*	1000 x 10	4.75 (120.6)	1.00 (25.4)	.50 (12.7)	3.00 (76.1)	2.25 (57.1)	2.50 (63.5)	2.75 (69.8)	.38 (9.6)	1/2-20	1/2-20	3.44 (87.3)
30389-0016 30389-0057*	5,000 x 50	30389-0065*	2000 x 20	4.75 (120.6)	1.00 (25.4)	.50 (12.7)	3.00 (76.1)	2.25 (57.1)	2.50 (63.5)	2.75 (69.8)	.38 (9.6)	1/2-20	1/2-20	3.44 (87.3)

**B**

Part No.	Pounds	Part No.	Kilograms	A in.(mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	J1 in. (mm)	K in. (mm)
30423-0014 30423-0055*	10,000 x 100	30423-0063*	5000 x 50	5.87 (149.0)	1.87 (47.5)	.94 (23.9)	3.94 (100.0)	2.75 (69.8)	3.00 (76.1)	3.62 (91.0)	.75 (19.0)	7/8-14	7/8-14	4.50 (114.2)
30449-0014 30449-0055*	25,000 x 250	30449-0063*	10000 x 100	6.56 (166.5)	2.38 (60.4)	1.18 (29.9)	4.68 (118.8)	3.31 (84.0)	3.62 (92.1)	3.62 (91.0)	1.00 (25.4)	1-14	1 1/4-12	5.50 (139.6)

\* with max hand

When measured across the center of top- and bottom-loading holes, the **approximate** beam deflection is as follows:

Capacity (lb)	kg	Beam Deflection
50 - 250	25 - 100	0.019"
500	200	0.016"
1,000	500	0.018"
2,000	1000	0.011"
5- & 10,000	2 & 5000	0.010"
25,000	10000	0.022"

## General Information

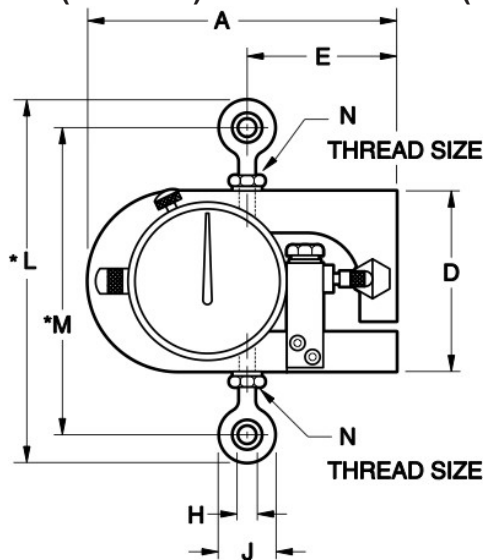
- ✓ To reset zero, loosen knurled bezel-locking screw and rotate dial.
- ✓ Dillon Model X Force Gauges may be mounted horizontally, vertically, or flat.
- ✓ The baked-enamel finish resists corrosion and rust.
- ✓ Operating temperature up to 120° F.





# Mechanical Force Gauges – Model X

## Model X-ST (Tension) and Model X-PP (Push-Pull) Gauges

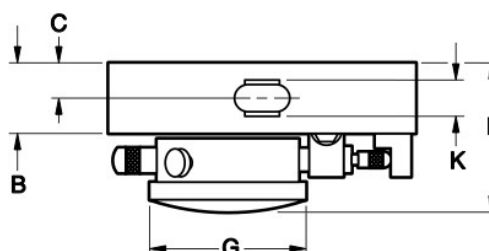
**C**

**C**

Part No.	lb	Part No.	kg	Part No.	Push-Pull lb	Part No.	Push-Pull kg	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	K in. (mm)	L in. (mm)	M in. (mm)	N in. (mm)
30443-0028	25 x .25	30443-0077	10 x .1	----	----	----	----	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.03 (51.5)	2.25 (57.1)	.25 (6.3)	.75 (19.0)	.38 (9.6)	1/4-28	4.25 (107.9)	5.00
30443-0036	50 x .5	30443-0085	25 x .25	----	----	----	----	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.03 (51.5)	2.25 (57.1)	.25 (6.3)	.75 (19.0)	.38 (9.6)	1/4-28	4.25 (107.9)	5.00
30443-0044	100 x 1	30443-0093	50 x .5	30795-0014	50-0-50	----	----	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.03 (51.5)	2.25 (57.1)	.25 (6.3)	.75 (19.0)	.38 (9.6)	1/4-28	4.25 (107.9)	5.00
30445-0034	250 x 2.5	30445-0042	100 x 1	30796-0013	125-0-125	30796-0021	50-0-50	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.03 (51.5)	2.25 (57.1)	.25 (6.3)	.75 (19.0)	.38 (9.6)	1/4-28	4.25 (107.9)	5.00
30445-0018	500 x 5	30445-0026	200 x 2	30797-0012	250-0-250	30797-0020	125-0-125	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.03 (51.5)	2.25 (57.1)	.25 (6.3)	.75 (19.0)	.38 (9.6)	1/4-28	4.25 (107.9)	5.00
30276-0012	1,000 x 10	30276-0020	500 x 5	30798-0011	500-0-500	30798-0029	250-0-250	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	2.50 (63.5)	2.06 (52.3)	2.03 (51.5)	2.25 (57.1)	.50 (12.7)	1.31 (33.2)	.62 (15.7)	1/2-20	5.62 (155.3)	6.94
30440-0013	2,000 x 20	30440-0021	1,000 x 10	30799-0010	1,000-0-1,000	----	----	4.25 (107.9)	1.00 (25.4)	.50 (12.7)	3.00 (76.1)	2.25 (57.1)	2.19 (55.6)	2.75 (69.8)	.50 (12.7)	1.31 (33.2)	.62 (15.7)	1/2-20	6.12 (155.3)	7.44

**D**

Part No.	lb	Part No.	kg	Part No.	Push-Pull lb	Part No.	Push-Pull kg	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	K in. (mm)	L in. (mm)	M in. (mm)	N in. (mm)
30442-11	5,000 x 50	30442-0029	2,000 x 20	30800-0017	2,500-0-2,500	30800-0025	1,000-0-1,000	4.75 (120.6)	1.50 (38.1)	.75 (19.0)	3.00 (76.1)	2.25 (57.1)	2.66 (67.5)	2.75 (69.8)	10.94 (277.7)	1.69 (42.9)	.75 (19.0)	5.44	1.94 (138.1)	1/2-20
30441-0012	10,000 x 100	30441-0020	5,000 x 50	30801-0016	5,000-0-5,000	----	----	5.88 (149.2)	1.88 (47.7)	.94 (23.9)	3.94 (100.0)	2.75 (69.8)	3.00 (76.1)	3.62 (91.9)	12.69 (322.1)	1.69 (42.9)	.75 (19.0)	7.19	1.94 (182.5)	7/8-1/4

### Top View of Drawings A,B,C





## Mechanical Force Gauges – Model U

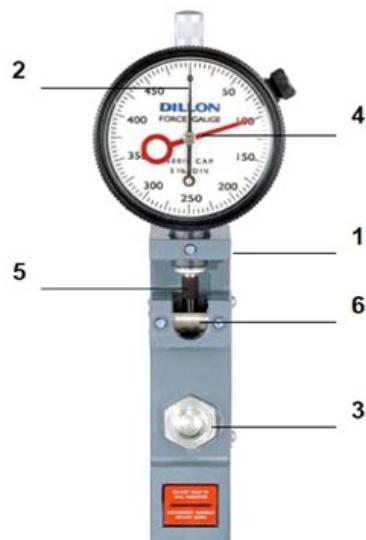
The Model U Force Gauge is an accurate ( $\pm 1\%$  of full range) mechanical compression-measurement instrument. Its slim-line design has repeatedly proven valuable in installations where space is at a premium.

The versatility of this simple instrument is demonstrated by the fact that it can be used as a hand-held device, permanently mounted on a flat surface plate, or used in test fixtures.

### How it Works

The Dillon Model U Force Gauge employs a deflection beam machined from aircraft quality alloy steel and heat treated to develop optimum strength and spring characteristics.

A precision dial indicator is mounted at the null point of this beam.



1. Deflection beam
2. Indicator with 0 at 6:00 position
3. Pressure fitting
4. Maximum pointer (optional)
5. Indicator plunger
6. Slanted anvil

Compression force is normally applied against a single pressure fitting mounted on the upper half of the beam. (For accurate calibration, designate the type of pressure fitting you wish to use with the U Force Gauge. They are of four types: domed, cupped, flat, or a flat nylon insert. Flat bottom gauges require only one fitting. Recessed bottom gauges have top and bottom fittings).

When load is exerted, the beam moves downward causing a slanted anvil on the free end to push against the indicator plunger. The indicator reading is a direct representation of the applied load.

### Dillon offers a capacity for every job

U Force Gauges are available for measurement in pounds, kilograms or newtons. There are 9-pound capacities ranging from 25 x .25 to 10,000 x 100 lb. The 7 kilogram capacities range from 10 x .1 to 5,000 x 50 kg.

On light capacity models with capacities from 25 to 250 lb or 10 to 100 kg, you can choose between



*The Model "U" with **recessed** deflection beam is designed for applications where space is limited. It includes compression-loading fittings for top and bottom.*

flat bottom and recessed design. Dillon also offers high-capacity gauges with lb capacities from 500 to 10,000 lb and metric capacities from 500 to 5000 kg. High-capacity gauges all have flat-bottom design, and each includes one pressure fitting of your choice.

### Options:



**Zero position**—The zero position on the indicator dial can be factory positioned at 12 o'clock, 3 o'clock, 6 o'clock, or 9 o'clock. The standard position is the 6 o'clock position.

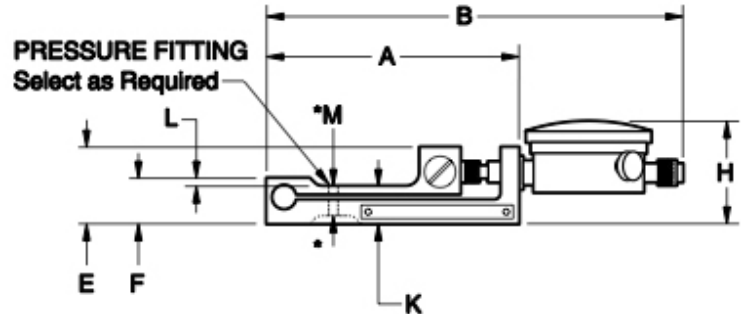
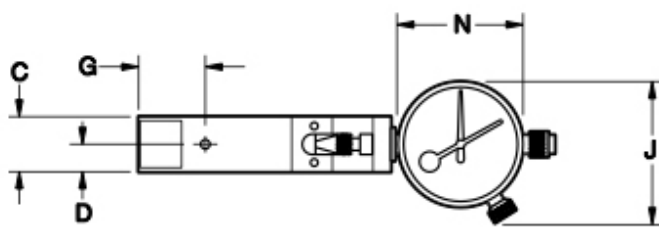
**Maximum pointer**—Model U Force Gauges can include a maximum pointer which remains at peak load until it is reset.

**Shockless dial indicator**—Offers added protection in applications where force is applied or released rapidly.

**Dial orientation**—The dial indicator can be factory positioned at 0° (standard), 90°, 180°, 270° clockwise. Photos on this page show standard dial orientation.



# Mechanical Force Gauges – Model U

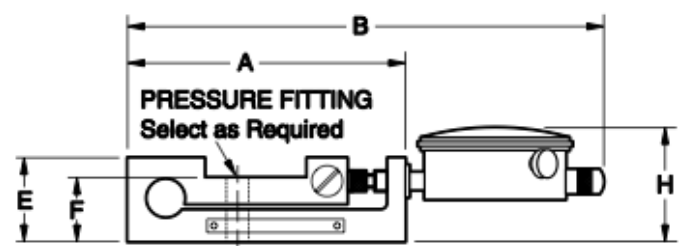
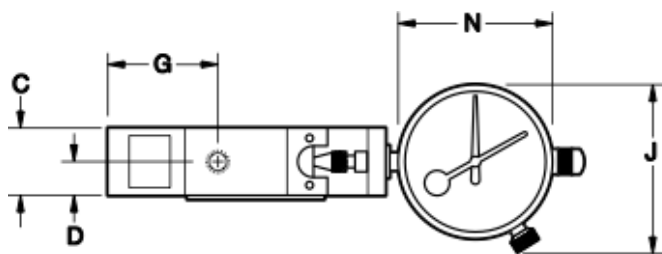


## Low-Range Recessed-Bottom Model U Force Gauge

Part No.	lb (kg)	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	K in. (mm)	L in. (mm)	M in. (mm)	N in. (mm)
30489-0015 (30489-0064)	25 x .25 (10 x .1)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (14.2)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
30489-0023 (30489-0072)	50 x .5 (25 x .25)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (14.2)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
30489-0031 (30489-0080)	100 x .1 (50 x .5)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (14.2)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
30489-0056 (30489-0098)	250 x 2.5 (100 x 1)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (14.2)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)

## Low-Range Flat-Bottom Model U Force Gauge

Part No.	lb (kg)	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	K in. (mm)	L in. (mm)	M in. (mm)	N in. (mm)
30354-0017 (30354-0066)	25 x .25 (10 x .1)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (14.2)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
30354-0025 (30354-0074)	50 x .5 (25 x .25)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (14.2)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
30354-0033 (30354-0082)	100 x 1 (50 x .5)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (14.2)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)
30354-0058 (30354-0090)	250 x 2.5 (100 x 1)	3.28 (83.3)	5.50 (139.6)	.73 (18.5)	.36 (9.1)	.97 (14.2)	.56 (14.2)	.90 (22.8)	1.40 (35.5)	1.87 (47.5)	.46 (11.7)	.094 (2.4)	.349 (8.9)	1.67 (42.4)



## High-Range Model U Force Gauge

Part No.	lb (kg)	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	N in. (mm)
30482-0020 ----	500 x 5 ----	3.87 (98.0)	6.75 (171.3)	.98 (24.9)	.49 (12.4)	1.25 (31.5)	.92 (23.6)	1.52 (38.6)	1.67 (42.4)	2.44 (63.5)	2.25 (57.2)
30482-0053 (30482-0079)	1,000 x 10 500 x 5	3.87 (98.0)	6.75 (171.3)	.98 (24.9)	.49 (12.4)	1.25 (31.5)	.92 (23.6)	1.52 (38.6)	1.67 (42.4)	2.44 (63.5)	2.25 (57.2)
30478-0018 (30478-0042)	2,000 x 20 (1,000 x 10)	4.74 (120.1)	7.94 (201.5)	.98 (24.9)	.49 (12.4)	1.72 (43.7)	1.41 (35.5)	2.06 (52.3)	2.06 (52.3)	2.88 (72.8)	2.75 (69.9)
30478-0034 ----	5,000 x 50 ----	4.74 (120.1)	7.94 (201.5)	.98 (24.9)	.49 (12.4)	1.72 (43.7)	1.41 (35.5)	2.06 (52.3)	2.06 (52.3)	2.88 (72.8)	2.75 (69.9)
30432-0039 (30432-0054)	10,000x100 (5,000x50)	4.35 (110.2)	9.19 (233.2)	1.44 (36.5)	.72 (18.3)	2.12 (53.8)	1.82 (46.0)	2.31 (58.6)	2.32 (58.9)	3.72 (94.4)	3.62 (91.9)



MADE IN  
USA



## Test Beds

**User Friendly**

Intelligently engineered for easy use.

**Space Saving**

Designed for more useable space.

**Expandable**

Easy to add length.

**Calibrations**

Includes 1-year calibration and discounted calibration for the life of the machine.

**Safety**

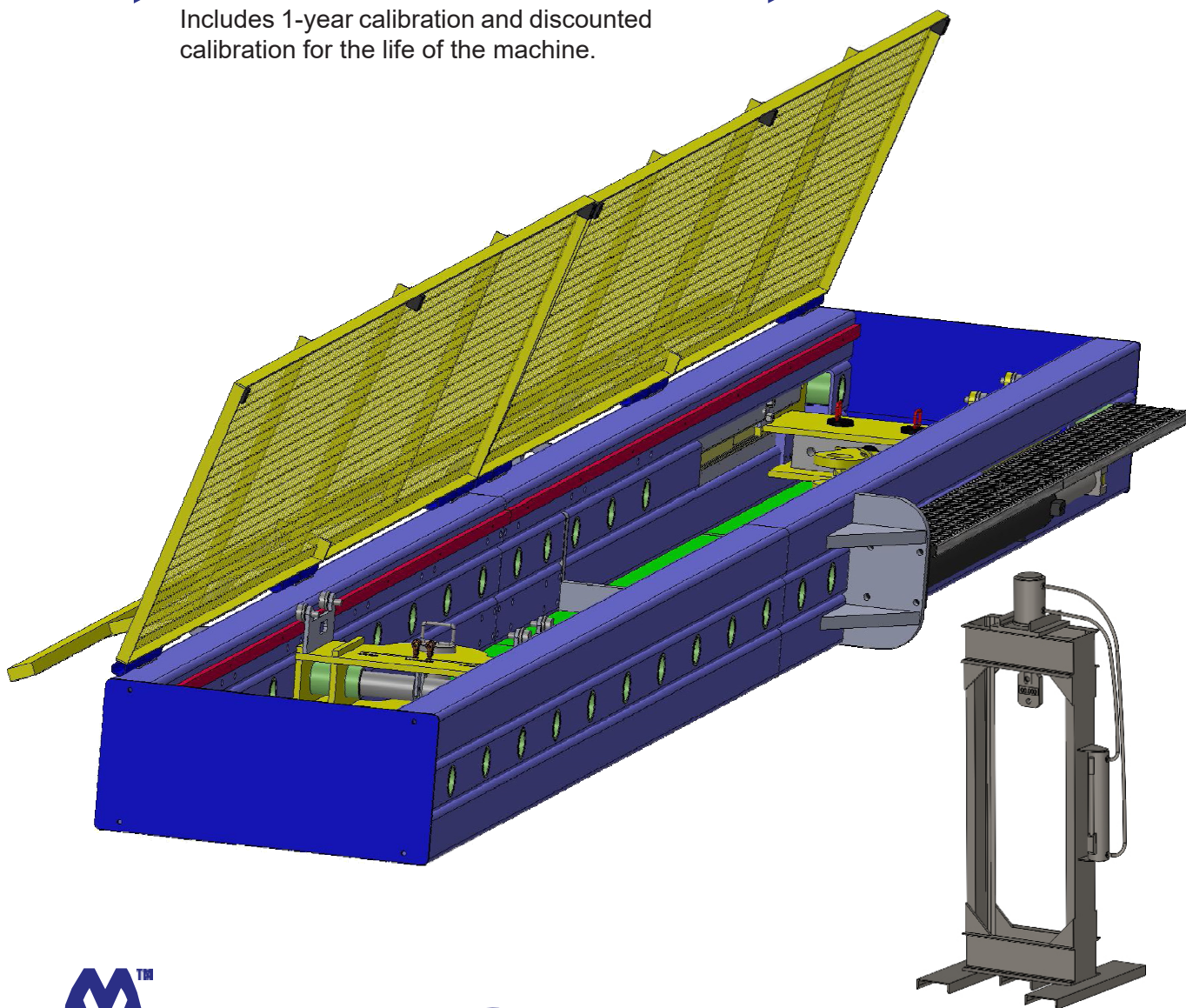
3:1 safety factor.

**Accessories**

Easy to adapt to your needs

**On-Site Service**

Quick Response

**MADE IN USA!**

**MUNCY™ MEASUREMENTS**  
*Savings by Design.*







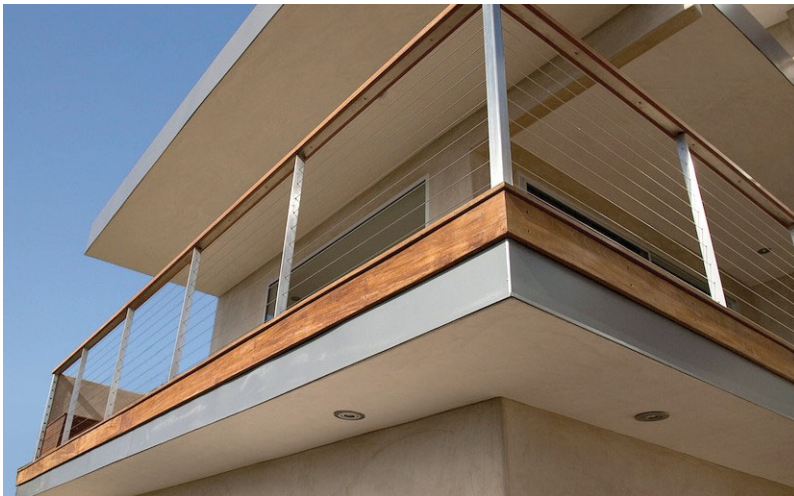
*Introducing*

## **Muncy Marine &Architectural**

A New Division of Muncy™ Industries

**Muncy's Swaged  
Fittings like includes  
fittings in stainless  
steel and copper.**

- ➡ **Sleeves**
- ➡ **Thimbles**
- ➡ **Button Stops**
- ➡ **Ball Shanks**
- ➡ **Threaded Studs**



All Muncy™ Fittings  
are made in USA

**Muncy Marine  
&Architectural**  
*where safety and style meet*

 **MUNCY  
INDUSTRIES**  
**Inspiring confidence.**

Muncy™ Industries  
5820 Susquehanna Trail  
Turbotville, PA 17772  
Ph: (570) 649 - 5188  
Fax: (570) 649 - 5850  
[www.MuncyIndustries.com](http://www.MuncyIndustries.com)

## H.K. Porter Hand-Operated Work Station Crimper with Crimping Cutterhead



### Product Details

Catalog No	7190NL
UPC Code	037103122995
Weight / Length	8lbs / Base 3x6 in.
Handle Material	Tubular Steel
Jaw Design / Cutting Blade	Jaw / Crimping
Replacement Jaws / Heads / Blades	Cutterhead Not Available
Capacity	1/16" – 3/16"

## H.K. Porter 25" Swaging Tool

### Product Details



Catalog No	0190NSL
UPC Code	037103152688
Weight / Length	7 lbs./ 25 in
Handle Material	Tubular Steel
Jaw Design / Cutting Blade	Crimper
Replacement Jaws / Heads / Blades	Cutterhead Not Available
Capacity	1/16" – 3/16"

- ✓ For crimping cable ferrules and stops .
- ✓ Strap cuts wire rope to 1/4" .
- ✓ NEVER use any H.K. Porter cutters on energized circuits, wire, or cable.

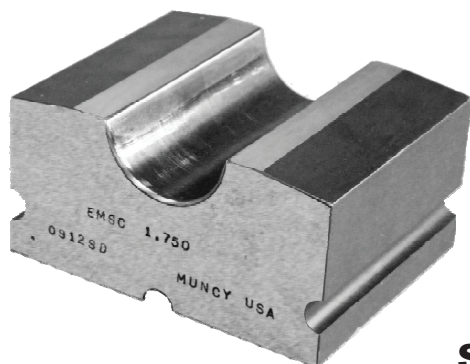
### CAUTION

DO NOT EXCEED the working load limits (WLL) for chain, cable or components.  
DO NOT USE for overhead lifting or hoisting .  
DO NOT USE if the chain, cable or components are visibly worn or distorted.  
REMOVE plastic coating from cable where clips, clamps, ferrules or securing hardware are attached.  
MISUSE can result in serious bodily injury or property damage .





# Swager Dies



- ✓ Specially heat treated for longer swager die life .
- ✓ High grade domestic steel .
- ✓ Die cavity diameter references the nominal after swage diameter .
- ✓ Custom Dies available upon request .

## Straight Channel Dies

Die Cavity Dia.	ESCO Swagers			National Swagers	
	Mark 75/87 2" x 3-1/2"	Mark 100/150 2-1/2" x 5"	Mark 200/250 4" x 7"	5" x 7"	6" x 12"
0.219	ESSC0.219	EMSC0.219		NSSC0.219	
0.250	ESSC0.250	EMSC0.250		NSSC0.250	
0.313	ESSC0.313	EMSC0.313		NSSC0.313	
0.375	ESSC0.375	EMSC0.375		NSSC0.375	
0.438	ESSC0.438	EMSC0.438		NSSC0.438	
0.500	ESSC0.500	EMSC0.500		NSSC0.500	
0.563	ESSC0.563	EMSC0.563		NSSC0.563	
0.625	ESSC0.625	EMSC0.625		NSSC0.625	
0.688	ESSC0.688	EMSC0.688		NSSC0.688	
0.750	ESSC0.750	EMSC0.750		NSSC0.750	
0.875	ESSC0.875	EMSC0.875		NSSC0.875	
1.000	ESSC1.000	EMSC1.000		NSSC1.000	
1.125	ESSC1.125	EMSC1.125		NSSC1.125	
1.250	ESSC1.250	EMSC1.250		NSSC1.250	
1.375	ESSC1.375	EMSC1.375		NSSC1.375	
1.500	ESSC1.500	EMSC1.500		NSSC1.500	
1.750		EMSC1.750	ELSC1.750	NSSC1.750	NLSC1.750
2.000		EMSC2.000	ELSC2.000	NSSC2.000	NLSC2.000
2.250		EMSC2.250	ELSC2.250	NSSC2.250	NLSC2.250
2.375		EMSC2.375	ELSC2.375	NSSC2.375	NLSC2.375
2.500		EMSC2.500	ELSC2.500	NSSC2.500	NLSC2.500
2.625		EMSC2.625	ELSC2.625	NSSC2.625	NLSC2.625
2.750		EMSC2.750	ELSC2.750	NSSC2.750	NLSC2.750
3.000			ELSC3.000	NSSC3.000	NLSC3.000
3.500			ELSC3.500	NSSC3.500	NLSC3.500
3.810			ELSC3.810	NSSC3.810	NLSC3.810
4.000			ELSC4.000	NSSC4.000	NLSC4.000
4.125			ELSC4.125	NSSC4.125	NLSC4.125
4.375			ELSC4.375	NSSC4.375	NLSC4.375
4.440				NSSC4.440	SLSC4.440
4.810					NLSC4.810
5.020					NLSC5.020
5.250					NLSC5.250
6.120					NLSC6.120
7.100					NLSC7.100
7.990					NLSC7.990

### CAUTION

Follow swager manufacturer's operating and maintenance procedures for the swager and Muncy dies .





# Swager Dies

- ✓ Specially heat treated for longer swager die life .
- ✓ High grade domestic steel .
- ✓ Die cavity diameter references the nominal after swage diameter .
- ✓ Custom Dies available upon request .



## Flemish Eye Sleeve Dies

Wire Rope Size	ESCO Swagers			National Swagers	
	Mark 75/87 2" x 3-1/2"	Mark 100/150 2-1/2" x 5"	Mark 200/250 4" x 7"	5" x 7"	6" x 12"
1/4" Tapered Die	ESFE0 .250	EMFE0 .250	ELFE0 .250	NSFE0 .250	
5/16"-3/8" Tapered Die	ESFE0 .313-0 .375	EMFE0 .313-0 .375	ELFE0 .313-0 .375	NSFE0 .313-0 .375	
7/16"-1/2" Tapered Die	ESFE0 .438-0 .500	EMFE0 .438-0 .500	ELFE0 .438-0 .500	NSFE0 .438-0 .500	
9/16"-5/8" Tapered Die	ESFE0 .563-0 .375	EMFE0 .563-0 .375	ELFE0 .563-0 .375	NSFE0 .563-0 .375	
3/4" Tapered Die	ESFE0 .750	EMFE0 .750	ELFE0 .750	NSFE0 .750	
7/8" 1st stage		EMSC1 .750	ELSC1 .750	NSSC1 .750	
7/8" Tapered Die		EMFE0 .875	ELFE0 .875	NSFE0 .875	
7/8" Combo				NSCFE0 .875	
1" 1st stage		EMSC2 .000	ELSC2 .000	NSSC2 .000	
1" Tapered Die		EMFE1 .000	ELFE1 .000	NSFE1 .000	
1" Combo				NSCFE1 .000	
1-1/8" 1st stage		EMSC2 .250	ELSC2 .250	NSSC2 .250	
1-1/8" Tapered Die		EMFE1 .125	ELFE1 .125	NSFE1 .125	
1-1/8" Combo				NSCFE1 .125	
1-1/4" 1st stage		EMSC2 .500	SLSC2 .500	NSSC2 .500	
1-1/4" Tapered Die		EMFE1 .250	ELFE1 .250	NSFE1 .250	
1-1/4" Combo				NSCFE1 .250	
1-3/8" 1st stage		EMSC2 .750	ELSC2 .750	NSSC2 .750	
1-3/8" Tapered Die		EMFE1 .375	ELFE1 .375	NSFE1 .375	
1-3/8" Combo				NSCFE1 .375	
1-1/2" 1st stage		EMSC3 .000	ELSC3 .000	NSSC3 .000	
1-1/2" Tapered Die		EMFE1 .500	ELFE1 .500	NSFE1 .500	
1-1/2" Combo				NSCFE1 .500	
1-3/4 1st Stage			ELSC3 .500	NSSC3 .500	
1-3/4 2nd Stage			ELFE1 .750	NSFE1 .750	
2" 1st Stage			ELSC3 .810	NSSC3 .810	
2" 2nd Stage			ELFE2000	NSFE2000	
2-1/4" 1st Stage			ELSC4 .440	NSSC4 .440	
2-1/4" 2nd Stage			ELFE2 .250	NSFE2 .250	
2-1/2" 1st Stage			ELSC4 .810	NSSC4 .810	NLSC4 .810
2-1/2" 2nd Stage			ELFE2 .500	NSFE2 .500	NLFE2 .500
2-3/4" 1st Stage			ELSC5 .020	NSSC5 .020	NLSC5 .020
2-3/4" 2nd Stage			ELFE2 .750	NSFE2 .750	NLFE2 .750
3" 1st Stage			ELSC5 .250	NSSC5 .250	NLSC5 .250
3" 2nd Stage			ELFE3 .000	NSFE3 .000	NLFE3 .000
3-1/2" 1st Stage			ELSC6 .120	NSSC6 .120	NLSC6 .120
3-1/2" 2nd Stage			ELFE3 .500	NSFE3 .500	NLFE3 .500
4" 1st Stage			ELSC7 .100	NSFE7 .100	NLSC7 .100
4" 2nd Stage			ELFE4 .000		NLFE4 .000
4-1/2" 1st Stage			ELSC7 .990		NLSC7 .990
4-1/2" 2nd Stage			ELFE4 .500		NLFE4 .500

### CAUTION

Follow swager manufacturer's operating and maintenance procedures for the swager and Muncy dies .



# U-W Flemish Eye Sleeve Die Guide

Wire Rope Size	Die Cavity Number	Die Cavity Dia.	Flemish Eye Sleeve	1pc Carbon Steel Duplex	1pc Stainless Steel Duplex	BB Button	CB Button	NB Button	SB Button	Grommet Sleeve	TTS Stud	STS Stud	Std Swage Socket	Boom Pend. Socket
1/4" Tapered Die	FE0 .250	0.500	45025060											
5/16" - 3/8" Tapered Die	FE0 .313-0 .375	0.730	45031360 45037560											
7/16" - 1/2" Tapered Die	FEO .438-0 .500	0.980	45043860 45050060											
9/16" - 5/8" Tapered Die	FE0 .563-0 .375	1.200	45056360 45062560											
3/4" Tapered Die	FE0 .750	1.410	45075040											
7/8" 1st Stage 7/8" Tapered Die 7/8" Combo	SC1 .750 FE0 .875 CFE0.875	1.750 1.630	45087540	45056302	45087504	BB-28	CB-28	NB-28	SB-28	GS-28	TTS-28	STS-32	40100002 41100002	40100010 41100010
1' 1st Stage 1' Tapered Die 1" Combo	SC2 .000 FE1 .000 CFE1.000	2.000 1.880	45100040	45100002	45100004	BB-32	CB-32	NB-32	SB-32	GS-32	TTS-32	STS-36	40112502 41112502	40112510 41112510
1-1/8" 1st Stage 1-1/8" Tapered Die 1-1/8" Combo	SC2 .250 FE1 .125 CFE1.125	2.250 2.080	45112540				CB-36	NB-36	SB-36	GS-36	TTS-36	STS-40	40125002 41125002	40125010 41125010
1-1/4" 1st Stage 1-1/4" Tapered Die 1-1/4" Combo	SC2 .500 FE1 .250 CFE1.250	2.500 2.270	45125040				CB-40	NB-40	SB-40	GS-40	TTS-40		40137502 41137502	40137510 41137510
1-1/2" 1st Stage 1-3/8" Tapered Die 1-3/8" Combo	SC2 .750 FE1 .375 CFE1.375	2.750 2.460	45137540					NB-44	SB-44	GS-44	TTS-44	STS-48	40150002 41150002	40150010 41150010
1-1/2" 1st stage 1-1/2" Tapered Die 1-1/2" Combo	SC3 .000 FE1 .500 CFE1.500	3.000 2.650	45150040					NB-48	SB-48	GS-48 GS-52	TTS-48		40175002 41175002	
1-3/4" 1st Stage 1-3/4" 2nd Stage	SC3.500 FE1.750	3.500 3.036	45175040							GS-56 GS-64			40200002 41200002	
2" 1st Stage 2" 2nd Stage	SC3.810 FE2.000	3.810 3.500	45200040											
2-1/4" 1st Stage 2-1/4" 2nd Stage	SC4.440 FE2.250	4.440 4.060	45225040											
2-1/2" 1st Stage 2-1/2" 2nd Stage	SC4.810 FGE2.500	4.810 4.440	45250040											

Suggested Dies; for reference only.

Muncy™ Straight Channel Die Guide  
For Muncy™ & Upson-Walton Products

Die Cavity Dia.	Muncy™ Die Cavity Number	Flemish Eye 1st Stage	1pc Carbon Steel Duplex	1pc Stainless Duplex	2pc Carbon Steel Duplex	BB Buttons	CB Buttons	NB Buttons	SB Buttons	Drum-line Buttons	Grommet Sleeve	Threaded Sleeve	TTS Stud	STS Stud	Shank Hook	Std. Swage Socket	Boom Pend. Socket	Fork Terminal	Pin Eye
0.219	SC0.219													STS-4				FT-4	
0.250	SC0.250						CB-4												PE-4
0.313	SC0.313													STS-6				FT-6	PE-6
0.375	SC0.375						CB-6	NB-4	SB-4			SS-6							
0.438	SC0.438							NB-5	SB-5			SS-7		STS-8 STS-8A		40-, 41025002		FT-8	PE-8
0.500	SC0.500			45025004	45025003	BB-8	CB-8	NB-6	SB-6		GS-8	SS-8	TTS-8A		SH-6				
0.563	SC0.563							NB-7 NB-8	SB-7				TTS-8	STS-10	SH-8 SH-10			FT-10	PE-10
0.625	SC0.625		45025002			BB-10	CB-10		SB-8			SS-10	TTS-10 TTS-10A	STS-12				FT-12	PE-12
0.688	SC0.688								SB-9							40-, 41031302 40-, 41037502			
0.750	SC0.750		45031302 45037502	45031304 45037504	45031303 45037503	BB-12	CB-12	NB-10 NB-12	SB-10		GS-12	SS-12	TTS-12 TTS-12A	STS-14 MM56-16	SH-10A SH-12			FT-14	PE-14
0.875	SC0.875		45043802			BB-14	CB-14		SB-12			SS-14	TTS-14	STS-16		40-, 41043802 40-, 41050002		FT-16 FT-18	PE-16
1.000	SC1.000		45050002	45043804 45050004	45043803 45050003	BB-16	CB-16	NB-14	SB-14		GS-16	SS-16	TTS-16 TTS-16A	STS-18	SH-14 SH-16				PE-18
1.063	SC1.063					BB-18													
1.125	SC1.125		45056302				CB-18	NB-16	SB-16			SS-18	TTS-18	STS-20	SH-18 SH-20	40-, 41056302 40-, 41062502			PE-20
1.250	SC1.250		45062502	45062504 45075004	45056303 45062503	BB-20	CB-20	NB-18	SB-18		GS-20	SS-20	TTS-20						
1.375	SC1.375							NB-20	SB-20					STS-24	SH-24	40-, 41075002			PE-24
1.500	SC1.500		45075002	45075004		BB-24	CB-24	NB-24	SB-24		GS-24	SS-24	TTS-24	STS-28	SH-28	40-, 41087502			
1.750	SC1.750	45087501	45087502	45087504		BB-28	CB-28	NB-28	SB-28		GS-28	SS-28	TTS-28	STS-32		40-, 41100002	40-, 41100010		
2.000	SC2.000	45100001	45100002	45100004		BB-32	CB-32	NB-32	SB-32		GS-32	SS-32	TTS-32	STS-36	SH-32	40-, 41112502	40-, 41112510		
2.250	SC2.250	45112501					CB-36	NB-36	SB-36		GS-36	SS-36	TTS-36	STS-40		40-, 41125002	40-, 41125010		
2.375	SC2.375													STS-44					
2.500	SC2.500	45125001					CB-40	NB-40	SB-40		GS-40	SS-40	TTS-40			40-, 41137502	40-, 41137510		
2.625																			
2.750	SC2.750	45137501						NB-44	SB-44	DB-48 DB-56	GS-44	SS-44	TTS-44	STS-48		40-, 41150002	40-, 41150010		
3.000	SC3.000	45150001						NB-48	SB-48		GS-48 GS-52	SS-48	TTS-48			40-, 41175002			
3.500	SC3.500	45175001								DB-64 DB-68 DB-72	GS-56 GS-64					40-, 41200002			
3.810	SC3.810	45200001																	

Suggested Dies; for reference only.

# “Now *That’s* Something I Can Use.”

**Upson-Walton™ Closed Swage Sockets**

EFFICIENT, QUICK and POSITIVE

Why pour zinc or epoxy when swaging is sure? Swage sockets have as much as five times longer life than spelter sockets.

**Tests prove swage sockets have the best fatigue life**

An extensive research study by one of the nation's steel companies clearly established the fatigue life superiority of swaged sockets over other commonly used types of boom pendants. The tests included applied dynamic longitudinal load to the rope. They also simulated stresses which occur in pendant service. The graph at the right shows the results of these tests.

**LIFE – thousands of cycles to failure**

24,500 LB. DYNAMIC TEST LOAD (35% OF CATALOG STRENGTH)  
17,500 LB. DYNAMIC TEST LOAD (25% OF CATALOG STRENGTH)

Socket Type	Life (Thousands of Cycles to Failure)
Hand Tuck Splice Uncoated Rope	~10
Zinc Socket Uncoated Rope	~20
Aluminum Sleeve Lock Uncoated Rope	~80
Torpedo Loop Lock Uncoated Rope	~120
Swaged Socket Uncoated Rope	~180

Stock No.	Rope Size	Dimensions								Weight Lbs. Each	After Swage Min - Max
		A	B	C	D	E	H	K	L		
41025002	1/4	0.495	0.272	1-7/16	0.750	1/2	2-1/8	4-3/8	3-1/2	0.35	0.428 - 0.460
41031302	5/16	0.770	0.339	1-11/16	0.875	11/16	3-3/16	5-1/2	4-1/2	0.77	0.678 - 0.710
41037502	3/8	0.770	0.406	1-11/16	0.875	11/16	3-3/16	5-1/2	4-1/2	0.77	0.678 - 0.710
41043602	7/16	0.982	0.484	2	1.063	7/8	4-1/4	6-1/2	5-1/2	1.257	1.063 - 1.100
41050002	1/2	0.982	0.547	2	1.063	7/8	4-1/4	6-1/2	5-1/2	1.257	1.063 - 1.100
41056302	9/16	1.257	0.678	2-1/8	1.312	1	5-1/8	7-1/4	6-1/2	1.875	1.678 - 1.710
41062502	5/8	1.257	0.678	2-1/8	1.312	1	5-1/8	7-1/4	6-1/2	1.875	1.678 - 1.710
41075002	3/4	1.257	0.678	2-1/8	1.312	1	5-1/8	7-1/4	6-1/2	1.875	1.678 - 1.710
41087502	7/8	1.257	0.678	2-1/8	1.312	1	5-1/8	7-1/4	6-1/2	1.875	1.678 - 1.710
41100002	1-0/0	1.257	0.678	2-1/8	1.312	1	5-1/8	7-1/4	6-1/2	1.875	1.678 - 1.710

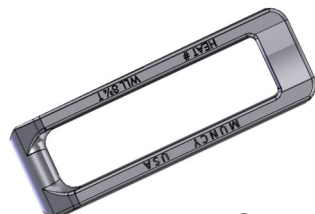
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# www.MuncyIndustries.com



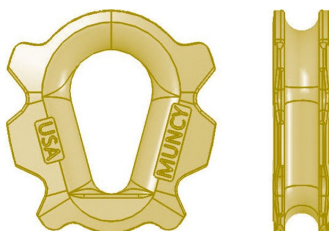
# Product Spotlight

## Roll-Off Hook



See page 32  
for more information.

## Casing Thimble



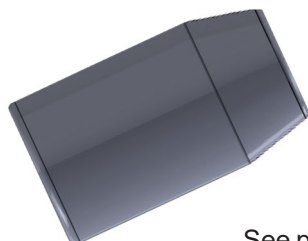
See page 33  
for more information.

## Slip-Through Thimble



See page 33  
for more information.

## Stainless Steel Flemish Eye Sleeve



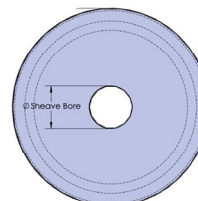
See page 65  
for more information.

## One Piece SS Duplex Sleeves



See page 66  
for more information.

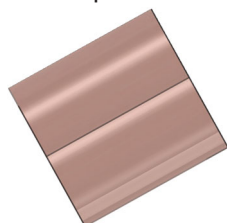
## Sheaves



See page 36  
for more information.

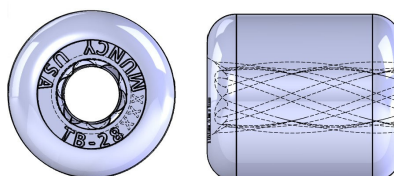
## Copper Swage Sleeve

Available zinc plated\*



See page 68  
for more information.

## Twist-On Button



See page 22  
for more information.

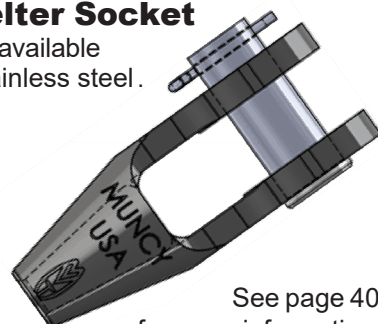
## Steel Choker Triangle



See page 30  
for more information.

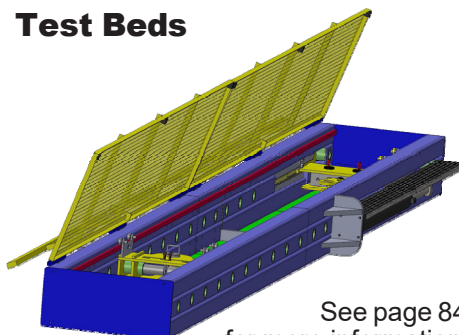
## Spelter Socket

Also available  
in stainless steel.



See page 40  
for more information.

## Test Beds



See page 84  
for more information.

## EDxtreme Dynamometer



See page 70  
for more information.

## Zinc



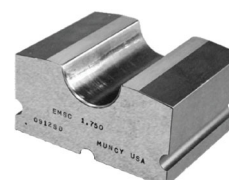
See page 54  
for more information.

## Quick-Check Caliper



See page 78  
for more information.

## Swager Dies



See pages 87 - 90  
for more information.

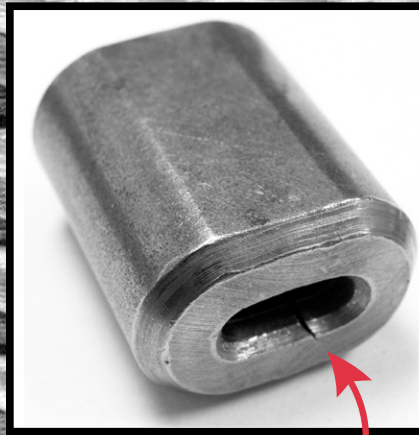


We hear it all the time:

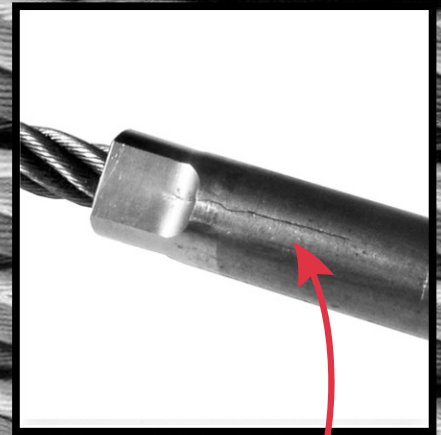
# "Why did my fitting crack?"



▲  
Muncy button made from our proprietary grade of steel showing no cracks when crushed.



▲  
A competitor's button showing a crack that occurred when crushed.



▲  
A competitor's stud showing cracking that occurred when swaged.

## "I HAD THIS SWAGED STUD MADE AT THE MACHINE SHOP DOWN THE STREET, WHY DID IT CRACK WHEN I SWAGED IT?"

Muncy has extensive experience with our customers asking us this question. We have been making swaged fittings for over 60 years! *The answer is the steel!*

When you purchase a wire rope fitting from a machine shop down the street, they typically are using steel that they purchased from steel service centers. Our research on various cracked job shop fittings has shown that these fittings are often made of steel grades that either the steel service center or

the job shop has chosen to stock, to service a wide variety of different industries. Muncy dedicates itself to the wire rope and heavy lifting industries, and has developed a grade of steel that is ideally suited for the extreme pressures induced during the swaging process. Our steel is purchased directly from domestic steel mills according to Muncy's strict specifications. All incoming steel is carefully checked against our specification and if accepted, color coded and assigned a Muncy heat number for traceability.

We typically maintain over 250 tons of steel in our in-house inventory to service your needs. We are committed to fast delivery and superior quality!







*Inspiring confidence.*

## **We've Added Divisions to Muncy™ Industries**

Muncy™ Machine & Tool Co., Inc. 

The Upson-Walton™ Company 

Muncy™ Marine & Architectural 

Muncy™ Measurements 

**Muncy Industries**

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**New Muncy™ Machine location in  
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