

**SECTION 5**  
**Blocks/Sheaves/Swivels**

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## Tackle Blocks

### Warnings, Use & Maintenance Information:

#### ! WARNING!

- A potential hazard exists when lifting or dragging heavy loads with tackle block assemblies.
  - Failure to design and use tackle block systems properly may cause a load to slip or fall - the result could be serious injury or death.
  - A tackle block system should be rigged by a qualified person as defined by ANSI/ASME B.30.
  - Instruct workers to keep hands and body away from block sheaves and swivels - and away from "pinch points" where rope touches block parts or loads.
- Do not side load tackle blocks.
- See OSHA Rule 1926.550 (g) for Personnel Hoisting by Cranes and Derricks. Only a Crosby or McKissick Hook with a PL Latch attached, and secured with the bolt, nut and cotter pin provided, may be used for any personnel hoisting. A hook with a Crosby SS-4055 Latch attached shall not be used for personnel hoisting.
  - Instruct workers to be alert and to wear proper safety gear in areas where loads are moved or supported with tackle block systems.
  - Use only genuine Crosby parts as replacement.
  - Read, understand, and follow these instructions to select, use and maintain tackle block systems.

For maximum safety and efficiency, tackle block systems must be properly designed, used, and maintained. You must understand the use of tackle block components in the system. These instructions provide this knowledge. Read them carefully and completely.

Some parts of these instructions must use technical words and detailed explanations. NOTE: If you do not understand all words, diagrams, and definitions - DO NOT TRY TO USE A TACKLE BLOCK SYSTEM! Please call for further assistance.

### General Cautions or Warnings

Ratings shown in Crosby Group literature are applicable only to new or "in as new" products.

Working Load Limit (WLL) ratings indicate the greatest force or load a product can carry under usual environmental conditions. Shock loading and extraordinary conditions must be taken into account when selecting products for use in tackle block systems.

In general, the products displayed in Crosby Group literature are used as parts of a system being employed to accomplish a task. Therefore, we can only recommend within the Working Load Limits, or other stated limitations, the use of products for this purpose.

The Working Load Limit or Design (Safety) Factor of each Crosby product may be affected by wear, misuse, overloading, corrosion, deformation, intentional alteration, and other use conditions. Regular inspection must be conducted to determine whether use can be continued at the catalog assigned WLL, a reduced WLL, a reduced Design (Safety) Factor, or withdrawn from service.

Crosby Group products generally are intended for tension or pull. Side loading must be avoided, as it exerts additional force or loading which the product is not designed to accommodate.

Always make sure the hook supports the load. The latch must never support the load.

Welding of load supporting parts or products

can be hazardous. Knowledge of materials, heat treatment, and welding procedures is necessary for proper welding. Crosby Group should be consulted for information.

#### Definitions

**Static Load** - The load resulting from a constantly applied force or load.

**Working Load Limit (WLL)** - The maximum mass or force which the product is authorized to support in general service when the pull is applied in-line, unless noted otherwise, with respect to the center line of the product. This term is used interchangeably with the following terms.

1. WLL
2. Rated Load Value
3. SWL
4. Safe Working Load
5. Resultant Safe Working Load

**Working Load** - The maximum mass or force which the product is authorized to support in a particular service.

**Proof Load** - The average force applied in the performance of a proof test; the average force to which a product may be subjected before deformation occurs.

**Proof Test** - A test applied to a product solely to determine non conforming material or manufacturing defects.

**Ultimate Load** - The average load or force at which the product fails, or no longer supports the load.

**Shock Load** - A force that results from the rapid application of a force (such as impacting and/or jerking) or rapid movement of a static load. A shock load significantly adds to the static load.

**Design (Safety) Factor** - An industry term denoting a product's theoretical reserve capability; usually computed by dividing the catalog Ultimate Load by the Working Load Limit. Generally expressed for blocks as a ratio of 4 to 1.

**Tackle Block** - An assembly consisting of a sheave(s), side plates, and generally an end fitting (hook, shackle, etc.) that is used for lifting, lowering, or applying tension.

### Fitting Maintenance

Fittings, including hooks, shackles, links, etc., may become worn and disfigured with use, resulting in nicks, gouges and sharp corners which produce additional stress conditions. Regular inspection is recommended to monitor product condition.

Grinding is the recommended procedure to restore smooth surfaces. The maximum allowance for reduction of a product's original dimension due to wear or repair before removal from service is:

1. Any single direction - No more than 10% of original dimension;
2. Two directions - No more than 5% of each dimension.

For detailed instructions on specific products, see the application and warning information for that product. Any greater reduction may necessitate a reduced Working Load Limit.

Any crack or deformation in a fitting is sufficient cause to withdraw the product from service.

### Selection Guide

Some of the blocks shown in Crosby Group literature are named for their intended use and selection is routine. A few examples include the "Double Rig Trawl Block" used in the fishing industry, the "Well Loggers Block" used in the oil drilling industry, and the "Cargo Hoisting Block" used in the freighter boat industry. Others are more generally classified and have a variety of uses. They include snatch blocks, regular wood blocks, standard steel blocks, etc.

For example, snatch blocks allow the line to be attached by opening up the block instead of threading the line through the block. This feature eliminates the use of rope guards and allows various line entrance and exit angles to change direction of the load. These angles determine the load on the block and/or the block fitting. (See "Loads on Blocks.") Snatch blocks are intended for infrequent and intermittent use with low line speeds.

A tackle block is one element of a system used to lift or drag a load. There are other elements in the system including the prime mover (hoist, winch, hand), supporting structure, power available, etc. All of these elements can influence the type of tackle block required. When selecting a block for the system in your specific application, you should consider the other elements as well as the features of the blocks shown in Crosby Group literature.

To select a tackle block to fit your requirements, consider the following points:

1. Are there regulations which could affect your choice of blocks, such as federal or state OSHA, elevator safety, mine safety, maritime, insurance, etc.?
2. What is the weight of the load, including any dynamics of impacts that add to load value? You must know this to determine the minimum required Working Load Limit value of the block.
3. How many parts of line are required? This can be determined given the load to be lifted and the line pull you have available. As an alternative, you could calculate the line pull required with a given number of parts of line and a given load weight (See "How to Figure Line Parts").
4. What is the size of line to be used? Multiply the available line pull by the desired safety factor for wire rope to determine the minimum catalog wire rope breaking strength; consult a wire rope catalog for the corresponding grade and diameter of wire rope to match. You should also consider fatigue factors that affect wire rope life. (See "Sheave Size & Wire Rope Strength").
5. What is the speed of the line? This will help you determine the type of sheave bearing necessary.  
  
There are several choices of bearings suitable for different applications, including:  
Common (Plain) Bore for very low line speeds and very infrequent use (high bearing friction).  
**Self Lubricating Bronze Bushings** for slow line speeds and infrequent use (moderate bearing friction).  
**Bronze Bushing** with pressure lubrication for slow line speeds and more frequent use at greater loads (moderate bearing friction).  
**Anti-friction Bearings** for faster line speeds and more frequent use at greater loads (minimum bearing friction).
6. What type of fitting is required for your application? The selection may depend on whether the block will be traveling or stationary. Your choices include single or multiple hooks with or without throat latches and shackles, which are the most secured load attachment. You should also decide whether the fitting should be fixed, swivel or swivel with lock. If it is a swivel fitting, then a selection of thrust bearing may be necessary. There are plain fittings with no bearings for positioning at no load, bronze bushed fittings for infrequent and moderate load swiveling, and anti-friction bearing equipped fittings for frequent load swiveling.
7. How will the block be reeved and does it require a dead end becket? (See "The Reeving of Tackle Blocks").

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- If the block is to be a traveling block, what weight is required to overhaul the line? (See "How to Determine Overhaul Weights").
- What is the fleet angle of the wire line? Line entrance and exit angles should be no more than 1-1/2 degree.
- How will the block be maintained? Do conditions in your application require special maintenance considerations? (See "Tackle Block Maintenance" and "Fitting Maintenance").

## Tackle Block Maintenance

Tackle Blocks must be regularly inspected, lubricated, and maintained for peak efficiency and extended usefulness. Their proper use and maintenance is equal in importance to other mechanical equipment. The frequency of inspection and lubrication is dependent upon frequency and periods of use, environmental conditions, and the user's good judgment.

### Inspection

As a minimum, the following points should be considered:

- Wear on pins or axles, rope grooves, side plates, bushing or bearings, and fittings (See Fitting Maintenance). Excessive wear may be a cause to replace parts or remove block from service.
- Deformation in side plates, pins and axles, fitting attachment points, trunnions, etc. Deformation can be caused by abusive service and / or overload and may be a cause to remove block from service.
- Misalignment or wobble in sheaves.
- Security of nuts, bolts, and other locking methods, especially after reassembly following a tear down inspection. Original securing method should be used; e.g., staking, set screw, cotter pin, cap screw.
- Pins retained by snap rings should be checked for missing or loose rings.
- Sheave pin nuts should be checked for proper positioning. Pins for tapered roller bearings should be tightened to remove all end play during sheave rotation. Pins for bronze bushings and straight roller bearings should have a running clearance of .031 inch per sheave of end play and should be adjusted accordingly.
- Hook or shackle to swivel case clearance is set at .031 to .062 at the factory. Increased clearance can result from component wear. Clearance exceeding .12 to .18 should necessitate disassembly and further inspection.
- Deformation or corrosion of hook and nut threads.
- Surface condition and deformation of hook (See Fitting Maintenance and ANSI B30.10.)
- Welded side plates for weld corrosion or weld cracking.
- Hook latch for deformation, proper fit and operation.

### Lubrication:

The frequency of lubrication depends upon frequency and period of product use as well as environmental conditions, which are contingent upon the user's good judgment.

Assuming normal product use, the following schedule is suggested when using lithium-base grease of a medium consistency.

### Sheave Bearings

**Tapered Roller Bearings** - Every 40 hours of continuous operation or every 30 days of intermittent operation.

**Roller Bearings** - Every 24 hours of continuous operation or every 14 days of intermittent operation.

**Bronze Bushings** - (Not Self Lubricated) - Every 8 hours of continuous operation or every 14 days of intermittent operation.

### Hook Bearings

**Anti Friction** - Every 14 days for frequent swiveling; every 45 days for infrequent swiveling.

**Bronze Thrust Bushing or No Bearing** - Every 16 hours for frequent swiveling; every 21 days for infrequent swiveling.

Tackle Block Maintenance also depends upon proper block selection (see "Loads on Blocks"), proper reeving (see "The Reeving of Tackle Blocks"), consideration of shock loads, side loading and other adverse conditions.

## Sheave Bearing Application Information

### Bronze Bushings

Bronze Bushings are used primarily for sheave applications using slow line speed, moderate load, and moderate use. The performance capability of a bearing is related to the bearing pressure and the bearing surface velocity by a relationship known as true PV (Maximum Pressure - Velocity Factor). The material properties of the Bronze Bushings furnished as standard in Crosby catalog sheaves are:

**(BP)** Maximum Bearing Pressure: 4500 PSI

**(BV)** Maximum Velocity at Bearing: 1200 FPM

**(PV)** Maximum Pressure Velocity Factor: 55000  
(It should be noted that due to material property relations, the maximum BP times the maximum BV is NOT equal to the maximum PV.)

### Formula for Calculating Bearing Pressure:

$$BP = \frac{\text{Line Pull} \times \text{Angle Factor}}{\text{Shaft Size} \times \text{Hub Width}}$$

Note: See "Angle Factor Multipliers."

### Formula for Calculating Bearing Velocity:

$$BV = \frac{PV}{BP}$$

### Formula for Calculating Line Speed:

$$\text{Line Speed} = \frac{BV (\text{Tread Dia.} + \text{Rope Dia.})}{\text{Shaft Dia.}}$$

Calculations can be made to find the maximum allowable line speed for a given total sheave load. If the required line speed is greater than the maximum allowable line speed calculated, then increase the shaft size and/or the hub width and recalculate. Continue the process until the maximum allowable line speed is equal to or exceeds the required line speed.

### Example

Using a 14 in. sheave (Stock # 917191; refer to wire rope sheave section of General Catalog for dimensions) with a 4600 lb. line pull and an 80° angle between lines determine maximum allowable line speed.

$$BP = \frac{(4600 \text{ lb.} \times 1.53)}{(1.50 \times 1.62)} = 2896 \text{ PSI}$$

(line pull) (angle factor) (Shaft Size) (Hub Width)

$$BV = 55000 \div 2896 = 19 \text{ FPM Allowable}$$

(PV Factor) (BP)

### Line Speed =

$$19 \times (12 + .75) \div 1.50 = 161.5 \text{ FPM ALLOWABLE}$$

(BV) ▲ ▲ (Shaft Dia.)  
(Tread Dia. + Rope Size)

If the application required a line speed equal to 200 FPM, then another calculation would be necessary. Trying another 14 in. sheave (stock #4104828) under the same loading conditions, the results are as follows:

$$BP = (4600 \text{ lbs.} \times 1.53) \div (2.75 \times 2.31) = 1108 \text{ PSI}$$

$$BV = 55000 \div 1108 = 50 \text{ FPM}$$

### Line Speed =

$$50 \times (12.25 + .75) \div 2.75 = 236 \text{ FPM ALLOWABLE}$$

**Common (Plain) Bore** - Very slow line speed, very infrequent use, low load.

**Roller Bearing** - Faster line speeds, more frequent use, greater load. Refer to --manufacturer's rating.

## Loads on Blocks

The Working Load Limit (WLL) for Crosby Group blocks indicates the maximum load that should be exerted on the block and its connecting fitting. This total load value may be different from the weight being lifted or pulled by a hoisting or hauling system. It is necessary to determine the total load being imposed on each block in the system to properly determine the rated capacity block to be used. A single sheave block used to change load line direction can be subjected to total loads greatly different from the weight being lifted or pulled. The total load value varies with the angle between the incoming and departing lines to the block.

The following chart indicates the factor to be multiplied by the line pull to obtain the total load on the block.

Angle Factor Multipliers			
Angle°	Factor	Angle°	Factor
0	2.00	100	1.29
10	1.99	110	1.15
20	1.97	120	1.00
30	1.93	130	.84
40	1.87	135	.76
45	1.84	140	.68
50	1.81	150	.52
60	1.73	160	.35
70	1.64	170	.17
80	1.53	180	.00
90	1.41	-	-



### Example A

(Calculations for determining total load value on single line system.) A gin pole truck lifting 1,000 lbs.



There is no mechanical advantage to a single part load line system, so winch line pull is equal to 1,000 lbs. or the weight being lifted.

### To determine total load on snatch block A:

$$A = 1,000 \text{ lbs.} \times 1.81 = 1,810 \text{ lbs.}$$

(line pull) (factor 50° angle)

### To determine total load on toggle block B:

$$B = 1,000 \text{ lbs.} \times .76 = 760 \text{ lbs.}$$

(line pull) (factor 135° angle)

### Example B

(Calculation for determining total load value for mechanical advantage system.)

Hoisting system lifting 1,000 lbs. using a traveling block. The mechanical advantage of traveling block C is 2.00 because two (2) parts of load line support the 1,000 lb. weight. (To determine single line pull for various bearing efficiency see "How to Figure Line Parts").

### To Determine Line Pull:

$$\text{Line Pull} = 1000 \text{ lbs.} \div 2.00 = 500 \text{ lbs.}$$

# Tackle Blocks



To determine total load on traveling block C:

$$C = 500 \text{ lbs.} \times 2.0 = 1,000 \text{ lbs.}$$

(line pull) (Factor 0° angle)

To determine total load on stationary block D:

$$D = 500 \text{ lbs} \times 1.87 + 500 \text{ lbs.} = 1,435 \text{ lbs.}$$

(line pull) (dead end load)  
(Factor 40° angle)

To determine total load on block E:

$$E = 500 \text{ lbs.} \times .84 = 420 \text{ lbs.}$$

(line pull) (Factor 130° angle)

To determine total load on block F:

$$F = 500 \text{ lbs.} \times 1.41 = 705 \text{ lbs.}$$

(line pull) (Factor 90° angle)

## The Reeving of Tackle Blocks

In reeving of tackle blocks, there are many methods. The method discussed below is referred to as "Right Angle" reeving. Please consult your rigging manual for other methods of reeving.

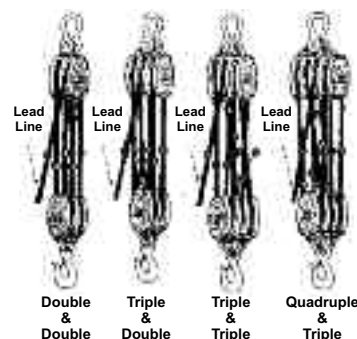
### Right Angle Reeving

In reeving a pair of tackle blocks, one of which has more than two sheaves, the hoisting rope should lead from one of the center sheaves of the upper block to prevent toppling and avoid injury to the rope. The two blocks should be placed so that the sheaves in the upper block are at right angles to those in the lower one, as shown in the following illustrations.

Start reeving with the becket or dead end of the rope. Use a shackle block as the upper one of a pair and a hook block as the lower one. Sheaves in a set of blocks revolve at different rates of speed. Those nearest the lead line revolve at the highest rate of speed and wear out more rapidly.

All sheaves should be kept well lubricated when in operation to reduce friction and wear.

### "Right Angle" Reeving Diagram



## Sheave Size & Wire Rope Strength

### Strength Efficiency

Bending wire rope reduces its strength. To account for the effect of bend radius on wire rope strength when selecting a sheave, use the table shown:

Ratio A	Strength Efficiency Compared to Catalog Strength in %
40	95
30	93
20	91
15	89
10	86
8	83
6	79
4	75
2	65
1	50

$$\text{Ratio A} = \frac{\text{Sheave Dia.}}{\text{Rope Dia.}}$$

### Example

To determine the strength efficiency of 1/2" diameter wire rope using a 10" diameter sheave:

$$\text{Ratio A} = \frac{10'' \text{ (sheave diameter)}}{1/2'' \text{ (wire rope diameter)}} = 20$$

Refer to ratio A of 20 in the table then check the column under the heading "Strength Efficiency Compared to Catalog Strength in %"...91% strength efficiency as compared to the catalog strength of wire rope.

### Fatigue Life

Repeated bending and straightening of wire rope causes a cyclic change of stress called "fatiguing." Bend radius affects wire rope fatigue life. A comparison of the relative effect of sheave diameter on wire rope fatigue life can be determined as shown:

Ratio B	Relative Fatigue Bending Life
30	10.0
25	6.6
20	3.8
18	2.9
16	2.1
14	1.5
12	1.1

$$\text{Ratio B} = \frac{\text{Sheave Diameter}}{\text{Rope Diameter}}$$

$$\text{Relative Fatigue Bending Life} = \frac{\text{Relative Fatigue Bending Life (Sheave \#1)}}{\text{Relative Fatigue Bending Life (Sheave \#2)}}$$

### Example

To determine the extension of fatigue life for a 3/4" wire rope using a 22.5" diameter sheave versus a 12" diameter sheave:

$$\text{Ratio B} = \frac{22.5'' \text{ (sheave diameter)}}{3/4'' \text{ (wire rope diameter)}} = 30$$

$$\text{Ratio B} = \frac{12 \text{ (sheave diameter)}}{3/4'' \text{ (wire rope diameter)}} = 16$$

The relative fatigue bending life for a ratio B of 16 is 2.1 (see above Table) and ratio B of 30 is 10.

$$\text{Relative Fatigue Bending Life} = \frac{10}{2.1} = 4.7$$

Therefore, we expect extension of fatigue life using a 22.5" diameter sheave to be 4.7 times greater than that of a 12" diameter sheave.

## How to Determine Overhauling Weights

To determine the weight of the block or overhaul ball that is required to free fall the block, the following information is needed: size of wire rope, number of line parts, type of sheave bearing, length of crane boom, and drum friction (use 50 lbs, unless other information is available).

Wire Rope Size (in)	Factor A - Wire Rope Wt Lbs. Per Ft., 6 x 19 IWRC	No. of Line Parts	Factor B - Roller Bearing Sheaves	Overhaul Factors Bronze Bushed Sheaves
3/8	.26	1	1.03	1.05
7/16	.35	2	2.07	2.14
1/2	.46	3	3.15	3.28
9/16	.59	4	4.25	4.48
5/8	.72	5	5.38	5.72
3/4	1.04	6	6.54	7.03
7/8	1.42	7	7.73	8.39
1	1.85	8	8.94	9.80
1-1/8	2.34	9	10.20	11.30
1-1/4	2.89	10	11.50	12.80

The Formula is:

$$\text{Required Block Wt.} = [(\text{Boom Length} \times \text{Factor A}) + \text{Drum Friction}] \times \text{Factor B}$$

### Example

To determine the required block or overhaul weight using 5 parts of 7/8" diameter wire rope, a 50 ft. boom and roller bearing sheaves:

$$\text{Required Block} = \left[ (50 \text{ ft.} \times 1.42) + 50 \text{ lbs} \right] \times 5.38 = 651 \text{ lbs.}$$

Wt. (Factor A) (Drum Friction)

## How to Figure Line Parts

To help figure the number of parts of line to be used for a given load, or the line pull required for a given load, (for example, use reeving diagram. Only numbered lines shall be used in the calculation) the following ratio table is provided with examples of how to use it.

Ratio A Bronze Bushed Sheaves	Ratio B Anti-Friction Bearing Sheaves	No. of Line Parts	Ratio A Bronze Bushed Sheaves	Ratio B Anti-Friction Bearing Sheaves	No. of Line Parts
.96	.98	1	8.52	9.79	11
1.87	1.94	2	9.11	10.60	12
2.75	2.88	3	9.68	11.40	13
3.59	3.81	4	10.20	12.10	14
4.39	4.71	5	10.70	12.90	15
5.16	5.60	6	11.20	13.60	16
5.90	6.47	7	11.70	14.30	17
6.60	7.32	8	12.20	15.00	18
7.27	8.16	9	12.60	15.70	19
7.91	8.98	10	13.00	16.40	20

$$\text{Ratio A or B} = \frac{\text{Total Load to be Lifted}}{\text{Single Line Pull (lbs.)}}$$

After calculating Ratio A or B, consult table to determine number of parts of line.

### Examples

To find the number of parts of line needed when weight of load and single line pull are known, and using Bronze Bushed Sheaves.

$$\text{Ratio A} = \frac{72,180 \text{ lbs. (load to be lifted)}}{8,000 \text{ lbs. (single line pull)}} = 9.02$$

Refer to ratio 9.02 in table or number nearest to it, then check column under heading "Number of Line Parts" = 12 parts of line to be used for this load.

To find the single line pull needed when weight of load and number parts of line are known, and using anti-friction bearing sheaves.

$$\text{SLP} = \frac{68,000 \text{ lbs. (load to be lifted)}}{7.32 \text{ (Ratio B of 8 part line)}} = 9,290 \text{ lbs.}$$

9,290 lbs. single line pull required to lift this load on 8 parts of line.

To find the lift capacity when the parts of line and single line pull are known, and using anti-friction bearing sheaves.

$$\frac{10,000 \text{ lbs. (single line pull)}}{x 4.71 \text{ (ratio B of 5 parts of line)}} = 47,100 \text{ lbs. (Lift Capacity)}$$

10,000 lbs. single line pull with 5 parts of line will accommodate 47,100 lbs. lift capacity.

**Blocks/Sheaves/Swivels**

**Blocks (Snatch)**

**All Alloy Snatch Blocks - McKissick®**

- Entire block made from heat treated alloy steel. Use of heat treated alloy gives block only 60% of the weight of blocks of comparable capacities.
- Available with a bronze bushed or roller bearing sheaves.
- Easy opening feature of "Champion" blocks retained.
- Pressure lube fittings.
- Hook and shackle assemblies can be interchanged.
- Can be furnished with SS-4055 hook latch.
- Fatigue rated.
- Blocks furnished with dual rated wireline sheaves.



402 Tail Board



416 w/Hook



417 w/Shackles

Sheave Dia. (in.)	Bearing Code	Wire Rope Size† (in)	WLL* (Metric tons)	Wt. Each (lbs)		
				416 Alloy with Hook	417 Alloy with Shackle	402 Alloy Tail Board
6	BB RB	3/4-7/8	12	26	27	15
8	BB RB	3/4-7/8	12	33	34	21
10	BB RB	3/4-7/8	12	41	42	29

\* Ultimate Load is 4x the Working Load Limit.

† May be furnished in other wire rope sizes.

NOTE: When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing & wire rope size.

**Champion Snatch Blocks - McKissick®**

- Hooks and side plates are forged alloy steel and heat treated.
- Shackles and yokes are forged and heat treated steel.
- Side plates are designed to eliminate possibility of rope jamming.
- Can be furnished with bronze bushings or sealed roller bearings.
- Opening feature permits insertion of rope while block is suspended from gin-pole.
- Can be furnished with SS-4055 hook latch. Pressure lube fittings.
- Fatigue rated.
- Hook and shackle assemblies can be interchanged.
- Blocks furnished with dual rated wireline sheaves.



406 Tail Board



420 w/Hook



421 w/Shackle

Sheave Dia. (in.)	Bearing Code	Wire Rope Size† (in)	WLL* (Metric tons)	Wt. Each (lbs.)		
				420 with Hook	421 with Shackle	406 Tail Board
6	BB RB	3/4-7/8	12	40	48	24
8	BB RB	3/4-7/8	15	51	57	30
10	BB RB	3/4-7/8	15	63	69	42

\* Ultimate Load is 4x the Working Load Limit.

† May be furnished in other wire rope sizes.

NOTE: When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing and wire rope size.

**Super Champion Snatch Blocks - McKissick®**

- Drop forged, heat treated swivel hook or swivel shackle.
- Hook and shackle assemblies on 8" through 14" sizes can be interchanged.
- Can be furnished with bronze bushings or roller bearings.
- 8" thru 14" 430 and 431 blocks have exclusive bolt retaining spring to assure no lost bolts.
- Can be furnished with SS-4055 hook latch.
- Fatigue rated.
- Pressure lube fittings.
- 8" and 10" models furnished with dual rated wireline sheaves.



407 Tail Board



Available w/hook latch.



430 w/Hook



431 w/Shackle

Sheave Dia. (in.)	Wire Rope Size† (in)	WLL* (Metric tons)	Wt. Each (lbs)		
			430 with Hook	431 with Shackle	407 Tail Board
8	1-1-1/8	20	75	87	42
10	1-1-1/8	20	89	101	55
12	1	20	103	115	70
12	1-1/8	20	103	115	70
14	1	20	123	135	90
14	1-1/8	20	123	135	90
18	1	25	240	260	165
18	1-1/8	25	240	260	165
20	1-1/8	30	375	400	215
20	1-1/4	30	375	400	215
24	1-1/8	30	450	475	290
24	1-1/4	30	450	475	290

\* Ultimate Load is 4x the Working Load Limit.

† May be furnished in other wire rope sizes.

NOTE: When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing and wire rope size.

**New Improved Light Champion Snatch Blocks- McKissick®**

- Forged alloy heat treated hooks.
- Forged steel swivel tees, yokes and shackles.
- Hook and shackle assemblies on 4-1/2" through 14" sizes can be interchanged.
- Can be furnished with bronze bushings or roller bearings.
- Opening feature permits insertion of rope while block is suspended from gin-pole.
- 3" thru 18" 418 and 419 blocks have exclusive bolt retaining spring to assure no lost bolts.
- Can be furnished with SS-4055 hook latch.
- Pressure lube fittings.
- Fatigue rated.
- 3" - 10" feature dual rated wireline sheaves.



404 Tail Board



418 w/Hook



419 w/Shackle

Sheave Dia. (in.)	Wire Rope Size† (in)††	WLL* (Metric tons)	Wt. Each (lbs)		
			418 with Hook	419 with Shackle	404 Tail Board
**3	5/16-3/8	2	4.5	4	2.7
**4-1/2	3/8-1/2	4	11.7	12	6.6
6	5/8-3/4	8	26.9	27.8	15
8	5/8-3/4	8	33	34	21
10	5/8-3/4	8	41	42	29
12	5/8	8	48	49	36
12	3/4	8	48	49	36
14	5/8	8	55	56	-
14	3/4	8	55	56	-
16	3/4	15	130	135	-
16	7/8	15	130	135	-
18	7/8	15	150	155	-
18	1	15	150	155	-

\* Ultimate Load is 4x the Working Load Limit (WLL).

\*\* Available in Bronze Bushed only 3" and 4-1/2" have self lubricating Bronze Brushing.

† Fitted with 1-1/4" ID Swivel Eye.

†† May be furnished in other wire rope sizes.

NOTE: When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing, and wire rope size.

**Light Champion Double Sheave Snatch Blocks- McKissick®**

- Light champion snatch block as a double sheave block.
- Drop forged swivel hook or swivel shackle.
- Can be furnished with bronze bushings or roller bearings.
- Opening feature permits easy insertion of wire rope in both sheaves with removal of one bolt.
- Can be furnished with SS-4055 hook latch.
- Pressure lube fittings.
- Fatigue rated.
- 4-1/2 - 10" models furnished with dual rated wireline sheaves.



408 Double w/Hook



409 Double w/Shackle

Wire Sheave Dia. (in.)	Bearing Code	Rope Size† (in)	WLL* (Metric tons)	Wt. Each (lbs)	
				408 with Hook	409 with Shackle
†4-1/2	BB	3/8-1/2	4	18	18
6	BB RB	5/8-3/4	12	45	50
8	BB RB	5/8-3/4	12	53	58
10	BB RB	5/8-3/4	12	70	75
12	BB RB	5/8	12	90	95
12	BB RB	3/4	12	90	95
14	BB RB	5/8	12	100	105
14	BB RB	3/4	12	100	105

\* Ultimate Load is 4x the Working Load Limit (WLL).

† Available in Bronze Bushed Only.

†† May be furnished in other Wire Rope sizes.

NOTE: When ordering, please specify: size, block number, hook or shackle, bronze bushed or roller bearing and wire rope size.

**Blocks/Sheaves/Swivels**

**Blocks (snatch)**

**One Sheave Snatch Block - Gunnebo Johnson**

**Sheave Bearing Options**

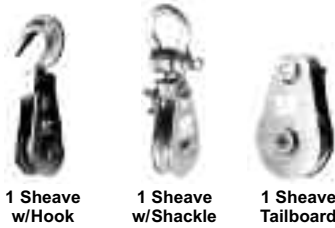
- Bronze Bushing Standard
- Optional Roller Bearings
- Hook Latches Optional

**Standard Features**

- Rugged and Reliable
- Easy-Open Side Plates
- 4 to 1 Design Factor

**Latches**

- 2 Ton = Light Duty Latch
- All Others = Johnson J-Latch Heavy Duty



1 Sheave w/Hook      1 Sheave w/Shackle      1 Sheave Tailboard

WLL (tons) & Wire Rope	Sheaves Dia. (in)	Johnson Model No.	Wt. (lbs)	Part No.	Johnson Model No.	Wt. (lbs)	Part No.	Johnson Model No.	Wt. (lbs)	Part No.	
			<b>W/ SWIVEL HOOK</b>			<b>W/ SWIVEL SHACKLE</b>			<b>W/ TAILBOARD</b>		
(MIDGET) 2 Ton	3	SB2S3BH	6	471120	SB2S3BS	6	471121	SB2S3BT	4	471124	
5/16- 3/8 Wire Rope	4	SB4S4BH	15	471125	SB4S4BS	15	471126	SB4S4BT	10	471133	
	6	SB4S6BH	18	471127	SB4S6BS	18	471128	SB4S6BT	13	471136	
	8	SB4S8BH	22	471129	SB4S8BS	22	471130	SB4S8BT	17	471137	
4 Ton	10	SB4S10BH	34	471197	SB4S10BS	34	471182	SB4S10BT	29	471222	
3/8-1/2 Wire Rope	12	SB4S12BH	39	471154	SB4S12BS	39	471220	SB4S12BT	34	471853	
	14	SB4S14BH	41	471245	SB4S14BS	41	471238	SB4S14BT	36	472262	
8 Ton	6	SB8S6BH	29	458923	SB8S6BS	29	458908	SB8S6BT	17	458916	
5/8-3/4 Wire Rope	8	SB8S8BH	36	458924	SB8S8BS	36	458909	SB8S8BT	24	458917	
	10	SB8S10BH	40	458925	SB8S10BS	40	458910	SB8S10BT	30	458918	
	12	SB8S12BH	46	458926	SB8S12BS	46	458911	SB8S12BT	34	458919	
	14	SB8S14BH	58	458927	SB8S14BS	58	458912	SB8S14BT	47	458935	
12 Ton	6	SB12S6BH	42	450816	SB12S6BS	42	450818	SB12S6BT	22	450886	
3/4-7/8 Wire Rope	8	SB12S8BH	53	450820	SB12S8BS	53	450822	SB12S8BT	33	450888	
	10	SB12S10BH	66	450824	SB12S10BS	66	450826	SB12S10BT	45	450890	
	12	SB12S12BH	75	450828	SB12S12BS	75	450830	SB12S12BT	55	450892	
	14	SB12S14BH	92	450832	SB12S14BS	92	450834	SB12S14BT	71	450894	
	16	SB12S16BH	119	450836	SB12S16BS	119	450838	SB12S16BT	99	453427	
22 Ton	8	SB22S8BH	102	450840	SB22S8BS	102	450842	SB22S8BT	50	450896	
1-1/8 Wire Rope	10	SB22S10BH	125	450844	SB22S10BS	125	450846	SB22S10BT	72	450898	
	12	SB22S12BH	131	450848	SB22S12BS	131	450850	SB22S12BT	79	450900	
	14	SB22S14BH	149	450852	SB22S14BS	149	450854	SB22S14BT	97	450902	
	16	SB22S16BH	178	450858	SB22S16BS	178	450856	SB22S16BT	126	453429	
	18	SB22S18BH	214	450862	SB22S18BS	214	450860	SB22S18BT	162	453431	
30 Ton	20	SB30S20BH	341	450865	SB30S20BS	341	450761	SB30S20BT	231	453433	
1-1/8-1-1/4 Wire Rope	24	SB30S24BH	461	450869	SB30S24BS	461	450867	SB30S24BT	351	453435	

		<b>W/EYE</b>		<b>KEY TO SNATCH BLOCK MODEL NUMBERS</b>						
(MIDGET) 2 Ton	3	SB2S3BE	6	471131	<b>SB</b>	<b>12</b>	<b>S</b>	<b>6</b>	<b>B</b>	<b>H</b>
5/16-3/8 Wire Rope	4	SB3S4BE	15	450766	Snatch Block	WLL Tons	No. of Sheaves	Sheave O.D. In.	Bearing Type	Fitting Type
	6	SB3S6BE	18	450772	SB - Single Block	S = 1	D = 2	B - Bronze Bushed	H = Hook	S = Shackle
	8	SB3S8BE	22	450778	DB - Double Block			R - Roller Bearing	E = Eye	T = Tail-Board
3 Ton	10	SB3S10BE	34	450782	TD - Top Dead-End					(no fitting)
3/8-1/2 Wire Rope	12	SB3S12BE	39	452173						
	14	SB3S14BE	41	450788						

To Order Please Specify: Model No. / Wire Rope Size (other than standard) and Hook Latch, if desired.

**Double Sheave Snatch Block - Gunnebo Johnson**

WLL (tons) & Wire Rope	Sheave Dia. (in)	Johnson Model No.	Wt. (lbs)	Part No.	Johnson Model No.	Wt. (lbs)	Part No.	
			<b>Top Dead End</b>		<b>w/Swivel Hook</b>		<b>w/Swivel Shackle</b>	
8 Ton	4	DB8D4BH	28	450908	DB8D4BS	26	450910	
3/8 - 1/2 Wire Rope	6	DB8D6BH	34	450912	DB8D6BS	34	450914	
12 Ton	6	DB12D6BH	50	450916	DB12D6BS	50	450922	
5/8 - 3/4 Wire Rope	8	DB12D8BH	54	450918	DB12D8BS	54	450924	
	10	DB12D10BH	72	450920	DB12D10BS	72	450926	
	12	DB12D12BH	81	450928	DB12D12BS	81	450930	
	14	DB12D14BH	104	450932	DB12D14BS	104	450934	
15 Ton	6	DB15D6BH	61	471773	DB15D6BS	61	450938	
3/4 - 7/8 Wire Rope	8	DB15D8BH	82	471775	DB15D8BS	82	450942	
	10	DB15D10BH	94	471776	DB15D10BS	94	450946	
	12	DB15D12BH	123	471778	DB15D12BS	123	450950	
	14	DB15D14BH	150	471779	DB15D14BS	150	451172	
22 Ton	8	DB22D8BH	132	450952	DB22D8BS	132	450954	
1 - 1-1/8 Wire Rope	10	DB22D10BH	171	450956	DB22D10BS	171	450958	
	12	DB22D12BH	173	450960	DB22D12BS	173	450962	
	14	DB22D14BH	201	451174	DB22D14BS	201	451176	



Two Sheave w/Hook



Two Sheave w/Shackle

**Top Dead-End Snatch Block - Gunnebo Johnson**

WLL (tons) & Wire Rope	Sheave Dia. (in)	Johnson Model No.	Wt. (lbs)	Part No.	Johnson Model No.	Wt. (lbs)	Part No.	
			<b>Top Dead End</b>		<b>w/Swivel Hook</b>		<b>w/Swivel Shackle</b>	
3 Ton	4	TD3S4BH	18	471830	TD3S4BS	18	471804	
3/8 - 1/2 Wire Rope	6	TD3S6BH	21	471797	TD3S6BS	21	471805	
	8	TD3S8BH	25	471803	TD3S8BS	25	471860	
8 Ton	6	TD8S6BH	32	458905	TD8S6BS	32	458902	
5/8 - 3/4 Wire Rope	8	TD8S8BH	39	458949	TD8S8BS	39	458930	
	10	TD8S10BH	42	458906	TD8S10BS	42	458950	
	12	TD8S12BH	52	458907	TD8S12BS	52	458903	
	14	TD8S14BH	65	450992	TD8S14BS	65	471167	
12 Ton	6	TD12S6BH	40	451000	TD12S6BS	40	451002	
3/4 - 7/8 Wire Rope	8	TD12S8BH	60	451004	TD12S8BS	60	451006	
	10	TD12S10BH	72	451008	TD12S10BS	72	451010	
	12	TD12S12BH	84	450996	TD12S12BS	84	450998	
	14	TD12S14BH	102	451012	TD12S14BS	102	451014	
22 Ton	22	TD22S14BH	163	450964	TD22S14BS	163	450966	



Top Dead-End w/Hook



Top Dead-End w/Shackle

**Steel Shell Snatch Blocks for Wire Rope - Western®**

- Semi-Circular guard in shell over sheave prevents wire from slipping between shell and sheave. This feature also greatly strengthens the plates in shell.
- Steel sleeve over center pin gives a bearing surface of larger diameter. This sleeve is held tightly between the plates and makes the block extremely rigid.



T-940-B Drop Link



T-941-B Self-Locking

Block Size (in.)	Wire Rope Size (in.)	WLL* (tons)		Wt. Each (lbs)	
		940 Drop Link	941 Self Locking	940 Drop Link	941 Self Locking
4	3/8	-	1	-	6.50
6	1/2	1-1/2	2	16.00	16.00
8	5/8	2-1/2	3	28.00	30.00
10	5/8	3-1/2	4	46.00	47.00
12	3/4	4-1/2	5	75.00	77.00

\* Ultimate Load is 4x the Working Load Limit.



G-941-B Self-Locking Snatch Shackle

**Heavy Steel Shell Self-Locking Snatch Blocks for Wire Rope - Western®**

- For trucking, tractors, rotary work, and logging.
- Extra heavy drop forged parts.
- Circular guards pressed in shell and extending well down over edge of sheave prevent wire from jamming between shell and sheave. Rounded edges of shell protect the rope. These features also greatly stiffen shell plates.
- Extra large center pins are Alemite-lubricated. Heavy steel sheave has bronze bushing that is lubricated through center pin.
- Steel sleeve over center pin gives a bearing surface of larger diameter. This sleeve is held tightly between the plates and makes the block extremely rigid.



F-961 w/Swivel Eye



G-961 w/Swivel Shackle



T-961 Self-Locking Type w/Hook

Block Size (in.)	Fitting	Wire Rope (in.)	WLL* (tons)	Wt. Each (lbs.)
6	T	5/8	10	44
8	T	7/8	14	80
6	F	5/8	10	45
8	F	7/8	14	80
6	G	5/8	10	45
8	G	7/8	14	80

\* Ultimate Load is 4x the Working Load Limit.

**Blocks/Sheaves/Swivels**

**Blocks (Snatch/Gin/Wood/Steel)**

**Team Snatch Blocks for Wire Rope - Western®**

- With Drop Forged Swivel Hook and Extra Large Lubricated Center Pin.
- Steel Sleeve over center pin gives a bearing surface of larger diameter. This sleeve is held tightly between the plates and makes the block extremely rigid.

Block Size (in)	WLL* (in)	Wire Rope Size (in)	Wt. Each (lbs)
6	7	5/8	28
8	10	3/4	55
10	12	7/8	80
12	14	7/8	100

Bearing Code: S - Bronze Self-lubricating Steel Sheave.  
\* Ultimate Load is 4x the Working Load Limit.

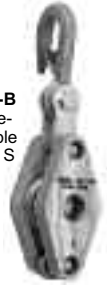


T-924-S

**Regular Wood Blocks for Manila Rope - Western®**

- Laser cut side plates
- Grade 5 bolts secured with lock washers and staked nuts.
- Bronze bushed sheaves with larger bearing diameter for extended block life.
- Becketts furnished on all blocks.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these blocks meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

HS-21-B  
-Single-Available in N & S



Fittings: HS—Loose Side Hook w/Latch N—Loose Swivel Latch Hook  
S—Round Pin Anchor Shackles

Block Size (in)	Fitting	Single Sheave	Double Sheave	Triple Sheave
		21B Stock No	22B Stock No	23B Stock No
4	HS	603831	604634	605438
5	HS	603859	604652	605456
6	HS	603877	604670	605474
8	HS	603911	604714	605517
4	N	606437	606838	607230
5	N	606455	606856	607258
6	N	606473	606874	607276
8	N	606516	606918	607310
4	S	610039	611635	613232
5	S	610057	611653	613250
6	S	610075	611671	613278
8	S	610119	611715	613312

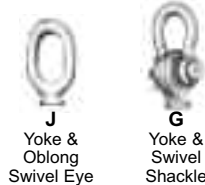
**Snatch Block w/Removable Sheave**

- Most styles available as Snatch Block w/ Removable Sheave. To order add "-SN" to product no. ex: "02548-SN"
- All products are also available on carded skin pack at no extra cost!
- Packing includes product description on front and product information on reverse side along with UPC labeling. To order, add "-C" to product no. ex: "01548-C"



**Drop Link & Self Locking Snatch Blocks for Manila Rope - Western®**

- All styles have drop forged heads and links.
- Edges of shell are rounded to protect rope.
- Steel sleeve over center pin gives a bearing surface of larger diameter. The sleeve is held tightly between the plates and makes blocks extremely rigid.



J Yoke & Oblong Swivel Eye

G Yoke & Swivel Shackles

**Drop Link**

Block Size (in.)	Sheave Size (in.)			Manila Rope Size (in)	WLL* (lbs)	Wt. Each (lbs)
	Out-side Dia.	Rim Thkns.	Bearing Dia.			
6	3.00	1.13	.75	3/4-7/8	2400	7
8	4.50	1.38	.88	1-1/8	4800	13
10	5.75	1.88	1.00	1-1/4	6600	25
12	6.75	2.13	1.00	1-1/2	7600	34

\*Ultimate Load is 4x the Working Load Limit.



T-385-B

T-390-B

**Self Locking**

Block Size (in.)	Sheave Size (in.)			Manila Rope Size (in)	WLL* (lbs)	Wt. Each (lbs)
	Out-side Dia.	Rim Thkns.	Bearing Dia.			
6	3.00	1.13	.75	3/4-7/8	3000	8
8	4.50	1.38	.88	1-1/8	5000	15
10	5.75	1.88	1.00	1-1/4	8000	28
12	6.75	2.13	1.00	1-1/2	10000	38

\*Ultimate Load is 4x the Working Load Limit.



T-386-B

T-391-B

**Gin Blocks for Manila Rope - Western®**

- For light hoisting by Roofers and Contractors
- Furnished with drop forged swivel latch hooks. Can be furnished with SS-4055 hook latch.

Block Size (in)	Sheave Size (in.)			Manila Rope Size (in)	WLL* (lbs)	Wt. Each (lbs)
	Out-side Dia.	Rim Thkns	Bearing Dia.			
8	8.00	1.25	.75	7/8	1000	9.0
10	10.00	1.25	.88	1	1000	9.8
12	12.00	1.38	.88	1	1000	12.7
14	14.00	1.50	1.00	1	1000	20.0

\* Ultimate Load is 3x the Working Load Limit.

Bearing Code: C—Common Iron, R—Roller, B—Self-Lubricating Bronze Bushed



T-350-C

**Standard Steel Blocks for Manila Rope - Western®**



Fittings: HS—Loose Side Hook w/Latch

Bearing Code: C—Common Iron, R—Roller, B—Bronze Bushed Self Lubricating

Block Size (in)	Fitting	Single Sheave			Double Sheave		Triple Sheave	
		261 C Stock No. Painted	261 B Stock No. Painted	261 C Stock No. Painted	262 C Stock No. Painted	262 B Stock No. Painted	263 B Stock No. Painted	263 R Stock No. Painted
3	HS	666005	666808	666602	666407	666201	667406	667200
4	HS	666023	666826	666620	666425	666229	667424	667228
5	HS	666041	666844	—	666443	666247	667442	667246
6	HS	666069	666862	—	666461	666265	667460	667264
8	HS	666103	666906	—	666504	666309	667503	667308

Block Size (in)	Out-side Dia.	Rim Thick-ness	Manila Rope Dia. (in)	WLL* (lbs)			Wt. Each (lbs)		
				261 Single	262 Double	263 Triple	261 Single	262 Double	263 Triple
3	1-3/4	1/2	3/8	500	800	1200	0.75	1.37	1.63
4	2-1/4	5/8	1/2	900	1400	1800	1.38	3.21	3.25
5	3	3/4	5/8	1200	1800	2400	2.25	3.88	5.00
6	3-1/2	1	3/4	1800	2500	3200	3.75	6.00	9.50
8	4-3/4	1-1/8	7/8-1	2800	3800	4800	7.13	10.75	14.75

\*Ultimate Load is 3x the Working Load Limit.

5  
Blocks/  
Sheaves/  
Swivels

**Blocks/Sheaves/Swivels**

# Blocks (Lead/Flag/Deck) & Sheaves

## Horizontal Lead Block - Western®

- Available painted or galvanized.
- Fitted with steel sheaves.
- Self-Lubricated Bronze Bushed.



Sheave Dia. (in)	Resultant WLL* (tons)	Wire Rope Dia. (in)	Wt. Each (lbs)	Dimensions (in)		
				A	B	C
6	2	3/8	12.25	11.00	6.38	2.50
8	2-1/2	1/2	21.00	13.00	8.50	3.00
10	3	5/8	36.00	15.00	10.50	3.25
12	4	3/4	61.00	17.00	12.50	4.00
14	5	7/8	96.00	19.00	14.50	4.00

\*Ultimate load is 4x Resultant Working Load Limit.

## Vertical Lead Block - Western®

- Available painted or galvanized.
- Fitted with steel sheaves.
- Self-Lubricated Bronze Bushed.

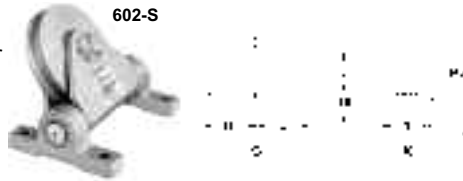


Sheave Dia. (in)	Resultant WLL* (tons)	Wire Rope Dia. (in.)	Wt. Each (lbs)	Diameter (in)			
				C	D	E	F
6	2	3/8	10.00	3.50	6.00	5.50	7.00
8	2-1/2	1/2	24.50	4.88	8.00	6.75	9.75
10	3	5/8	31.50	6.38	10.00	7.75	11.75
12	4	3/4	63.00	7.25	12.00	8.00	15.25
14	5	7/8	98.00	8.75	14.00	9.00	18.00

\*Ultimate load is 4 times Resultant Working Load Limit.

## Flag Block - Western®

- Base plates are drilled.
- Available painted or galvanized.
- Fitted with steel sheaves.
- Self-Lubricated Bronze Bushed.

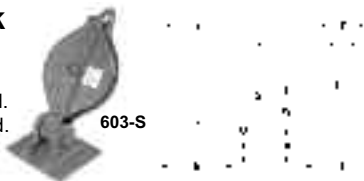


Sheave Dia. (in)	Resultant WLL* (tons)	Wire Rope Dia. (in)	Wt. Each (lbs)	Diameter (in)								
				G	H	J	K	L	M	N	P	R
6	2	3/8	17.00	9.00	3.75	3.88	6.25	2.88	1.62	.75	.56	4.75
8	2-1/2	1/2	31.50	11.38	4.75	5.12	7.00	3.62	2.00	1.00	.69	5.50
10	3	5/8	42.00	13.38	5.69	6.06	7.00	4.62	2.00	1.00	.69	5.50
12	4	3/4	115.00	17.25	7.25	7.75	10.75	5.38	3.12	1.38	.81	7.50
14	5	7/8	136.50	19.25	8.50	8.75	10.75	6.50	3.12	1.38	.81	7.50

\*Ultimate load is 4x Resultant Working Load Limit.

## Hinged Lead Block - Western®

- Base plates are not drilled.
- Available painted or galvanized.
- Self-Lubricated Bronze Bushed.



Sheave Dia. (in)	Resultant WLL* (tons)	Wire Rope Dia. (in)	Wt Each (lbs)	Dimensions (in)							
				S	T	U	V	W	X	Y	Z
6	2	3/8	30.00	6.00	4.50	.50	2.00	5.81	12.80	6.75	3.25
8	2-1/2	1/2	34.00	8.00	6.75	.38	2.62	6.56	15.48	9.00	3.75
10	3	5/8	45.00	12.00	12.00	.50	2.75	8.00	18.25	10.75	4.38
12	4	3/4	75.00	12.00	12.00	.50	2.75	9.50	18.63	13.00	4.58
14	5	7/8	100.00	12.00	12.00	.50	2.75	10.75	20.63	15.00	4.81

\*Ultimate load is 4x Resultant Working Load Limit.

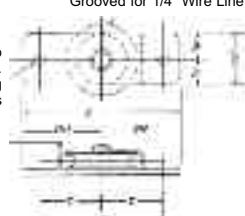
## Deck Blocks - 2" and 2-1/2"



2-1/2" Diameter Sheave Grooved for 1/4" Wire Line

Two 9/32" Dia. Mounting Holes

Model No.	Max Cable Size (in)	WLL (lbs)	Wt. Each (lbs)
D00208	3/16	480	1.00
D00258	1/4	550	1.25



## Anchor Fairleaders - McKissick® Deck Mounted

- Barrel and sheaves equipped with sealed double row tapered bearings.
- Extra heavy construction, built to withstand breaking strength of indicated rope at 90 degree sheave wrap and 45 degree head swing.
- All bearings Alemite-Lubricated.
- Custom Anchor Fairleader sets available.



Fig. No.	Stock No.	Sheave Dia. (in)	Wire Rope Size (in)	Wt. Each (lbs)
B-10-D	8073880	10	1	300
B-12-D	8073924	12	1-1/4	600
B-16-D	8073979	16	1-1/2	1300
B-20-D	8074022	20	1-3/4	2500
B-24-D	8074111	24	2	3600
B-30-D	8097347	30	2-1/2	12000

Fig. No.	Dimensions (in)											
	A	B	C	D	E	F	G	H	J	K	L	M
B-10-D	10.75	4.50	3.50	.75	5.00	10.13	6.75	21.88	5.06	9.50	4.50	11.00
B-12-D	12.75	5.00	5.00	.75	6.38	12.38	8.00	26.75	6.06	11.00	5.25	13.00
B-16-D	17.00	7.00	6.00	1.00	8.44	17.75	10.75	36.94	8.06	18.00	8.00	20.00
B-20-D	21.00	9.00	8.50	1.00	11.25	21.94	12.75	45.94	10.06	21.00	10.00	24.50
B-24-D	25.25	11.00	10.00	1.25	12.75	26.50	14.75	54.00	12.06	23.00	11.00	27.00
B-30-D	33.00	13.00	10.00	2.00	14.13	33.88	20.50	68.50	15.06	30.00	15.00	30.00

## Horizontal and Vertical Lead Sheaves

### Deck Mounted - McKissick®

Guide and control your deck lines with McKissick's deck-mounted wire rope sheaves. Built to your specific requirements.

- Extra heavy construction, built to withstand breaking strength of indicated rope (XIP, IWRC).
- Flame-hardened sheaves, machined grooves for proper rope size.

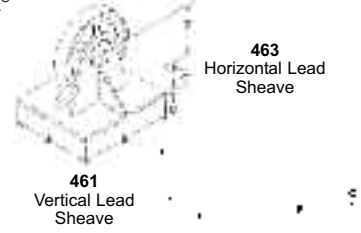


Fig. No.	Stock No.	Sheave Dia. (in)	Std. Wire Line Size (in)	Wt. Each (lbs)	Dimensions (in)			
					A	B	C	D
461-18	239753	18	7/8	500	12.00	20.00	11.00	1.50
461-24	131574	24	1-1/4	500	15.00	26.00	14.00	1.50
461-26	238120	26	1-1/2	660	16.00	28.00	15.00	1.50
461-36	148389	36	1-5/8	850	20.00	36.00	19.50	2.00
461-40	136285	40	2	2006	23.00	42.00	22.50	2.00
461-42	130753	42	2-1/2	4000	28.00	52.00	25.50	2.50
463-26	4440359	26	1	988	33.00	33.00	3.75	1.50
463-30	1404377	30	1-1/4	1225	37.00	37.00	3.50	1.50
463-36	146522	36	1-1/2	1900	43.00	43.00	3.50	1.50
463-42	1406525	42	1-3/4	2975	50.00	50.00	4.38	2.00
463-48	131583	48	2	3600	55.00	55.00	4.63	2.00
463-60	123164	60	2-1/2	6400	68.00	68.00	5.75	2.00

Furnish the following important information when ordering: A, B and C dimensions./ Line pull in pounds and degree of wrap./ Line speed./ Diameter of wire rope./ Roller bearings, bronze bushings, or sealed double row tapered bearings.

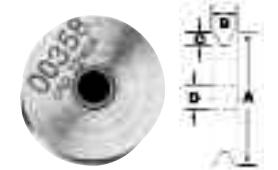
## Sheaves w/Bronze Bushings 1-1/2" - 3-1/2"

Model No.	Max. Cable Size	Dimensions (in)							WLL (lbs)	Wt. Each (lbs)
		A	B	C	D	E	F	O		
00158	3/16	1-1/2	1	1/2	15/32	7/16	5/16	3/16	525	.2
00208	3/16	2	1-1/2	1/2	15/32	7/16	5/16	3/16	600	.3
00258	1/4	2-1/2	2	1/2	15/32	7/16	5/16	1/4	685	.5
00308	1/4	3	2-1/2	1/2	15/32	7/16	5/16	1/4	800	.8
00308-5/16	5/16	3	2-1/2	1/2	15/32	7/16	5/16	1/4	800	.8
00358	5/16	3-1/2	3	3/4	11/16	5/8	15/32	5/16	1550	1.3
00358-3/8	3/8	3-1/2	3	3/4	11/16	5/8	15/32	5/16	1550	1.3

## Sheaves 4", 5" & 6"

Part No.	Diameter (in.)				Cable Size (in)	Wt. (lbs)
	A	B	C	D		
04250	4	17/32	3/16	7/8	3/16 & 1/4	1.69
04375	4	21/32	5/16	7/8	5/16 & 3/8	1.83
04500	4	25/32	7/16	7/8	7/16 & 1/2	2.00
05375	5	7/8	5/16	1-1/4	5/16 & 3/8	3.94
05500	5	7/8	7/16	1-1/4	7/16 & 1/2	3.56
06075	6	7/8	5/16	1-1/4	5/16 & 3/8	6.00
06500	6	7/8	7/16	1-1/4	7/16 & 1/2	5.63

NOTE: Bushings Purchased Separately



5 Blocks/Sheaves/Swivels

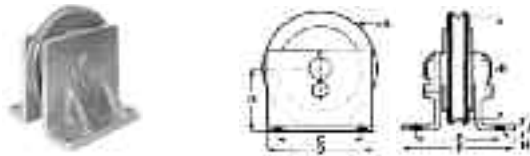
**Blocks/Sheaves/Swivels**

**Blocks (Directional)**

**DIRECTIONAL BLOCKS W/STEEL SHEAVES & BEARINGS**

- **High Quality** – Steel sheaves are precision made from the highest quality fine-grain steel. They're tough, hassle free and they last longer.
- **High Strength with Low Weight** – Steel sheaves are stronger and up to 50 percent lighter. They're easy to handle and install.
- **High Efficiency Bearings** – Steel sheaves are fit with high-efficiency, deep-groove, double ball bearings. You get far less friction, smoother rope motion and longer life.
- **Exceptional Arc of Support** – Steel sheaves ensure that the shape of your rope is maintained under normal load conditions.
- **High Sheave to Rope Diameters** – With a minimum diameter of 16:1, the rope's bending stress is reduced for longer life.
- **Work Hardened** – Rope grooves are hardened during forming, increasing the life of sheave & rope.
- **Lifetime Lubrication** – Precision sealed, bearings stay lubricated ensuring low maintenance.

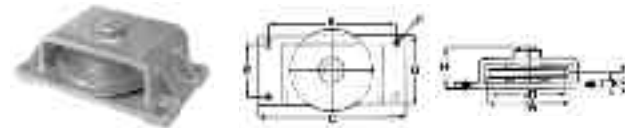
**Vertical Directional Blocks w/Steel Sheaves & Bearings**



Model No.	VB3500	VB7000	VB10500	VB16000	VB23000	VB31000	VB41000	
<b>WLL</b>	<b>lb</b> 3500 <b>kg</b> 1587	7000 3175	10500 4772	16000 7272	23000 10455	31000 14090	41000 18636	
<b>Sheave Dia.</b>	<b>in</b> 4.25 <b>mm</b> 109	6.00 152	8.00 203	10.00 254	12.00 305	14.00 357	16.00 406	
<b>Rope Size</b>	<b>in</b> 1/4* <b>mm</b> 6*	3/8 10	1/2 13	5/8 16	3/4 19	7/8 22	1 25	
<b>Dim. (mm)</b>	<b>A</b>	109	152	203	254	305	357	406
	<b>B</b>	95	136	179	222	265	313	362
	<b>C</b>	60	83	114	153	216	267	292
	<b>D</b>	89	127	165	203	280	330	368
	<b>E</b>	87	122	151	185	219	253	286
	<b>F</b>	125	167	202	236	283	317	362
	<b>G</b>	61	86	112	143	165	194	223
	<b>H</b>	10.3	13.5	17.5	21	27	27	33
	<b>J</b>	6.4	9.6	13	16	19	22	26
<b>Wt.</b>	<b>lbs</b> 6 <b>kg</b> 2.7	11 5	18 8.2	54 24.5	80 36.3	128 58	229 104	

\*The VB3500 can be supplied with groove for 1/8 of an inch (3 mm) wire rope. Sheave diameters are available up to 28 inches (711 mm). Call us for complete details. All specifications are subject to change without notice.

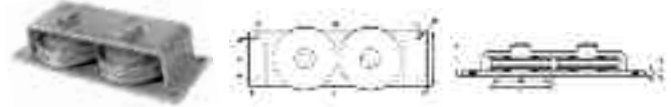
**Horizontal Directional Blocks w/Steel Sheaves and Bearings**



Model No.	HB3500	HB7000	HB10500	HB16000	HB23000	HB31000	HB41000	
<b>WLL</b>	<b>lb</b> 3500 <b>kg</b> 1587	7000 3175	10500 4772	16000 7272	23000 10455	31000 14090	41000 18636	
<b>Sheave Dia.</b>	<b>in</b> 4.25 <b>mm</b> 109	6.00 152	8.00 203	10.00 254	12.00 305	14.00 357	16.00 406	
<b>Rope Size</b>	<b>in</b> 1/4* <b>mm</b> 6*	3/8 10	1/2 13	5/8 16	3/4 19	7/8 22	1 25	
<b>Dim. (mm)</b>	<b>A</b>	109	152	203	254	305	357	406
	<b>B</b>	160	222	286	326	445	514	597
	<b>C</b>	184	248	324	413	508	590	660
	<b>D</b>	95	136	179	222	265	313	362
	<b>E</b>	76	114	146	178	216	242	305
	<b>F</b>	9	13	17	20	27	33	40
	<b>G</b>	102	140	184	229	279	318	368
	<b>H</b>	70	102	121	146	165	203	223
	<b>J</b>	25	33	38	45	52	60	67
<b>K</b>	6	10	13	16	19	22	25	
<b>Wt.</b>	<b>lbs</b> 8.3 <b>kg</b> 3.8	15 6.8	25 11.4	66 30	100 45.4	170 77	316 144	

\*The HB3500 can be supplied with groove for 1/8 of an inch (3 mm) wire rope. Sheave diameters are available up to 28 inches (711 mm). Ask our representatives for details. All specifications are subject to change without notice.

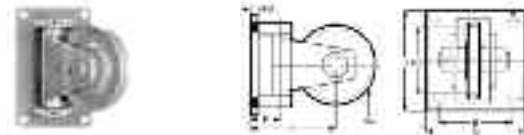
**Fairlead Assembly w/Steel Sheaves and Bearings**



Model No.	FA3500	FA7000	FA10500	FA16000	FA23000	FA31000	FA41000	
<b>WLL</b>	<b>lb</b> 3500 <b>kg</b> 1587	7000 3175	10500 4772	16000 7272	23000 10455	31000 14090	41000 18636	
<b>Sheave Dia.</b>	<b>in</b> 4.25 <b>mm</b> 109	6.00 152	8.00 203	10.00 254	12.00 305	14.00 357	16.00 406	
<b>Rope Size</b>	<b>in</b> 1/4* <b>mm</b> 6*	3/8 10	1/2 13	5/8 16	3/4 19	7/8 22	1 25	
<b>Dim. (mm)</b>	<b>A</b>	109	152	203	254	305	357	406
	<b>B</b>	272	380	496	625	760	880	1016
	<b>C</b>	296	406	534	676	825	956	1096
	<b>D</b>	95	136	179	222	265	313	362
	<b>E</b>	76	114	146	178	216	242	305
	<b>F</b>	9	13	17	20	27	33	40
	<b>G</b>	102	140	184	229	279	318	368
	<b>H</b>	70	102	121	146	165	203	223
	<b>J</b>	25	33	38	45	52	60	67
<b>K</b>	6	10	13	16	19	22	25	
<b>Wt.</b>	<b>lbs</b> 14.8 <b>kg</b> 6.7	26.5 12	44 20	117 53	177 80	300 136	560 254	

\*The FA3500 can be supplied with groove for 1/8 of an inch (3 mm) wire rope. Sheave diameters are available up to 28 inches (711 mm). Ask our representatives for details. Specifications are subject to change without notice.

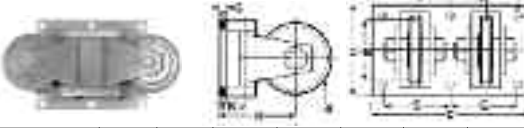
**Single Swivel Directional Blocks w/Steel Sheaves and Bearings**



Model No.	SS3500	SS7000	SS10500	SS16000	SS23000	SS31000	SS41000	
<b>WLL</b>	<b>lb</b> 3500 <b>kg</b> 1587	7000 3175	10500 4772	16000 7272	23000 10455	31000 14090	41000 18636	
<b>Sheave Dia.</b>	<b>in</b> 4.25 <b>mm</b> 109	6.00 152	8.00 203	10.00 254	12.00 305	14.00 357	16.00 406	
<b>Rope Size</b>	<b>in</b> 1/4* <b>mm</b> 6*	3/8 10	1/2 13	5/8 16	3/4 19	7/8 22	1 25	
<b>Dim. (mm)</b>	<b>A</b>	109	152	203	254	305	357	406
	<b>B</b>	95	136	179	222	265	313	362
	<b>C</b>	120	180	240	300	360	420	480
	<b>D</b>	130	195	260	325	390	450	520
	<b>E</b>	90	135	180	225	270	320	360
	<b>F</b>	100	150	200	250	300	350	400
	<b>G</b>	6	9	12	16	18	20	25
	<b>H</b>	107	160	214	268	320	376	428
	<b>J</b>	12	14	14	16	20	26	33
<b>K</b>	36	54	72	90	108	130	144	
<b>Wt.</b>	<b>lbs</b> 10 <b>kg</b> 4.5	25 11.3	40 18.1	121 55	180 82	290 132	450 204	

\*The SS3500 can be supplied with groove for 1/8 of an inch (3 mm) wire rope. Sheave diameters are available up to 28 inches (711 mm). Ask our representatives for details. Specifications are subject to change without notice.

**Double Swivel Directional Blocks w/Steel Sheaves and Bearings**



Model No.	DS3500	DS7000	DS10500	DS16000	DS23000	DS31000	DS41000	
<b>WLL</b>	<b>lb</b> 3500 <b>kg</b> 1587	7000 3175	10500 4772	16000 7272	23000 10455	31000 14090	41000 18636	
<b>Sheave Dia.</b>	<b>in</b> 4.25 <b>mm</b> 109	6.00 152	8.00 203	10.00 254	12.00 305	14.00 357	16.00 406	
<b>Rope Size</b>	<b>in</b> 1/4* <b>mm</b> 6*	3/8 10	1/2 13	5/8 16	3/4 19	7/8 22	1 25	
<b>Dim. (mm)</b>	<b>A</b>	109	152	203	254	305	357	406
	<b>B</b>	95	136	179	222	265	313	362
	<b>C</b>	228	344	455	560	680	800	900
	<b>D</b>	130	195	260	325	390	450	520
	<b>E</b>	100	150	200	245	300	350	390
	<b>F</b>	100	150	200	250	300	350	400
	<b>G</b>	6	9	12	16	18	20	25
	<b>H</b>	107	160	214	268	320	376	428
	<b>J</b>	12	14	14	16	20	26	33
<b>K</b>	36	54	72	90	108	130	144	
<b>L</b>	108	164	215	260	320	375	420	
<b>Wt.</b>	<b>lbs</b> 20 <b>kg</b> 9	50 22.6	80 36.2	242 110	360 164	580 264	900 408	

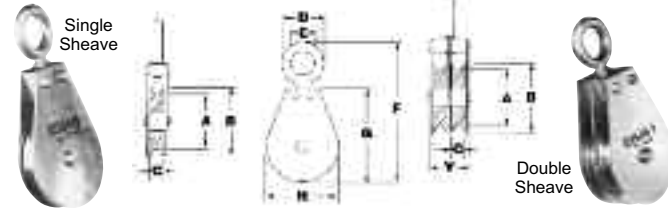
\*The DS3500 can be supplied with groove for 1/8 of an inch (3 mm) wire rope. Sheave diameters are available up to 28 inches (711 mm). Ask our representatives for details. Specifications are subject to change without notice.

**Blocks/Sheaves/Swivels**

**Blocks (Eye/Flat Mount/Swivel Hook)**

**Swivel Eye Block - Single Sheave**

Model No.	Max. Cable Size	Dimensions (Approx. in)								WLL (lbs.)	Wt. Each (lbs.)
		A	B	C	D	E	F	G	H		
01548	3/16	1	1-1/2	7/16	1-1/4	5/8	3-13/16	2-7/16	1-5/8	525	.5
02048	3/16	1-1/2	2	7/16	1-1/4	5/8	4-1/4	2-15/16	2-1/8	600	.7
02548	1/4	2	2-1/2	7/16	1-1/2	7/8	5	3-7/16	2-5/8	685	1
03048	1/4	2-1/2	3	7/16	1-1/2	7/8	5-5/8	4-1/16	3-1/8	800	1.4
03048-5/16	5/16	2-1/2	3	7/16	1-1/2	7/8	5-5/8	4-1/16	3-1/8	800	1.4
03548	5/16	3	3-1/2	5/8	2-1/16	1-3/16	7-5/8	5-3/8	3-3/4	1550	3.1
03548-3/8	3/8	3	3-1/2	5/8	2-1/16	1-3/16	7-5/8	5-3/8	3-3/4	1550	3.1
04048	3/8	3-1/4	4	5/8	2-1/16	1-3/16	8-3/8	6	4-1/4	1700	3.6
05048	3/8	4-1/4	5	5/8	2-1/16	1-3/16	9-3/8	7	5-1/4	1850	5.2

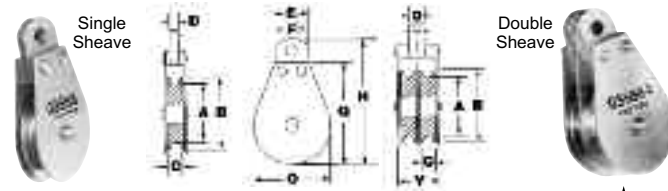


**Swivel Eye Block - Double Sheave**

Model No.	Max. Cable Size	Dimensions (Approx. in)									WLL (lbs.)	Wt. Each (lbs.)
		A	B	C	D	E	F	G	H	Y		
01548-2	3/16	1	1-1/2	7/16	1-1/4	5/8	3-13/16	2-7/16	1-5/8	1-7/32	525	1
02048-2	3/16	1-1/2	2	7/16	1-1/4	5/8	4-1/4	2-15/16	2-1/8	1-7/32	600	1.5
02548-2	1/4	2	2-1/2	7/16	1-1/2	7/8	5	3-7/16	2-5/8	1-7/32	685	2
03048-2	1/4	2-1/2	3	7/16	1-1/2	7/8	5-5/8	4-1/16	3-1/8	1-7/32	800	2.5
03048-2-5/16	5/16	2-1/2	3	7/16	1-1/2	7/8	5-5/8	4-1/16	3-1/8	1-7/32	800	2.5
03548-2	5/16	3	3-1/2	5/8	2-1/16	1-3/16	7-5/8	5-3/8	3-3/4	1-13/16	1550	5
03548-2-3/8	3/8	3	3-1/2	5/8	2-1/16	1-3/16	7-5/8	5-3/8	3-3/4	1-13/16	1550	5
04048-2	3/8	3-1/4	4	5/8	2-1/16	1-3/16	8-3/8	6	4-1/4	1-13/16	1700	6.3
05048-2	3/8	4-1/4	5	5/8	2-1/16	1-3/16	9-3/8	7	5-1/4	1-13/16	1850	9.3

**Fixed Eye Blocks - Single Sheave**

Model No.	Max. Cable Size	Dimensions (Approx. in)									WLL (lbs.)	Wt. Each (lbs.)
		A	B	C	D	E	F	G	H	O		
01568	3/16	1	1-1/2	7/16	1/4	1-1/8	3/8	2-7/16	3-1/4	1-5/8	525	.5
02068	3/16	1-1/2	2	7/16	1/4	1-1/8	3/8	2-15/16	3-3/4	2-1/8	600	.7
02568	1/4	2	2-1/2	7/16	1/4	1-1/8	3/8	3-7/16	4-1/4	2-5/8	685	1
03068	1/4	2-1/2	3	7/16	1/4	1-1/8	3/8	4-1/16	4-13/16	3-1/8	800	1.4
03068-5/16	5/16	2-1/2	3	7/16	1/4	1-1/8	3/8	4-1/16	4-13/16	3-1/8	800	1.4
03568	5/16	3	3-1/2	5/8	5/16	1-1/2	9/16	5-3/8	6-1/2	3-3/4	1550	3.1
03568-3/8	3/8	3	3-1/2	5/8	5/16	1-1/2	9/16	5-3/8	6-1/2	3-3/4	1550	3.1
04068	3/8	3-1/4	4	5/8	5/16	1-1/2	9/16	6	7-1/4	4-1/4	1700	3.5
05068	3/8	4-1/4	5	5/8	5/16	1-1/2	9/16	7	8-1/4	5-1/4	1850	5.1

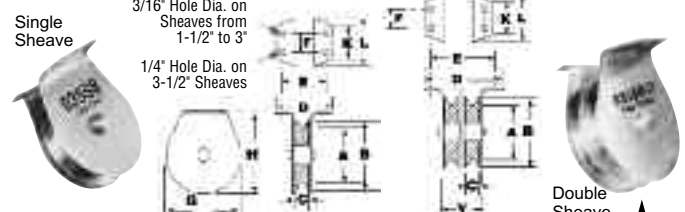


**Fixed Eye Blocks - Double Sheave**

Model No.	Max. Cable Size	Dimensions (Approx. in)									WLL (lbs.)	Wt. Each (lbs.)	
		A	B	C	D	E	F	G	H	O			Y
01568-2	3/16	1	1-1/2	7/16	9/16	1-1/8	3/8	2-7/16	3-1/4	1-5/8	1-7/32	525	1
02068-2	3/16	1-1/2	2	7/16	9/16	1-1/8	3/8	2-15/16	3-3/4	2-1/8	1-7/32	600	1.5
02568-2	1/4	2	2-1/2	7/16	9/16	1-1/8	3/8	3-7/16	4-1/4	2-5/8	1-7/32	685	2
03068-2	1/4	2-1/2	3	7/16	9/16	1-1/8	3/8	4-1/16	4-13/16	3-1/8	1-7/32	800	2.5
03068-2-5/16	5/16	2-1/2	3	7/16	9/16	1-1/8	3/8	4-1/16	4-13/16	3-1/8	1-7/32	800	2.5
03568-2	5/16	3	3-1/2	5/8	7/8	1-1/2	9/16	5-3/8	6-1/2	3-3/4	1-13/16	1550	5
03568-2-3/8	3/8	3	3-1/2	5/8	7/8	1-1/2	9/16	5-3/8	6-1/2	3-3/4	1-13/16	1550	5
04068-2	3/8	3-1/4	4	5/8	7/8	1-1/2	9/16	6	7-1/4	4-1/4	1-13/16	1700	6.4
05068-2	3/8	4-1/4	5	5/8	7/8	1-1/2	9/16	7	8-1/4	5-1/4	1-13/16	1850	9.3

**Flat Mount Blocks - Single Sheave**

Model No.	Max. Cable Size	Dimensions (Approx. in)										WLL (lbs.)	Wt. Each (lbs.)
		A	B	C	D	E	F	G	H	K	L		
01558	3/16	1	1-1/2	7/16	2	1-7/16	11/16	1-5/8	1-7/8	1-1/8	1-3/8	525	0.3
02058	3/16	1-1/2	2	7/16	2	1-7/16	11/16	2-1/2	2-3/8	1-1/8	1-1/2	600	0.5
02558	1/4	2	2-1/2	7/16	2	1-7/16	11/16	2-5/8	2-15/16	1-1/8	1-5/8	685	0.8
03058	1/4	2-1/2	3	7/16	2	1-7/16	11/16	3-1/8	3-9/16	1-1/8	1-3/4	800	1.0
03058-5/16	5/16	2-1/2	3	7/16	2	1-7/16	11/16	3-1/8	3-9/16	1-1/8	1-3/4	800	1.0
03558	5/16	3	3-1/2	5/8	3-9/16	2-5/8	1	3-3/4	4-3/8	1-1/2	2-1/4	1550	2.3
03558-3/8	3/8	3	3-1/2	5/8	3-9/16	2-5/8	1	3-3/4	4-3/8	1-1/2	2-1/4	1550	2.3
04058	3/16	3-1/4	4	5/8	3-9/16	2-5/8	1	4-1/4	4-15/16	2-1/4	2-1/2	1700	3.1
05058	3/8	4-1/4	5	5/8	3-9/16	2-5/8	1	5-1/4	5-15/16	2-1/4	2-3/4	1850	4.6

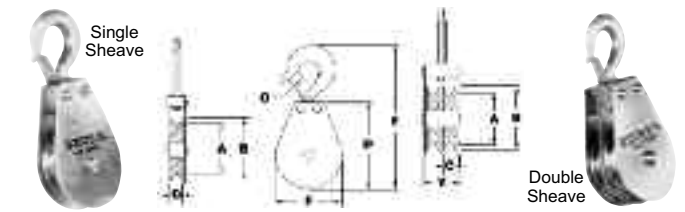


**Flat Mount Blocks - Double Sheave**

Model No.	Max. Cable Size	Dimensions (Approx. in)													WLL (lbs.)	Wt. Each (lbs.)
		A	B	C	D	E	F	G	H	K	L	Y				
01558-2	3/16	1	1-1/2	7/16	2-9/16	2	3/4	1-5/8	1-7/8	1-1/8	1-3/8	1-7/32	525	5.0		
02058-2	3/16	1-1/2	2	7/16	2-9/16	2	3/4	2-1/2	2-3/8	1-1/8	1-1/2	1-7/32	600	1.0		
02558-2	1/4	2	2-1/2	7/16	2-9/16	2	3/4	2-5/8	2-15/16	1-1/8	1-5/8	1-7/32	685	2.0		
03058-2	1/4	2-1/2	3	7/16	2-9/16	2	3/4	3-1/8	3-9/16	1-1/8	1-3/4	1-7/32	800	2.5		
03058-2-5/16	5/16	2-1/2	3	7/16	2-9/16	2	3/4	3-1/8	3-9/16	1-1/8	1-3/4	1-7/32	800	2.5		
03558-2	5/16	3	3-1/2	5/8	4-1/2	3-1/2	1	3-3/4	4-3/8	1-1/2	2-1/4	1-13/16	1550	4.0		
03558-2-3/8	3/8	3	3-1/2	5/8	4-1/2	3-1/2	1	3-3/4	4-3/8	1-1/2	2-1/4	1-13/16	1550	4.0		
04058-2	3/8	3-1/4	4	5/8	4-1/2	3-1/2	1	4-1/4	4-15/16	2-1/4	2-1/2	1-13/16	1700	5.5		
05058-2	3/8	3-1/4	5	5/8	4-1/2	3-1/2	1	5-1/4	5-15/16	2-1/4	2-3/4	1-13/16	1850	8.3		

**Swivel Hook Blocks w/Safety Latch - Single Sheave**

Model No.	Max. Cable Size	Dimensions (Approx. in)									WLL (lbs.)	Wt. Each (lbs.)
		A	B	C	D	E	F	O	Y			
01578-SL	3/16	1	1-1/2	7/16	2-7/16	4-1/8	1-5/8	1/2	525	.5		
02078-SL	3/16	1-1/2	2	7/16	2-15/16	4-5/8	2-1/8	1/2	600	.7		
02578-SL	1/4	2	2-1/2	7/16	3-7/16	5-3/4	2-5/8	11/16	685	1		
03078-SL	1/4	2-1/2	3	7/16	4-1/16	6-1/4	3-1/8	11/16	800	1.4		
03078-5/16-SL	5/16	2-1/2	3	7/16	4-1/16	6-1/4	3-1/8	11/16	800	1.4		
03578-SL	5/16	3	3-1/2	5/8	5-3/8	8-1/2	3-3/4	15/16	1550	3.1		
03578-3/8-SL	3/8	3	3-1/2	5/8	5-3/8	8-1/2	3-3/4	15/16	1550	3.1		
04078-SL	3/8	3-1/4	4	5/8	6	9	4-1/4	15/16	1700	3.8		
05078-SL	3/8	4-1/4	5	5/8	7	10	5-1/4	15/16	1850	5.3		



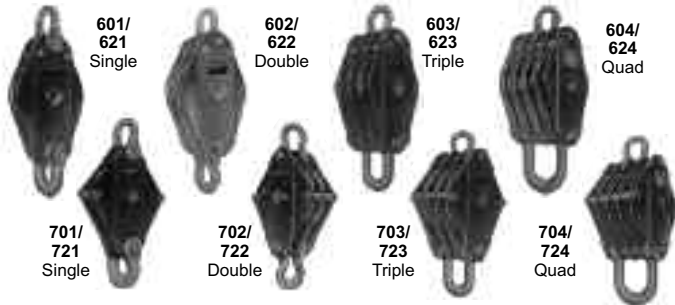
**Swivel Hook Blocks w/Safety Latch - Double Sheave**

Model No.	Max. Cable Size	Dimensions (Approx. in)									WLL (lbs.)	Wt. Each (lbs.)
		A	B	C	D	E	F	O	Y			
01578-2-SL	3/16	1	1-1/2	7/16	2-7/16	4-1/8	1-5/8	1/2	1-7/32	525	1	
02078-2-SL	3/16	1-1/2	2	7/16	2-15/16	4-5/8	2-1/8	1/2	1-7/32	600	1.5	
02578-2-SL	1/4	2	2-1/2	7/16	3-7/16	5-3/4	2-5/8	11/16	1-7/32	685	2	
03078-2-SL	1/4	2-1/2	3	7/16	4-1/16	6-1/4	3-1/8	11/16	1-7/32	800	2.5	
03078-2-5/16-SL	5/16	2-1/2	3	7/16	4-1/16	6-1/4	3-1/8	11/16	1-7/32	800	2.5	
03578-2-SL	5/16	3	3-1/2	5/8	5-3/8	8-1/2	3-3/4	15/16	1-13/16	1550	5.5	
03578-2-3/8-SL	3/8	3	3-1/2	5/8	5-3/8	8-1/2	3-3/4	15/16	1-13/16	1550	5.5	
04078-2-SL	3/8	3-1/4	4	5/8	6	9	4-1/4	15/1				

**Blocks/Sheaves/Swivels**

**Blocks (Crane/Construction)**

**Construction Blocks/Extra Heavy - McKissick®**  
Oval Pattern—Series 600/620 &  
Diamond Pattern—Series 700/720



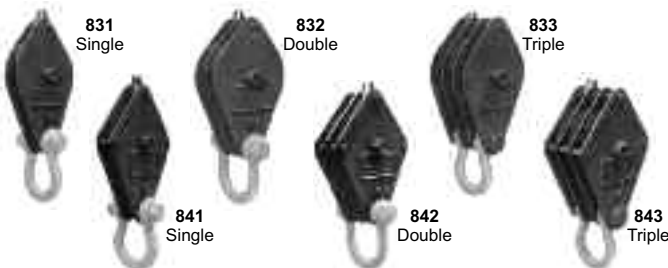
Sheave Dia. & Block No.		No. of Sheaves	WLL* (tons)	Std. Wire Rope Size†† (in)	Wt. Each (lbs)
Oval	Diamond				
10" 601	10" 701	1	10	3/4	95
10" 602	10" 702	2	15	3/4	110
10" 603**	10" 703**	3	20	3/4	150
10" 604**	10" 704**	4	25	3/4	190
10" 605**	10" 705**	5	30	3/4	250
12" 601	12" 701	1	10	3/4	120
12" 602	12" 702	2	15	3/4	160
12" 603**	12" 703**	3	20	3/4	200
12" 604**	12" 704**	4	25	3/4	275
12" 605**	12" 705**	5	35	3/4	305
† 14" 621	† 14" 721	1	10	3/4	130
† 14" 622	† 14" 722	2	20	3/4	200
† 14" 623**	† 14" 723**	3	30	3/4	235
† 14" 624**	† 14" 724**	4	40	3/4	350
† 14" 625**	† 14" 725**	5	50	3/4	425
17" 601	17" 701	1	15	7/8	215
17" 602	17" 702	2	25	7/8	325
17" 603	17" 703	3	35	7/8	400
17" 604	17" 704	4	50	7/8	550
† 18" 621	† 18" 721	1	18	1	270
† 18" 622	† 18" 722	2	30	1	400
† 18" 623	† 18" 723	3	45	1	500
† 18" 624	† 18" 724	4	65	1	675
† 20" 621	† 20" 721	1	20	1	415
† 20" 622	† 20" 722	2	35	1	575
† 20" 623	† 20" 723	3	55	1	675
† 20" 624	† 20" 724	4	75	1	750
† 24" 621	† 24" 721	1	25	1-1/8	550
† 24" 622	† 24" 722	2	45	1-1/8	825
† 24" 623	† 24" 723	3	65	1-1/8	1200
† 24" 624	† 24" 724	4	90	1-1/8	1500

- All steel construction, heavy steel plates and bars.
- Can be furnished with bronze bushed roller bearing sheaves or tapered bearing sheaves. For high speed service we recommend tapered bearing sheaves.
- Sheaves 14" and larger flame hardened. Smaller sheaves can be flame hardened on special order.
- Sheave lubrication through center pin. Separate lube channel to each bearing unless noted.

\* Ultimate Load is 4x the Working Load Limit.  
\*\* Common Lube Channel.  
† Fitted with double row sealed tapered bearing sheaves.  
†† May be furnished with other wire rope size.  
McKissick Construction Blocks are available with all types of special connections, swivels of all types, and hangers to fit any type fitting.

**NOTE:** When ordering, please specify: size, block number, number of sheaves, proper wire rope size, and bronze bushed or roller bearings.

**Construction Blocks/Med. Weight - McKissick®**  
Oval Pattern—Series 830 & Diamond Pattern—Series 840



Sheave Dia. & Block No.		No. of Sheaves	WLL* (tons)	Std. Wire Rope Size†† (in)	Wt. Each (lbs)
830 Oval	840 Diamond				
8" 831	8" 841	1	4	1/2	29
8" 832	8" 842	2	7	1/2	47
8" 833	8" 843	3	8	1/2	64
8" 834	8" 844	4	9	1/2	78
10" 831	10" 841	1	6	5/8	42
10" 832	10" 842	2	9	5/8	75
10" 833	10" 843	3	10	5/8	83
10" 834	10" 844	4	12	5/8	110
12" 831	12" 841	1	7	3/4	75
12" 832	12" 842	2	12	3/4	117
12" 833	12" 843	3	14	3/4	165
12" 834	12" 844	4	16	3/4	202

- All steel construction.
- Can be furnished with bronze bushed or sealed tapered bearing sheaves. For high speed service we recommend sealed tapered bearing sheaves.
- Sheave lubrication through pressure lube fitting in center pin.

\* Ultimate Load is 4x the Working Load Limit.  
† May be furnished with other wire rope sizes.

**Easy Reeve™ Crane Blocks - McKissick®**  
380 Series Easy Reeve™ Hook Blocks

- Wide range of product available.
  - Capacity: 5 to 80 tons - Larger Models Available.
  - Sheave Sizes: 10" to 20".
  - Wire Line Sizes: 7/16 to 1-1/4".
- Manufactured by an ISO 9001 and API Q1 certified facility.
- All single point shank hooks are genuine Crosby® forged alloy steel, Quenched and Tempered, and have the patented QUIC-CHECK™ markings (Duplex hooks are available on most sizes).
- All Easy Reeve™ Blocks are furnished standard with Roller Bearings.
- Reeving Guides Standard - All Models.
- Heavy Duty Positive Locking (PL) Latch - All Models.
- Sheave lubrication through center pin - Separate lube channel to each bearing.
- Sheaves fully protected by side plates.
- Dual action hook (Swings and Rotates).
- Repair parts available through world wide distribution network.
- Design Factor of 4 to 1 (unless otherwise noted).
- All Easy Reeve™ blocks, 16" and larger, are furnished with McKissick® Roll-Forged™ sheaves with flame hardened grooves.
- Look for the Orange Hook... the mark of genuine McKissick® quality.

**Dead End Chart**

Wire Rope Size (in)	Dimensions (in)	
	T Thickness	U Hole Diameter
7/16 - 1/2	1.00	1.28
9/16	1.00	1.28
5/8	1.00	1.28
3/4	1.25	1.66
7/8	1.25	1.66
1	1.25	1.66

**OPTIONS AVAILABLE**

- Duplex Hooks (75 tons & larger)
- Swivel Tee and Shackle Assemblies
- Anti Rotation - Locking Device (75 tons & larger)
- Plate Steel Cheek Weights
- Third party testing with Certification available upon request.



**Step #1** Set EASY REEVE™ Block on work surface and open sheave guard doors. Hook folds out of the way and block stands on new "flat bottom" side plate design.

**Step #2** Reeve without removing wedge and socket from wire rope. Sheave guards fold down for unobstructed access.

**Step #3** Close sheave guard doors and you're ready to lift. Fast and easy. In a fraction of the time needed for conventional blocks, EASY REEVE™ is ready for the lift.

Center "Dead End" to promote better block travel under various reeving configurations.

Sheave Guards that open to allow block reeving without removing the rope end fitting.

Flat Bottom side plates for self standing during reeving process.

Forged Crosby® alloy steel hooks with patented QUIC-CHECK™ markings and Heavy Duty positive locking hook latch.

Another Value Added feature of the McKissick® EASY REEVE™ Crane Block is the illustrated replacement part list and exploded view diagram that is shipped with every block ordered. This way, even years after purchase, it's easy to buy repair parts for your specific block.

For applications that require EASY, fast & efficient reeving, no crane block offers you the advantages of EASY REEVE™. Designed to meet your needs, the new McKissick® EASY REEVE™ Crane Blocks can be reeved without removing the rope end fitting.

5  
Blocks/  
Sheaves/  
Swivels

## Blocks (Crane)

### Utility Crane Blocks - McKissick® 380 Series Utility Hook Blocks

- Wide range of product available.
  - Capacity: 5 to 300 tons - Larger Models Available.
  - Sheave Sizes: 10" to 30"
  - Wire Line Sizes: 7/16 to 1-1/4"
- Manufactured by an ISO 9001 and API Q1 certified facility.
- All single point shank hooks are genuine Crosby® forged alloy steel, Quenched and Tempered, and have the patented QUIC-CHECK™ markings (Duplex hooks are available on most sizes).
- All Easy Reeve™ Blocks are furnished standard with Roller Bearings.
- Reeving Guides Standard - All Models.
- Heavy Duty Positive Locking (PL) Latch - All Models.
- Sheave lubrication through center pin - Separate lube channel to each bearing.
- Sheaves fully protected by side plates.
- Dual action hook (Swings and Rotates).
- Repair parts available through world wide distribution network.
- Design Factor of 4 to 1 (unless otherwise noted).
- All 380 Series blocks, 16" and larger, are furnished with McKissick® Roll-Forged™ sheaves with flame hardened grooves.
- Look for the Orange Hook... the mark of genuine McKissick® quality.



Dead End Chart (Double, Triple & Quad Sheave Blocks)

Wire Rope Size (in)	Dimensions (in)	
	T Thickness	U Hole Dia.
7/16-1/2	1.00	1.28
9/16	1.00	1.28
5/8	1.00	1.28
3/4	1.25	1.66
7/8	1.25	1.66
1	1.25	1.66
1-1/8	1.75	2.56
1-1/4	1.75	2.56

NOTE: Please call us for complete dimensional information on all 380 Series Utility Crane Blocks, and Single Sheave Block Dead End Dimensions.

#### OPTIONS AVAILABLE

- Bronze Bushed Sheaves
- Duplex Hooks
- Swivel Tee and Shackle Assemblies
- Sheave Shrouds
- Anti Rotation - Locking Device (50 tons & larger)
- Plate Steel Cheek Weights
- Third party testing with Certification available upon request.

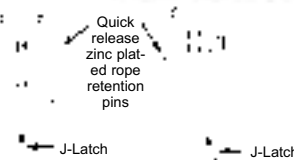
Sheave Dia. (in)	Wire Line Size (in)									
	7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	
10	X	X	X	X						
12		X	X	X	X					
14		X	X	X	X					
16			X	X	X	X				
18				X	X	X	X			
20					X	X	X	X		
24						X	X	X	X	X

### Quick Reeve Crane Blocks - Gunnebo Johnson

- The Johnson J-Latch Provides a Fast Hook Deformation Inspection Point.
- Available tonnage capacities from 5 - 140 tons. Larger capacities available upon request.

#### Standard Features Include:

- Quick release, zinc plated, rope retention pin meets OSHA requirements for rope retention. Pin cannot be completely removed from block to avoid pin loss.
- Johnson J-Latch™ heavy duty, steel, lockable, spring loaded latch meets OSHA personnel lifting requirements.
- Rope end fitting will pass through block.
- Quick reeving upright design.



### Bridge Crane Block - (Custom Design) McKissick®

Furnish the following important information when inquiring:

- A, B and C dimensions
- Diameter of Sheave
- Diameter of Wire Rope
- Type of Bearing in sheaves
- Capacity required
- Total weight requirements

Contact us for more information on Bridge Crane Blocks.



**BC-45**  
45 Ton Bridge Crane Block



**BC-15**  
15 Ton Bridge Crane Block

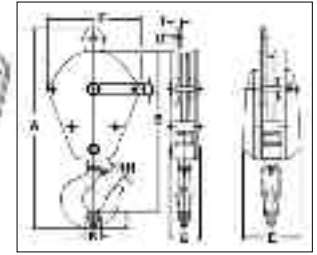
### One Sheave Shorty "J" Crane Block - Gunnebo Johnson

#### STANDARD

- 3 - 350-ton capacities
- 4 to 1 design factor
- 1 through 8 sheave models
- 10 through 30-inch sheave diameters, all forged steel
- Reeving guides, all models
- Heavy duty latch kits - 3 through 165 tons
- Bronze bushed, roller bearing and tapered roller bearing sheaves
- Direct-channel sheave bearing lubrication through center pin
- Flame-hardened grooves on sheave sizes 16 through 30 inch diameters
- Dual-action (swing/swivel) roller thrust bearing hooks
- Forged steel hooks - 3 - 30 tons
- Cast alloy steel hooks - 35 through 325 tons
- Cast allow steel duplex hooks - 350 tons
- Fully protective side plates
- Center plate and tie bolt containment of wire rope
- Total disassembly capability
- Stainless safety precautions plate
- Stainless ton rating name plate
- Individually attached safety, warranty, care and maintenance product information.

#### OPTIONAL

- Forged steel hooks—35 through 300 tons\*



- Cast alloy steel duplex hooks with bar latch—25 through 350 tons
- Forged steel duplex hooks\*
- Anti-rotation locking devices, all models
- Swivel safety anchor shackles, all models\*
- Sheave shrouds, all models
- Detachable cast iron cheek weights, all models
- Detachable steel plate cheek weights\*
- Swivel jaws, all models\*
- Pull test and Certification
- Radiograph, magnetic particle, and other nondestructive testing to specification designated by customer (conducted by qualified outside laboratory)\*
- Price on application

#### TO ORDER PLEASE SPECIFY:

- Model Number
- Wire Rope Size
- Options Requested

Contact us for Block Dimensions or with any questions.

### SHORTY "J" CRANE BLOCK OPTIONS:

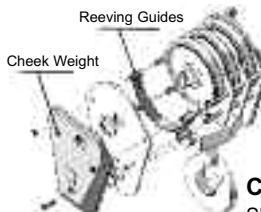
#### Anti-Rotation Locking Devices

Applicable to both hooks and swivel shackles, the anti-rotation device locks the fitting in the fixed position desired. Two types of these swivel locks are offered: a screw type, which is hand-turned directly into the hook nut (4 position); and a spring-loaded plunger type which snaps into the bottom of the hook housing (8 position). (See chart)

Shorty "J" anti-rotation devices are available on new blocks or on blocks which have been returned to the plant for retrofit.



J-Block Tonnage	No. of Sheaves	Type Locking Device	Wt. (lbs)
25 - 70	1,2	Screw	4
50 - 80	3-up	Plunger	16
90 - 110	3-up	Plunger	19
115 - 140	3-up	Plunger	32
150 - 165	3-up	Plunger	32
200 - 250	3-up	Plunger	64
300 - 350	3-up	Plunger	82



#### Cheek Weight Kits

Shorty "J" cast iron cheek weights supply the extra downfall weight which block and line often need to overcome the combined friction of sheave bearings, winch, and boom tip. They are offered in the largest variety of sizes available—at least two per each size block—and are specifically contoured to resist hang-up and to provide an extra low center of gravity. Far more economical than plate steel weights, they are completely detachable and can be added or removed as conditions demand.

Kit consists of: 2 each cast iron cheek weights; 2 each tie bolts, with nuts, to size; cap screws and lock washers are required; 1 each ton rating name plate and cautions plate.

#### Shorty "J" Cheek Wt. Kits\*

Block Size (O.D.)	B Kit (lbs.)	C Kit (lbs.)
10"	74	—
12"	125	277
14" AB	109	—
14"	185	349
16"	165	311
18"	237	375
20"	312	656
24"	757	1,179
30"	1,325	2,050

\*For high vibration applications specify Plate Steel Cheek Weights to size.

**Blocks/Sheaves/Swivels**

# Insulator Links

## ISO-LINK™ - Miller

### Proven Performance in High-Demand Electrical Environments

ISO/Link™ Series insulated links provide proven protection against electrical currents with practical designs and the latest in insulation technology. Special application links are designed to meet the needs of particular industries. ISO/Link-AC™ insulators afford high-voltage outdoor protection for workers, while ISO/Link-DC™ insulators are geared toward higher temperature, indoor applications. All ISO/Links are thoroughly tested and retested as part of periodic maintenance. Each comes with a copy of its certified dielectric test report.

The insulating components within Miller links do not compromise the lifting capacity of the links. Links are available with clevis, eye, wedge or thimble caps, for maximum load capacities ranging from 3 to 60 tons.

### ISO/Link-AC Features

- Rated to 33,000 Volts AC
- Extended durability

- All-weather-proof
- Sealed to prevent moisture/contaminant absorption
- Fail-safe interlocking plate construction
- Mechanical design factor > 5:1

### Applications

- Utilities
- Construction
- High-voltage test labs
- Manufacturing

### ISO/Link-DC Features

- Rated to 1,000 Volts DC
- Bolts replaceable on site
- Factory refurbishing available
- Withstands continuous heat up to 130°C
- Not compromised by magnetic fields
- Replaceable polyurethane bumpers designed to take brunt of routine impacts
- Rigid link and interposing plate structure

- for utmost reliability
- Mechanical design factor > 5:1

### Applications

- Aluminum Smelting
- Transition Metal Reduction
- Industrial Welding

Rating	ISO/Link-AC™ 33,000 VAC	ISO-Link-DC™ 1,000 VAC
Applications	Utilities, High Voltage Test Labs, Crane Mfg.	Aluminum Smelters Base & Transition Metal Reduction Plants
Construction	Cast Polyurethane (Proprietary Process) Interlocking, Fail-Safe Plate Arrangement (All Weather Products)	G-10 Fiberglass Interlocking, Fail-Safe Plate Arrangement (Not for Outside Use)
Comments	Sealed Construction Prevents Moisture & Contaminant Absorption Insuring Insulation Integrity	Inspectable, Repairable High Temperature Range

TYPE 1 Model	Swivel Model & Type	Wire Rope Size	Dimensions (in)											Wt. Lbs.	Max. Load Tons	Link Dia.
			A	B	C	D	E	F	G	H	I	J	K			
ML6G-1	C-23	1/2	13-1/32	6-1/8	18-7/16	1-1/2	1-1/32	1-3/8	1-3/8	3/4	1-3/16	3/4	15/16	25	3	5-1/8
ML6D-1	D-23	5/8	15	6-1/8	21-3/4	1-7/8	1-11/16	1-11/16	1-25/32	7/8	1-9/16	1	1-1/8	33	5	5-1/8
ML8D-1	D-23	5/8	17-3/8	8-1/2	24-3/4	1-7/8	1-11/16	1-13/16	1-25/32	7/8	1-9/16	1	1-1/8	77	5	8-5/8
ML8E-1	EE-23	3/4	18-15/16	8-1/2	28-1/4	2-1/2	2-1/4	2-5/8	2-9/16	1-3/16	2-1/8	1-9/16	1-1/4	96	8.5	8-5/8
ML8G-1	G-23	7/8	24	8-1/2	35-1/8	3-3/8	3	3	2-7/8	1-1/2	3-1/2	1-3/4	1-3/4	144	10	8-5/8
ML12GG-1	GG-23	1	26	10-1/2	37-1/8	3-3/8	3	3	2-7/8	1-1/2	3-1/2	1-3/4	1-3/4	247	15	11-7/8
ML12H-1	H-23	1-1/8	28-1/4	10-1/2	45-3/16	4-1/4	3-3/4	4-9/16	3-7/8	2	3-11/16	2	2-3/8	342	25	11-7/8
ML12.5HH-1	HH-23	1-1/4	28-1/4	10-1/2	45-3/16	4-1/4	3-3/4	4-9/16	3-7/8	2	3-11/16	2	2-3/8	370	35	12-1/2
ML12.5I-1	I-23	-	32	10-1/2	50-15/16	4-3/4	4-1/4	5-1/16	4-3/4	2-9/32	4	2-1/2	3	475	45	12-1/2
ML12.5JJ-1	JJ-23	-	32-1/4	10-1/2	55	5-3/4	5-1/8	6	5-11/16	2-1/2	4-1/2	3	3-1/2	620	60	12-1/2

TYPE 2 Model	Swivel Model & Type	Wire Rope Size	Dimensions (in)											Wt. Lbs.	Max. Load Tons	Link Dia.
			A	B	C	D	E	F	G	H	I	J	K			
ML6G-2	C-24	1/2	13	6-1/8	18-1/2	1-1/2	1-11/32	1-3/8	1-3/8	29/32	15/16	3/4	1	25	3	5-1/8
ML6D-2	D-24	5/8	14-15/16	6-1/8	21-11/16	1-7/8	1-11/16	1-11/16	1-25/32	1-1/4	1-5/16	1	1-3/16	33	5	5-1/8
ML8D-2	D-24	5/8	17-5/16	8-1/2	24-11/16	1-7/8	1-11/16	1-13/16	1-25/32	1-1/4	1-5/16	1	1-3/16	77	5	8-5/8
ML8E-2	EE-24	3/4	18-3/4	8-1/2	28-1/16	2-1/2	2-1/4	2-5/8	9-9/16	1-13/32	1-5/8	1-1/4	1-1/2	96	8.5	8-5/8
ML8G-2	G-24	7/8	23-15/16	8-1/2	35-1/16	3-3/8	3	3	2-7/8	1-21/32	2-27/32	1-3/4	1-13/16	144	10	8-5/8
ML12GG-2	GG-24	1	25-15/16	10-1/2	37-1/16	3-3/8	3	3	2-7/8	2-1/32	2-27/32	2	2-1/8	247	15	11-7/8
ML12H-2	H-24	1-1/8	28-1/4	10-1/2	45-3/16	4-1/4	3-3/4	4-9/16	3-7/8	2-5/16	2-7/8	2-1/4	2-3/8	342	25	11-7/8
ML12.5HH-2	HH-24	1-1/4	28-1/4	10-1/2	45-3/16	4-1/4	3-3/4	4-9/16	3-7/8	2-5/16	2-7/8	2-1/4	2-3/8	370	35	12-1/2
ML12.5I-2	I-24	-	32	10-1/2	50-15/16	4-3/4	4-1/4	5-1/16	4-3/4	2-17/32	3-1/2	2-1/2	3	475	45	12-1/2
ML12.5JJ-2	JJ-24	-	32-1/4	10-1/2	55	5-3/4	5-1/8	6	5-11/16	2-17/32	4	3-1/2	3-1/2	620	60	12-1/2

TYPE 3 Model	Swivel Model & Type	Wire Rope Size	Dimensions (in)					Wt. Lbs.	Max. Load Tons	Link Dia.		
			A	B	C	D	E					
ML6G-3	C-25	1/2	17-3/16	6-1/8	22-9/16	1-1/2	1-11/32	1-3/8	1-3/8	27	3	5-1/8
ML6D-3	D-25	5/8	19-5/8	6-1/8	27-15/16	1-7/8	1-11/16	1-11/16	1-3/4	36	5	5-1/8
ML8D-3	D-25	5/8	22	8-1/2	29-3/8	1-7/8	1-11/16	1-13/16	1-25/32	80	5	8-5/8
ML8E-3	EE-25	3/4	23-15/16	8-1/2	33	2-1/2	2-1/4	2-5/8	2-9/16	102	8.5	8-5/8
ML8G-3	G-25	7/8	27-3/4	8-1/2	38-7/8	3-3/8	3	3	2-7/8	151	10	8-5/8
ML12GG-3	GG-25	1	29-3/4	10-1/2	40-7/8	3-3/8	3	3	2-7/8	254	10	11-7/8
ML12H-3	H-25	1-1/8	37-1/2	10-1/2	54-3/16	4-1/4	3-1/2	4-9/16	3-7/8	362	25	11-7/8
ML12.5HH-3	HH-25	1-1/4	37-1/2	10-1/2	54-3/16	4-1/4	3-3/4	4-9/16	3-7/8	390	35	12-1/2

TYPE 4 Model	Swivel Model & Type	Wire Rope Size	Dimensions (in)					Wt. Lbs.	Max. Load Tons	Link Dia.		
			A	B	C	D	E					
ML6G-4	C-26	1/2	14-27/32	6-1/8	20-1/4	1-1/2	1-11/32	1-3/8	1-3/8	26	3	5-1/8
ML6D-4	D-26	5/8	16-3/8	6-1/8	24-13/16	1-7/8	1-11/16	1-11/16	1-3/4	34	5	5-1/8
ML8D-4	D-26	5/8	16	8-1/2	23-3/8	1-7/8	1-11/16	1-13/16	1-25/32	78	5	8-5/8
ML8E-4	EE-26	3/4	20-11/16	8-1/2	30	2-1/2	2-1/4	2-5/8	2-9/16	98	8.5	8-5/8
ML8G-4	G-26	7/8	25-1/2	8-1/2	36-5/8	3-3/8	3	3	2-7/8	148	10	8-5/8
ML12GG-4	GG-26	1	27-1/2	10-1/2	38-5/8	3-3/8	3	3	2-7/8	251	15	11-7/8

TYPE 14 Model	Dimensions (in)											Max. Load Tons
	A	B	C	D	E	F	G	H	I	J	K	
MLV8-14-5	14-7/8	8-3/4	23-5/16	2-1/2	2-1/4	2-19/32	8-11/16	1-7/16	4-5/8	1-1/4-7	3	5
MLV8-14-10	13-5/8	8-3/4	22-1/16	2-1/2	2-1/4	2-19/32	8-11/16	1-5/16	3-3/8	1-5/8-12	3	10
MLV12-14-15	17-3/16	10-1/2	27-1/16	3-3/8	3	3	11	1-9/16	4-3/16	1.778-12	4	15
MLV12-14-25	18-5/16	10-1/2	30-1/16	4	3-5/8	3-21/32	13-5/8	2-9/16	5-5/16	2-1/4-12	4	25
MLV12.5-14-35	21-7/16	12-1/4	33-1/8	4-1/4	3-3/4	4-9/16	14-1/16	2-11/16	6-3/16	2-1/2-12	4-3/4	35
MLV12.5-14-60	26-3/4	12-1/4	42-1/4	5-3/4	5-1/8	6	18-1/2	3-1/2	14-1/2	4-10	4-1/2	60

Type 14 ISO/Links shown above can be combined with standard Miller High Lift Blocks to create a wide selection of insulated block products

Other special configurations are available—contact us with your special requirements!



# Overhaul Balls

## UB500 Series Top Swiveling Overhaul Balls - McKissick®

- The top swivel design on the UB500 assures the ball remains stationary if the wire line spins.
- The swivel incorporates a sealed roller thrust bearing together with a grease fitting for easy lubrication.
- Each ball can be equipped with the new McKissick US422 Wedge Socket which can be easily adjusted to fit various sizes of wire rope by changing the wedge (Ensure that correct wedge is used for selected wire rope size).
- Design Factor 4:1
- All hooks used on UB500 Overhaul Balls (S320, S320N & S316A) are forged from alloy steel. The S320 and S320N hooks come complete with latches.
- Sizes 4 tons through 10 tons available with Crosby's S316A "Positive Locking" SHUR-LOC® hook which may be used for lifting personnel. Meets OSHA Rule 1926.550 (g).
- The S320 hook (PL, latch) and the S320N hook (S4320 latch), with the proper latch attached, may be used for personnel lifting when secured with proper device (Bolt, nut and pin for the PL latch; Cotter pin for the S4320 latch). Meets OSHA Rule 1926.550 (g).



Overhaul Ball Assembly					Optional US-422 Wedge Socket Assembly				Optional S-421T Terminator™ Wedge Socket Assembly	
McKissick UB500 Model No.	UB500 "E" Eye Hook Stock No.	UB500 "S" SHUR-LOC® Stock No.	WLL (tons)	Wt. Each (lbs)	Wire Rope Size (in.)	Model No.	US-422 Stock No.	Wt. Each (lbs)	Wire Rope Sized (in.)	S-421T Stock No.
MB4T35	1036000*	1036005	4	58	3/8	US4	1038499	4.6	-	-
MB4T85	1036009*	1036018	4	102	7/16	US4	1038503	4.6	-	-
MB4T150	1036027*	1036032	4	162	1/2	US4	1038508	4.6	-	-
MB4T200	1036036*	1036041	4	201	1/2	US5	1038517	8.5	1/2	1035009
MB7T85	1036045*	1036050	7	109	9/16	US5	1038526	8.5	5/8	1035018
MB7T150	1036054*	1036063	7	170	5/8	US5	1038535	8.5	-	-
MB7T200	1036072*	1036077	7	210	5/8	US6	1038544	9.4	-	-
MB7T285	1036081*	1036086	7	321	3/4	US6	1038553	9.4	-	-
MB10T150	1036090*	1036095	10	216	-	-	-	-	-	-
MB10T200	1036099*	1036108	10	260	-	-	-	-	-	-
MB10T285	1036117*	1036122	10	365	5/8	US6	1038544	9.4	-	-
MB10T350	1036126*	1036131	10	403	3/4	US6	1038553	9.4	-	-
MB10T650	1036135*	1036140	10	718	7/8	US8	1038598	20.8	3/4	1035027
MB12T150	1036144*	-	12	216	1	US8	1038607	20.8	7/8	1035036
MB12T200	1036153*	-	12	258	1-1/8	US10	1038616	46.5	-	-
MB12T285	1036171*	-	12	365	1-1/4	US10	1038625	45.5	-	-
MB12T350	1036180*	-	12	403	-	-	-	-	-	-
MB12T650	1036189*	-	12	718	-	-	-	-	-	-
MB15T200	1036198*	-	15	298	5/8	US8A	1038562	17.5	-	-
MB15T350	1036207*	-	15	456	-	-	-	-	-	-
MB15T650	1036216*	-	15	753	-	-	-	-	-	-
MB15T1150	1036225*	-	15	1311	1-1/4	US10	1038625	46.5	-	-
MB20T200	1036234*	-	20	298	3/4	US8A	1038571	17.5	-	-
MB20T350	1036243*	-	20	456	7/8	US8	1038598	20.8	3/4	1035027
MB20T650	1036252*	-	20	753	1	US8	1038607	20.8	7/8	1035036
MB20T1150	1036261*	-	20	1311	1-1/8	US10	1038616	46.5	-	-
MB25T350	1036270	-	25	533	1-1/4	US10	1038625	46.5	-	-
MB25T650	1036279	-	25	865	-	-	-	-	-	-
MB25T1150	1036288	-	25	1421	-	-	-	-	-	-
MB30T650	1036297	-	30	865	-	-	-	-	-	-
MB30T1150	1036306	-	30	1421	-	-	-	-	-	-

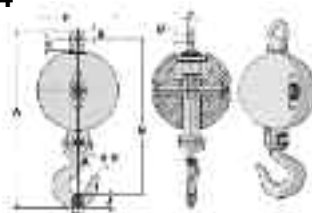
\* Hook is New S-320N style. Replacement latch kit is S-4320. PL, latch and S-4055 latch will not fit. Standard Crosby S-5 Thrust Bearing style swivels can not be used with UB 500 Overhaul balls.

Key to McKissick® UB500 Utility Overhaul Ball Model Numbers				
MB	4	T	35	E
McKissick® Utility Overhaul Ball	Working Load Limit (tons)	Swivel Style T = Top NS = Non	Ball only Weight	Hook Style E = 320 or 320N Eye Hook S = SHUR-LOC® Eye Hook

5 Blocks/Sheaves/Swivels

## Top Swivel Overhaul Balls/Type 4

- To Order Please Specify:
- Model Number
  - Hook Latch No. (if desired)



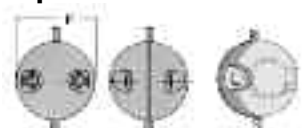
Key to Top swivel overhaul ball hook latch options:			
OB	4EE	85	4
Overhaul Ball	Swivel Model	Ball Weight	Type

Top swivel overhaul ball hook latch options:

Hook Latch Type	4EE 3 Ton 'C' Eye Hook	7EE 5 Ton 'C' Eye Hook	12EE 10 Ton 'C' Eye Hook	19EE 15 Ton 'C' Eye Hook	25EE 20 Ton 'C' Eye Hook	30EE 25 Ton 'C' Eye Hook
Light Duty Latch	5626	5622	5503	5533	5551	6432
Heavy Duty Flapper	3292	3214	3190	3506	4940	4941

Model No.	Wt. (lbs)	Dimensions (in)												
		A Overall Length	B Net Length	F Ball Dia.	H Throat Lt. Dly.	H Throat Hv. Dly.	J Hook Thickness	K Hook Width	R Pin to Obstr.	S Pin to End of Fitting	T Thick-ness of Eye	U Hole Dia.		
3-3/4 Tons	OB4EE35-4	65	23	20.250	7.500	1.375	1.062	1.375	1.125	1.875	1.375	1.875	1.375	1.312
	OB4EE85-4	117	23	20.250	9.500	1.375	1.062	1.375	1.125	1.875	1.375	1.875	1.375	1.312
	OB4EE150-4	185	24.875	22.125	11.250	1.375	1.062	1.375	1.125	1.875	1.375	1.875	1.375	1.312
	OB4EE200-4	235	24.875	22.125	12	1.375	1.062	1.375	1.125	1.875	1.375	1.875	1.375	1.312
6-1/4 Tons	OB7EE35-4	69	25	21.750	7.500	1.687	1.500	1.875	1.375	1.875	1.375	1.875	1.375	1.312
	OB7EE85-4	121	25	21.750	9.500	1.687	1.500	1.875	1.375	1.875	1.375	1.875	1.375	1.312
	OB7EE150-4	189	26.750	23.500	11.250	1.687	1.500	1.875	1.375	1.875	1.375	1.875	1.375	1.312
	OB7EE200-4	239	26.750	23.500	12	1.687	1.500	1.875	1.375	1.875	1.375	1.875	1.375	1.312
12 Tons	OB12EE85-4	145	31	26.375	9.500	2.250	1.906	2.625	1.937	2.750	2	2.750	1.781	1.781
	OB12EE150-4	215	33	28.375	11.250	2.250	1.906	2.625	1.937	2.750	2	2.750	1.781	1.781
	OB12EE200-4	265	33	28.375	12	2.250	1.906	2.625	1.937	2.750	2	2.750	1.781	1.781
	OB12EE350-4	419	33.625	29	14.500	2.250	1.906	2.625	1.937	2.750	2	2.750	1.781	1.781
19 Tons	OB19EE650-4	709	36	31.375	17.937	2.250	1.906	2.625	1.937	2.750	2	2.750	1.781	1.781
	OB12EE1150-4	1220	36	31.375	21.625	2.250	1.906	2.625	1.937	2.750	2	2.750	1.781	1.781
	OB19EE85-4	179	34.375	29.375	9.500	3	2.750	3	2.375	2.375	2	2.750	1.781	1.781
	OB19EE150-4	249	36.375	31.375	11.250	3	2.750	3	2.375	2.375	2	2.750	1.781	1.781
25 Tons	OB19EE200-4	299	36.375	31.375	12	3	2.750	3	2.375	2.375	2	2.750	1.781	1.781
	OB19EE350-4	451	37.125	32.125	14.500	3	2.750	3	2.375	2.375	2	2.750	1.781	1.781
	OB19EE650-4	742	39.625	34.625	17.937	3	2.750	3	2.375	2.375	2	2.750	1.781	1.781
	OB19EE1150-4	1250	39.625	34.625	21.625	3	2.750	3	2.375	2.375	2	2.750	1.781	1.781
30 Tons	OB25EE350-4	480	41	35	14.500	3.625	3.500	3.625	3	2.875	2.375	1.625	2.093	2.093
	OB25EE650-4	776	43.625	37.625	17.937	3.625	3.500	3.625	3	2.875	2.375	1.625	2.093	2.093
	OB25EE1150-4	1264	43.625	37.625	21.625	3.625	3.500	3.625	3	2.875	2.375	1.625	2.093	2.093
30 Tons	OB30EE650-4	911	50.687	43.375	17.937	3.750	3	4.562	3.375	2.750	2.750	1.750	2.312	2.312
	OB30EE1150-4	1435	50.687	43.375	21.625	3.750	3	4.562	3.375	2.750	2.750	1.750	2.312	2.312

## Split Overhaul Ball



Model No.	Wt. (lbs)	Wire Rope Size (in)	F Ball Dia.
OB 50 Split	50	1/2 - 5/8	7.250
OB 100 Split	100	5/8 - 3/4 - 7/8	9.250

- To Order Please Specify:
- Ball Title (i.e. "Split Ball")
  - Weight Desired

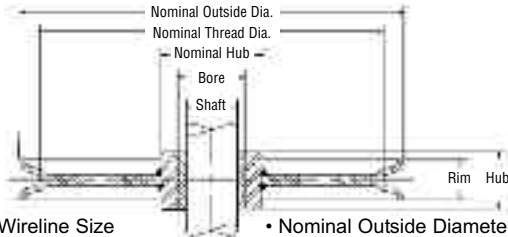
Please call us for Overhaul Ball Dimensions & Information.

**Blocks/Sheaves/Swivels**

# Sheaves (Wire Rope)

## Sheave Ordering Information

Sheaves come in a variety of sizes to suit your specific applications. Check the tables for the size, bearing style and price that best fits your application. For applications that require unique specifications Crosby can make minor modifications to many of the sheaves listed at a reasonable charge. We can also custom design and manufacture sheaves to your exact requirements. Contact us to order McKissick® sheaves and include the stock number and quantity. For special requirements or custom designed sheaves, furnish the following important information:



- Wireline Size
- Shaft Diameter
- Weight Requirements
- Hub Diameter
- Bore Finished
- Nominal Outside Diameter
- Hub Width
- Rim Width
- Nominal Tread Diameter
- Other Special Requirements

### Roll Forged Sheave Features

- Unique upset roll forging process provides a thicker groove section for extra strength.
- Stepped Hubs are precisely centered and mechanically locked in place.
- Wireline grooves on sheave diameters of 14" and larger are flamed hardened for extra wear resistance.
- All sheaves have solid steel webs with holes for easy handling.
- Sheave weights can be made heavier or lighter than shown to fit your specific application.
- Sheaves available in sizes from 12" - 72", and wireline sizes from 3/8" - 3".
- For more information ask for our special brochure describing the complete roll forging process.

### Sheave Bearing Application Information

#### Bronze Bushing -

Slow line speed, moderate load and moderate use,  
Maximum Bearing Pressure (BP): 4500 PSI  
Maximum Velocity at Bearing (BV) 1200 FPM  
Maximum Pressure Velocity Factor (PV): 55000

$$\text{Formula for BP} = \frac{\text{Line Pull} \times \text{Angle Factor}}{\text{Shaft Size} \times \text{Hub Width}}$$

#### Plain Bore

Very slow line speed, very infrequent use, low load.

#### Roller Bearing

Faster line speeds, more frequent use, greater load.

#### Example:

Using a 14 in. sheave (917191) with a 4600 lb. line pull and a 80 degree angle between lines, determine maximum allowable line speed.

$$\text{BP} = 4600 \text{ lbs.} \times 1.53 + 1.50 \times 1.62 = 2896 \text{ PSI}$$

(Line Pull) (Angle Factor) (Hub Width)  
(Shaft Size)

$$\text{BV} = 55000 \div 2896 = 19 \text{ FPM}$$

(PV Factor) (BP)

## Wire Rope Sheaves - McKissick® Bronze Bushed Sheaves

- Bronze Bushed Sheaves are equipped with S.A.E. 660 Bronze Bushings for cold finished shafts with "Figure 8" oil groove. For sizes not listed, McKissick Finished Bore Sheaves can be equipped with bronze bushings at an optional charge.
- Roll Forged sheaves are available in sizes up to 72" in diameter.



## Wire Rope Sheaves - McKissick® Bronze Bushed Sheaves Specs

Nominal Outside Dia. (in)	Stock No.	Pattern No.	Wire Line Size (in)	Shaft Size (in)	Hub Width (in)	Rim Width (in)	Nominal Hub Outside Dia. (in)	Nominal Tread Dia. (in)	Material	Approx. Wt. (lbs)
2-1/4	907004	1173	1/4	3/8*	5/8	9/16	3/4	1-7/8	B.S.	.75
3	907059	1173	3/16	3/8*	25/32	3/4	1	2-3/8	P.M.	1.00
3	907077	1173	3/16	1/2*	25/32	3/4	1	2-3/8	P.M.	1.00
3	907095	1173	3/16	5/8*	25/32	3/4	1	2-3/8	P.M.	1.00
3	907022	1173	1/4	3/8*	1/2	1/2	1	2-5/8	P.M.	.75
3	907040	1173	1/4	1/2*	1/2	1/2	1	2-5/8	P.M.	.75
3	460165	3X	1/4	1/2*	1-5/16	1-1/4	1-1/8	2-1/16	B.S.	1.00
3	460110	3-1	5/16	3/4	1	7/8	1-3/4	2-1/4	P.M.	1.50
3	907068	1173	3/8	3/8*	3/4	3/4	1	2-3/8	P.M.	1.00
3	916101	1208	3/8	1/2*	25/32	3/4	1-1/2	2-3/8	B.S.	1.00
3	907086	1173	3/8	1/2*	3/4	3/4	1	2-3/8	P.M.	1.00
3	916110	1208	3/8	1/2*	25/32	3/4	1-1/2	2-3/8	B.S.	1.00
3	460156	3X	3/8	1/2*	1-5/16	1-1/4	1-1/8	2-1/16	B.S.	1.00
3	907102	1173	3/8	5/8*	3/4	3/4	1	2-3/8	P.M.	1.00
3	460147	3-1	3/8	3/4	1	7/8	1-3/4	2-1/4	P.M.	1.50
3	460129	3-1	7/16	3/4	1	7/8	1-3/4	2-1/4	P.M.	1.50
3	916129	1208	1/2	3/8*	1-1/4	1-1/8	1-7/8	2	B.S.	1.33
3	916138	1208	1/2	1/2*	1-1/4	1-1/8	1-7/8	2	B.S.	1.50
4	460290	4-1	1/8	1	1	7/8	2	3-1/8	B.S.	2.00
4	907111	1173	3/16	1/2*	3/4	5/8	1-3/8	3-1/2	P.M.	1.00
4	907139	1173	3/16	5/8*	3/4	5/8	1-3/8	3-1/2	P.M.	1.00
4	916147	1208	1/4	1/2*	13/16	3/4	2	3-1/4	B.S.	1.50
4	916165	1208	1/4	3/4*	13/16	3/4	2	3-1/4	B.S.	1.50
4	460307	4-1	1/4	1	1	7/8	2	3-1/8	B.S.	2.00
4	907120	1173	5/16	1/2*	3/4	5/8	1-3/8	3-1/2	P.M.	1.00
4	907148	1173	5/16	5/8*	3/4	5/8	1-3/8	3-1/2	P.M.	1.00
4	907166	1173	3/8	1/2*	13/16	3/4	1-1/2	3-1/4	P.M.	1.25
4	916156	1208	3/8	1/2*	13/16	3/4	2	3-1/4	B.S.	1.50
4	907184	1173	3/8	5/8*	13/16	3/4	1-1/2	3-1/4	P.M.	1.40
4	907200	1173	3/8	3/4*	13/16	3/4	1-1/2	3-1/4	P.M.	1.25
4	460316	4-1	3/8	1	1	7/8	2	3-1/8	B.S.	2.00
4	907228	1173	1/2	1/2*	1-1/16	1	1-5/8	3-3/16	P.M.	1.50
4	916192	1208	1/2	1/2*	1-1/8	1	1-5/8	3-3/16	B.S.	2.00
4	907246	1173	1/2	5/8*	1-1/16	1	1-5/8	3-3/16	P.M.	1.50
4	907264	1173	1/2	3/4*	1-1/16	1	1-5/8	3-3/16	P.M.	1.50
4	916174	1208	3/8	3/4*	13/16	3/4	2	3-1/4	B.S.	1.50
4-1/8	460414	4-K	3/8	1	1-1/2	1-3/8	2	3	F.S.	3.50
4-1/8	460405	4-K	1/2	1	1-1/2	1-3/8	2	3	F.S.	3.50
4-1/8	460423	4-K	5/8	1	1-1/2	1-3/8	2	3	F.S.	3.50
4-1/4	460450	4E	3/8	5/8*	1-3/16	15/16	2-1/8	3-3/8	B.S.	2.40
4-1/4	460441	4E	1/2	5/8*	1-3/16	15/16	2-1/8	3-3/8	B.S.	2.40
4-3/4	460575	5-2	5/16	5/8	1-9/16	1-3/8	1-1/2	3-5/8	C.I.	3.50
4-3/4	460584	5-2	3/8	5/8	1-9/16	1-3/8	1-1/2	3-5/8	C.I.	3.50
4-3/4	460593	5-2	1/2	5/8	1-9/16	1-3/8	1-1/2	3-5/8	C.I.	3.50
4-7/8	460478	5-1-B	3/8	1-1/4	1-1/4	1-1/8	2-1/4	4-1/16	F.S.	3.60
4-7/8	460487	5-1-B	1/2	1-1/4	1-1/4	1-1/8	2-1/4	4-1/16	F.S.	3.60
4-7/8	460469	5-1-B	5/8	1-1/4	1-1/4	1-1/8	2-1/4	4-1/16	F.S.	3.60
5	907273	1173	3/16	5/8*	15/16	7/8	2-1/4	4-1/4	P.M.	2.25
5	907291	1173	3/16	3/4*	15/16	7/8	2-1/4	4-1/4	P.M.	2.25
5	460511	5-1	5/16	3/4	1	7/8	1-1/2	4	F.S.	2.50
5	907282	1173	3/8	5/8*	15/16	7/8	2-1/4	4-1/4	P.M.	2.75
5	907308	1173	3/8	3/4*	15/16	7/8	2-1/4	4-1/4	P.M.	2.80
5	460520	5-1	3/8	3/4	1	7/8	1-1/2	4	F.S.	2.50
5	460539	5-1	7/16	3/4	1	7/8	1-1/2	4	F.S.	2.50
5	907326	1173	1/2	5/8*	1-1/16	1	2-1/4	4	P.M.	2.50
5	907362	1173	1/2	5/8*	1-3/16	1-1/8	2-1/4	4	C.I.	4.00
5	907344	1173	1/2	3/4*	1-1/16	1	2-1/4	4	P.M.	2.50
5	907380	1173	1/2	3/4*	1-3/16	1-1/8	2-1/4	4	C.I.	4.00
5	907406	1173	1/2	7/8*	1-3/16	1-1/8	2-1/4	4	C.I.	4.00
5-1/4	460628	6-6	5/8	1	1-1/2	1-3/8	2-1/16	3-7/8	F.S.	4.00
5-1/4	460637	6-6	3/4	1	1-1/2	1-3/8	2-1/16	3-7/8	F.S.	4.00
5-7/8	460806	6-2	5/8	1-1/2	1-3/4	1-5/8	2-1/2	4-3/8	F.S.	6.00
5-7/8	460815	6-2	3/4	1-1/2	1-3/4	1-5/8	2-1/2	4-3/8	F.S.	6.00
5-7/8	460824	6-2	7/8	1-1/2	1-3/4	1-5/8	2-1/2	4-3/8	F.S.	6.00
6	907424	1173	3/8	1/2*	13/16	3/4	1-7/8	5	P.M.	2.50
6	907488	1173	3/8	1/2*	1-1/16	1	1-7/8	5	P.M.	2.50
6	907442	1173	3/8	5/8*	13/16	3/4	1-7/8	5	P.M.	2.50
6	907503	1173	3/8	5/8*	1-1/16	1	1-7/8	5	P.M.	2.50
6	907460	1173	3/8	3/4*	13/16	3/4	1-7/8	5	P.M.	2.50
6	907521	1173	3/8	3/4*	1-1/16	1	1-7/8	5	P.M.	4.26
6	916218	6-1	3/8	3/4*	1-1/16	1	2	5-1/8	F.S.	4.00
6	916245	6-1	3/8	7/8*	1-1/16	1	2	5-1/8	F.S.	4.00
6	916272	6-1	3/8	1*	1-1/16	1	2	5-1/8	F.S.	4.00
6	460682	6-1-B	3/8	1-1/4	1-1/8	1	2-1/4	4-15/16	F.S.	3.70
6	907549	1173	1/2	5/8*	1-3/16	1-1/8	1-7/8	4-7/8	P.M.	5.00
6	907567	1173	1/2	3/4*	1-3/16	1-1/8	1-7/8	4-7/8	P.M.	4.72
6	913024	1193	1/2	7/8*	1-1/16	1	1-7/8	4-7/8	P.M.	3.75
6	460879	6-8	1/2	1	1-1/2	1-1/4	3-1/8	4-3/4	C.S.	7.00

- continues -

# Sheaves (Wire Rope)

Wire Rope Sheaves - McKissick®  
 Bronze Bushed Sheaves Specs (continued)

Nominal Outside Dia. (in)	Stock No.	Pattern No.	Wire Line Size (in)	Shaft Size (in)	Hub Width (in)	Rim Width (in)	Nominal Hub Outside Dia. (in)	Nominal Tread Dia. (in)	Approx. Material	Wt. (lbs)
6	460673	6-1-B	1/2	1-1/4*	1	1	2-1/4	4-15/16	F.S.	3.63
6	913042	1193	1/2	1	1-1/16	1	1-7/8	4-7/8	P.M.	11.20
6	916227	6-1	5/8	3/4*	1-1/16	1	2	5-1/8	F.S.	4.00
6	913060	1193	5/8	3/4*	1-5/16	1-1/4	1-7/8	4-3/4	P.M.	3.75
6	916254	6-1	5/8	7/8*	1-1/16	1	2	5-1/8	F.S.	4.00
6	913088	1193	5/8	7/8*	1-5/16	1-1/4	1-7/8	4-3/4	P.M.	5.00
6	916281	6-1	5/8	1*	1-1/16	1	2	5-1/8	F.S.	4.00
6	913104	1193	5/8	1*	1-5/16	1-1/4	1-7/8	4-3/4	P.M.	3.75
6	460922	6NS-2	5/8	2	2-5/16	2-3/16	3-1/8	4-1/4	F.S.	9.50
6	460897	6-8	3/4	1	1-1/2	1-1/4	3-1/8	4-3/4	C.S.	7.00
6	913168	1193	3/4	1	1-9/16	1-1/2	3	4-5/8	P.M.	6.75
6	460931	6NS-2	3/4	2	2-5/16	2-3/16	3-1/8	4-1/4	F.S.	9.50
6	460940	6NS-2	7/8	2	2-5/16	2-3/16	3-1/8	4-1/4	F.S.	9.50
6-3/4	907692	1173	1/4	3/4*	1-3/16	1-1/8	2	5-7/8	C.I.	5.00
6-3/4	907718	1173	1/4	1*	1-3/16	1-1/8	2	5-7/8	C.I.	5.00
6-3/4	907709	1173	3/8	3/4*	1-3/16	1-1/8	2	5-7/8	C.I.	5.00
6-3/4	907727	1173	3/8	1*	1-3/16	1-1/8	2	5-7/8	C.I.	5.00
7	461020	7-1	1/4	1-1/2	1-3/8	3/4	2-3/8	6-1/4	B.S.	6.20
7	461039	7-1	3/8	1-1/2	1-3/8	3/4	2-3/8	6-1/4	B.S.	6.20
7	907629	1173	1/2	3/4*	1-1/16	1	2	5-5/8	C.I.	4.25
7	907647	1173	1/2	7/8*	1-1/16	1	2	5-5/8	C.I.	4.25
7-1/2	460986	8-7	5/8	1	1-1/2	1-3/8	2-1/16	6-5/16	F.S.	7.50
7-1/2	460977	8-7	3/4	1	1-1/2	1-3/8	2-1/16	6-5/16	F.S.	7.50
7-5/8	461262	8-10	3/8	1	1-1/2	1-1/4	2-3/8	6-3/16	C.I.	7.00
7-5/8	461280	8-10	1/2	1	1-1/2	1-1/4	2-3/8	6-3/16	C.I.	7.00
7-5/8	461271	8-10	5/8	1	1-1/2	1-1/4	2-3/8	6-3/16	C.I.	7.00
8	461431	8NS-3	1	2-1/4	2-1/2	2-3/8	4-1/2	5-3/8	R.F.	18.00
8	461440	8NS-3	1-1/8	2-1/4	2-1/2	2-3/8	4-1/2	5-3/8	R.F.	18.00
8	461164	8-2	3/4	1-1/2	1-3/4	1-5/8	2-9/16	6-5/16	F.S.	10.00
8	907745	1173	1/2	3/4*	1-1/8	1	2-3/8	6-7/8	C.I.	5.00
8	916487	8-1	1/2	3/4*	1-3/8	1-1/4	2	6-5/8	F.S.	7.00
8	907763	1173	1/2	7/8*	1-1/8	1	2-3/8	6-7/8	C.I.	5.00
8	916502	8-1	1/2	7/8*	1-3/8	1-1/4	2	6-5/8	F.S.	7.00
8	907781	1173	1/2	1*	1-1/8	1	2-3/8	6-7/8	C.I.	5.59
8	916520	8-1	1/2	1*	1-3/8	1-1/4	2	6-5/8	F.S.	7.00
8	916548	8-1	1/2	1-1/8*	1-3/8	1-1/4	2	6-5/8	F.S.	7.00
8	916566	8-1	1/2	1-1/4*	1-3/8	1-1/4	2	6-5/8	F.S.	7.00
8	461235	8-2	1/2	1-1/2	1-1/2	1-3/8	2-7/8	6-5/8	F.S.	7.00
8	461146	8-2	1/2	1-1/2	1-3/4	1-5/8	2-9/16	6-5/16	F.S.	10.00
8	907807	1173	5/8	3/4*	1-3/8	1-1/4	2	6-1/2	C.I.	6.75
8	907825	1173	5/8	7/8*	1-3/8	1-1/4	2	6-1/2	C.I.	6.75
8	913300	1193	5/8	7/8*	1-3/8	1-1/4	2-1/2	6-5/8	C.I.	8.50
8	913328	1193	5/8	1*	1-3/8	1-1/4	2-3/4	6-5/8	C.I.	7.20
8	913346	1193	5/8	1-1/8*	1-3/8	1-1/4	2-1/2	6-5/8	C.I.	8.50
8	913364	1193	5/8	1-1/4*	1-3/8	1-1/4	2-1/2	6-5/8	C.I.	8.50
8	913382	1193	5/8	1-1/2*	1-3/8	1-1/4	2-1/2	6-5/8	C.I.	8.50
8	461244	8-2	5/8	1-1/2	1-1/2	1-3/8	2-7/16	6-5/8	F.S.	7.00
8	461155	8-2	5/8	1-1/2	1-3/4	1-5/8	2-9/16	6-5/16	F.S.	10.00
8	461253	8-2	3/4	1-1/2	1-1/2	1-3/8	2-7/16	6-5/8	F.S.	7.00
8	461351	8NS-2	3/4	2	2-5/16	2-1/8	3-1/4	6-1/8	F.S.	12.50
8	461397	8NS-2-RB	3/4	2-3/4	2-5/16	2-3/16	3-3/4	6	R.F.	10.50
8	461360	8NS-2	7/8	2	2-5/16	2-1/8	3-1/4	6-1/8	F.S.	12.50
8	461501	8NS-5	1-1/8	3-1/2	2-1/2	2-3/8	5	5-7/16	C.S.	15.00
9-7/8	462831	10-11	3/8	2-1/2	1-3/4	1-1/8	3-3/4	8-9/16	C.S.	14.00
9-7/8	462154	10-1	1/2	1*	1-1/2	1-3/8	3-1/4	8-1/2	F.S.	9.50
9-7/8	461789	10-2	1/2	1-1/2	1-3/4	1-5/8	2-9/16	8-5/16	F.S.	14.50
9-7/8	462840	10-11	1/2	2-1/2	1-3/4	1-1/8	3-3/4	8-9/16	C.S.	14.00
9-7/8	462163	10-1	5/8	1*	1-1/2	1-3/8	3-1/4	8-1/2	F.S.	9.50
9-7/8	461798	10-2	5/8	1-1/2	1-3/4	1-5/8	2-9/16	8-5/16	F.S.	14.50
9-7/8	461805	10-2	3/4	1-1/2	1-3/4	1-5/8	2-9/16	8-5/16	F.S.	14.50
9-7/8	462001	10NS-2	7/8	2	2-5/16	2-3/16	3-1/2	8-1/8	F.S.	15.00
9-7/8	462010	10NS-2	1	2	2-5/16	2-3/16	3-1/2	8-1/8	F.S.	15.00
9-7/8	462083	10NS-3	1-1/8	2-1/4	2-1/2	2-3/8	4-1/2	7-3/8	R.F.	27.00
10	462118	10NS-5	1-1/8	3-1/2	2-1/2	2-3/8	5-3/4	7-3/8	R.F.	28.00
10	907923	1173	1/2	7/8*	1-1/8	1	2-7/8	8-3/4	C.I.	10.00
10	907941	1173	1/2	1*	1-1/8	1	2-7/8	8-3/4	C.I.	11.80
10	907969	1173	5/8	3/4*	1-3/8	1-1/4	2	8-1/2	C.I.	9.25
10	907987	1173	5/8	7/8*	1-3/8	1-1/4	2	8-1/2	C.I.	9.25
10	916717	10-1	5/8	7/8*	1-3/8	1-1/4	2-3/4	8-1/2	F.S.	10.00
10	913685	1193	5/8	7/8*	1-3/8	1-1/4	3	8-1/2	C.I.	13.50
10	908003	1173	5/8	1*	1-3/8	1-1/4	2	8-1/2	C.I.	9.25
10	916726	10-1	5/8	1-	1-3/8	1-1/4	2-3/4	8-1/2	F.S.	14.00
10	916744	10-1	5/8	1-1/4*	1-3/8	1-1/4	2-3/4	8-1/2	F.S.	14.00
10	913765	1193	5/8	1-1/2*	1-3/8	1-1/4	3	8-1/2	C.I.	12.60
10	913863	10-1	3/4	1-1/2*	1-5/8	1-1/2	3-1/2	8-1/4	F.S.	16.00
10	916824	1208	3/4	1-1/4*	1-5/8	1-1/2	3-1/2	7-3/4	R.F.	17.00
10	913845	10-1	3/4	1-1/4*	1-5/8	1-1/2	3-1/2	8-1/4	F.S.	16.00
10	916833	1208	3/4	1-1/2*	1-5/8	1-1/2	3-1/4	7-3/4	R.F.	17.00

- continues -

Material: B.S.= Bar Steel, C.I.= Cast Iron, F.S.= Forged Steel, D.I.= Ductile Iron, C.S.= Cast Steel, P.M.= Powdered Metal, R.E.=Roll Forged

\*Self Lubricating Bushing \*\* Without Flame Hardening

Wire Rope Sheaves - McKissick®  
 Bronze Bushed Sheaves Specs (continued)

Nominal Outside Dia. (in)	Stock No.	Pattern No.	Wire Line Size (in)	Shaft Size (in)	Hub Width (in)	Rim Width (in)	Nominal Hub Outside Dia. (in)	Nominal Tread Dia. (in)	Material	Approx. Wt. (lbs)
10	913807	10-1	3/4	1*	1-5/8	1-1/2	3-1/2	8-1/4	F.S.	16.00
11-7/8	462323	12-6	3/8	2-1/2	2-5/16	1	3-3/4	10-3/4	D.I.	11.20
12	462270	12-1	5/8	1-1/2	1-3/4	1-5/8	3-1/4	10-1/4	R.F.	22.00
12	462289	12-1	3/4	1-1/2	1-3/4	1-5/8	3-1/4	9-3/8	R.F.	22.00
12	462298	12-1	7/8	1-1/2	1-3/4	1-5/8	3-1/4	10-1/4	R.F.	22.00
12	462564	12-9	5/8	2-1/2	1-3/4	1-5/8	4-1/2	10-2/3	R.F.	24.00
12	462573	12-9	3/4	2-1/2	1-3/4	1-5/8	4-1/2	9-3/8	R.F.	24.00
12	908049	1173	1/2	1*	1-1/8	1	4	10-5/8	C.I.	16.50
12	908085	1173	1/2	1-1/4*	1-1/8	1	4	10-5/8	C.I.	16.50
12	917002	1208	5/8	1*	1-5/8	1-1/2	3-1/4	10-1/8	R.F.	18.00
12	917011	1208	5/8	1-1/8*	1-5/8	1-1/2	3-1/4	10-1/8	R.F.	18.00
12	462387	12-2A	5/8	2	2-5/16	2-3/16	4-1/2	10-1/8	R.F.	26.00
12	908129	1173	3/4	1*	1-5/8	1-1/2	2-3/4	10-1/4	C.I.	18.25
12	908147	1173	3/4	1-1/8*	1-5/8	1-1/2	2-3/4	10-1/4	C.I.	18.25
12	914121	1193	3/4	1-1/8*	1-5/8	1-1/2	5-1/4	10-1/4	C.I.	25.50
12	908165	1173	3/4	1-1/4*	1-5/8	1-1/2	2-3/4	10-1/4	C.I.	18.25
12	914149	1193	3/4	1-1/4*	1-5/8	1-1/2	5-1/4	10-1/4	C.I.	25.50
12	914167	1193	3/4	1-1/2*	1-5/8	1-1/2	5-1/4	10-1/4	C.I.	25.50
12	346593	12-2-A	3/4	2-1/4	2-5/16	2-3/16	4-1/2	9-3/4	R.F.	26.00
12	4104882	12-9	3/4	2-1/2	1-3/4	1-5/8	4-1/2	9-3/4	R.F.	25.00
12	462449	12-2-A	3/4	2	2-5/16	2-3/16	4-1/2	9-3/4	R.F.	26.00
12	4104917	12-2-A	3/4	2-1/2	2-5/16	2-3/16	4-1/2	9-3/4	R.F.	25.00
12	462485	12-5	3/4	3	3	1-7/8	5-1/2	9-3/8	R.F.	21.00
12	908227	1173	7/8	1-1/4*	2	1-3/4	3-3/4	10	C.I.	20.25
12	908245	1173	7/8	1-1/2*	2	1-3/4	3-3/4	10	C.I.	20.25
12	462458	12-2-A	7/8	2	2-5/16	2-3/16	4-1/2	10-1/4	R.F.	26.00
12	462467	12-NS-3	7/8	2-1/4	2-1/2	2-3/8	4-1/2	9-3/8	R.F.	28.00
12	4104891	12-9	7/8	2-1/2	1-3/4	1-5/8	4-1/2	10-1/4	R.F.	25.00
12	462467	12-2-A	1	2	2-5/16	2-3/16	4	10	R.F.	26.00
12	462699	12-NS-3	1-1/8	2-1/4	2-1/2	2-3/8	4-1/2	9-3/8	R.F.	26.00
13	462779	13-2	3/8	2	1-1/2	1-1/8	3-1/2	11-5/8	R.F.	14.00
13	462788	13-2	1/2	2	1-1/2	1-1/8	3-1/2	11-5/8	R.F.	14.00
14	463625	14-1	5/8	1-1/2	1-3/4	1-5/8	3-1/4	12-1/8	R.F.	20.00
14	463634	14-1	3/4	1-1/2	1-3/4	1-5/8	3-1/4	11-3/		

**Blocks/Sheaves/Swivels**

## Sheaves (Wire Rope)

**Wire Rope Sheaves - McKissick®  
 Bronze Bushed Sheaves (continued)**

Nominal Outside Dia. (in)	Stock No.	Pattern No.	Wire Line Size (in)	Shaft Size (in)	Hub Width (in)	Rim Width (in)	Nominal Hub Outside Dia. (in)	Nominal Tread Dia. (in)	Material	Approx. Wt. (lbs)
24	4105355	24TS*8	7/8	5-3/4	3-3/8	3-1/8	8	21	R.F.	133.00
24	4100859	42TS8-2	1	4	3	2-3/4	6-1/2	21-1/8	R.F.	80.00
24	4105382	42TS8-1	1	5-1/2	2-7/8	2-5/8	8	21-1/8	R.F.	130.00
24	4105364	24TS-8	1	5-3/4	3-3/8	3-1/8	8	21-1/8	R.F.	133.00
24	4100868	42TS-8	1-1/8	4	3	2-3/4	6-1/2	20-1/16	R.F.	110.00
24	4105391	42TS8-2	1-1/8	5-1/2	2-7/8	2-5/8	8	20-1/16	R.F.	134.00
24	4105373	24TS-8	1-1/8	5-3/4	3-3/8	3-1/8	8	20-1/16	R.F.	137.00
30	4105426	48T8-B	7/8	5-3/4	3-3/8	3-1/8	8	27	R.F.	203.00
30	4101215	48T8-B	7/8	6	3-1/2	3-1/8	8	27	R.F.	140.00
30	4105435	48T8-B	1	5-3/4	3-3/8	3-1/8	8	27	R.F.	203.00
30	4105453	48T8-B	1	7	3-1/2	3-1/8	9-1/2	27	R.F.	211.00
30	4105444	48T8-B	1-1/8	5-3/4	3-3/8	3-1/8	8	27	R.F.	203.00
30	4105462	48T8-B	1-1/8	7	3-1/2	3-1/8	9-1/2	26-3/8	R.F.	211.00
30	4105471	48T8-B	1-1/4	7	3-1/2	3-1/8	9-1/2	26-3/8	R.F.	211.00

**Wire Rope Sheaves - McKissick®  
 Roller Bearing Sheaves**

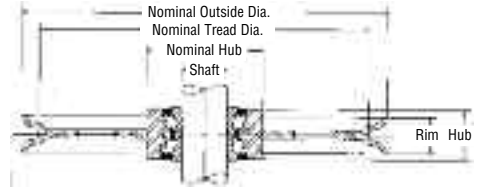
- McKissick Roller Bearing Sheaves are designed to operate on shafts carburized to 60 Rockwell "C" and ground to + /-.0005 of the indicated shaft size. Some sizes are available with an optional inner race. Check with Crosby Sales for prices and correct shaft size.
- Application should provide for 1/32" running clearance over the hub width.
- For sizes not listed, McKissick Finished Bore Sheaves can be equipped with Roller Bearings at an optional charge.
- Roll Forged sheaves are available in sizes up to 72" in dia.



Nominal Outside Dia. (in)	Stock No.	Pattern No.	Wire Line Size (in)	Shaft Size (in)	Hub Width (in)	Rim Width (in)	Nominal Hub Outside Dia. (in)	Nominal Tread Dia. (in)	Material	Approx. Wt. (lbs)
4	472508	4-1	1/8	.997	1	7/8	2	3-1/8	B.S.	2.00
4	472517	4-1	1/4	.997	1	7/8	2	3-1/8	P.M.	2.00
4	472535	4-1	3/8	.997	1	7/8	2	3-1/8	P.M.	2.00
4-1/8	472571	4-K	3/8	.997	1-1/2	1-3/8	2	3	F.S.	3.50
4-1/8	472580	4-K	1/2	.997	1-1/2	1-3/8	2	3	F.S.	3.50
4-1/8	472599	4-K	5/8	.997	1-1/2	1-3/8	2	3	F.S.	3.50
4-7/8	472768	5-1-B	3/8	1.247	1-1/4	1-1/8	2-1/4	4-1/16	F.S.	3.60
4-7/8	472777	5-1-B	1/2	1.247	1-1/4	1-1/8	2-1/4	4-1/16	F.S.	3.60
4-7/8	472786	5-1-B	5/8	1.247	1-1/4	1-1/8	2-1/4	4-1/16	F.S.	3.60
5-1/4	472946	6-6	5/8	.997	1-1/2	1-3/8	2-1/16	3-7/8	F.S.	4.00
5-1/4	472955	6-6	3/4	.997	1-1/2	1-3/8	2-1/16	3-7/8	F.S.	4.00
5-7/8	472697	6-2	5/8	1.497	1-3/4	1-5/8	2-1/2	4-3/8	F.S.	6.00
5-7/8	472688	6-2	3/4	1.497	1-3/4	1-5/8	2-1/2	4-3/8	F.S.	6.00
5-7/8	472679	6-2	7/8	1.497	1-3/4	1-5/8	2-1/2	4-3/8	F.S.	6.00
6	472875	6-8	1/2	1.997	1-3/4	1-1/4	3-1/8	4-3/4	C.S.	7.00
7-1/2	473204	8-7	5/8	.997	1-1/2	1-3/8	2-1/16	6-5/16	F.S.	7.50
7-1/2	473197	8-7	3/4	.997	1-1/2	1-3/8	2-1/16	6-5/16	F.S.	7.50
7-5/8	473311	8-10	3/8	.997	1-1/2	1-1/4	2-3/8	6-3/16	C.I.	7.00
7-5/8	473320	8-10	1/2	.997	1-1/2	1-1/4	2-3/8	6-3/16	C.I.	7.00
7-5/8	473339	8-10	5/8	.997	1-1/2	1-1/4	2-3/8	6-3/16	C.I.	7.00
8	473277	8-2	3/4	1.497	1-3/4	1-5/8	2-9/16	6-5/16	F.S.	10.00
8	473231	8-2	1/2	1.497	1-3/4	1-5/8	2-9/16	6-5/16	F.S.	10.00
8	473268	8-2	5/8	1.497	1-3/4	1-5/8	2-9/16	6-5/16	F.S.	10.00
8	473525	8NS-2	3/4	1.997	2-5/16	2-1/8	3-1/4	6-1/8	F.S.	12.50
9-7/8	473730	10-2	1/2	1.497	1-3/4	1-5/8	2-9/16	8-5/16	F.S.	14.50
9-7/8	473767	10-2	5/8	1.497	1-3/4	1-5/8	2-9/16	8-5/16	F.S.	14.50
9-7/8	473776	10-2	3/4	1.497	1-3/4	1-5/8	2-9/16	8-5/16	F.S.	14.50
9-7/8	474016	10NS-2	3/4	1.997	2-5/16	2-3/16	3-1/2	8-1/8	F.S.	15.00
12	474141	12-1	5/8	1.497	1-3/4	1-5/8	3-1/4	10-1/8	R.F.	18.00
12	474150	12-1	3/4	1.497	1-3/4	1-5/8	3-1/4	9-3/4	R.F.	18.00
12	474169	12-1	7/8	1.497	1-3/4	1-5/8	3-1/4	10-1/4	R.F.	18.00
12	474365	12-9	5/8	2.247	1-3/4	1-5/8	4-1/2	10-1/8	R.F.	16.00
12	474374	12-9	3/4	2.247	1-3/4	1-5/8	4-1/2	9-3/4	R.F.	16.00
14	474766	14-1	5/8	1.497	1-3/4	1-5/8	3-1/4	12	R.F.	20.00
14	474775	14-1	3/4	1.497	1-3/4	1-5/8	3-1/4	11-3/4	R.F.	20.00
14	474784	14-1	7/8	1.497	1-3/4	1-5/8	3-1/4	12-1/4	R.F.	20.00
14	4200563	14-2	5/8	1.997	1-3/4	1-5/8	4-1/2	12-1/8	R.F.	17.00
14	4200572	14-2	3/4	1.997	1-3/4	1-5/8	4-1/2	11-3/4	R.F.	17.00
16	4200705	16-5B	7/8	2.497	2-5/16	2-3/16	4-1/2	12-15/16	R.F.	32.00
18	4201438	18-2	7/8	2.747	2-5/16	2-3/16	5-1/2	14-15/16	R.F.	42.70
18	4200867	18-2	1	2.747	2-5/16	2-3/16	5-1/2	14-7/8	R.F.	66.00
20	4200929	20-2	1	2.997	2-5/16	2-3/16	5-1/2	16-1/2	R.F.	77.00
24	4200117	24-1A	1	2.247	2-1/2	2-3/8	5-1/2	21-1/8	R.F.	75.00

**Wire Rope Sheaves - McKissick®  
 Tapered Bearing Sheaves**

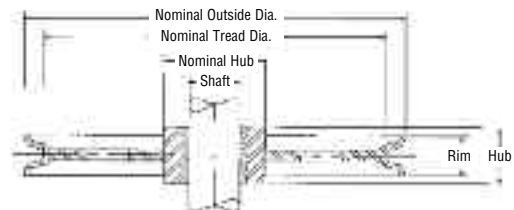
- McKissick Tapered Bearing Sheaves are designed to operate on shafts machined to + /-.0005 of the indicated shaft size. Applications should provide for tightening separator plates against bearing cones to adjust and insure proper function of bearing. For sizes not listed, McKissick Finished Bore Sheaves can be equipped with tapered bearing at an optional charge.
- Roll Forged sheaves are available in sizes up to 72" in diameter.



Nominal Outside Dia. (in)	Stock No.	Pattern No.	Wire Line Size (in)	Shaft Size (in)	Hub Width (in)	Rim Width (in)	Nominal Hub Outside Dia. (in)	Nominal Tread Dia. (in)	Material	Approx. Wt. (lbs)
4-7/8	480269	5-1	3/8	.749	1-3/8	1-1/8	2-1/4	4-1/16	F.S.	3.6
7	480777	7-1	1/4	.749	1-3/8	3/4	2-3/8	6-1/4	B.S.	9
8	481017	8-2	1/2	.749	1-3/8	1-1/4	2-7/16	6-5/8	F.S.	7.0
8-1/2	481044	8DI-8	3/8	.749	1-3/8	1	2-3/4	7-1/2	D.I.	7.5
9-3/4	481295	10-6	3/8	1.499	2-5/16	1	3-3/4	8-3/4	D.I.	11.2
11-7/8	481552	12-6	1/4	1.499	2-5/16	1	3-3/4	10-3/4	D.I.	12.0
12	481445	12-2-A	3/4	1.499	2-5/16	2-3/16	4-1/2	9-3/4	R.F.	24.0
12	481446	12-2-A	7/8	1.499	2-5/16	2-3/16	4-1/2	10-1/4	R.F.	24.0
16	4302793	16-4	1/2	1.998	2-15/16	2-1/2	5-3/4	14-1/4	R.F.	50.0
16	4300599	16-4	3/4	1.998	2-15/16	2-1/2	5-3/4	13-3/8	R.F.	55.0
16	4300018	16-5	7/8	1.499	2-5/16	2-3/16	4-1/2	12-15/16	R.F.	37.0
16	4300054	16-17-B	1	1.998	2-15/16	2-1/2	5-3/4	13-3/8	R.F.	42.0
18	4300081	18-2	3/4	1.998	2-15/16	2-3/16	6-1/2	16	R.F.	40.0
20	4302524**	20-5	5/16	1.998	2-15/16	1-3/8	5-3/4	18-7/8	R.F.	54.0
20	4300161	20-2	3/4	1.998	2-15/16	2-1/8	6-1/2	18	R.F.	87.0
20	4300189	20-2	1	1.998	2-15/16	2-1/8	6-1/2	16-1/2	R.F.	84.0
24	4301721	24TS-8	9/16	4.248	3-1/2	3-1/8	8	22	R.F.	125.0
24	4302720**	24-5	5/8	2.755	2-15/16	1-1/2	6-1/2	21-3/4	R.F.	136.0
24	4300312	24TS-8	7/8	4.248	3-1/2	3-1/8	8	20-7/8	R.F.	125.0
24	4300321	24TS-8	1	4.248	3-1/2	3-1/8	7-5/8	21-1/8	R.F.	125.0
24	4300401	24TS8-2	1-1/8	2.755	2-15/16	2-3/4	6-1/2	20-1/16	R.F.	80.0
24	4300330	24TS-8	1-1/8	4.248	3-1/2	3-1/8	8	20-1/16	R.F.	125.0
24	4300269	24-10	1-1/2	4.248	3-1/2	3-1/8	8-1/4	20	R.F.	125.0
30	4300483	48T8-B	7/8	4.248	3-1/2	3-1/8	8	27	R.F.	140.0
30	4300492	48T8-B	1	4.248	3-1/2	3-1/8	7-5/8	27	R.F.	210.0
30	4300526	48T8-B	1	5.624	3-11/16	3-1/8	9-1/2	27	R.F.	190.0
30	4300508	48T8-B	1-1/8	4.248	3-1/2	3-1/8	8	27	R.F.	140.0
30	4300535	48T8-B	1-1/8	5.624	3-11/16	3-1/8	9-1/2	26-3/8	R.F.	140.0
30	4300704	48T8-B	1-1/4	5.624	3-11/16	3-1/8	9-1/2	26-3/8	R.F.	140.0

**Custom Sheave Form (Sample)**

Bronze Bushing Sheave Shown for Reference



Nominal Outside Diameter = \_\_\_\_\_ Finish / Plain Bore \_\_\_\_\_  
 Quantity \_\_\_\_\_ Other \_\_\_\_\_  
 + Shaft Size = \_\_\_\_\_ + Requires hardened and ground shaft  
 \* Hub Width = \_\_\_\_\_ **MATERIAL TYPE**  
 Rim Width = \_\_\_\_\_ Roll Forged (Flame hardened 14" and larger) \_\_\_\_\_  
 Wire Rope Size = \_\_\_\_\_ Forged Steel \_\_\_\_\_  
 Nominal Tread Dia. (optional) = \_\_\_\_\_ Cast Steel \_\_\_\_\_  
 \_\_\_\_\_ Other \_\_\_\_\_  
 Nominal Hub Dia. (optional) = \_\_\_\_\_  
 + Shaft Size is Bore Size on Plain Bore Sheaves  
 \* Hub width is measured over the cone on Tapered Bearing Sheaves  
**BEARING TYPE**  
 Bronze Bushing \_\_\_\_\_ Line Pull = \_\_\_\_\_  
 + Roller Bearing \_\_\_\_\_ Degree of Wrap = \_\_\_\_\_  
 Tapered Roller Bearings \_\_\_\_\_ Line Speed = \_\_\_\_\_

NOTE: We provide sheaves in a wide array of styles & sizes - give us a call!

# Swivels

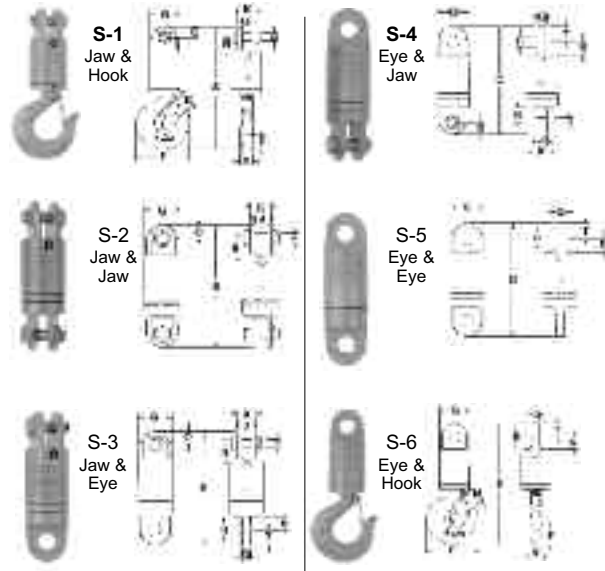
## Swivels Equipped w/Tapered Roller Thrust Bearing

### - Crosby®

- Designed to swivel under load.
- All swivels individually proof tested with certification.
- All hooks furnished with latches assembled.
- All jaws complete with bolts, nuts and cotter pins.
- Pressure lube fitting provided.
- NOT TO BE USED ON DEMOLITION (WRECKING) BALLS.
- Other types and capacities up to 600 tons, available to meet your requirements.

\* Individually Proof tested to 2 times the Working Load Limit. Ultimate Load is 5x the Working Load Limit.

Swivel No. (type)	WLL* (metric tons)	Wire Rope Size (in)	Wt. Each (lbs)	Swivel No. (type)	WLL* (metric tons)	Wire Rope Size (in)	Wt. Each (lbs)
3-S-1	3	1/2	9.81	15-S-1	15	1	73.75
3-S-2	3	1/2	9.63	15-S-2	15	1	62.75
3-S-3	3	1/2	9.12	15-S-3	15	1	61.00
3-S-4	3	1/2	9.00	15-S-4	15	1	61.00
3-S-5	3	1/2	8.50	15-S-5	15	1	49.00
3-S-6	3	1/2	9.32	15-S-6	15	1	63.00
5-S-1	5	5/8	15.51	25-S-1	25	—	140.00
5-S-2	5	5/8	13.69	25-S-2	25	—	140.00
5-S-3	5	5/8	13.50	25-S-3	25	—	135.00
5-S-4	5	5/8	12.33	25-S-4	25	—	135.00
5-S-5	5	5/8	11.30	25-S-5	25	—	130.00
5-S-6	5	5/8	14.24	25-S-6	25	—	135.00
8-1/2-S-1	8-1/2	3/4	29.42	35-S-1	35	—	220.00
8-1/2-S-2	8-1/2	3/4	26.16	35-S-2	35	—	155.00
8-1/2-S-3	8-1/2	3/4	24.90	35-S-3	35	—	150.00
8-1/2-S-4	8-1/2	3/4	29.00	35-S-4	35	—	150.00
8-1/2-S-5	8-1/2	3/4	29.25	35-S-5	35	—	145.00
8-1/2-S-6	8-1/2	3/4	32.00	35-S-6	35	—	215.00
10-S-1	10	7/8	46.75	45-S-1	45	—	251.00
10-S-2	10	7/8	45.75	45-S-2	45	—	235.00
10-S-3	10	7/8	43.50	45-S-3	45	—	225.00
10-S-4	10	7/8	44.00	45-S-4	45	—	225.00
10-S-5	10	7/8	42.00	45-S-5	45	—	215.00
10-S-6	10	7/8	45.50	45-S-6	45	—	270.00



WLL* (metric tons)	Dimensions (in)																			
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	V	D
3	11.38	9.28	9.34	9.41	11.44	4.94	2.75	.75	.88	1.62	1.38	1.34	1.31	1.44	.75	1.03	1.12	1.25	1.12	1.00
5	13.31	10.31	10.06	9.81	13.06	6.50	3.00	.88	1.00	2.25	1.78	1.69	1.62	1.81	1.00	1.28	1.25	1.25	1.38	1.12
8-1/2	16.44	12.62	12.25	11.88	16.06	7.56	4.00	1.00	1.56	2.81	2.12	2.06	2.12	2.25	1.25	1.41	1.62	1.50	1.62	1.38
10	19.72	16.75	16.12	15.50	19.09	8.69	4.50	1.50	1.75	3.38	2.56	2.25	3.50	2.59	1.69	1.69	2.75	1.88	1.94	1.75
15	22.00	17.12	16.75	16.38	21.62	11.00	5.00	1.50	1.75	3.38	2.88	3.00	3.50	3.00	1.94	2.03	2.75	2.12	2.38	1.75
25	26.78	20.75	21.50	22.25	27.53	13.62	6.00	2.00	2.00	4.62	3.44	3.62	3.69	3.66	2.25	2.31	3.88	2.38	3.00	2.38
35	29.94	20.75	21.50	22.25	30.69	14.06	6.50	2.00	2.00	4.62	3.88	3.75	3.69	4.56	2.25	2.31	3.88	2.38	3.19	2.38
45	35.06	25.25	25.88	26.50	35.69	15.44	7.00	2.25	2.50	5.00	4.75	4.25	4.00	5.06	2.50	2.53	4.00	3.00	3.25	3.00

**Important:** Crosby Swivels should only be used with the recommended wire rope. Contact us for the proper wire rope to be used with Crosby Swivels.

\* Individually proof tested to 2x the Working Load Limit. Ultimate load is 5x the Working Load Limit.

**5**  
Blocks/  
Sheaves/  
Swivels

## Swivels w/Angular Contact Ball Bearings - Miller

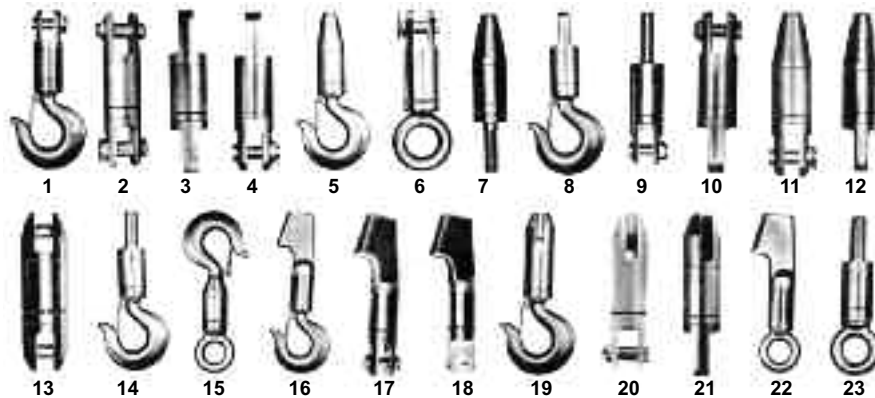
- Miller swivels handle working loads from 1/2 to 250 tons.

Angular contact ball bearings assure longer service life, superior performance, and much longer wire rope life with Miller Swivels. These bearings have much greater load capacity than other types. They are precision-ground, factory-lubricated, and perfectly matched to permit heavy loads to rotate freely, while preventing the load from spinning. Rope life is

extended as much as five times. Miller Swivels are made from the finest, precision-machined alloy steels. Critical parts are heat treated for maximum strength and service life. External surfaces (except forged steel hooks and eye bolts) are zinc-plated to resist corrosion. The Miller line includes virtually every conceivable combination of cap and shank types. Those shown below are only a small sample.



- Built with matched sets of angular contact ball bearings for maximum reliability, efficiency, and service life.
- 17 models for wire rope sizes from 1/8 in. to 1-1/2 in.
- 88 combinations of different cap, swivel, and shank types.



Model	Line Size (in.)	WLL (Tons)
A	1/8	.45
BB	1/4	.75
B	3/8	1.5
C	1/2	3
D	5/8	5
EE	3/4	8.5
G	7/8	10
GG	1	15
H	1-1/4	25
HH	1-1/2	35
I	N/A	45
J	N/A	50
JJ	N/A	60
K	N/A	75
KK	N/A	100
KKK	N/A	150
M	N/A	250

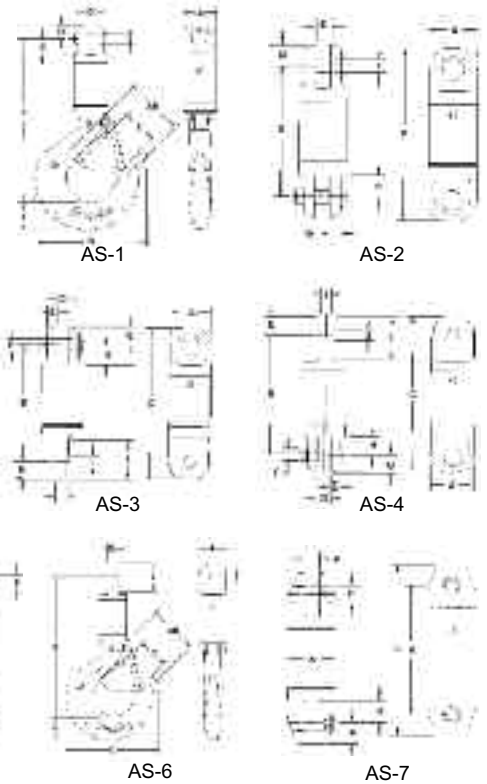
The complete Miller Swivel line includes virtually every conceivable combination of cap and shank types. Even the 23 standard combinations illustrated above do not exhaust the possibilities; special cap/shank combinations for unusual applications are available. Models listed at right designate wire rope sizes and working loads in tons.

**Blocks/Sheaves/Swivels**

# Swivels

## Angular Contact Bearing Swivels - Crosby®

- Wide range of product available.
  - Capacity: .45 through 35 tons
  - Wire Rope Sizes: 1/8" through 1-1/2"
  - Models: 7 standard configurations
- Angular contact bearings maximize efficiency, reliability and service life of swivel and extend the life of the wire rope.
- Designed for high rotation speed: Lower torque required to initiate rotation.
- Individually Proof Tested to 2 times the Working Load Limit with certification.
- Hook models utilize genuine Crosby hooks which are forged alloy steel, Quenched and Tempered and contain the patented QUIC-CHECK™ markings.
- Design Factor of 5 to 1.
- Entire swivel is Zinc plated to resist corrosion.
- Each swivel, 8.5 tons and larger is furnished with a pressure lubrication fitting for proper field maintenance.



AS-1 Jaw & Hook				Dimensions (in.)								Deformation Indicator AA	
* WLL (tons)	Wire Line Size (in.)	AS-1 Stock No.	Wt. Each (lbs)	A	B	C	D	E	F	G	H		I
.45	1/8	1016001	.7	.88	.25	.25	.38	.41	4.25	2.88	.88	.75	1.50
.75	1/4	1016010	1.5	1.31	.38	.31	.44	.56	5.38	3.19	.97	.84	1.50
1.5	3/8	1016025	2.3	1.63	.50	.50	.69	.78	6.25	4.09	1.13	1.13	1.50
3.0	1/2	1016026	6.5	2.00	.75	.75	.94	1.19	8.63	4.94	1.06	1.44	2.50
5.0	5/8	1016040	12.9	2.50	.88	1.00	1.13	1.53	10.69	6.50	1.81	1.81	3.00
8.5	3/4	1016045	26.4	3.00	1.19	1.56	1.34	2.09	13.69	8.69	1.91	2.59	4.00
10	7/8	1016056	53.0	4.00	1.50	1.75	1.75	3.50	17.75	11.00	2.75	3.00	5.00
15	1	1016064	53.0	4.00	1.50	1.75	1.75	3.50	17.75	11.00	2.75	3.00	5.00
25	1-1/4	1016075	97.0	5.00	2.00	2.38	3.69	20.88	13.63	3.38	3.63	3.63	6.50
35	1-1/2	1016082	140.0	5.00	2.00	2.00	2.38	3.69	24.00	14.06	3.00	4.56	7.00

AS-2 Jaw & Jaw				Dimensions (in.)							
* WLL (tons)	Wire Line Size (in.)	AS-2 Stock No.	Wt. Each (lbs)	A	B	C	D	E	F	G	H
.45	1/8	1016103	.4	.88	.25	3.13	.38	.25	.25	.19	.41
.75	1/4	1016114	.9	1.31	.38	4.44	.44	.31	.38	.22	.56
1.5	3/8	1016122	2.0	1.63	.50	5.44	.69	.50	.50	.28	.78
3.0	1/2	1016131	4.9	2.00	.75	8.13	.94	.75	.75	.38	1.19
5.0	5/8	1016139	9.6	2.50	.88	10.63	1.13	1.00	.88	.53	1.53
8.5	3/4	1016148	15.8	3.00	1.19	12.31	1.34	1.56	1.19	.56	2.09
10	7/8	1016157	40.0	4.00	1.50	17.50	1.75	1.75	1.50	.81	3.50
15	1	1016166	40.0	4.00	1.50	17.50	1.75	1.75	1.50	.81	3.50
25	1-1/4	1016175	78.0	5.00	2.00	20.69	2.38	2.00	2.03	1.13	3.69
35	1-1/2	1016184	78.0	5.00	2.00	20.69	2.38	2.00	2.03	1.13	3.69

AS-3 Jaw & Eye				Dimensions (in.)											
* WLL (tons)	Wire Line Size (in.)	AS-3 Stock No.	Wt. Each (lbs)	A	B	C	D	E	F	G	H	I	J	K	L
.45	1/8	1016205	.3	.88	2.50	3.25	.25	.19	.25	.38	.41	.25	.25	.38	.84
.75	1/4	1016216	.9	1.31	3.69	4.56	.31	.22	.38	.44	.56	.31	.38	.44	.88
1.5	3/8	1016224	1.9	1.63	4.19	5.44	.50	.28	.50	.69	.78	.50	.66	.63	1.38
3.0	1/2	1016232	4.6	2.00	6.19	8.13	.75	.38	.75	.94	1.19	.75	.91	1.00	2.00
5.0	5/8	1016243	9.1	2.50	7.88	10.19	1.00	.53	.88	1.13	1.50	1.00	1.25	1.19	2.63
8.5	3/4	1016250	15.6	3.00	9.50	12.25	1.56	.56	1.25	1.34	2.09	1.25	1.41	1.50	3.13
10	7/8	1016259	39.0	4.00	13.75	17.31	1.75	.81	1.50	1.75	3.50	2.00	1.63	1.81	4.69
15	1	1016268	40.0	4.00	13.44	17.31	1.75	.81	1.50	1.75	3.50	2.00	2.00	2.13	4.69
25	1-1/4	1016277	78.0	5.00	16.00	20.75	2.00	1.13	2.00	2.38	3.69	2.25	2.31	2.38	5.25
35	1-1/2	1016286	78.0	5.00	16.00	20.75	2.00	1.13	2.00	2.38	3.69	2.25	2.31	2.38	5.25

AS-4 Eye & Jaw				Dimensions (in.)											
* WLL (tons)	Wire Line Size (in.)	AS-4 Stock No.	Wt. Each (lbs)	A	B	C	D	E	F	G	H	I	J	K	L
.45	1/8	1016306	.3	.88	2.50	3.25	.25	.19	.25	.38	.41	.25	.25	.38	.81
.75	1/4	1016314	.9	1.31	3.63	4.56	.31	.22	.38	.44	.56	.31	.38	.44	.88
1.5	3/8	1016325	1.9	1.63	4.19	5.50	.50	.28	.50	.69	.78	.50	.66	.63	1.34
3.0	1/2	1016332	4.6	2.00	6.19	8.13	.75	.38	.75	.94	1.19	.75	.91	1.00	2.00
5.0	5/8	1016343	9.1	2.50	7.88	10.19	1.00	.53	.88	1.13	1.44	1.00	1.25	1.19	2.63
8.5	3/4	1016352	15.7	3.00	9.44	12.25	1.56	.56	1.19	1.34	2.09	1.25	1.41	1.50	3.13
10	7/8	1016361	39.0	4.00	14.13	17.75	1.75	.81	1.50	1.75	3.50	2.00	1.66	1.81	4.69
15	1	1016370	40.0	4.00	13.81	17.75	1.75	.81	1.50	1.75	3.50	2.00	2.03	2.13	4.69
25	1-1/4	1016375	75.0	5.00	15.94	20.75	2.00	1.13	2.31	2.38	3.69	2.25	2.31	2.38	5.25
35	1-1/2	1016379	75.0	5.00	15.94	20.75	2.00	1.13	2.31	2.38	3.69	2.25	2.31	2.38	5.25

AS-5 Eye & Eye				Dimensions (in.)						
* WLL (tons)	Wire Line Size (in.)	AS-5 Stock No.	Wt. Each (lbs)	A	B	C	D	E	F	G
.45	1/8	1016409	.3	.88	2.63	3.38	.38	.25	.25	.81
.75	1/4	1016418	.9	1.31	3.75	4.63	.44	.31	.38	.88
1.5	3/8	1016427	1.8	1.63	4.31	5.56	.63	.50	.66	1.34
3.0	1/2	1016436	4.3	2.00	6.13	8.13	1.00	.75	.91	2.00
5.0	5/8	1016445	8.6	2.50	7.75	10.63	1.19	1.00	1.25	2.63
8.5	3/4	1016454	15.4	3.00	9.31	12.31	1.50	1.25	1.41	3.13
10	7/8	1016463	37.0	4.00	13.88	17.50	1.81	1.72	1.63	4.69
15	1	1016472	39.0	4.00	13.25	17.50	2.13	2.00	2.13	4.69
25	1-1/4	1016481	72.0	5.00	16.00	20.75	2.38	2.25	2.31	5.25
35	1-1/2	1016490	72.0	5.00	16.00	20.75	2.38	2.25	2.31	5.25

AS-6 Eye & Hook				Dimensions (in.)								Deformation Indicator AA
* WLL (tons)	Wire Line Size (in.)	AS-6 Stock No.	Wt. Each (lbs)	A	B	C	D	E	F	G	H	
.45	1/8	1016502	.7	.88	4.31	2.88	.88	.25	.81	.25	.75	1.50
.75	1/4	1016513	1.5	1.31	5.50	3.19	.97	.38	.88	.31	.84	1.50
1.5	3/8	1016520	2.9	1.63	6.13	4.09	1.13	.66	1.34	.50	1.13	1.50
3.0	1/2	1016529	6.2	2.00	8.56	4.94	1.06	.91	2.00	.75	1.44	2.50
5.0	5/8	1016538	12.4	2.50	10.75	6.50	1.81	1.25	2.63	1.00	1.81	3.00
8.5	3/4	1016547	23.5	3.00	13.56	8.69	1.90	1.40	3.13	1.25	2.59	4.00
10	7/8	1016556	52.0	4.00	17.88	11.00	2.75	1.66	4.69	1.72	3.00	5.00
15	1	1016565	53.0	4.00	17.44	11.00	2.75	2.03	4.69	2.00	3.00	5.00
25	1-1/4	1016574	94.0	5.00	20.88	13.63	3.38	2.34	5.25	2.25	3.63	6.50
35	1-1/2	1016583	138.0	5.00	24.00	14.06	3.00	2.34	5.25	2.25	4.63	7.00

AS-7 Bullet Style Jaw & Jaw				Dimensions (in.)						
* WLL (tons)	Wire Line Size (in.)	AS-7 Stock No.	Wt. Each (lbs)	A	B	C	D	E	F	G
.45	1/8	1016604	.4	.88	2.38	3.13	.38	.25	.31	.40
.75	1/4	1016611	1.1	1.31	3.56	4.44	.44	.31	.38	.56
1.5	3/8	1016622	1.8	1.63	4.06	5.19	.56	.50	.44	.81
3.0	1/2	1016631	3.8	2.00	5.44	7.06	.81	.75	.63	.94
5.0	5/8	1016640	8.0	2.50	7.75	10.06	1.13	1.00	.88	1.56
8.5	3/4	1016649	14.5	3.00	9.88	12.38	1.25	1.31	1.00	2.13
10	7/8	1016652	40.0	4.00	13.13	16.75	1.75	1.75	1.50	3.25
15	1	1016658	40.0	4.00	13.13	16.75	1.75	1.75	1.50	3.25
25	1-1/4	1016662	84.0	5.00	15.94	20.75	2.38	2.00	2.00	3.69
35	1-1/2	1016667	84.0	5.00	15.94	20.75	2.38	2.00	2.00	3.69

\*Ultimate Load is 5x Working Load Limit.

**5**  
Blocks/  
Sheaves/  
Swivels

# Swivels

## Hydraulic Load Positioner

### Models LP & LLP

#### Product Features (Both Models):

- Completely self contained hydraulic link between the hoist and load
- Positioning to within 0.001"
- Lowering speed 0-5 FPM, infinitely variable
- Automatic stop when control rope is released.
- Automatically resets when load is removed
- Eliminates hoist joggling

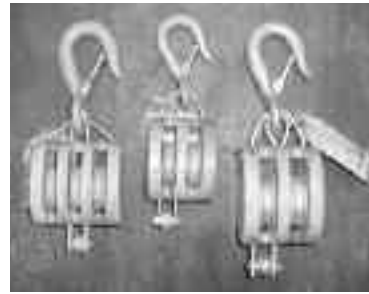
#### Specific Features (Model LLP):

- Lift increments .005" per stroke
- Overload protection at 110% rated load



Model LP-Load Positioner											
Model No.	Rated Cap. (lbs)		Stroke (in)	Dimensions (in)							Wt. (lbs)
	Max	Min		A	B	C	D	E	F	G	
LP-1/2-3	1000	50	3	18	1-1/2	1-1/2	2	-	1	16-7/8	12
LP-2-1/2-3	5000	150	3	18-3/16	1-3/4	2-3/8	3-1/2	-	1-1/8	16-1/2	28
LP-2-1/2-6	5000	150	6	25	1-3/4	2-3/8	3-1/2	-	1-1/8	23-3/8	45
LP-2-1/2-12	5000	150	12	31-5/8	1-3/4	2-3/8	3-1/2	-	1-1/8	30	60
LP-5-6	10000	250	6	28-1/2	2-1/4	3-1/16	4-1/2	-	1-7/8	26	70
LP-5-12	10000	250	12	35-1/2	2-1/4	3-1/16	4-1/2	-	1-7/8	33	95

Model LLP-Lifting and Lowering Load Positioner											
Model No.	Rated Cap. (lbs)		Stroke (in)	Dimensions (in)							Wt. (lbs)
	Max	Min		A	B	C	D	E	F	G	
LLP-2-1/2-3	5000	150	3	18-3/16	1-3/4	2-3/8	3-1/2	1-1/2	1-1/8	16-1/2	35
LLP-2-1/2-6	5000	150	6	22-5/8	1-3/4	2-3/8	3-1/2	1-1/2	1-1/8	21	50
LLP-2-1/2-12	5000	150	12	31-5/8	1-3/4	2-3/8	3-1/2	1-1/2	1-1/8	30	65
LLP-5-6	10000	250	6	28-1/2	2-1/4	3-1/16	4-1/2	1-1/2	1-7/8	26	75
LLP-5-12	10000	250	12	35-9/16	2-1/4	3-1/16	4-1/2	1-1/2	1-7/8	33	85



**Blocks/Sheaves/Swivels**

**McKissick® Custom  
 Bridge Crane  
 Blocks**

Customer Name _____		Date _____
Address _____	City _____	State, Zip _____
Phone _____	Fax _____	E-Mail _____
Customer Contact Name _____		Quantity _____

**SHEAVE INFORMATION**  
 Sheave Diameter: \_\_\_\_\_ Wire Rope Size: \_\_\_\_\_ Number of Flanges: \_\_\_\_\_

**BEARING TYPE**  
 Bronze Bearing       Roller Bearing  
 Tapered Roller Bearing       Other \_\_\_\_\_

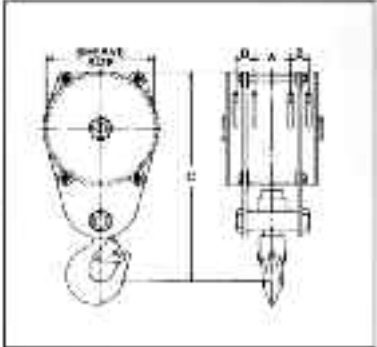
**BLOCK INFORMATION**  
 Dimensions: A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_  
 Working Load Limit: \_\_\_\_\_  
 CSA Rating: \_\_\_\_\_

**LOWER FITTING TYPE**  
 Single Head Block       Double Hook  
 Swivel Block       Other \_\_\_\_\_  
 Locking Mechanism

Optional Weight Requirements: \_\_\_\_\_

**APPLICATION INFORMATION**  
 Load Line Speed: \_\_\_\_\_  
 Environment: \_\_\_\_\_

**SPECIAL REQUIREMENTS**  
 Special Testing: \_\_\_\_\_  
 Fields: \_\_\_\_\_  
 Third Party Inspection/Approval: \_\_\_\_\_



**McKissick® Custom  
 Lead Sheaves**

Customer Name _____		Date _____
Address _____	City _____	State, Zip _____
Phone _____	Fax _____	E-Mail _____
Customer Contact Name _____		Quantity _____

**SHEAVE INFORMATION**  
 Sheave Diameter: \_\_\_\_\_ Wire Rope Size: \_\_\_\_\_ Number of Flanges: \_\_\_\_\_


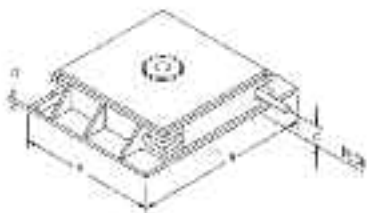
**BEARING TYPE**  
 Bronze Bearing       Roller Bearing  
 Tapered Roller Bearing       Other \_\_\_\_\_

**BLOCK INFORMATION**  
 Style:  Vertical       Horizontal  
 Dimensions: A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_ D \_\_\_\_\_

**APPLICATION INFORMATION**  
 Line Speed: \_\_\_\_\_ Single Use Pct: \_\_\_\_\_ Degree of Wrap: \_\_\_\_\_  
 Environment: \_\_\_\_\_

**FREQUENCY OF USE**  
 Continuous \_\_\_\_\_ Intermittent \_\_\_\_\_ One Time \_\_\_\_\_

**SPECIAL REQUIREMENTS**  
 Special Testing: \_\_\_\_\_  
 Fields: \_\_\_\_\_  
 Third Party Inspection/Approval: \_\_\_\_\_

Removable Dust Cover      Fixed Deck Flange

5  
 Blocks/  
 Sheaves/  
 Swivels