Johnson Product Catalog 2015

2015

Johnson Product Catalog

Strength Through Innovation Since 1764

GUNNEBO Industries

Company History

Gunnebo Industries is a global leading manufacturer of products such as crane blocks, wire rope sheaves, chain & lifting components, shackles and lashing products, which are exclusively produced in Sweden, Norway and USA. The company was founded in 1764 in Sweden and has since then lead the development in the lifting industry.

We have subsidiaries in 10 countries covering every continent, as well as distributing partners in more than 50 countries. This makes Gunnebo Industries a truly international company.

Gunnebo Johnson Corporation has a long and storied history as well, with deep roots in the oilfield, dating back to 1879.

Isaac N. Hinderliter began the business and patented certain oil rig elevators in 1879. In 1919, his son Frank J. Hinderliter founded the Hinderliter Tool Company in Tulsa, Oklahoma. The company would eventually hold nearly one hundred patents, and began by manufacturing cable and rotary tools for the cable tool drilling rigs of the era. By pioneering new heat treatment processes, the company and its products became renowned for high quality.

In 1939, at the beginning of World War Two, the company received U. S. government contracts to produce gun barrels for use by the Allies and to add to the U. S. military buildup. The company began its own heat treatment operation at that time in order to have an integrated manufacturing process. After the war ended, the company was sold to H. K. Porter in 1946.

A new company was formed, called Don R. Hinderliter Incorporated, and production of wellheads along with commercial heat treatment was started. The company evolved into Hinderliter Energy Equipment Corporation in the late 1940s, still located in Tulsa, Oklahoma.

A small local company, Johnson Blocks, joined the group in 1962, adding oilfield blocks to the wellhead line, along with several other oilfield products. Soon after, construction and crane blocks were added to the product lines.

The company became Hinderliter Management Systems in 1977, and in 1981 Johnson Blocks became The Johnson Manufacturing Company, alongside Hinderliter Heat Treatment, both subsidiaries.

By 1988 major changes occurred. Hinderliter Heat Treatment was sold, and so was Johnson Manufacturing. Johnson Manufacturing became part of Gunnebo AB of Sweden, and was renamed Gunnebo Johnson Corporation. Premium quality Gunnebo chain and forged lifting accessories were now marketed together with Johnson blocks in North America and around the world.

The company became a public entity in 2005, listed on the Swedish Stock Exchange. In 2008, the group again became private when purchased by the Segulah Group of Sweden. It has since continued to operate its Gunnebo and Johnson brands globally, utilizing its network of manufacturing and distribution systems.

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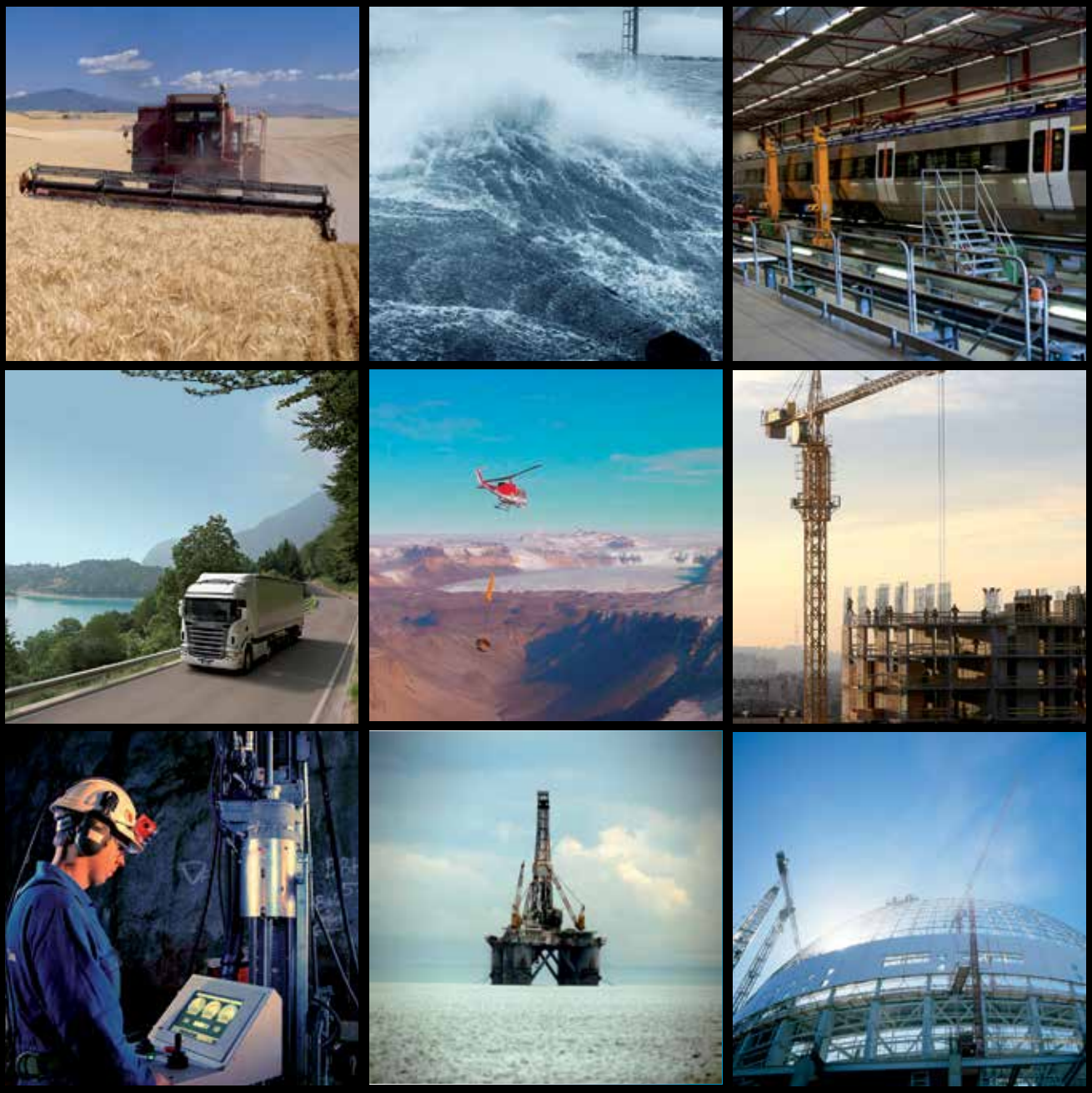
WARNING:
Failure to read, understand and comply with the following instructions, working load limits and specifications in this publication may result in serious injury or damage to property.

Where there is growth and development in the world...



...Gunnebo Industries products can be found.

GUNNEBO Industries

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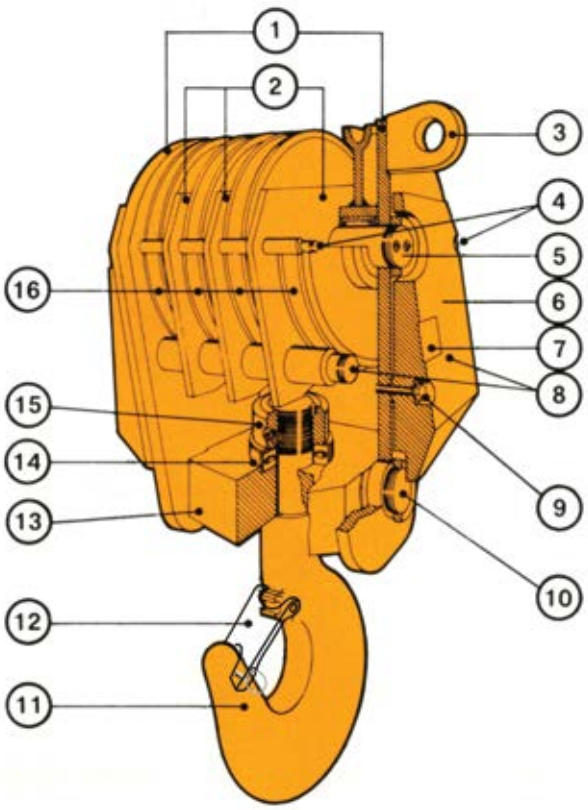
Terminology

Chemical Analysis (Chemical Test) The process used to identify the percentage of various elements which make up a given metal. Today's most commonly used alloy is steel, the simplest compound of which is iron with 1% or less of carbon. Most steel, however, contains alloying elements such as chromium, manganese, nickel, tungsten, vanadium and others.

Design Factor A theoretical reserve capability often mis-titled "Safety Factor." It is computed by dividing the Ultimate Load by the Working Load Limit.

Example:

(Ultimate Load) 100 Ton / (SWL) 25 Ton = Design Factor of 4, or ratio of 4 to 1



1. **Side Plates**
2. **Center Plates**
3. **"Mouse Ear" Deadend**
4. **Upper Tie Bolts**
5. **Center Pin**
6. **Cheek Weight**
7. **Safety Precautions Plate: Tonnage Rating Nameplate (Opposite sides)**
8. **Lower Tie Bolts**
9. **Cheek Weight Cap Screw(s) (1 or 2)**
10. **Trunnion Pin, or Hook Housing Trunnion**
11. **Hook**
12. **Hook Latch**
13. **Hook Housing**
14. **Thrust Bearing**
15. **Hook Nut**
16. **Wire Rope Sheaves**

Flame Hardening A high heat/quick cool process used to harden that portion of the sheave groove which supports the wire rope. Grooves flame hardened to a minimum Rockwell "C" 35 are standard on all sheave sizes 16 inches O.D. and larger. (Prices on smaller sheaves available upon application.)

Fleet Angle The degree to which a rope varies from true center (0°) in passing from drum to sheave or from one sheave to another. Too great a fleet angle will cause the line to wind unevenly on the winch drum. Too small a fleet angle will cause the line to "pile up." In sheave-to-sheave applications such as those utilizing upper and lower blocks, the fleet angle will be increased: a) when there is more space between the sheaves of one block than those of the other: b) when the two blocks are drawn in close proximity to one another.

To minimize rope and equipment wear, the following generally accepted fleet angle limits should be observed.

Sheave-to-Sheave:
2.5° maximum

Sheave-to-Smooth Drum:
1/2° minimum to 2° maximum

Sheave-to-Grooved Drum:
1/2° minimum to
1-1/2° maximum

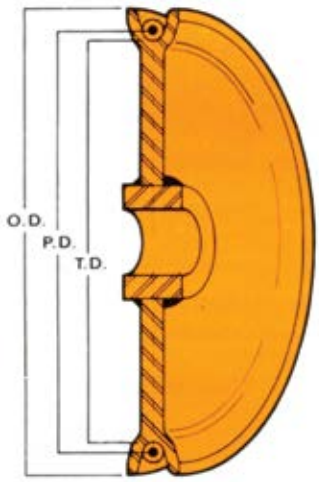
Hook Housing Often referred to fas "Trunnion" and "Cross Head." The so-called Hook Housing Pin is actually not a "pin" at all, but an integral part of the housing. On most Gunnebo Johnson Manufacturing products, it is the Hook Housing that allows the hook to swing as well as swivel.

Mechanical Properties (Mechanical Test) Those properties of a material which reveal its reaction to an applied force, and thereby, its applicability to a given task. Considered, for example, are the modulus of elasticity, tensile strength, elongation, hardness and fatigue limit.

Outside Diameter (O.D.) The diameter of a circular object as measured from its outermost edges.

Overhaul That amount of downfall weight sufficient to overcome sheave bearing friction, winch-to-boom-tip line weight and other counter-fall factors inherent in the crane system.

Terminology



Pitch Diameter (P.D.) A true measure of the bend of the rope around the sheave, and represented by the distance between the center of the rope on one side of the sheave and the center of the rope on the other. P.D. differs from Tread Diameter (T.D.) which takes its measurement from the deepest point of the sheave groove. Formula: P.D. = T.D. + Nominal Rope Size.

Proof Load This factor refers to the average load to which a product may be subjected before visible deformation occurs. Also, to the load applied in performance of a Proof Test.

Proof Test A tensile strength test applied solely for the purpose of detecting defects in materials, product design or assembly. (Gunnebo Johnson Manufacturing offers Proof Test capabilities for any products it manufactures. Prices available upon request.)

Working Load Limit Sometimes referred to as "SWL," "Working Load," "Working Load Limit," and "Rated Load Value." Indicates the maximum load to which a product should be subjected. The term applies only to static loads held firmly in direct tension. It does not include torsional, binding, offset, or shock load factors.

Shock Load A significantly increased load factor caused by the sudden shift, jerk, or impacting of the load.

Short Ton The avoirdupois weight on which Gunnebo Johnson Manufacturing product capacities are based. Commonly used throughout the U.S. and Canada, the term implies a weight of 2,000 pounds and differs from "long ton," which amounts to 2,240 pounds.

Tread Diameter (T.D.) Measurement from deepest point of the sheave groove on one side of sheave to deepest point of sheave groove on other side.

Ultimate Load Indicates the point as which the product fails, or will no longer support the load.

Yield Point The point between proof load and ultimate at which permanent deformation occurs. Note that this deformation may or may not be visible.

Metric Equivalants

Short Tons	Metric Tons	Short Tons	Metric Tons	Short Tons	Metric Tons	Nominal Wire Rope Size (Inches)	Nominal Wire Rope Size (mm)
1	.90	20	18.14	80	72.57	3/8	9.5
2	1.81	22	19.95	90	81.64	7/16	11.11
3	2.72	24	21.77	100	90.75	1/2	12.7
3 3/4	3.40	25	22.67	110	99.79	9/16	14.3
4	3.62	29	26.30	115	104.32	5/8	15.9
5	4.53	30	27.21	125	113.39	3/4	19
6	5.44	35	31.75	130	117.93	7/8	22.2
6 1/4	5.66	38	34.47	135	122.47	1	25.4
7	6.35	40	36.28	140	127.00	1 1/8	28.6
8	7.25	45	40.82	150	136.07	1 1/4	31.7
9	8.16	50	45.35	165	149.68	1 3/8	34.9
10	9.07	55	49.89	200	181.43	1 1/2	38.1
11	9.97	60	54.43	250	225.79	1 5/8	41.3
12	10.88	65	58.96	265	240.40	1 3/4	44.5
14	12.70	70	63.50	300	272.15	1 7/8	47.6
15	13.60	75	68.03	325	294.83	2	50.8
19	17.23			350	317.51		

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

General Precautions

Stay within the Working Load Limits of all Gunnebo Johnson products. The Working Load Limits assigned Gunnebo Johnson products reflect our best engineering assessment. They should never be exceeded, regardless of the strength of the wire rope being used. Nor will we accept responsibility for any rating request which would result in a lower design factor than that we judge to be adequate. (See design factors indicated in this catalog. Standard: 4 to 1.)

Note that Working Load Limits apply only to loads held uniformly in direct tension. They do not apply to shock loads, which can multiply the static weight factor many times over. Likewise, they do not allow for hook tip loading, side loading, or for bending, torsional and related loads.

Note also that Working Load Limits apply only to new products as they are shipped from the factory. Age, type of service and environmental conditions can subsequently affect these limits, and periodic tests should be undertaken to assure the product will perform in accord with existing regulations and sound operating practices.

Do not misuse Gunnebo Johnson Blocks hook latch attachments. Gunnebo Johnson Blocks hook latch kits are designed solely for loose sling retention. They are not anti-fouling devices, and caution must be exercised to prevent a latch from supporting any portion of the load. Protect the latch, and thereby the workmen below, by: 1) continuous inspection to see that the latch is undamaged, in place, and properly centered on the hook; 2) taking care not to "crowd" the latch with over-sized ropes or "stiff" riggings; making sure the load is properly seated prior to each lift.

Use caution in applying standard Gunnebo Johnson products to severe vibration or sharp-blow situations. Activities such as pile driving can have adverse effects upon the life of the product and, therefore, may not be covered by the warranty. Standard cheek weights and overhaul balls, for example, are not designed as load-bearing members. They can break under extreme vibration or sharp blows.

Severe working conditions can also create problems for the undersized swivel or standard block. If you anticipate such conditions, have the factory fabricate the block to your particular job requirements. Or, in the case of an existing block, take the following precautions.

1) Make sure the block's capacity rating is high enough. If the block has a hook and latch, consider replacing them with the swivel tee and safety anchor shackle that is available as an option on all "J" Blocks.

2) Remove any cast iron cheek weights and replace the existing tie bolts with shorter ones. If additional weight is required, have Gunnebo Johnson supply steel plate cheek weights to your specifications.

3) Tack weld and all tie bolt nuts, trunnion nuts and lower fitting shank nuts to the ends of their respective shafts. Weld the center pin nut, if any, to the side plates of the block itself.

Never use the yielding point of a hook, bail or other fitting as a "gauge" of its capacity. Trusting a fitting to bend before it breaks is a dangerous practice and should never be used as an excuse to exceed the Working Load Limit.

Lift only those loads for which our product was designed. Federal crane regulations prohibit the transport of personnel on any load or wire rope attachment (OSHA 1910. 180-h-3-v).

Never "two-block," or allow any block, ball, or other attachment to be drawn into another under power.

Inspect your equipment regularly for excessive wear. Wear is a fact of life, and it will eventually affect load fitting cross sections and other critical component dimensions. Since worn components do not have the same WLL. rating, the responsibility for their maintenance and continued use is entirely up to the purchaser/user. To be certain, arrange with federal and local regulations. For general maintenance instructions, see page 14-16, this catalog.

When using wedge sockets note that two precautions should be taken.

1. Make sure that a sudden jolt or impact does not dislodge a wedge. When installing wire rope, always pre-load the wedge with wire rope in place. Check frequently to re-tighten or reposition as necessary.

2. Make allowance for the crimping effect common with all types of wedge sockets. Experience shows it will reduce the Safe Working Limit of a line by 20 percent.

General Precautions

Never weld any load bearing components such as hooks, shackles or other load fittings. Any welding to a load fitting could adversely affect the strength capabilities of the material.

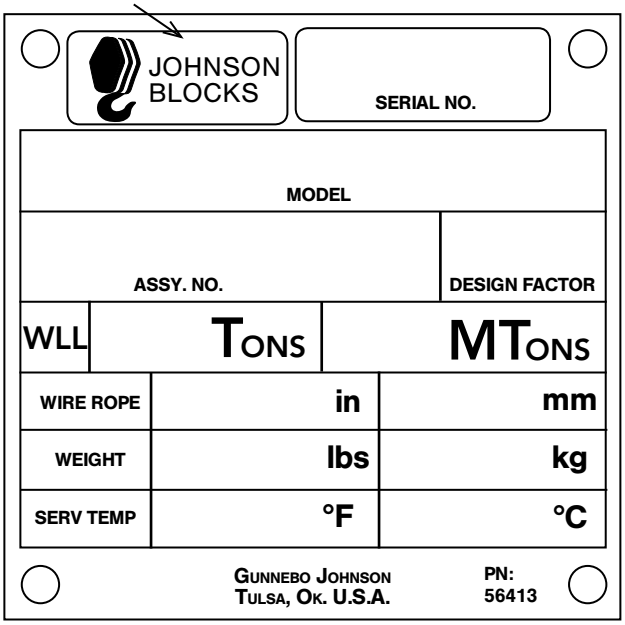
Do not immerse standard Gunnebo Johnson products in water. Contact our Engineering Department for those special product designs necessary to meet fresh and salt water applications.

Make sure your wire rope is sufficiently rated for its overhaul ball and socket assembly attachments. Gunnebo Johnson offers a variety of wedge socket overhaul balls. As with other products, some of these balls have strengths substantially greater than the ropes to which they have been applied. To be sure, consult the chart "Working Load Limits of Wire Rope." Type, application and WLL are the sole responsibility of the customer and the end user.

Attention to the service temperature (ST) given on the WLL nameplate is required. Gunnebo Johnson blocks have a temperature at which lifting precautions are required because temperatures below the given ST affect the block material properties. Lifting above 75% of the WLL AND BETWEEN THE ST and -40F (-4C), must be done at a slow and steady rate to avoid stress spikes common in normal hoisting dynamics. 75% of the WLL must not be exceeded when lifting in temperatures below -40F unless extreme temperature materials have been used in the block construction. Blocks are available with extreme temperature materials on special request.

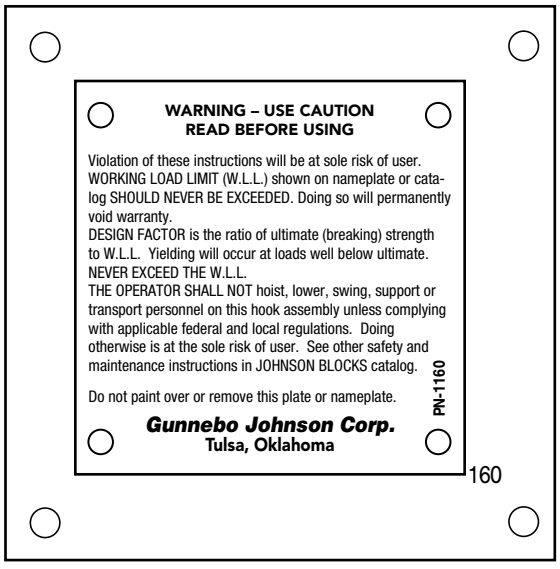
Do not overload individual sheave bearings by subjecting a partially reeved block to full load applications. Bearing life expectancy is based on the use of all available sheaves under maximum parts of line. For example, in a 30-ton block with three sheaves, each sheave will have a bearing capacity of 10 tons. If only one sheave is used, it is reduced to to 10 tons.

Typical WLL nameplate



Important safety information is provided by the two plates affixed to each product.

Typical safety caution plate



Rigging

How Sheave Size Affects Wire Rope Strength

Severe bending is a major cause of short rope life. By contrast, the larger the sheave diameter, the less wear on the rope and the greater its strength efficiency.

Study the graph "Strength Efficiency of Wire Rope vs. Sheave P.D. Ratio." It confirms how readily the Strength Efficiency of the rope (a comparison of its strength when bent around a sheave and tested in a straight sample) is affected by the P.D. Ratio.

As one can see from this graph, the minimal 16-to-1 P.D. ratio required for the construction industry results in a wire rope strength efficiency of 90 percent.

Accompanying chart shows which Gunnebo Johnson Manufacturing sheaves are necessary to comply with ANSI or CMAA standards. Translating P.D. ratio required for the construction industry results in a wire rope strength efficiency of 90 percent.

Accompanying chart shows which Gunnebo Johnson Manufacturing sheaves are necessary to comply with ANSI or CMAA standards. Translating P.D. ratios in terms of the closest appropriate Outside Diameters, the list ranges from an 8-inch hoisting block sheave to a 48-inch overhead crane block sheave.

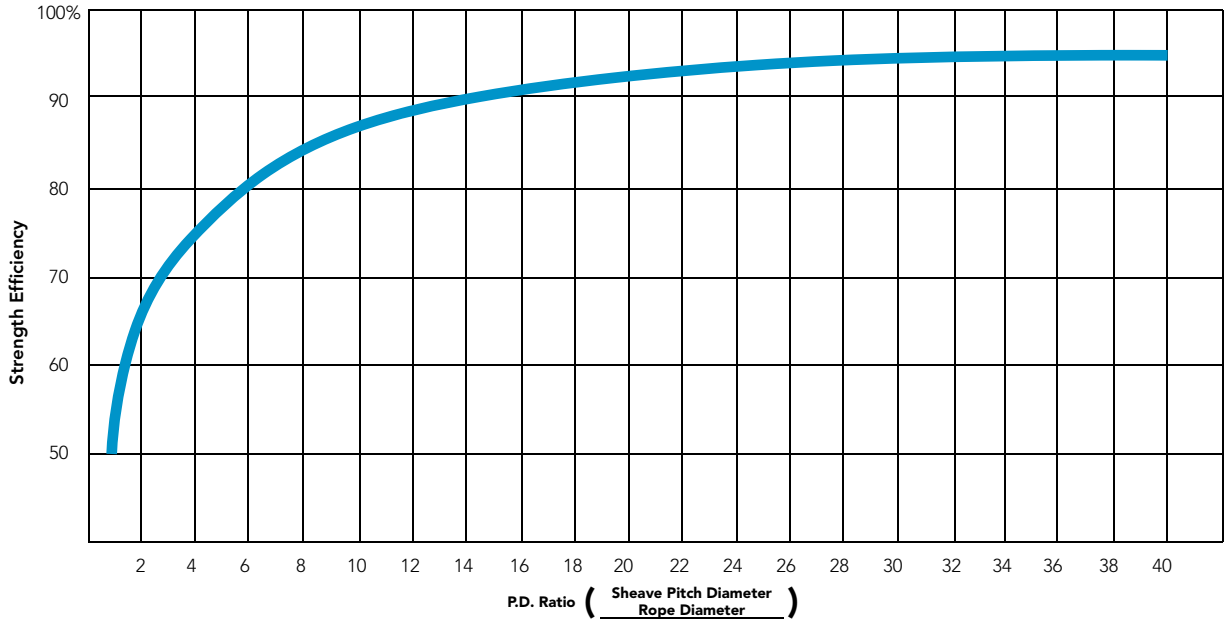
Note that the hoisting block figures shown in this chart are based on the 16-to-1 P.D. ratio and in some cases are below the minimum size suggested by Gunnebo Johnson Manufacturing. Since the Outside Diameter of a sheave is 1 to 2 inches greater than the Pitch Diameter, we recommend a sheave diameter at least 20 times that of its rope.

Nominal Wire Rope Size – inches	Minimum Gunnebo Johnson Blocks Sheave O.D. Requirements as comply with ANSI, CMAA Standards	
	ANSI B30.5 * ANSI B30.15* Hoisting Blocks – inches	CMAA 70** Overhead Crane Blocks – inches
7/16	8	12
1/2	10	14
9/16	10	16
5/8	12	18
3/4	14	20
7/8	16	24
1	18	26
1-1/8	20	30
1-1/4	24	34
1-3/8	24	36
1-1/2	26	42
1-5/8	30	42
1-3/4	30	48
1-7/8	36	48
2	36	

* 16 to 1 P.D. ratio required for hoisting blocks by ANSI B30.5 (Crawler, Locomotive and Truck Cranes) and ANSI B30.15 (Mobile Hydraulic Cranes). ANSI B30.5 is required by OSHA regulations as printed in Federal Register on June 24 and 27, 1974.

** 24 to 1 P.D. ratio required for running sheaves with 6 x 37 rope by CMAA Specification No. 70 (Electric Overhead Traveling Cranes).

Strength Efficiency of Wire Rope vs. Sheave P.D. Ratio (6 x 19 and 6 x 37 class ropes)



⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Working Load Limits of Wire Rope by Size, Line Parts*

For Bronze Bushed and Roller Bearing Load Blocks 6 X 25 Filler Wire Type W 1WRC IPS Hoisting Rope**

Nominal Wire Rope of New Rope – Tons			7/16	1/2	9/16	5/8	3/4	7/8	1	1-1/8	1-1/4	1-3/8	1-1/2	1-5/8	1-3/4	1-7/8	2
Weight Per Foot – Pounds			.35	.46	.59	.72	1.04	1.42	1.85	2.34	2.89	3.50	4.16	4.88	5.67	6.50	7.39
Ultimate (Breaking) Strength of New Rope – Tons			8.89	11.5	14.5	17.9	25.6	34.6	44.9	56.5	69.4	83.5	98.9	115.0	133.0	152.0	172.0
Single Line			2.2	2.9	3.6	4.5	6.4	8.7	11.2	14.1	17.4	20.9	24.7	28.8	33.3	38.0	43.0
1 Sheave Block	2 Parts Line	BB	4.2	5.4	6.8	8.4	12.0	16.2	21.0	26.4	32.4	39.1	46.3	55.8	62.2	71.1	80.4
		RB	4.3	5.5	7.0	8.7	12.4	16.8	21.8	27.4	33.7	40.5	48.0	58.8	64.5	73.7	83.4
	3 Parts Line	BB	6.1	7.9	10.0	12.3	17.6	23.8	30.9	38.9	47.7	57.4	68.0	79.1	91.4	104.5	118.3
		RB	6.4	8.3	10.5	12.9	18.4	24.9	32.3	40.7	50.0	60.1	71.2	82.8	95.8	109.4	123.8
2 Sheave Block	4 Parts Line	BB	8.0	10.3	13.0	16.1	23.0	31.1	40.3	50.7	62.3	75.0	88.8	103.2	119.4	136.4	154.4
		RB	8.5	11.0	13.8	17.1	24.4	33.0	42.8	53.8	66.1	79.6	94.2	109.5	126.7	144.8	163.8
	5 Parts Line	BB	9.8	12.6	15.9	19.7	28.1	38.0	49.3	62.0	76.2	91.7	108.6	126.2	146.0	166.8	188.8
		RB	10.5	13.6	17.1	21.1	30.1	40.7	52.9	66.6	81.7	98.3	116.5	135.4	156.6	179.0	202.5
3 Sheave Block	6 Parts Line	BB	11.5	14.9	18.7	23.0	33.0	44.6	58.0	72.9	89.5	107.7	127.6	148.4	171.6	196.1	221.9
		RB	12.4	16.1	20.3	25.1	35.8	48.4	62.9	79.1	97.2	116.9	138.5	161.0	186.2	212.8	240.8
	7 Parts Line	BB	13.1	17.0	21.4	26.4	37.8	51.0	66.3	83.4	102.4	123.2	145.9	169.6	196.2	224.2	253.7
		RB	14.4	18.6	23.5	29.0	41.4	56.0	72.7	91.4	112.3	135.1	160.0	186.0	215.1	245.9	278.2
4 Sheave Block	8 Parts Line	BB	14.7	19.0	24.0	29.6	42.2	57.1	74.1	93.3	114.5	137.8	163.2	189.8	219.5	250.8	283.8
		RB	16.3	21.1	26.6	32.8	46.9	63.3	82.2	103.4	127.0	152.8	181.0	210.5	243.4	278.2	314.8
	9 Parts Line	BB	16.1	20.9	26.4	32.6	46.5	62.9	81.6	102.7	126.1	151.8	179.8	209.0	241.7	276.3	312.6
		RB	18.1	23.5	29.6	36.6	52.2	70.6	91.6	115.3	141.6	170.4	201.8	234.6	271.3	310.1	350.9
5 Sheave Block	10 Parts Line	BB	17.5	22.8	28.7	35.4	50.6	68.4	88.8	111.8	137.2	165.2	195.6	227.4	263.0	300.6	340.1
		RB	19.9	25.9	32.6	40.2	57.2	77.7	100.8	126.3	155.8	187.5	222.1	258.2	298.6	341.2	386.1
	11 Parts Line	BB	18.9	24.5	30.9	38.2	54.5	73.7	95.7	120.4	147.8	177.9	210.7	245.0	283.3	323.8	366.4
		RB	21.7	28.2	35.5	43.9	62.7	84.7	109.9	138.3	169.9	204.4	242.1	281.5	325.5	372.0	421.0
6 Sheave Block	12 Parts Line	BB	20.2	26.2	33.1	40.8	58.3	78.8	102.3	128.7	158.1	190.2	225.3	261.9	302.9	346.2	391.7
		RB	23.5	30.5	38.5	47.5	67.8	91.7	119.0	149.8	183.9	221.3	262.1	304.8	352.5	401.8	455.8
	13 Parts Line	BB	21.5	27.9	35.1	43.4	62.0	83.7	108.7	136.8	168.5	202.1	239.4	278.3	321.9	367.8	416.2
		RB	25.3	32.8	41.4	51.1	73.0	98.6	128.0	160.0	197.8	238.0	281.9	327.8	379.1	431.2	490.2
7 Sheave Block	14 Parts Line	BB	22.5	29.6	36.8	46.0	65.4	88.9	114.5	144.1	177.9	213.7	252.5	294.4	340.4	388.5	439.6
		RB	26.6	35.1	43.6	54.5	77.5	105.3	135.6	170.7	210.6	253.0	299.0	348.6	403.1	460.0	520.5
	15 Parts Line	BB	23.6	31.1	38.7	48.3	68.7	93.4	120.3	151.4	186.9	224.5	265.3	309.3	357.6	408.1	461.8
		RB	28.3	37.3	46.3	57.8	82.2	111.8	143.9	181.2	223.6	269.5	317.4	370.1	427.9	488.3	552.5
8 Sheave Block	16 Parts Line	BB	24.7	32.6	40.4	50.5	71.9	97.7	125.8	158.4	195.5	234.8	277.5	323.5	374.1	426.9	483.1
		RB	29.9	39.4	48.9	61.1	86.9	118.1	152.1	191.4	236.3	283.8	335.4	391.0	452.1	516.0	583.8
	17 Parts Line	BB	25.8	33.9	42.1	52.7	74.9	101.9	131.1	165.1	203.7	244.7	289.2	337.2	389.8	444.9	503.4
		RB	31.4	41.4	51.4	64.3	91.5	124.3	160.1	201.5	248.7	298.7	353.0	411.6	475.9	543.1	614.6
9 Sheave Block	18 Parts Line	BB	26.8	35.3	43.8	54.7	77.8	105.3	136.2	171.5	211.6	254.1	300.4	350.2	404.9	462.1	522.9
		RB	33.0	43.5	54.0	67.5	95.9	130.4	167.9	211.4	260.9	313.3	370.3	431.8	499.2	567.7	644.6
	19 Parts Line	BB	27.7	36.5	45.3	56.7	80.6	109.6	141.0	177.6	219.1	263.2	311.1	362.7	419.2	478.5	541.5
		RB	34.5	45.5	56.4	70.6	100.3	136.4	175.6	221.1	272.8	327.7	387.3	451.5	522.1	595.8	674.2
10 Sheave Block	20 Parts Line	BB	28.6	37.3	46.8	58.5	83.3	113.2	145.7	183.4	226.3	271.9	321.3	374.6	433.2	494.3	559.3
		RB	36.0	47.4	58.9	73.6	104.6	142.3	183.1	230.6	284.5	341.7	403.9	470.9	544.5	621.4	703.1
	21 Parts Line	BB	29.5	38.9	48.3	60.3	85.8	116.6	150.1	189.0	232.2	280.2	331.1	386.1	446.4	509.4	576.4
		RB	37.4	49.3	61.2	76.6	108.9	148.0	190.5	239.9	296.0	355.5	420.2	490.0	566.5	646.4	731.5

* The figures presented are based on a Design Factor of 4 to1 and apply to new rope only. Please note that the final decision with regard to rope size rests with the field user and that WIRE ROPE MANUFACTURERS RECOMMEND DESIGN FACTORS OF 5 AND 6 TO 1 FOR HOISTING LINES.

**For Extra Improved Plow Steel Rope, use 115% of figure in table. For fiber core wire rope, use 93% of figure in table.

Rigging

How to Determine Common Loads and Forces in Block Applications

Three questions are often encountered in dealing with field problems:

1. How do I figure the number of line parts?
2. How do I figure the lead line pull required?
3. How do I figure the lifting capacity available from a given lead line pull?

Needless to say, there are no "pat" answers.
Conditions and equipment will vary from job to job.
There are unaccountable losses in efficiency due to friction and general parts wear. Thus, the chart shown is offered only as a general guide.

The chart shows the relationship of the line parts to the mechanical advantage for a block system,
including those sheaves in the top lock or boom point. New bearings and wire rope are assumed.
The basis for the charted curves is as follows:

$$M = \text{Mechanical Advantage} = \frac{\text{Load to be Lifted (W)}}{\text{Lead Line Pull (P)}}$$

$$M = \text{Number of Line Parts (N) X Efficiency (E)}$$

$$E = \text{Efficiency} = \frac{(K^N - 1)}{K^S N (K - 1)}$$

K = Bearing constant: 1,045 for bronze bushings: 1.02 for roller bearings

S = Total number of sheaves in traveling block and top block or boom point

N = Number of line parts supporting load

To figure Line Parts (N) when you know Load to be Lifted (W) and Lead Line Pull available (P):

1. Divide W by P to get the Mechanical Advantage

$$\text{(M) needed} - M = \frac{W}{P}$$

2. Enter the chart at the M value calculated. Move over to the curve which corresponds with your sheave type and drop down to the bottom of the chart to find the correct number of line parts.

Example: Load (W) = 40 tons
Lead Line Pull available (P) = 5 tons

$$M = \frac{W}{P} = \frac{40}{5} = 8$$

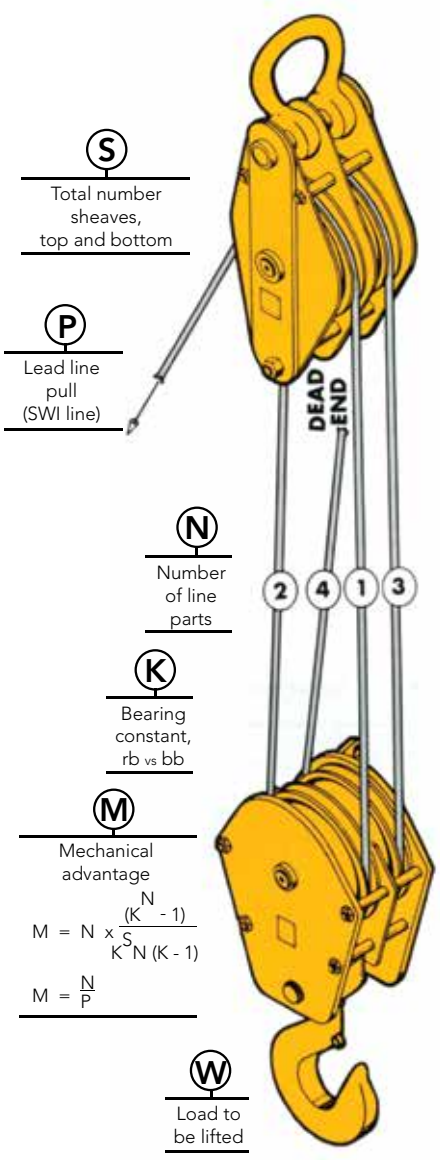
On chart, read: 9 parts of line (roller bearing)
10 parts of line (bronze bushed)

To figure Lead Line Pull (P) needed when you know Load to be lifted (W) and Number of Line Parts (N):

1. Enter the chart at the number of line parts. Move up to the curve that corresponds to your bearing type and across to the vertical M scale to find the Mechanical Advantage available from your line parts.
2. Divide the Load (W) by the Mechanical Advantage (M) to get the Lead Line Pull required (P).

Example: Load (W) = 75 tons
Line Parts (N) = 10
With roller bearing sheaves, 10 parts of line will give a Mechanical Advantage of 9

$$P = \frac{150{,}000 \text{ lbs.}}{9} = 16{,}666 \text{ lbs. required Lead Line Pull}$$



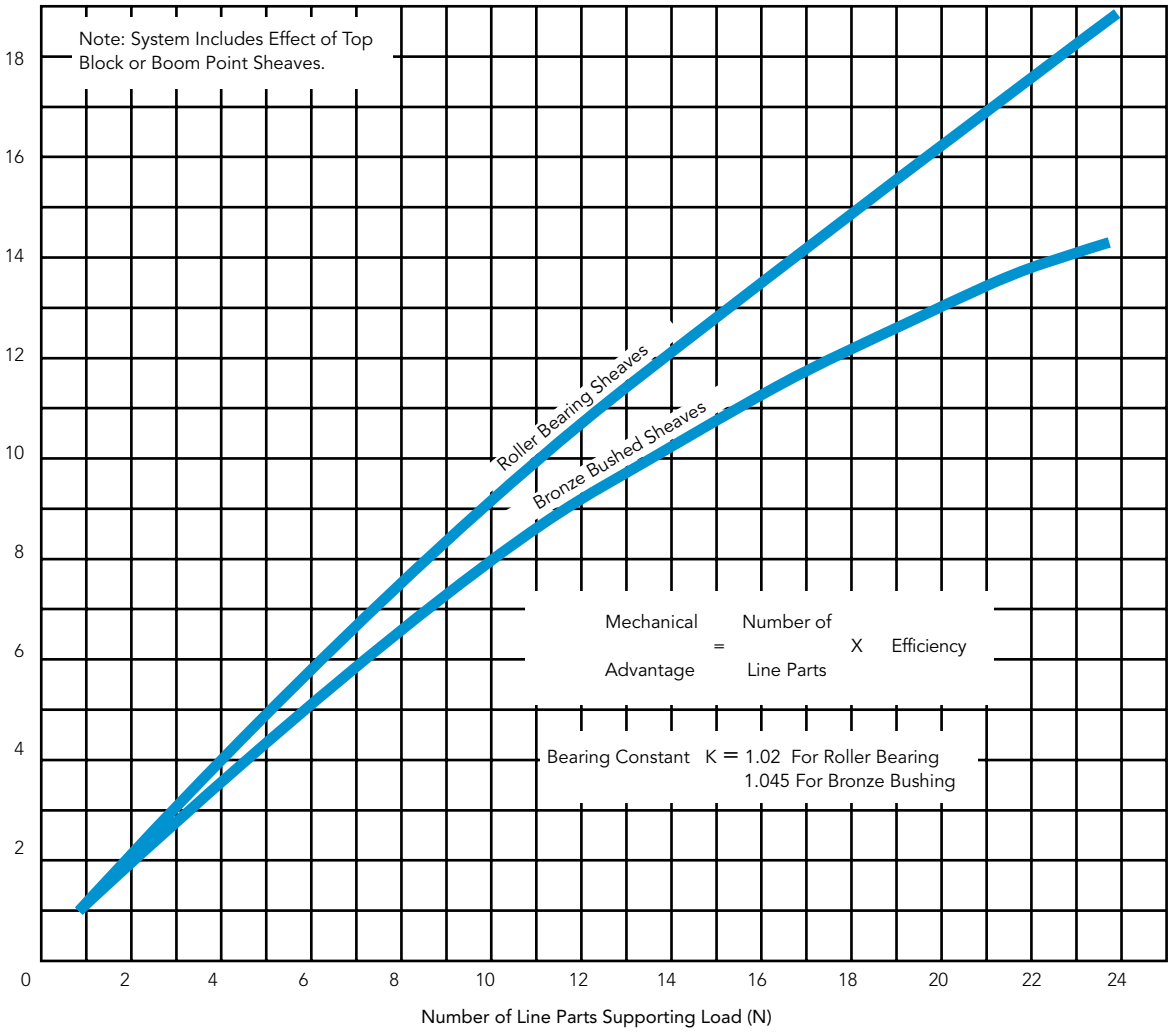
To figure Lifting Capacity available when you know Number of Line Parts (N) and available Lead Line Pull (P):

1. Enter the chart at the number of line parts. Move up to the curve that corresponds to your bearing type and over to the M scale to determine your Mechanical Advantage.
2. Multiply your Lead Line Pull (P) by the Mechanical Advantage (M) to determine Load (W) that can be lifted. W = P X M.

Example: Lead Line Pull (P) =10 tons
Line Parts (N) =12
For roller bearing sheaves, note Mechanical Advantage of 10.6
W = P X M = 10 X 10.6 = 106 tons

Be sure to use an adequate size wire rope. Consult "Working Load Limits of Wire Rope," page 7, or wire rope manufacturer's recommendations.

Mechanical Advantage of Block System for Various Parts of Line (Including Efficiency Loss)



Rigging

How to Account for The Extra Load in Top (Fixed) Block Applications

All Working Load Limits assigned Gunnebo Johnson Manufacturing products are based on traveling block applications. That is to say, applications in which the total load on the block is simply the load being lifted. With snatch and bail type construction blocks, however, it is not uncommon to attach the unit to the boom or gin pole tip, and in doing so, to increase the overall load on this unit **by as much as 100 percent.** This is because the load being hoisted, plus a reaction from the winch on the lead line, can produce a double load on an upper single sheave block if the winch line angle is steep.

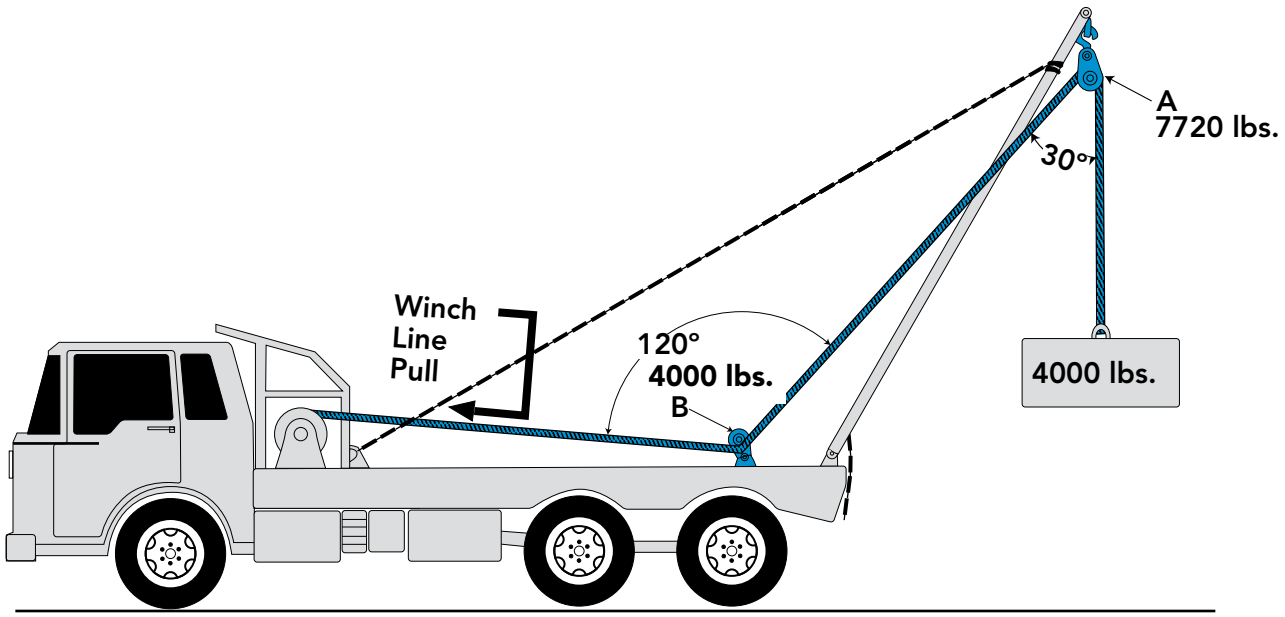
The accompanying figures show how factors of line pull and angle-of-lift combine to increase the load on the fixed block. To illustrate, let's say that a gin pole truck is being used to lift a weight of 2 tons, or 4,000 pounds. Angle of lift: 30°. There being no mechanical advantage to a single part load line system, the winch line pull is equal to 4,000 pounds, or the weight being lifted. The total load on the top single sheave snatch block "A" is 4,000 pounds times the angle factor for 30° (See chart)

Total load on A = 4,000 X 1.93 = 7.720 lbs. The total load on the tailboard block "B" is 4,000 pounds times the angle factor for 120° :

Total load on B = 4,000 X 1.00 = 4,000 lbs.

Angle	Factor	Angle	Factor
0°	2.00	90°	1.41
10°	1.99	100°	1.29
20°	1.97	110°	1.15
30°	1.93	120°	1.00
40°	1.87	130°	.84
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

Block Loads With 1-Part Line



How to Figure Overhaul Weight

Five pieces of information are needed to calculate the weight necessary to free-fall the block or overhaul ball:

1. Size of wire rope to be used
2. Number of line parts
3. Type of sheave bearings
4. Length of crane boom
5. Drum friction (Averace, 50 pounds)

Formula:

TAKE – Weight of wire rope on backside of boom (Table I times boom length):

ADD – Pull factor necessary to overcome friction (50 pounds):

MULTIPLY – By overhaul factor for number of parts of line (Table II):

TO FIND – Required weight of load block.

Example: Required weight using 4-sheave roller bearing block (8 line parts), 1-inch line, and 100-foot boom = [(1.85 X 100ft.) + 50 lbs.] X 8.76 = 2,059 lbs.

Table I. / Wire Rope Weight

Line Size – Inches	lbs. per ft., 6 X 9 IWRC	ine Size Inches	Lbs. per ft., 6 X 19 IWRC
3/8	.26	1-1/8	2.34
7/16	.35	1-1/4	2.89
1/2	.46	1-3/8	3.50
9/16	.59	1-1/2	4.16
5/8	.72	1-5/8	4.88
3/4	1.04	1-3/4	5.67
7/8	1.42	1-7/8	6.50
1	1.85	2	7.39

Table II. / Overhaul Factors

Parts of Line	Roller Bearing Sheaves	Bronze Bushed Sheaves
1	1.02	1.045
2	2.10	2.14
3	3.10	3.26
4	4.21	4.44
5	5.32	5.68
6	6.43	6.92
7	7.54	8.30
8	8.76	9.69
9	9.88	11.09
10	11.11	12.66
11	12.35	14.23
12	13.58	15.82
13	14.82	17.42
14	16.19	19.21
15	17.58	21.03
16	18.96	22.85
17	20.21	24.70
18	21.60	26.64
19	22.99	28.64
20	24.54	30.76
21	25.94	32.91
22	27.41	35.11
23	28.92	37.39
24	30.45	39.73

Efficiency of Wire Rope Connections

(compared to WLL of wire rope)

Wire Rope 100%
Open Wedge Sockets, with clip 80%
Zinc Type Sockets, properly attached 100%
Clips 80%

**Lead times vary and are subject to change depending on the product*

Inspection and Maintenance

Company policy Regarding Product Repair and Parts Replacement

1. Any claim arising from the use of Gunnebo Johnson products is subject to the strict performance of the inspection and maintenance activities outlined in the following schedules. Maintenance instructions are shipped by the factory with each product or invoice line item and are available in quantity at no extra charge.
2. Should any Gunnebo Johnson product become worn or deficient, any attempt at unauthorized field repairs will be taken entirely at the user's own risk and cost. A better approach is to call the Tulsa plant in advance to discuss the specifics. Then, to return the item in question, the freight prepaid, for a repairs cost estimate.
3. Gunnebo Johnson name plates and caution plates must remain in place and visible at all times. In the event either of these plates is lost or rendered illegible, arrangements for their replacement are to be made promptly with the factory.

☑ **Center Pin Retaining Nuts**

Check regularly for any signs of backing off due to high vibration or other causes. If the block has tapered roller bearings (as indicated by T on name plate), tighten the center pin retaining nut(s) until all side play has been eliminated from the sheaves and re-set the lock type set screws.

For other sheave bearing types (bronze bushing – B: roller bearing – R), a running clearance of 1/32 inches at the sheave hub is required. Since to ignore this clearance is to risk sheave bearing damage, it may be approximated as follows:

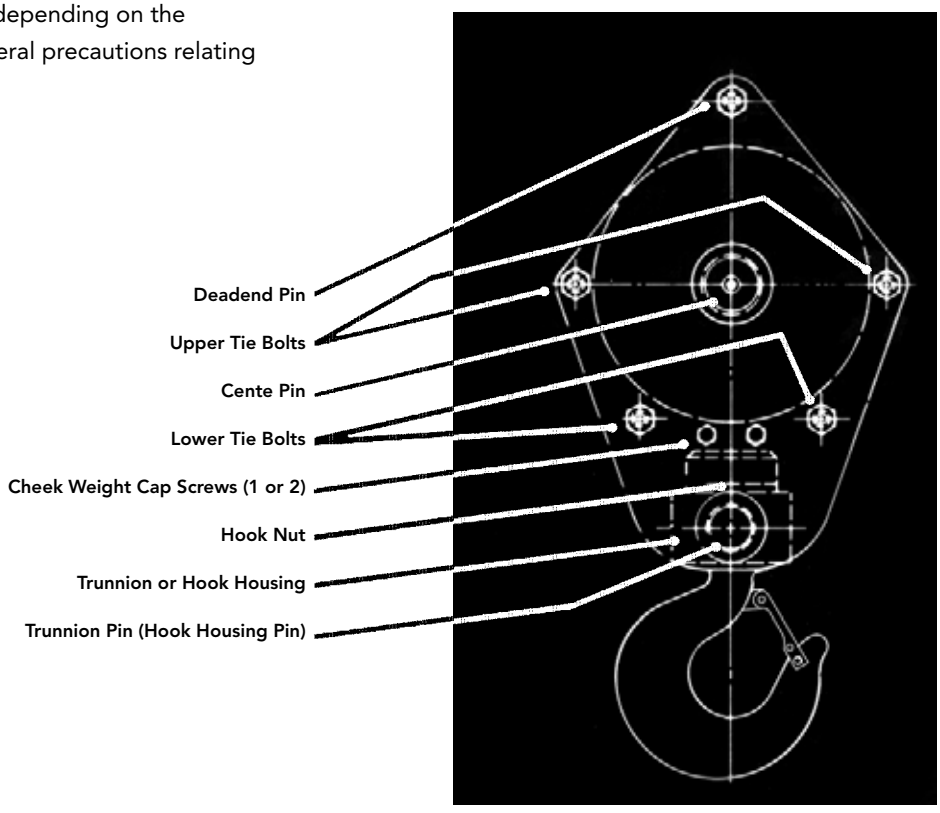
(1) Slowly tighten the retaining nut(s), testing the roller capability of the sheaves with your hand as you do so.

(2) When there is any one of the sheaves that can no longer be turned in this fashion, stop. Back off the nut(s) just enough so that all sheaves will rotate freely. Then re-stake or tighten all set screws as applicable.

Note that any re-working of a block without prior factory authorization will be done entirely at the user's own risk and expense.

☑ **Nut/Retainer Checklist**

All nuts. Set screws and other retainers should be checked for tightness every 14 to 30 days, depending on the operating conditions. Review general precautions relating to high vibration application.



⚠ **WARNING**
NEVER EXCEED RATED WORKING LOAD LIMIT

☑ **Cheek Weight Cap Screws**
Cap screws should always be tightened down and locked with with a self-locking jam nut inside the side plate, or with a lock washer located under the head of the cap screw (all the way inside the cheek weight counter-sink hole.

☑ **Cotter Pins**
Where furnished, cotter pins must always remain in place. Replace any damaged or missing pins before resuming work.

☑ **Load Fitting Set Screws**
These screws are staked in place by the factory. Should they attempt to back out, re-tighten and re-stake thoroughly.

NOTE: A GALLED HOOK NUT CANNOT BE FORCED WITHOUT ENDANGERING THE THREADS. In the event foreign matter has caused the nut assembly to gall, locking it in place, return the product, prepaid, to our plant. Or call us for instructions.

☑ **All Side Nuts With Set Screws**
Where used with center pin nuts, hook trunnion pin nuts, etc., set screws will be jammed radially into the threads by the factory. Check all for tightness and tighten as necessary to re-establish the jamming action.

☑ **All Side Nuts Without Set Screws**
Any tie bolt or other nut that does not utilize set screws should be checked to see that it remains in its original position. Re-tighten and re-stake as necessary. If still uncertain: a) tack weld any center pin nuts to their respective side plates; b) weld any trunnion nuts to the ends of the pins themselves.

☑ **Spirolox Retaining Rings**
Where furnished on the ends of block center pins and trunnions, these rings must remain in place. If damaged or missing, contact the factory for a replacement. Do not resume work.

☑ **Tie Bolt Nuts – Upper**
Inspect and re-tighten firmly as required. Re-stake thoroughly.

☑ **Tie Bolt Nuts – Lower**
Re-tighten any loose nuts firmly. If originally staked, re-stake. If held by set screws, reset these screws securely.

☑ **Trunnion Pin Nuts – Lower**
Re-tighten nut to the point where the trunnion is just able to rotate. Secure the set screw.

☑ **Swivel Barrel Set Screws**
Check for any signs of backing out. Re-tighten and re-stake thoroughly as necessary. If you still have reservations, replace the swivel and have it returned to the factory for inspection.

Lubrication Schedule

Lubrication Frequency		Item
Under Continuous Operating Conditions	Under Intermittent Operating Conditions	
24 hours	14 days	Swivels and swivel overhaul balls
8 hours	14 days	Blocks with bronze bushed sheaves
24 hours	14 days	Blocks with roller bearing sheaves

Lubricant: either sodium or lithium base greases may be used.
Soda soap base greases are more fibrous and cohesive.
Lithium soap base greases are particularly applicable where excessive moisture is present.

Inspection and Maintenance

Inspection and Maintenance Schedule/General

Inspection frequency	Item	What to check for	Appropriate Action
Daily	**Hook Latch**	Missing or off center	Replace immediately
		Permanent deformation or stretching	A clear indication of overload. Take out of service immediately and replace.
	Hooks and Other Fittings	Cracks or other defects	Any suspicion of fractures calls for an immediate investigation and, if necessary, the replacement of the defective part. Gunnebo Johnson recommends a complete tear down inspection of crane blocks and overhaul balls every five (5) years to include a full magnetic particle inspection of the hook or load fitting, unless a more frequent period is required by regulation, statute, standard, policy or indicated by previous inspection.
14 days Under Continuous Operating Conditions 30 days Under Intermittent Operating Conditions	**Swivels**	End Play or Gap of more than 1/16" along the Axis	Remove from service immediately.
	Plates	Side plate spread	Indicates overload. Remove for repairs.
		Looseness	Sign that retaining nuts may be backing out. Tighten and re-stake in accord with Nut/Retainer Checklist.
	Sheaves	Misalignment, as evidenced by wobble or uneven groove flange wear	Indicates severe bearing wear. Remove from service and forward to factory for repairs estimate.
		Striations or Corrugations in sheave groove	Result of rope wear. If serious, have factory remachine or replace.

NOTES:

Shorty "J" Crane Blocks

GUNNEBO
Industries

Shorty "J" Crane Blocks

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Shorty "J" Crane Blocks

Standard

- 3 through 350-ton capacities
- 4 to 1 design factor (unless otherwise indicated)
- 1 through 8 sheave models
- 10 through 30 inch sheave diameters
- Reeving guides, all models
- Heavy duty "J" latch kits - 3 through 250 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 through 30 tons
- Cast alloy steel hooks – 35 through 325 tons
- Cast alloy 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 J-Latch – 25 through 450 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 non-destructive testing to specification designated by customer (conducted by qualified outside laboratory)*
- Price on application

To the reader:

Numerous changes have been incorporated in an effort to make this edition of the Gunnebo Johnson General Catalog the most comprehensive and informative ever produced. Among these changes is the addition of product reviews such as the one, which follows.

These reviews, more than being just "sales talk," offer insights that cannot be gained from the dimensional data alone. They represent a background by which the reader may expand his overall knowledge of the Gunnebo Johnson line. They are a guide, with which he may make evaluations of individual products. As such, we believe you will find them well worth your consideration.

The Shorty "J" is one of today's most popular crane blocks. And for good reason. The J-Block can be used with all types of mobile cranes, truck cranes, overhead cranes, hydraulic and cable cranes. Another reason has to do with our customers, which fall into two basic categories: leading distributors and almost every major O.E.M. account in the U.S.

Finally, there is an outstanding combination of product advantages which are inherent in the Shorty "J". Shorty "J" represents the broadest line of standard crane blocks in the industry. In all, this company manufactures more than 1,500 models of crane blocks, not including options. To our customers, this means a better chance we'll have exactly what the end-user wants.

Gunnebo Johnson believes in keeping the "extras" extra. In some makes of blocks certain "extras" are a standard part of the equipment – take it or leave it. With the Shorty "J" however, the user pays only for those options which will make a definite contribution to his job requirement.

J-Block's dual-action hook makes it easier to load. Gunnebo Johnson's Shorty "J" series includes a housing that enables the hook to swing as well as swivel. That's just one of the reasons why Shorty "J" is one of the easiest blocks to use in the field.

The construction of the Shorty "J" adds to its field convenience. Gunnebo Johnson makes allowance for inevitable maintenance. The construction of the J-Block is basically "pin and nut." This means that it is capable of being either partially or wholly dismantled. All that is required to change out a hook, for example, is the removal of a single set screw or two wired

cap screws and hook nut. Even sheave replacement can be accomplished with only minor partial disassembly.

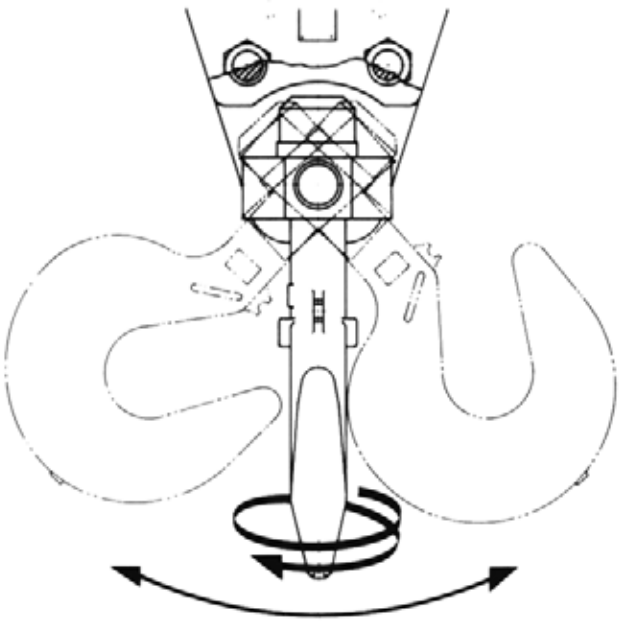
Shorty "J" construction makes a difference, too, in the protection it affords the sheaves. Gunnebo Johnson takes special steps to keep its sheaves from coming into contact with anything but the center pin and wire rope. We accomplish this, in part, through the use of full coverage side plates; in part, through the addition of center plates. It is these center plates, which tend to protect our sheaves, not only from frontal abuse, but from abrasive contact with one another.

Convenient and positive lubrication is assured for each sheave by way of the center pin. With the Shorty "J," we eliminate all disadvantages of sheave lubrication. First, because we lubricate through recessed grease fittings in the ends of the center pin. Secondly, because we lubricate each bearing individually be means of independent lube channels in the center pin.

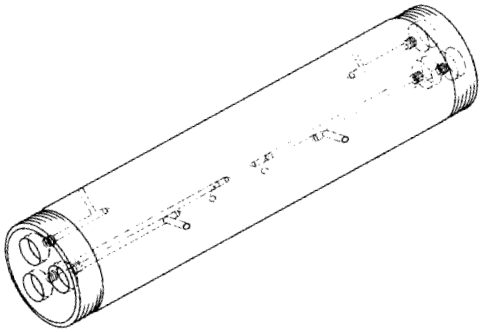
Stainless steel name plates provide valuable product operating information. The data supplied by the two name plates to be found on all Gunnebo Johnson Manufacturing products is the most complete in the industry. On the one plate are those precautions which will enable the user to get the most effective working life out of his block. On the other are all the details relating to the block's identification and capacities, including working load limit, design factor, model number, serial number, and rope size. Also stamped on the side plate is the Gunnebo Johnson serial number and working load limit in U.S. tons. (To supply options or repair parts applicable to your particular block, all the factory will generally need to know are the model number and the serial number.)

A comprehensive packet of information pertaining to product application and maintenance is attached to each item Gunnebo Johnson Manufacturing ships.

Swing/Swivel
Dual Action of Shorty "J" Roller
Thrust Bearing Hook



Individual Sheave Lubrication Channels
6-Sheave Center Pin



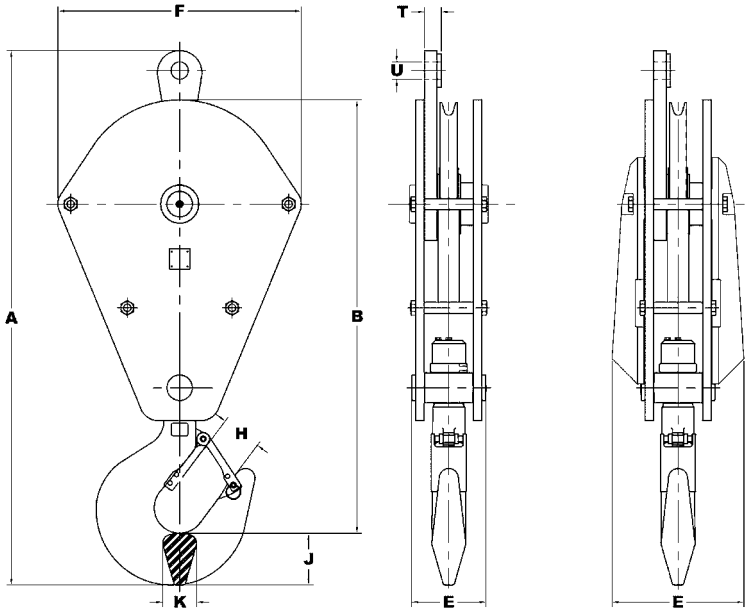
One Sheave Shorty "J" Crane Blocks

Gunnebo Johnson Design Factor is 4 to 1, with some exceptions;

45 Ton models 3.6 to 1

60 Ton models 3.6 to 1

For crane block warnings and use limitations see pages 76-77



Key to one sheave J-block model nmbers

J	3	S	10	B	T	A
Shorty "J" Crane Block	Working Load Limit – (US Tons)	Number of Sheaves: S = 1	Sheave Size – Nom. O.D.	Sheave Bearing B = Bronze Bushed R = Roller Bearing	Hook – Thrust Bearing	Cheek Weights A = No wts. AB = Med. wts. B = Std. wts. C = X-Heavy wts. D = Special wts.

Heavy Duty Hook Latches are Standard Equipment

Gunnebo Johnson's heavy duty J-Latches are standard equipment for blocks up to 250 tons. Larger blocks are equipped with standard bar latches.

To Order Please Specify

- Model Number
- Wire Rope Size
- Options Required

10-inch 1-Sheave Shorty "J" Crane Blocks, 3-15 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width	T Deadend Thick.	U Hole Dia.
J-3S10BTA	115	28.375	22.25	6.187	14	1.12	1.48	1.12	1.12	1.4
J-3S10BTB	185	28.375	22.25	8.375	14	1.12	1.48	1.12	1.12	1.4
J-3S10RTA	115	28.375	22.25	6.187	14	1.12	1.48	1.12	1.12	1.4
J-3S10RTB	185	28.375	22.25	8.375	14	1.12	1.48	1.12	1.12	1.4
J-5S10BTA	120	29.625	23.125	6.187	14	1.39	1.81	1.38	1.12	1.4
J-5S10BTB	190	29.625	23.125	8.375	14	1.39	1.81	1.38	1.12	1.4
J-5S10RTA	120	29.625	23.125	6.187	14	1.39	1.81	1.38	1.12	1.4
J-5S10RTB	190	29.625	23.125	8.375	14	1.39	1.81	1.38	1.12	1.4
J-10S10BTA	130	31.75	24.5	6.187	14	1.91	2.53	1.93	1.12	1.4
J-10S10BTB	200	31.75	24.5	8.375	14	1.91	2.53	1.93	1.12	1.4
J-10S10RTA	130	31.75	24.5	6.187	14	1.91	2.53	1.93	1.12	1.4
J-10S10RTB	200	31.75	24.5	8.375	14	1.91	2.53	1.93	1.12	1.4
J-15S10BTA	130	31.75	24.5	6.437	14	1.91	2.53	1.93	1.37	1.65
J-15S10BTB	200	31.75	24.5	8.375	14	1.91	2.53	1.93	1.37	1.65
J-15S10RTA	130	31.75	24.5	6.437	14	1.91	2.53	1.93	1.37	1.65
J-15S10RTB	200	31.75	24.5	8.375	14	1.91	2.53	1.93	1.37	1.65

12-inch 1-Sheave Shorty "J" Crane Blocks, 5-20 Tons

M5odel	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-5S12BTA	135	30.375	24.875	6.187	16	1.39	1.81	1.38
J-5S12BTB	255	30.375	24.875	9.687	16	1.39	1.81	1.38
J-5S12BTC	410	30.375	24.875	14.187	16	1.39	1.81	1.38
J-5S12RTA	135	30.375	24.875	6.187	16	1.39	1.81	1.38
J-5S12RTB	255	30.375	24.875	9.687	16	1.39	1.81	1.38
J-5S12RTC	410	30.375	24.875	14.187	16	1.39	1.81	1.38
J-10S12BTA	145	32.5	26.25	6.187	16	1.91	2.53	1.93
J-10S12BTB	270	32.5	26.25	9.687	16	1.91	2.53	1.93
J-10S12BTC	420	32.5	26.25	14.187	16	1.91	2.53	1.93
J-10S12RTA	145	32.5	26.25	6.187	16	1.91	2.53	1.93
J-10S12RTB	270	32.5	26.25	9.687	16	1.91	2.53	1.93
J-10S12RTC	420	32.5	26.25	14.187	16	1.91	2.53	1.93
J-15S12BTA	140	32.5	26.25	6.437	16	1.91	2.53	1.93
J-15S12BTB	263	32.5	26.25	9.687	16	1.91	2.53	1.93
J-15S12BTC	415	32.5	26.25	14.187	16	1.91	2.53	1.93
J-15S12RTA	140	32.5	26.25	6.437	16	1.91	2.53	1.93
J-15S12RTB	263	32.5	26.25	9.687	16	1.91	2.53	1.93
J-15S12RTC	415	32.5	26.25	14.187	16	1.91	2.53	1.93
J-20S12BTA	200	37.875	30.5	6.687	16	2.8	3	2.38
J-20S12BTB	323	37.875	30.5	10.187	16	3.5	3	2.38
J-20S12BTC	475	37.875	30.5	14.687	16	2.8	3	2.38

12-inch 1-Sheave Shorty "J" Crane Blocks, 5-20 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-20S12RTA	200	37.875	30.5	6.687	16	2.8	3	2.38
J-20S12RTB	323	37.875	30.5	10.187	16	2.8	3	2.38
J-20S12RTC	475	37.875	30.5	14.687	16	2.8	3	2.38

14-inch 1-Sheave Shorty "J" Crane Blocks, 10-25 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width	T Deadend Thick.	U Hole Dia.
J-10S14BTA	180	34.75	28.5	6.187	18	1.91	2.625	1.937	1.12	1.4
J-10S14BTAB	275	34.75	28.5	7.562	18	1.91	2.625	1.937	1.12	1.4
J-10S14BTB	360	34.75	28.5	10.562	18	1.91	2.625	1.937	1.12	1.4
J-10S14BTC	530	34.75	28.5	14.812	18	1.91	2.625	1.937	1.12	1.4
J-10S14RTA	180	34.75	28.5	6.187	18	1.91	2.625	1.937	1.12	1.4
J-10S14RTAB	275	34.75	28.5	7.562	18	1.91	2.625	1.937	1.12	1.4
J-10S14RTB	360	34.75	28.5	10.562	18	1.91	2.625	1.937	1.12	1.4
J-10S14RTC	530	34.75	28.5	14.812	18	1.91	2.625	1.937	1.12	1.4
J-15S14BTA	170	36.625	28.5	6.437	18	1.91	2.625	1.937	1.37	1.65
J-15S14BTAB	270	36.625	28.5	7.562	18	1.91	2.625	1.937	1.37	1.65
J-15S14BTB	350	36.625	28.5	10.562	18	1.91	2.625	1.937	1.37	1.65
J-15S14BTC	515	36.625	28.5	14.812	18	1.91	2.625	1.937	1.37	1.65
J-15S14RTA	170	36.625	28.5	6.437	18	1.91	2.625	1.937	1.37	1.65
J-15S14RTAB	270	36.625	28.5	7.562	18	1.91	2.625	1.937	1.37	1.65
J-15S14RTB	350	36.625	28.5	10.562	18	1.91	2.625	1.937	1.37	1.65
J-15S14RTC	515	36.625	28.5	14.812	18	1.91	2.625	1.937	1.37	1.65
J-20S14BTA	240	42	32.75	6.687	18	2.8	3.75	3	1.37	1.65
J-20S14BTAB	340	42	32.75	8.062	18	2.8	3.75	3	1.37	1.65
J-20S14BTB	420	42	32.75	11.062	18	2.8	3.75	3	1.37	1.65
J-20S14BTC	585	42	32.75	15.312	18	2.8	3.75	3	1.37	1.65
J-20S14RTA	240	42	32.75	6.687	18	2.8	3.75	3	1.37	1.65
J-20S14RTAB	340	42	32.75	8.062	18	2.8	3.75	3	1.37	1.65
J-20S14RTB	420	42	32.75	11.062	18	2.8	3.75	3	1.37	1.65
J-20S14RTC	585	42	32.75	15.312	18	2.8	3.75	3	1.37	1.65
J-25S14BTA	240	42	32.75	6.687	18	2.8	3.75	3	1.37	1.65
J-25S14BTAB	340	42	32.75	8.062	18	2.8	3.75	3	1.37	1.65
J-25S14BTB	420	42	32.75	11.062	18	2.8	3.75	3	1.37	1.65
J-25S14BTC	585	42	32.75	15.312	18	2.8	3.75	3	1.37	1.65
J-25S14RTA	240	42	32.75	6.687	18	2.8	3.75	3	1.37	1.65
J-25S14RTAB	340	42	32.75	8.062	18	2.8	3.75	3	1.37	1.65
J-25S14RTB	420	42	32.75	11.062	18	2.8	3.75	3	1.37	1.65
J-25S14RTC	585	42	32.75	15.312	18	2.8	3.75	3	1.37	1.65

16-inch 1-Sheave Shorty "J" Crane Blocks, 15-30 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width	T Deadend Thick.	U Hole Dia.
J15S16BTA	216	37.375	30.25	6.437	20.125	1.91	2.625	1.937	1.37	1.65
J15S16BTB	371	37.375	30.25	9.562	20.125	1.91	2.625	1.937	1.37	1.65
J15S16BTC	517	37.375	30.25	12.062	20.125	1.91	2.625	1.937	1.37	1.65
J15S16RTA	216	37.375	30.25	6.437	20.125	1.91	2.625	1.937	1.37	1.65
J15S16RTB	371	37.375	30.25	9.562	20.125	1.91	2.625	1.937	1.37	1.65
J15S16RTC	517	37.375	30.25	12.062	20.125	1.91	2.625	1.937	1.37	1.65
J20S16BTA	278	42.75	34.5	6.687	20.125	2.8	3.75	3	1.37	1.65
J20S16BTB	434	42.75	34.5	10.062	20.125	2.8	3.75	3	1.37	1.65
J20S16BTC	580	42.75	34.5	12.562	20.125	2.8	3.75	3	1.37	1.65
J20S16RTA	278	42.75	34.5	6.687	20.125	2.8	3.75	3	1.37	1.65
J20S16RTB	434	42.75	34.5	10.062	20.125	2.8	3.75	3	1.37	1.65
J20S16RTC	580	42.75	34.5	12.562	20.125	2.8	3.75	3	1.37	1.65
J25S16BTA	278	43.25	34.5	6.687	20.125	2.8	3.75	3	1.5	1.65
J25S16BTB	434	43.25	34.5	10.062	20.125	2.8	3.75	3	1.5	1.65
J25S16BTC	580	43.25	34.5	12.562	20.125	2.8	3.75	3	1.5	1.65
J25S16RTA	278	43.25	34.5	6.687	20.125	2.8	3.75	3	1.5	1.65
J25S16RTB	434	43.25	34.5	10.062	20.125	2.8	3.75	3	1.5	1.65
J25S16RTC	580	43.25	34.5	12.562	20.125	2.8	3.75	3	1.5	1.65
J30S16BTA	291	45.25	36.5	6.687	20.125	3.28	3.5	3	1.5	1.65
J30S16BTB	447	45.25	36.5	10.062	20.125	3.28	3.5	3	1.5	1.65
J30S16BTC	593	45.25	36.5	12.562	20.125	3.28	3.5	3	1.5	1.65
J30S16RTA	291	45.25	36.5	6.687	20.125	3.28	3.5	3	1.5	1.65
J30S16RTB	447	45.25	36.5	10.062	20.125	3.28	3.5	3	1.5	1.65
J30S16RTC	593	45.25	36.5	12.562	20.125	3.28	3.5	3	1.5	1.65

18-inch 1-Sheave Shorty "J" Crane Blocks, 20-35 Tons

J-20S18BTA	389	48.5	38.625	8.562	22.75	2.8	3.75	3	1.5	2.06
J-20S18BTB	615	48.5	38.625	11.062	22.75	2.8	3.75	3	1.5	2.06
J-20S18BTC	753	48.5	38.625	12.812	22.75	2.8	3.75	3	1.5	2.06
J-20S18RTA	389	48.5	38.625	8.562	22.75	2.8	3.75	3	1.5	2.06
J-20S18RTB	615	48.5	38.625	11.062	22.75	2.8	3.75	3	1.5	2.06
J-20S18RTC	753	48.5	38.625	12.812	22.75	2.8	3.75	3	1.5	2.06
J-25S18BTA	389	48.5	38.625	8.562	22.75	2.8	3.75	3	1.5	2.06
J-25S18BTB	615	48.5	38.625	11.062	22.75	2.8	3.75	3	1.5	2.06
J-25S18BTC	753	48.5	38.625	12.812	22.75	2.8	3.75	3	1.5	2.06
J-25S18RTA	389	48.5	38.625	8.562	22.75	2.8	3.75	3	1.5	2.06
J-25S18RTB	615	48.5	38.625	11.062	22.75	2.8	3.75	3	1.5	2.06
J-25S18RTC	753	48.5	38.625	12.812	22.75	2.8	3.75	3	1.5	2.06
J-30S18BTA	404	49	39.125	8.562	22.75	3.28	3.5	3	1.5	2.06
J-30S18BTB	630	49	39.125	11.062	22.75	3.28	3.5	3	1.5	2.06

18-inch 1-Sheave Shorty "J" Crane Blocks, 20-35 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width	T Deadend Thick.	U Hole Dia.
J-30S18BTC	768	49	39.125	12.812	22.75	3.28	3.5	3	1.5	2.06
J-30S18RTA	404	49	39.125	8.562	22.75	3.28	3.5	3	1.5	2.06
J-30S18RTB	630	49	39.125	11.062	22.75	3.28	3.5	3	1.5	2.06
J-30S18RTC	768	49	39.125	12.812	22.75	3.28	3.5	3	1.5	2.06
J-35S18BTA	483	53.5	42.375	8.562	22.75	3.27	4.25	3.38	1.5	2.06
J-35S18BTB	709	53.5	42.375	11.062	22.75	3.27	4.25	3.38	1.5	2.06
J-35S18BTC	847	53.5	42.375	12.812	22.75	3.27	4.25	3.38	1.5	2.06
J-35S18RTA	483	53.5	42.375	8.562	22.75	3.27	4.25	3.38	1.5	2.06
J-35S18RTB	709	53.5	42.375	11.062	22.75	3.27	4.25	3.38	1.5	2.06
J-35S18RTC	847	53.5	42.375	12.812	22.75	3.27	4.25	3.38	1.5	2.06

20-inch 1-Sheave Shorty "J" Crane Blocks, 30-55 Tons

J25S20BTA	434	49.75	40.875	8.562	24.75	3.28	3.75	3	1.5	2.06
J25S20BTB	734	49.75	40.875	11.437	24.75	3.28	3.75	3	1.5	2.06
J25S20BTC	1078	49.75	40.875	16.437	24.75	3.28	3.75	3	1.5	2.06
J25S20RTA	434	49.75	40.875	8.562	24.75	3.28	3.75	3	1.5	2.06
J25S20RTB	734	49.75	40.875	11.437	24.75	3.28	3.75	3	1.5	2.06
J25S20RTC	1078	49.75	40.875	16.437	24.75	3.28	3.75	3	1.5	2.06
J30S20BTA	448	50.25	41.375	8.562	24.75	3.28	3.5	3	1.5	2.06
J30S20BTB	748	50.25	41.375	11.437	24.75	3.28	3.5	3	1.5	2.06
J30S20BTC	1092	50.25	41.375	16.437	24.75	3.28	3.5	3	1.5	2.06
J30S20RTA	448	50.25	41.375	8.562	24.75	3.28	3.5	3	1.5	2.06
J30S20RTB	748	50.25	41.375	11.437	24.75	3.28	3.5	3	1.5	2.06
J30S20RTC	1092	50.25	41.375	16.437	24.75	3.28	3.5	3	1.5	2.06
J35S20BTA	528	54.75	44.625	8.562	24.75	3.27	4.25	3.38	1.75	2.28
J35S20BTB	828	54.75	44.625	11.437	24.75	3.27	4.25	3.38	1.75	2.28
J35S20BTC	1172	54.75	44.625	16.437	24.75	3.27	4.25	3.38	1.75	2.28
J35S20RTA	528	54.75	44.625	8.562	24.75	3.27	4.25	3.38	1.75	2.28
J35S20RTB	828	54.75	44.625	11.437	24.75	3.27	4.25	3.38	1.75	2.28
J35S20RTC	1172	54.75	44.625	16.437	24.75	3.27	4.25	3.38	1.75	2.28
J40S20BTA	648	59	46.875	9.437	24.75	3.27	4.25	3.38	1.75	2.28
J40S20BTB	947	59	46.875	12.187	24.75	3.27	4.25	3.38	1.75	2.28
J40S20BTC	1291	59	46.875	17.187	24.75	3.27	4.25	3.38	1.75	2.28
J40S20RTA	648	59	46.875	9.437	24.75	3.27	4.25	3.38	1.75	2.28
J40S20RTB	947	59	46.875	12.187	24.75	3.27	4.25	3.38	1.75	2.28
J40S20RTC	1291	59	46.875	17.187	24.75	3.27	4.25	3.38	1.75	2.28

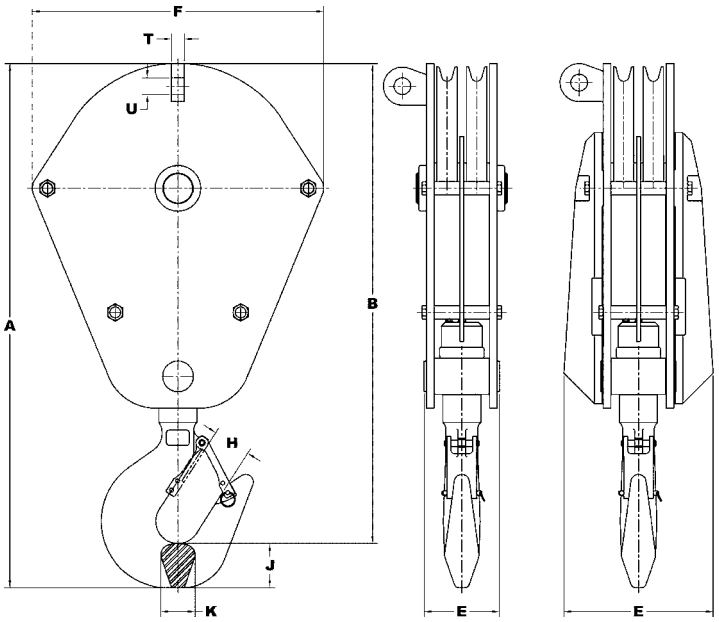
24-inch 1-Sheave Shorty "J" Crane Blocks, 30-55 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width	T Deadend Thick.	U Hole Dia.
J30S24BTA	548	54	45.125	8.562	28.75	3.28	3.5	3	1.5	2.06
J30S24BTB	1251	54	45.125	14.687	28.75	3.28	3.5	3	1.5	2.06
J30S24BTC	1711	54	45.125	21.187	28.75	3.28	3.5	3	1.5	2.06
J30S24RTA	548	54	45.125	8.562	28.75	3.28	3.5	3	1.5	2.06
J30S24RTB	1251	54	45.125	14.687	28.75	3.28	3.5	3	1.5	2.06
J30S24RTC	1711	54	45.125	21.187	28.75	3.28	3.5	3	1.5	2.06
J35S24BTA	628	58.5	48.375	8.562	28.75	3.27	4.25	3.375	1.5	2.06
J35S24BTB	1331	58.5	48.375	14.687	28.75	3.27	4.25	3.375	1.5	2.06
J35S24BTC	1791	58.5	48.375	21.187	28.75	3.27	4.25	3.375	1.5	2.06
J35S24RTA	628	58.5	48.375	8.562	28.75	3.27	4.25	3.375	1.5	2.06
J35S24RTB	1331	58.5	48.375	14.687	28.75	3.27	4.25	3.375	1.5	2.06
J35S24RTC	1791	58.5	48.375	21.187	28.75	3.27	4.25	3.375	1.5	2.06
J40S24BTA	769	60.875	50.875	9.437	28.75	3.27	4.25	3.375	1.75	2.28
J40S24BTB	1472	60.875	50.875	15.562	28.75	3.27	4.25	3.375	1.75	2.28
J40S24BTC	1932	60.875	50.875	22.062	28.75	3.27	4.25	3.375	1.75	2.28
J40S24RTA	769	60.875	50.875	9.437	28.75	3.27	4.25	3.375	1.75	2.28
J40S24RTB	1472	60.875	50.875	15.562	28.75	3.27	4.25	3.375	1.75	2.28
J40S24RTC	1932	60.875	50.875	22.062	28.75	3.27	4.25	3.375	1.75	2.28
J55S24BTA	852	65.25	53.25	9.437	28.75	4.63	6.13	4	2	2.53
J55S24BTB	1556	65.25	53.25	15.562	28.75	4.63	6.13	4	2	2.53
J55S24BTC	2016	65.25	53.25	22.062	28.75	4.63	6.13	4	2	2.53
J55S24RTA	852	65.25	53.25	9.437	28.75	4.63	6.13	4	2	2.53
J55S24RTB	1556	65.25	53.25	15.562	28.75	4.63	6.13	4	2	2.53
J55S24RTC	2016	65.25	53.25	22.062	28.75	4.63	6.13	4	2	2.53

Two Sheave Shorty "J" Crane Blocks

Gunnebo Johnson Design Factor is 4 to 1, with some exceptions;
45 Ton models 3.6 to 1
60 Ton models 3.6 to 1

For crane block warnings and use limitations see pages 76-77



Key to two sheave J-Block model numbers

J	5	D	10	B	T	A
Shorty "J" Crane Block	Working Load Limit – (US Tons)	Number of Sheaves: D = 2	Sheave Size – Nom. O.D.	Sheave Bearing B = Bronze Bushed R = Roller Bearing	Hook – Thrust Bearing	Cheek Weights A = No wts. AB = Med. wts. B = Std. wts. C = X-Heavy wts. D = Special wts.

Heavy Duty Hook Latches are Standard Equipment

Gunnebo Johnson's heavy duty J-Latches are standard equipment for blocks up to 250 tons. Larger blocks are equipped with standard bar latches.

Dead End chart

Wire Rope Size	T	U	For Pin Size
7/16" thru 5/8"	1	1.28	1-1/4
3/4" thru 1"	1.25	1.65	1-5/8
1-1/8 thru 1-3/8"	1.75	2.51	2-1/2

To order, please specify:

- **Model Number**
- **Wire Rope Size**
- **Options Required**

10-inch 2-Sheave Shorty "J" Crane Blocks, 5-20 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-5D10BTA	125	25	23.125	6.125	14	1.39	1.81	1.38
J-5D10BTB	200	25	23.125	8.375	14	1.39	1.81	1.38
J-5D10RTA	125	25	23.125	6.125	14	1.39	1.81	1.38
J-5D10RTB	200	25	23.125	8.375	14	1.39	1.81	1.38
J-10D10BTA	140	27.125	24.5	6.125	14	1.91	2.53	1.93
J-10D10BTB	210	27.125	24.5	8.375	14	1.91	2.53	1.93
J-10D10RTA	140	27.125	24.5	6.125	14	1.91	2.53	1.93
J-10D10RTB	210	27.125	24.5	8.375	14	1.91	2.53	1.93
J-15D10BTA	140	27.125	24.5	6.125	14	1.91	2.53	1.93
J-15D10BTB	210	27.125	24.5	8.375	14	1.91	2.53	1.93
J-15D10RTA	140	27.125	24.5	6.125	14	1.91	2.53	1.93
J-15D10RTB	210	27.125	24.5	8.375	14	1.91	2.53	1.93
J-20D10BTA	203	32.5	28.75	6.625	14	2.8	3	2.38
J-20D10BTB	275	32.5	28.75	8.875	14	2.8	3	2.38
J-20D10RTA	203	32.5	28.75	6.625	14	2.8	3	2.38
J-20D10RTB	275	32.5	28.75	8.875	14	2.8	3	2.38

12-inch 2-Sheave Shorty "J" Crane Blocks, 10-25 Tons

J-10D12BTA	165	28.875	26.25	6.125	16	1.91	2.53	1.93
J-10D12BTB	285	28.875	26.25	9.687	16	1.91	2.53	1.93
J-10D12BTC	435	28.875	26.25	14.187	16	1.91	2.53	1.93
J-10D12RTA	165	28.875	26.25	6.125	16	1.91	2.53	1.93
J-10D12RTB	285	28.875	26.25	9.687	16	1.91	2.53	1.93
J-10D12RTC	435	28.875	26.25	14.187	16	1.91	2.53	1.93
J-15D12BTA	170	28.875	26.25	6.125	16	1.91	2.53	1.93
J-15D12BTB	290	28.875	26.25	9.687	16	1.91	2.53	1.93
J-15D12BTC	440	28.875	26.25	14.187	16	1.91	2.53	1.93
J-15D12RTA	170	28.875	26.25	6.125	16	1.91	2.53	1.93
J-15D12RTB	290	28.875	26.25	9.687	16	1.91	2.53	1.93
J-15D12RTC	440	28.875	26.25	14.187	16	1.91	2.53	1.93
J-20D12BTA	225	34.25	30.5	6.625	16	2.8	3	2.38
J-20D12BTB	345	34.25	30.5	10.187	16	2.8	3	2.38
J-20D12BTC	500	34.25	30.5	14.687	16	2.8	3	2.38
J-20D12RTA	225	34.25	30.5	6.625	16	2.8	3	2.38
J-20D12RTB	345	34.25	30.5	10.187	16	2.8	3	2.38
J-20D12RTC	500	34.25	30.5	14.687	16	2.8	3	2.38
J-25D12BTA	225	34.25	30.5	6.625	16	2.8	3	2.38
J-25D12BTB	345	34.25	30.5	10.187	16	2.8	3	2.38
J-25D12BTC	500	34.25	30.5	14.687	16	2.8	3	2.38
J-25D12RTA	225	34.25	30.5	6.625	16	2.8	3	2.38
J-25D12RTB	345	34.25	30.5	10.187	16	2.8	3	2.38
J-25D12RTC	500	34.25	30.5	14.687	16	2.8	3	2.38

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

14-inch 2-Sheave Shorty "J" Crane Blocks, 10-30 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-10D14BTA	200	31.125	28.5	6.125	18	1.91	2.53	1.93
J-10D14BTAB	300	31.125	28.5	7.562	18	1.91	2.53	1.93
J-10D14BTB	380	31.125	28.5	10.562	18	1.91	2.53	1.93
J-10D14BTC	540	31.125	28.5	14.812	18	1.91	2.53	1.93
J-10D14RTA	200	31.125	28.5	6.125	18	1.91	2.53	1.93
J-10D14RTAB	300	31.125	28.5	7.562	18	1.91	2.53	1.93
J-10D14RTB	380	31.125	28.5	10.562	18	1.91	2.53	1.93
J-10D14RTC	540	31.125	28.5	14.812	18	1.91	2.53	1.93
J-15D14BTA	200	31.125	28.5	6.125	18	1.91	2.53	1.93
J-15D14BTAB	300	31.125	28.5	7.562	18	1.91	2.53	1.93
J-15D14BTB	380	31.125	28.5	10.562	18	1.91	2.53	1.93
J-15D14BTC	540	31.125	28.5	14.812	18	1.91	2.53	1.93
J-15D14RTA	200	31.125	28.5	6.125	18	1.91	2.53	1.93
J-15D14RTAB	300	31.125	28.5	7.562	18	1.91	2.53	1.93
J-15D14RTB	380	31.125	28.5	10.562	18	1.91	2.53	1.93
J-15D14RTC	540	31.125	28.5	14.812	18	1.91	2.53	1.93
J-20D14BTA	278	36.5	32.75	6.625	18	2.8	3	2.38
J-20D14BTAB	378	36.5	32.75	8.062	18	2.8	3	2.38
J-20D14BTB	460	36.5	32.75	11.062	18	2.8	3	2.38
J-20D14BTC	625	36.5	32.75	15.312	18	2.8	3	2.38
J-20D14RTA	278	36.5	32.75	6.625	18	2.8	3	2.38
J-20D14RTAB	378	36.5	32.75	8.062	18	2.8	3	2.38
J-20D14RTB	460	36.5	32.75	11.062	18	2.8	3	2.38
J-20D14RTC	625	36.5	32.75	15.312	18	2.8	3	2.38
J-25D14BTA	278	36.5	32.75	6.625	18	2.8	3	2.38
J-25D14BTAB	378	36.5	32.75	8.062	18	2.8	3	2.38
J-25D14BTB	460	36.5	32.75	11.062	18	2.8	3	2.38
J-25D14BTC	625	36.5	32.75	15.312	18	2.8	3	2.38
J-25D14RTA	278	36.5	32.75	6.625	18	2.8	3	2.38
J-25D14RTAB	378	36.5	32.75	8.062	18	2.8	3	2.38
J-25D14RTB	460	36.5	32.75	11.062	18	2.8	3	2.38
J-25D14RTC	625	36.5	32.75	15.312	18	2.8	3	2.38
J-30D14BTA	280	38	32.25	6.625	18	3.28	3.5	3
J-30D14BTAB	380	38	32.25	8.062	18	3.28	3.5	3
J-30D14BTB	460	38	32.25	11.062	18	3.28	3.5	3
J-30D14BTC	625	38	32.25	15.312	18	3.28	3.5	3
J-30D14RTA	280	38	32.25	6.625	18	3.28	3.5	3
J-30D14RTAB	380	38	32.25	8.062	18	3.28	3.5	3
J-30D14RTB	460	38	32.25	11.062	18	3.28	3.5	3
J-30D14RTC	625	38	32.25	15.312	18	3.28	3.5	3

16-inch 2-Sheave Shorty "J" Crane Blocks, 20-35 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-20D16BTA	328	38.25	34.5	6.625	20.125	2.8	3	2.38
J-20D16BTB	484	38.25	34.5	10.062	20.125	2.8	3	2.38
J-20D16BTC	630	38.25	34.5	12.562	20.125	2.8	3	2.38
J-20D16RTA	328	38.25	34.5	6.625	20.125	2.8	3	2.38
J-20D16RTB	484	38.25	34.5	10.062	20.125	2.8	3	2.38
J-20D16RTC	630	38.25	34.5	12.562	20.125	2.8	3	2.38
J-25D16BTA	328	38.25	34.5	6.625	20.125	2.8	3	2.38
J-25D16BTB	484	38.25	34.5	10.062	20.125	2.8	3	2.38
J-25D16BTC	630	38.25	34.5	12.562	20.125	2.8	3	2.38
J-25D16RTA	328	38.25	34.5	6.625	20.125	2.8	3	2.38
J-25D16RTB	484	38.25	34.5	10.062	20.125	2.8	3	2.38
J-25D16RTC	630	38.25	34.5	12.562	20.125	2.8	3	2.38
J-30D16BTA	351	40.25	36.5	6.625	20.125	3.28	3.5	3
J-30D16BTB	506	40.25	36.5	10.062	20.125	3.28	3.5	3
J-30D16BTC	652	40.25	36.5	12.562	20.125	3.28	3.5	3
J-30D16RTA	351	40.25	36.5	6.625	20.125	3.28	3.5	3
J-30D16RTB	506	40.25	36.5	10.062	20.125	3.28	3.5	3
J-30D16RTC	652	40.25	36.5	12.562	20.125	3.28	3.5	3
J-35D16BTA	425	45	40.75	7.75	20.125	3.27	4.25	3.38
J-35D16BTB	581	45	40.75	11.187	20.125	3.27	4.25	3.38
J-35D16BTC	727	45	40.75	13.687	20.125	3.27	4.25	3.38
J-35D16RTA	425	45	40.75	7.75	20.125	3.27	4.25	3.38
J-35D16RTB	581	45	40.75	11.187	20.125	3.27	4.25	3.38
J-35D16RTC	727	45	40.75	13.687	20.125	3.27	4.25	3.38

18-inch 2-Sheave Shorty "J" Crane Blocks, 25-40 Tons

J-25D18BTA	460	42.375	38.625	7.75	22.75	2.8	3	2.38
J-25D18BTB	686	42.375	38.625	11.062	22.75	2.8	3	2.38
J-25D18BTC	824	42.375	38.625	12.187	22.75	2.8	3	2.38
J-25D18RTA	460	42.375	38.625	7.75	22.75	2.8	3	2.38
J-25D18RTB	686	42.375	38.625	11.062	22.75	2.8	3	2.38
J-25D18RTC	824	42.375	38.625	12.187	22.75	3.28	3.5	3
J-30D18BTA	474	42.875	39.125	7.75	22.75	3.28	3.5	3
J-30D18BTB	700	42.875	39.125	11.062	22.75	3.28	3.5	3
J-30D18BTC	838	42.875	39.125	12.187	22.75	3.28	3.5	3
J-30D18RTA	474	42.875	39.125	7.75	22.75	3.28	3.5	3
J-30D18RTB	700	42.875	39.125	11.062	22.75	3.28	3.5	3
J-30D18RTC	838	42.875	39.125	12.187	22.75	3.28	3.5	3
J-35D18BTA	530	46.625	42.375	7.75	22.75	3.27	4.25	3.38
J-35D18BTB	756	46.625	42.375	11.062	22.75	3.27	4.25	3.38
J-35D18BTC	894	46.625	42.375	12.187	22.75	3.27	4.25	3.38
J-35D18RTA	530	46.625	42.375	7.75	22.75	3.27	4.25	3.38

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

18-inch 2-Sheave Shorty "J" Crane Blocks, 25-40 Tons

Model	WT.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-35D18RTB	756	46.625	42.375	11.062	22.75	3.27	4.25	3.38
J-35D18RTC	894	46.625	42.375	12.187	22.75	3.27	4.25	3.38
J-40D18BTA	677	49.125	44.875	8.625	22.75	3.27	4.25	3.38
J-40D18BTB	900	49.125	44.875	11.937	22.75	3.27	4.25	3.38
J-40D18BTC	1040	49.125	44.875	13.687	22.75	3.27	4.25	3.38
J-40D18RTA	677	49.125	44.875	8.625	22.75	3.27	4.25	3.38
J-40D18RTB	900	49.125	44.875	11.937	22.75	3.27	4.25	3.38
J-40D18RTC	1040	49.125	44.875	13.687	22.75	3.27	4.25	3.38

20-inch 2-Sheave Shorty "J" Crane Blocks, 25-55 Tons

J-25D20BTA	520	44.625	40.875	7.75	24.75	3.28	3	2.38
J-25D20BTB	820	44.625	40.875	11.437	24.75	3.28	3	2.38
J-25D20BTC	1164	44.625	40.875	16.437	24.75	3.28	3	2.38
J-25D20RTA	520	44.625	40.875	7.75	24.75	3.28	3	2.38
J-25D20RTB	820	44.625	40.875	11.437	24.75	3.28	3	2.38
J-25D20RTC	1164	44.625	40.875	16.437	24.75	3.28	3	2.38
J-30D20BTA	534	45.125	41.375	7.75	24.75	3.28	3.5	3
J-30D20BTB	834	45.125	41.375	11.437	24.75	3.28	3.5	3
J-30D20BTC	1178	45.125	41.375	16.437	24.75	3.28	3.5	3
J-30D20RTA	534	45.125	41.375	7.75	24.75	3.28	3.5	3
J-30D20RTB	834	45.125	41.375	11.437	24.75	3.28	3.5	3
J-30D20RTC	1178	45.125	41.375	16.437	24.75	3.28	3.5	3
J-35D20BTA	590	48.875	44.625	7.75	24.75	3.27	4.25	3.38
J-35D20BTB	890	48.875	44.625	11.437	24.75	3.27	4.25	3.38
J-35D20BTC	1234	48.875	44.625	16.437	24.75	3.27	4.25	3.38
J-35D20RTA	590	48.875	44.625	7.75	24.75	3.27	4.25	3.38
J-35D20RTB	890	48.875	44.625	11.437	24.75	3.27	4.25	3.38
J-35D20RTC	1234	48.875	44.625	16.437	24.75	3.27	4.25	3.38
J-40D20BTA	748	51.125	46.875	8.625	24.75	3.27	4.25	3.38
J-40D20BTB	1047	51.125	46.875	12.312	24.75	3.27	4.25	3.38
J-40D20BTC	1391	51.125	46.875	17.312	24.75	3.27	4.25	3.38
J-40D20RTA	748	51.125	46.875	8.625	24.75	3.27	4.25	3.38
J-40D20RTB	1047	51.125	46.875	12.312	24.75	3.27	4.25	3.38
J-40D20RTC	1391	51.125	46.875	17.312	24.75	3.27	4.25	3.38
J-45D20BTA	748	51.125	46.875	8.625	24.75	3.27	4.25	3.38
J-45D20BTB	1047	51.125	46.875	12.312	24.75	3.27	4.25	3.38
J-45D20BTC	1391	51.125	46.875	17.312	24.75	3.27	4.25	3.38
J-45D20RTA	748	51.125	46.875	8.625	24.75	3.27	4.25	3.38
J-45D20RTB	1047	51.125	46.875	12.312	24.75	3.27	4.25	3.38
J-45D20RTC	1391	51.125	46.875	17.312	24.75	3.27	4.25	3.38
J-55D20BTA	824	55.5	49.375	8.625	24.75	4.63	6.13	4
J-55D20BTB	1123	55.5	49.375	12.312	24.75	4.63	6.13	4

20-inch 2-Sheave Shorty "J" Crane Blocks, 25-55 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-55D20BTC	1467	55.5	49.375	17.312	24.75	4.63	6.13	4
J-55D20RTA	824	55.5	49.375	8.625	24.75	4.63	6.13	4
J-55D20RTB	1123	55.5	49.375	12.312	24.75	4.63	6.13	4
J-55D20RTC	1467	55.5	49.375	17.312	24.75	4.63	6.13	4

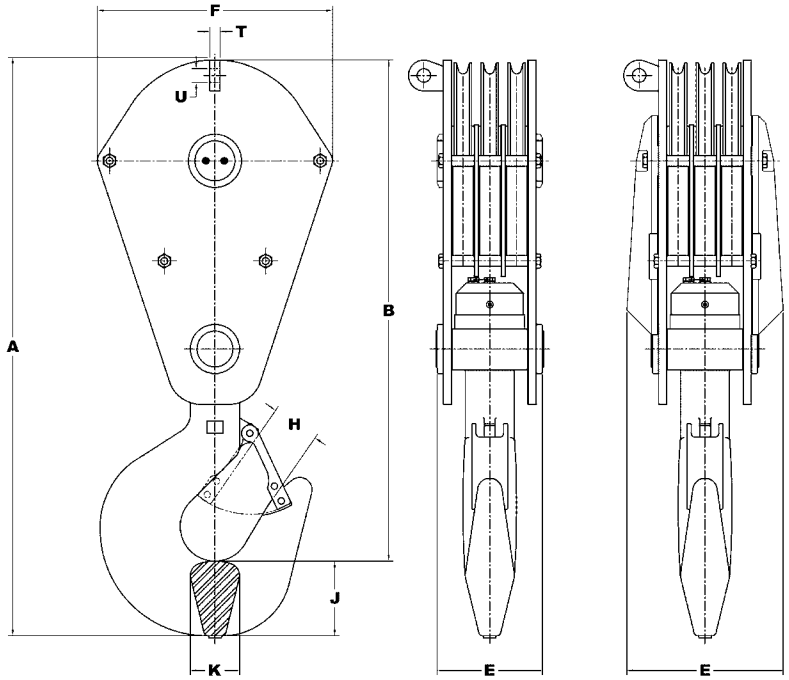
24-inch 2-Sheave Shorty "J" Crane Blocks, 35-80 Tons

J35D24BTA	548	52.625	48.375	7.75	28.75	3.27	4.25	3.38
J35D24BTB	1251	52.625	48.375	14.687	28.75	3.27	4.25	3.38
J35D24BTC	1711	52.625	48.375	21.187	28.75	3.27	4.25	3.38
J35D24RTA	548	52.625	48.375	7.75	28.75	3.27	4.25	3.38
J35D24RTB	1251	52.625	48.375	14.687	28.75	3.27	4.25	3.38
J35D24RTC	1711	52.625	48.375	21.187	28.75	3.27	4.25	3.38
J40D24BTA	913	55.125	50.875	8.625	28.75	3.27	4.25	3.38
J40D24BTB	1617	55.125	50.875	15.562	28.75	3.27	4.25	3.38
J40D24BTC	2077	55.125	50.875	22.062	28.75	3.27	4.25	3.38
J40D24RTA	913	55.125	50.875	8.625	28.75	3.27	4.25	3.38
J40D24RTB	1617	55.125	50.875	15.562	28.75	3.27	4.25	3.38
J40D24RTC	2077	55.125	50.875	22.062	28.75	3.27	4.25	3.38
J45D24BTA	913	55.125	50.875	8.625	28.75	3.27	4.25	3.38
J45D24BTB	1617	55.125	50.875	15.562	28.75	3.27	4.25	3.38
J45D24BTC	2077	55.125	50.875	22.062	28.75	3.27	4.25	3.38
J45D24RTA	913	55.125	50.875	8.625	28.75	3.27	4.25	3.38
J45D24RTB	1617	55.125	50.875	15.562	28.75	3.27	4.25	3.38
J45D24RTC	2077	55.125	50.875	22.062	28.75	3.27	4.25	3.38
J55D24BTA	989	59.375	53.25	8.625	28.75	4.63	6.13	4
J55D24BTB	1692	59.375	53.25	15.562	28.75	4.63	6.13	4
J55D24BTC	2152	59.375	53.25	22.062	28.75	4.63	6.13	4
J55D24RTA	989	59.375	53.25	8.625	28.75	4.63	6.13	4
J55D24RTB	1692	59.375	53.25	15.562	28.75	4.63	6.13	4
J55D24RTC	2152	59.375	53.25	22.062	28.75	4.63	6.13	4
J60D24BTA	989	59.375	53.25	8.625	28.75	4.63	6.13	4
J60D24BTB	1692	59.375	53.25	15.562	28.75	4.63	6.13	4
J60D24BTC	2152	59.375	53.25	22.062	28.75	4.63	6.13	4
J60D24RTA	989	59.375	53.25	8.625	28.75	4.63	6.13	4
J60D24RTB	1692	59.375	53.25	15.562	28.75	4.63	6.13	4
J60D24RTC	2152	59.375	53.25	22.062	28.75	4.63	6.13	4
J70D24BTA	997	59.625	53.375	8.625	28.75	4.36	6.25	4.5
J70D24BTB	1700	59.625	53.375	15.562	28.75	4.36	6.25	4.5
J70D24BTC	2160	59.625	53.375	22.062	28.75	4.36	6.25	4.5
J70D24RTA	997	59.625	53.375	8.625	28.75	4.36	6.25	4.5
J70D24RTB	1700	59.625	53.375	15.562	28.75	4.36	6.25	4.5
J70D24RTC	2160	59.625	53.375	22.062	28.75	4.36	6.25	4.5

Three Sheave Shorty "J" Crane Blocks

Gunnebo Johnson Design Factor is 4 to 1, with some exceptions;
45 Ton models 3.6 to 1
60 Ton models 3.6 to 1

For crane block warnings and use limitations see pages 76-77



Key to three sheave J-Block model numbers

J	10	T	10	B	T	A
Shorty "J" Crane Block	Working Load Limit – (US Tons)	Number of Sheaves: T = 3	Sheave Size – Nom. O.D.	Sheave Bearing B = Bronze Bushed R = Roller Bearing	Hook – Thrust Bearing	Cheek Weights A = No wts. AB = Med. wts. B = Std. wts. C = X-Heavy wts. D = Special wts.

Gunnebo Johnson's heavy duty J-Latches are standard equipment for blocks up to 250 tons. Larger blocks are equipped with standard bar latches.

Dead End chart

Wire Rope Size	T	U	For Pin Size
7/16" thru 5/8"	1	1.28	1-1/4
3/4" thru 1"	1.25	1.65	1-5/8
1-1/8 thru 1-3/8"	1.75	2.51	2-1/2

To order, please specify:

- **Model Number**
- **Wire Rope Size**
- **Options Required**

10-inch 3-Sheave Shorty "J" Crane Blocks, 10-25 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-10T10BTA	170	25.625	23	8.375	14	1.91	2.53	1.93
J-10T10BTB	245	25.625	23	10.687	14	1.91	2.53	1.93
J-10T10RTA	170	25.625	23	8.375	14	1.91	2.53	1.93
J-10T10RTB	245	25.625	23	10.687	14	1.91	2.53	1.93
J-15T10BTA	180	25.625	23	8.375	14	1.91	2.53	1.93
J-15T10BTB	255	25.625	23	10.687	14	1.91	2.53	1.93
J-15T10RTA	180	25.625	23	8.375	14	1.91	2.53	1.93
J-15T10RTB	255	25.625	23	10.687	14	1.91	2.53	1.93
J-20T10BTA	230	28	25	8.875	14	2.8	3	2.38
J-20T10BTB	305	28	25	11.187	14	2.8	3	2.38
J-20T10RTA	230	28	25	8.875	14	2.8	3	2.38
J-20T10RTB	305	28	25	11.187	14	2.8	3	2.38
J-25T10BTA	230	28	25	8.875	14	2.8	3	2.38
J-25T10BTB	305	28	25	11.187	14	2.8	3	2.38
J-25T10RTA	230	28	25	8.875	14	2.8	3	2.38
J-25T10RTB	305	28	25	11.187	14	2.8	3	2.38

12-inch 3-Sheave Shorty "J" Crane Blocks, 15-30 Tons

J-15T12BTA	200	27.375	24.75	8.375	16	1.91	2.53	1.93
J-15T12BTB	325	27.375	24.75	12	16	1.91	2.53	1.93
J-15T12BTC	475	27.375	24.75	16.5	16	1.91	2.53	1.93
J-15T12RTA	200	27.375	24.75	8.375	16	1.91	2.53	1.93
J-15T12RTB	325	27.375	24.75	12	16	1.91	2.53	1.93
J-15T12RTC	475	27.375	24.75	16.5	16	1.91	2.53	1.93
J-20T12BTA	255	9.75	26.75	8.875	16	2.8	3	2.38
J-20T12BTB	380	29.75	26.75	12.5	16	2.8	3	2.38
J-20T12BTC	530	29.75	26.75	17	16	2.8	3	2.38
J-20T12RTA	255	29.75	26.75	8.875	16	2.8	3	2.38
J-20T12RTB	380	29.75	26.75	12.5	16	2.8	3	2.38
J-20T12RTC	530	29.75	26.75	17	16	2.8	3	2.38
J-25T12BTA	255	29.75	26.75	8.875	16	2.8	3	2.38
J-25T12BTB	380	29.75	26.75	12.5	16	2.8	3	2.38
J-25T12BTC	530	29.75	26.75	17	16	2.8	3	2.38
J-25T12RTA	255	29.75	26.75	8.875	16	2.8	3	2.38
J-25T12RTB	380	29.75	26.75	12.5	16	2.8	3	2.38
J-25T12RTC	530	29.75	26.75	17	16	2.8	3	2.38
J-30T12BTA	305	35	31.25	9	16	3.28	3.5	3
J-30T12BTB	425	35	31.25	12.5	16	3.28	3.5	3
J-30T12BTC	575	35	31.25	17	16	3.28	3.5	3
J-30T12RTA	305	35	31.25	9	16	3.28	3.5	3
J-30T12RTB	425	35	31.25	12.5	16	3.28	3.5	3
J-30T12RTC	575	35	31.25	17	16	3.28	3.5	3

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

14-inch 3-Sheave Shorty "J" Crane Blocks, 20-35 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J20T14BTA	320	32	29	8.875	18	2.8	3	2.38
J20T14BTAB	430	32	29	10.375	18	2.8	3	2.38
J20T14BTB	505	32	29	13.375	18	2.8	3	2.38
J20T14BTC	670	32	29	17.625	18	2.8	3	2.38
J20T14RTA	320	32	29	8.875	18	2.8	3	2.38
J20T14RTAB	430	32	29	10.375	18	2.8	3	2.38
J20T14RTB	505	32	29	13.375	18	2.8	3	2.38
J20T14RTC	670	32	29	17.625	18	2.8	3	2.38
J25T14BTA	320	32	29	8.875	18	2.8	3	2.38
J25T14BTAB	430	32	29	10.375	18	2.8	3	2.38
J25T14BTB	505	32	29	13.375	18	2.8	3	2.38
J25T14BTC	670	32	29	17.625	18	2.8	3	2.38
J25T14RTA	320	32	29	8.875	18	2.8	3	2.38
J25T14RTAB	430	32	29	10.375	18	2.8	3	2.38
J25T14RTB	505	32	29	13.375	18	2.8	3	2.38
J25T14RTC	670	32	29	17.625	18	2.8	3	2.38
J30T14BTA	370	37.75	34	8.875	18	3.28	3.5	3
J30T14BTAB	480	37.75	34	10.375	18	3.28	3.5	3
J30T14BTB	555	37.75	34	13.375	18	3.28	3.5	3
J30T14BTC	720	37.75	34	17.625	18	3.28	3.5	3
J30T14RTA	370	37.75	34	8.875	18	3.28	3.5	3
J30T14RTAB	480	37.75	34	10.375	18	3.28	3.5	3
J30T14RTB	555	37.75	34	13.375	18	3.28	3.5	3
J30T14RTC	720	37.75	34	17.625	18	3.28	3.5	3
J35T14BTA	430	41.5	37.25	8.875	18	3.27	4.25	3.38
J35T14BTAB	540	41.5	37.25	10.375	18	3.27	4.25	3.38
J35T14BTB	610	41.5	37.25	13.375	18	3.27	4.25	3.38
J35T14BTC	775	41.5	37.25	17.625	18	3.27	4.25	3.38
J35T14RTA	430	41.5	37.25	8.875	18	3.27	4.25	3.38
J35T14RTAB	540	41.5	37.25	10.375	18	3.27	4.25	3.38
J35T14RTB	610	41.5	37.25	13.375	18	3.27	4.25	3.38
J35T14RTC	775	41.5	37.25	17.625	18	3.27	4.25	3.38

16-inch 3-Sheave Shorty "J" Crane Blocks, 25-45 Tons

J25T16BTA	389	33.75	30.75	8.875	20.125	2.8	3	2.38
J25T16BTB	544	33.75	30.75	12.375	20.125	2.8	3	2.38
J25T16BTC	690	33.75	30.75	14.875	20.125	2.8	3	2.38
J25T16RTA	389	33.75	30.75	8.875	20.125	2.8	3	2.38
J25T16RTB	544	33.75	30.75	12.375	20.125	2.8	3	2.38
J25T16RTC	690	33.75	30.75	14.875	20.125	2.8	3	2.38
J30T16BTA	437	40	36.25	8.875	20.125	3.28	3.5	3

16-inch 3-Sheave Shorty "J" Crane Blocks, 25-45 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J30T16BTB	593	40	36.25	12.375	20.125	3.28	3.5	3
J30T16BTC	739	40	36.25	14.875	20.125	3.28	3.5	3
J30T16RTA	437	40	36.25	8.875	20.125	3.28	3.5	3
J30T16RTB	593	40	36.25	12.375	20.125	3.28	3.5	3
J30T16RTC	739	40	36.25	14.875	20.125	3.28	3.5	3
J35T16BTA	494	43.75	39.5	8.875	20.125	3.27	4.25	3.38
J35T16BTB	650	43.75	39.5	12.375	20.125	3.27	4.25	3.38
J35T16BTC	796	43.75	39.5	14.875	20.125	3.27	4.25	3.38
J35T16RTA	494	43.75	39.5	8.875	20.125	3.27	4.25	3.38
J35T16RTB	650	43.75	39.5	12.375	20.125	3.27	4.25	3.38
J35T16RTC	796	43.75	39.5	14.875	20.125	3.27	4.25	3.38
J40T16BTA	505	45.25	41	9	20.125	3.27	4.25	3.38
J40T16BTB	661	45.25	41	12.375	20.125	3.27	4.25	3.38
J40T16BTC	807	45.25	41	14.875	20.125	3.27	4.25	3.38
J40T16RTA	505	45.25	41	9	20.125	3.27	4.25	3.38
J40T16RTB	661	45.25	41	12.375	20.125	3.27	4.25	3.38
J40T16RTC	807	45.25	41	14.875	20.125	3.27	4.25	3.38
J45T16BTA	505	45.25	41	9	20.125	3.27	4.25	3.38
J45T16BTB	661	45.25	41	12.375	20.125	3.27	4.25	3.38
J45T16BTC	807	45.25	41	14.875	20.125	3.27	4.25	3.38
J45T16RTA	505	45.25	41	9	20.125	3.27	4.25	3.38
J45T16RTB	661	45.25	41	12.375	20.125	3.27	4.25	3.38
J45T16RTC	807	45.25	41	14.875	20.125	3.27	4.25	3.38

18-inch 3-Sheave Shorty "J" Crane Blocks, 25-70 Tons

J25T18BTA	566	37.375	34.375	10.75	22.75	2.8	3	2.38
J25T18BTB	793	37.375	34.375	14	22.75	2.8	3	2.38
J25T18BTC	931	37.375	34.375	15.75	22.75	2.8	3	2.38
J25T18RTA	566	37.375	34.375	10.75	22.75	2.8	3	2.38
J25T18RTB	793	37.375	34.375	14	22.75	2.8	3	2.38
J25T18RTC	931	37.375	34.375	15.75	22.75	2.8	3	2.38
J30T18BTA	600	39.875	36.125	10.75	22.75	3.28	3.5	3
J30T18BTB	827	39.875	36.125	14	22.75	3.28	3.5	3
J30T18BTC	965	39.875	36.125	15.75	22.75	3.28	3.5	3
J30T18RTA	600	39.875	36.125	10.75	22.75	3.28	3.5	3
J30T18RTB	827	39.875	36.125	14	22.75	3.28	3.5	3
J30T18RTC	965	39.875	36.125	15.75	22.75	3.28	3.5	3
J35T18BTA	662	45.625	41.375	10.75	22.75	3.27	4.25	3.38
J35T18BTB	889	45.625	41.375	14	22.75	3.27	4.25	3.38
J35T18BTC	1027	45.625	41.375	15.75	22.75	3.27	4.25	3.38
J35T18RTA	662	45.625	41.375	10.75	22.75	3.27	4.25	3.38
J35T18RTB	889	45.625	41.375	14	22.75	3.27	4.25	3.38

18-inch 3-Sheave Shorty "J" Crane Blocks, 25-70 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J35T18RTC	1027	45.625	41.375	15.75	22.75	3.27	4.25	3.38
J40T18BTA	788	49.125	44.875	11.25	22.75	3.27	4.25	3.38
J40T18BTB	1014	49.125	44.875	14.5	22.75	3.27	4.25	3.38
J40T18BTC	1152	49.125	44.875	16.25	22.75	3.27	4.25	3.38
J40T18RTA	788	49.125	44.875	11.25	22.75	3.27	4.25	3.38
J40T18RTB	1014	49.125	44.875	14.5	22.75	3.27	4.25	3.38
J40T18RTC	1152	49.125	44.875	16.25	22.75	3.27	4.25	3.38
J45T18BTA	788	49.125	44.875	11.25	22.75	3.27	4.25	3.38
J45T18BTB	1014	49.125	44.875	14.5	22.75	3.27	4.25	3.38
J45T18BTC	1152	49.125	44.875	16.25	22.75	3.27	4.25	3.38
J45T18RTA	788	49.125	44.875	11.25	22.75	3.27	4.25	3.38
J45T18RTB	1014	49.125	44.875	14.5	22.75	3.27	4.25	3.38
J45T18RTC	1152	49.125	44.875	16.25	22.75	3.27	4.25	3.38
J55T18BTA	872	53.5	47.375	12.75	22.75	4.63	6.13	4
J55T18BTB	1098	53.5	47.375	14.5	22.75	4.63	6.13	4
J55T18BTC	1236	53.5	47.375	16.25	22.75	4.63	6.13	4
J55T18RTA	872	53.5	47.375	12.75	22.75	4.63	6.13	4
J55T18RTB	1098	53.5	47.375	14.5	22.75	4.63	6.13	4
J55T18RTC	1236	53.5	47.375	16.25	22.75	4.63	6.13	4
J60T18BTA	872	53.5	47.375	12.75	22.75	4.36	6.13	4
J60T18BTB	1098	53.5	47.375	14.5	22.75	4.36	6.13	4
J60T18BTC	1236	53.5	47.375	16.25	22.75	4.36	6.13	4
J60T18RTA	872	53.5	47.375	12.75	22.75	4.36	6.13	4
J60T18RTB	1098	53.5	47.375	14.5	22.75	4.36	6.13	4
J60T18RTC	1236	53.5	47.375	16.25	22.75	4.36	6.13	4
J70T18BTA	904	53.75	47.5	12.75	22.75	4.36	6.25	4.5
J70T18BTB	1130	53.75	47.5	14.5	22.75	4.36	6.25	4.5
J70T18BTC	1268	53.75	47.5	16.25	22.75	4.36	6.25	4.5
J70T18RTA	904	53.75	47.5	12.75	22.75	4.36	6.25	4.5
J70T18RTB	1130	53.75	47.5	14.5	22.75	4.36	6.25	4.5
J70T18RTC	1268	53.75	47.5	16.25	22.75	4.36	6.25	4.5

20-inch 3-Sheave Shorty "J" Crane Blocks, 30-80 Tons

J30T20BTA	675	42.125	38.375	12	24.75	3.28	3.5	3
J30T20BTB	976	42.125	38.375	14.375	24.75	3.28	3.5	3
J30T20BTC	1320	42.125	38.375	19.375	24.75	3.28	3.5	3
J30T20RTA	675	42.125	38.375	12	24.75	3.28	3.5	3
J30T20RTB	976	42.125	38.375	14.375	24.75	3.28	3.5	3
J30T20RTC	1320	42.125	38.375	19.375	24.75	3.28	3.5	3
J35T20BTA	738	42.125	38.375	12	24.75	3.27	4.25	3.38
J35T20BTB	1039	42.125	38.375	14.375	24.75	3.27	4.25	3.38
J35T20BTC	1383	42.125	38.375	19.375	24.75	3.27	4.25	3.38

20-inch 3-Sheave Shorty "J" Crane Blocks, 30-80 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J35T20RTA	738	42.125	38.375	12	24.75	3.27	4.25	3.38
J35T20RTB	1039	42.125	38.375	14.375	24.75	3.27	4.25	3.38
J35T20RTC	1383	42.125	38.375	19.375	24.75	3.27	4.25	3.38
J40T20BTA	869	51.125	46.875	12	24.75	3.27	4.25	3.38
J40T20BTB	1169	51.125	46.875	14.375	24.75	3.27	4.25	3.38
J40T20BTC	1513	51.125	46.875	19.375	24.75	3.27	4.25	3.38
J40T20RTA	869	51.125	46.875	12	24.75	3.27	4.25	3.38
J40T20RTB	1169	51.125	46.875	14.375	24.75	3.27	4.25	3.38
J40T20RTC	1513	51.125	46.875	19.375	24.75	3.27	4.25	3.38
J45T20BTA	869	51.125	46.875	12	24.75	3.27	4.25	3.38
J45T20BTB	1169	51.125	46.875	14.375	24.75	3.27	4.25	3.38
J45T20BTC	1513	51.125	46.875	19.375	24.75	3.27	4.25	3.38
J45T20RTA	869	51.125	46.875	12	24.75	3.27	4.25	3.38
J45T20RTB	1169	51.125	46.875	14.375	24.75	3.27	4.25	3.38
J45T20RTC	1513	51.125	46.875	19.375	24.75	3.27	4.25	3.38
J55T20BTA	949	55.5	49.375	12.75	24.75	4.63	6.13	4
J55T20BTB	1250	55.5	49.375	14.375	24.75	4.63	6.13	4
J55T20BTC	1594	55.5	49.375	19.375	24.75	4.63	6.13	4
J55T20RTA	949	55.5	49.375	12.75	24.75	4.63	6.13	4
J55T20RTB	1250	55.5	49.375	14.375	24.75	4.63	6.13	4
J55T20RTC	1594	55.5	49.375	19.375	24.75	4.63	6.13	4
J60T20BTA	949	55.5	49.375	12.75	24.75	4.63	6.13	4
J60T20BTB	1250	55.5	49.375	14.375	24.75	4.63	6.13	4
J60T20BTC	1594	55.5	49.375	19.375	24.75	4.63	6.13	4
J60T20RTA	949	55.5	49.375	12.75	24.75	4.63	6.13	4
J60T20RTB	1250	55.5	49.375	14.375	24.75	4.63	6.13	4
J60T20RTC	1594	55.5	49.375	19.375	24.75	4.63	6.13	4
J65T20BTA	982	55.75	49.5	12.75	24.75	4.36	6.25	4.5
J65T20BTB	1282	55.75	49.5	14.375	24.75	4.36	6.25	4.5
J65T20BTC	1626	55.75	49.5	19.375	24.75	4.36	6.25	4.5
J65T20RTA	982	55.75	49.5	12.75	24.75	4.36	6.25	4.5
J65T20RTB	1282	55.75	49.5	14.375	24.75	4.36	6.25	4.5
J65T20RTC	1626	55.75	49.5	19.375	24.75	4.36	6.25	4.5
J70T20BTA	982	55.75	49.5	12.75	24.75	4.36	6.25	4.5
J70T20BTB	1282	55.75	49.5	14.375	24.75	4.36	6.25	4.5
J70T20BTC	1626	55.75	49.5	19.375	24.75	4.36	6.25	4.5
J70T20RTA	982	55.75	49.5	12.75	24.75	4.36	6.25	4.5
J70T20RTB	1282	55.75	49.5	14.375	24.75	4.36	6.25	4.5
J70T20RTC	1626	55.75	49.5	19.375	24.75	4.36	6.25	4.5
J75T20BTA	1190	60	53	12.875	24.75	4.75	6.75	4.75
J75T20BTB	1492	60	53	15.625	24.75	4.75	6.75	4.75
J75T20BTC	1836	60	53	20.625	24.75	4.75	6.75	4.75
J75T20RTA	1190	60	53	12.875	24.75	4.75	6.75	4.75

20-inch 3-Sheave Shorty "J" Crane Blocks, 30-80 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J75T20RTB	1492	60	53	15.625	24.75	4.75	6.75	4.75
J75T20RTC	1836	60	53	20.625	24.75	4.75	6.75	4.75
J80T20BTA	1190	60	53	12.875	24.75	4.75	6.75	4.75
J80T20BTB	1492	60	53	15.625	24.75	4.75	6.75	4.75
J80T20BTC	1836	60	53	20.625	24.75	4.75	6.75	4.75
J80T20RTA	1190	60	53	12.875	24.75	4.75	6.75	4.75
J80T20RTB	1492	60	53	15.625	24.75	4.75	6.75	4.75
J80T20RTC	1836	60	53	20.625	24.75	4.75	6.75	4.75

24-inch 3-Sheave Shorty "J" Crane Blocks, 55-100 Tons

J55T24BTA	1147	59.375	53.25	12.75	28.75	4.63	6.13	4
J55T24BTB	1851	59.375	53.25	18.125	28.75	4.63	6.13	4
J55T24BTC	2311	59.375	53.25	24.625	28.75	4.63	6.13	4
J55T24RTA	1147	59.375	53.25	12.75	28.75	4.63	6.13	4
J55T24RTB	1851	59.375	53.25	18.125	28.75	4.63	6.13	4
J55T24RTC	2311	59.375	53.25	24.625	28.75	4.63	6.13	4
J60T24BTA	1147	59.375	53.25	12.75	28.75	4.63	6.13	4
J60T24BTB	1851	59.375	53.25	18.125	28.75	4.63	6.13	4
J60T24BTC	2311	59.375	53.25	24.625	28.75	4.63	6.13	4
J60T24RTA	1147	59.375	53.25	12.75	28.75	4.63	6.13	4
J60T24RTB	1851	59.375	53.25	18.125	28.75	4.63	6.13	4
J60T24RTC	2311	59.375	53.25	24.625	28.75	4.63	6.13	4
J70T24BTA	1180	59.625	53.375	12.75	28.75	4.36	6.25	4.5
J70T24BTB	1884	59.625	53.375	18.125	28.75	4.36	6.25	4.5
J70T24BTC	2344	59.625	53.375	24.625	28.75	4.36	6.25	4.5
J70T24RTA	1180	59.625	53.375	12.75	28.75	4.36	6.25	4.5
J70T24RTB	1884	59.625	53.375	18.125	28.75	4.36	6.25	4.5
J70T24RTC	2344	59.625	53.375	24.625	28.75	4.36	6.25	4.5
J75T24BTA	1372	64	57	12.875	28.75	4.75	6.75	4.75
J75T24BTB	2077	64	57	18.875	28.75	4.75	6.75	4.75
J75T24BTC	2537	64	57	25.375	28.75	4.75	6.75	4.75
J75T24RTA	1372	64	57	12.875	28.75	4.75	6.75	4.75
J75T24RTB	2077	64	57	18.875	28.75	4.75	6.75	4.75
J75T24RTC	2537	64	57	25.375	28.75	4.75	6.75	4.75
J80T24BTA	1372	64	57	12.875	28.75	4.75	6.75	4.75
J80T24BTB	2077	64	57	18.875	28.75	4.75	6.75	4.75
J80T24BTC	2537	64	57	25.375	28.75	4.75	6.75	4.75
J80T24RTA	1372	64	57	12.875	28.75	4.75	6.75	4.75
J80T24RTB	2077	64	57	18.875	28.75	4.75	6.75	4.75
J80T24RTC	2537	64	57	25.375	28.75	4.75	6.75	4.75
J90T24BTA	1651	65.125	57.5	13.375	28.75	4.77	7.63	5.5

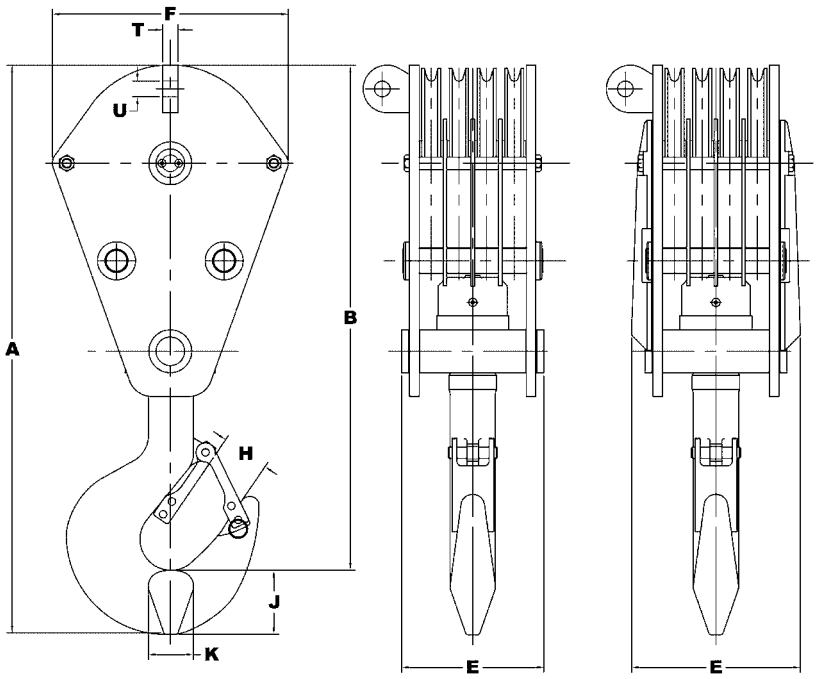
24-inch 3-Sheave Shorty “J” Crane Blocks, 55-100 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J90T24BTB	2357	65.125	57.5	19.375	28.75	4.77	7.63	5.5
J90T24BTC	2817	65.125	57.5	25.875	28.75	4.77	7.63	5.5
J90T24RTA	1651	65.125	57.5	13.375	28.75	4.77	7.63	5.5
J90T24RTB	2357	65.125	57.5	19.375	28.75	4.77	7.63	5.5
J90T24RTC	2817	65.125	57.5	25.875	28.75	4.77	7.63	5.5
J100T24BTA	1651	65.125	57.5	13.375	28.75	4.77	7.63	5.5
J100T24BTB	2357	65.125	57.5	19.375	28.75	4.77	7.63	5.5
J100T24BTC	2817	65.125	57.5	25.875	28.75	4.77	7.63	5.5
J100T24RTA	1651	65.125	57.5	13.375	28.75	4.77	7.63	5.5
J100T24RTB	2357	65.125	57.5	19.375	28.75	4.77	7.63	5.5
J100T24RTC	2817	65.125	57.5	25.875	28.75	4.77	7.63	5.5

Four Sheave Shorty "J" Crane Blocks

Gunnebo Johnson Design Factor is 4 to 1, with some exceptions;
45 Ton models 3.6 to 1
60 Ton models 3.6 to 1

For crane block warnings and use limitations see pages 76-77



Key to four sheave J-Block model numbers

J	15	Q	10	B	T	A
Shorty "J" Crane Block	Working Load Limit – (US Tons)	Number of Sheaves: Q = 4	Sheave Size – Nom. O.D.	Sheave Bearing B = Bronze Bushed R = Roller Bearing	Hook – Thrust Bearing	Cheek Weights A = No wts. AB = Med. wts. B = Std. wts. C = X-Heavy wts. D = Special wts.

Heavy Duty Hook Latches are Standard Equipment

Gunnebo Johnson's heavy duty J-Latches are standard equipment for blocks up to 250 tons. Larger blocks are equipped with standard bar latches.

Dead End chart

Wire Rope Size	T	U	For Pin Size
7/16" thru 5/8"	1	1.28	1-1/4
3/4" thru 1"	1.25	1.65	1-5/8
1-1/8 thru 1-3/8"	1.75	2.51	2-1/2

To order, please specify:

- **Model Number**
- **Wire Rope Size**
- **Options Required**

10-inch 4-Sheave Shorty "J" Crane Blocks, 15-30 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-15Q10BTA	235	25.75	23.125	10.625	14	1.91	2.53	1.93
J-15Q10BTB	305	25.75	23.125	12.937	14	1.91	2.53	1.93
J-15Q10RTA	235	25.75	23.125	10.625	14	1.91	2.53	1.93
J-15Q10RTB	305	25.75	23.125	12.937	14	1.91	2.53	1.93
J-20Q10BTA	290	28	25	10.625	14	2.8	3	2.38
J-20Q10BTB	365	28	25	13.437	14	2.8	3	2.38
J-20Q10RTA	290	28	25	10.625	14	2.8	3	2.38
J-20Q10RTB	365	28	25	13.437	14	2.8	3	2.38
J-25Q10BTA	290	28	25	10.625	14	2.8	3	2.38
J-25Q10BTB	365	28	25	13.437	14	2.8	3	2.38
J-25Q10RTA	290	28	25	10.625	14	2.8	3	2.38
J-25Q10RTB	365	28	25	13.437	14	2.8	3	2.38
J-30Q10BTA	330	31.125	27.375	11.25	14	3.28	3.5	3
J-30Q10BTB	402	31.125	27.375	13.437	14	3.28	3.5	3
J-30Q10RTA	330	31.125	27.375	11.25	14	3.28	3.5	3
J-30Q10RTB	402	31.125	27.375	13.437	14	3.28	3.5	3

12-inch 4-Sheave Shorty "J" Crane Blocks, 20-35 Tons

J-20Q12BTA	320	29.75	26.75	11.125	16	2.8	3	2.38
J-20Q12BTB	440	29.75	26.75	14.75	16	2.8	3	2.38
J-20Q12BTC	595	29.75	26.75	19.25	16	2.8	3	2.38
J-20Q12RTA	320	29.75	26.75	11.125	16	2.8	3	2.38
J-20Q12RTB	440	29.75	26.75	14.75	16	2.8	3	2.38
J-20Q12RTC	595	29.75	26.75	19.25	16	2.8	3	2.38
J-25Q12BTA	320	29.75	26.75	11.125	16	2.8	3	2.38
J-25Q12BTB	440	29.75	26.75	14.75	16	2.8	3	2.38
J-25Q12BTC	595	29.75	26.75	19.25	16	2.8	3	2.38
J-25Q12RTA	320	29.75	26.75	11.125	16	2.8	3	2.38
J-25Q12RTB	440	29.75	26.75	14.75	16	2.8	3	2.38
J-25Q12RTC	595	29.75	26.75	19.25	16	2.8	3	2.38
J-30Q12BTA	355	33.25	29.5	11.25	16	3.28	3.5	3
J-30Q12BTB	475	33.25	29.5	14.75	16	3.28	3.5	3
J-30Q12BTC	630	33.25	29.5	19.25	16	3.28	3.5	3
J-30Q12RTA	355	33.25	29.5	11.25	16	3.28	3.5	3
J-30Q12RTB	475	33.25	29.5	14.75	16	3.28	3.5	3
J-30Q12RTC	630	33.25	29.5	19.25	16	3.28	3.5	3
J-35Q12BTA	419	39	34.75	11.25	16	3.27	4.25	3.38
J-35Q12BTB	540	39	34.75	14.75	16	3.27	4.25	3.38
J-35Q12BTC	692	39	34.75	19.25	16	3.27	4.25	3.38
J-35Q12RTA	419	39	34.75	11.25	16	3.27	4.25	3.38
J-35Q12RTB	540	39	34.75	14.75	16	3.27	4.25	3.38
J-35Q12RTC	692	39	34.75	19.25	16	3.27	4.25	3.38

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

14-inch 4-Sheave Shorty "J" Crane Blocks, 25-45 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-25Q14BTA	400	32	29	11.125	18	2.8	3	2.38
J-25Q14BTB	580	32	29	15.625	18	2.8	3	2.38
J-25Q14BTC	745	32	29	19.875	18	2.8	3	2.38
J-25Q14RTA	400	32	29	11.125	18	2.8	3	2.38
J-25Q14RTB	580	32	29	15.625	18	2.8	3	2.38
J-25Q14RTC	745	32	29	19.875	18	2.8	3	2.38
J-30Q14BTA	435	36	32.25	11.25	18	3.28	3.5	3
J-30Q14BTB	620	36	32.25	15.625	18	3.28	3.5	3
J-30Q14BTC	785	36	32.25	19.875	18	3.28	3.5	3
J-30Q14RTA	435	36	32.25	11.25	18	3.28	3.5	3
J-30Q14RTB	620	36	32.25	15.625	18	3.28	3.5	3
J-30Q14RTC	785	36	32.25	19.875	18	3.28	3.5	3
J-35Q14BTA	435	41.75	37.5	11.25	18	3.27	4.25	3.38
J-35Q14BTB	620	41.75	37.5	15.625	18	3.27	4.25	3.38
J-35Q14BTC	780	41.75	37.5	19.875	18	3.27	4.25	3.38
J-35Q14RTA	435	41.75	37.5	11.25	18	3.27	4.25	3.38
J-35Q14RTB	620	41.75	37.5	15.625	18	3.27	4.25	3.38
J-35Q14RTC	780	41.75	37.5	19.875	18	3.27	4.25	3.38
J-40Q14BTA	500	43.125	38.875	11.25	18	3.27	4.25	3.38
J-40Q14BTB	720	43.125	38.875	15.625	18	3.27	4.25	3.38
J-40Q14BTC	885	43.125	38.875	19.875	18	3.27	4.25	3.38
J-40Q14RTA	500	43.125	38.875	11.25	18	3.27	4.25	3.38
J-40Q14RTB	720	43.125	38.875	15.625	18	3.27	4.25	3.38
J-40Q14RTC	885	43.125	38.875	19.875	18	3.27	4.25	3.38
J-45Q14BTA	500	43.125	38.875	11.25	18	3.27	4.25	3.38
J-45Q14BTB	720	43.125	38.875	15.625	18	3.27	4.25	3.38
J-45Q14BTC	885	43.125	38.875	19.875	18	3.27	4.25	3.38
J-45Q14RTA	500	43.125	38.875	11.25	18	3.27	4.25	3.38
J-45Q14RTB	720	43.125	38.875	15.625	18	3.27	4.25	3.38
J-45Q14RTC	885	43.125	38.875	19.875	18	3.27	4.25	3.38

16-inch 4-Sheave Shorty "J" Crane Blocks, 30-80 Tons

J30Q16BTA	517	38.25	34.5	11.25	20.125	3.28	3.5	3
J30Q16BTB	673	38.25	34.5	14.625	20.125	3.28	3.5	3
J30Q16BTC	819	38.25	34.5	17.125	20.125	3.28	3.5	3
J30Q16RTA	517	38.25	34.5	11.25	20.125	3.28	3.5	3
J30Q16RTB	673	38.25	34.5	14.625	20.125	3.28	3.5	3
J30Q16RTC	819	38.25	34.5	17.125	20.125	3.28	3.5	3
J35Q16BTA	580	44	39.75	11.25	20.125	3.27	4.25	3.38
J35Q16BTB	735	44	39.75	14.625	20.125	3.27	4.25	3.38
J35Q16BTC	881	44	39.75	17.125	20.125	3.27	4.25	3.38
J35Q16RTA	580	44	39.75	11.25	20.125	3.27	4.25	3.38

16-inch 4-Sheave Shorty "J" Crane Blocks, 30-80 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J35Q16RTB	735	44	39.75	14.625	20.125	3.27	4.25	3.38
J35Q16RTC	881	44	39.75	17.125	20.125	3.27	4.25	3.38
J40Q16BTA	600	45.375	41.125	11.25	20.125	3.27	4.25	3.38
J40Q16BTB	756	45.375	41.125	14.625	20.125	3.27	4.25	3.38
J40Q16BTC	902	45.375	41.125	17.125	20.125	3.27	4.25	3.38
J40Q16RTA	600	45.375	41.125	11.25	20.125	3.27	4.25	3.38
J40Q16RTB	756	45.375	41.125	14.625	20.125	3.27	4.25	3.38
J40Q16RTC	902	45.375	41.125	17.125	20.125	3.27	4.25	3.38
J45Q16BTA	600	45.375	41.125	11.25	20.125	3.27	4.25	3.38
J45Q16BTB	756	45.375	41.125	14.625	20.125	3.27	4.25	3.38
J45Q16BTC	902	45.375	41.125	17.125	20.125	3.27	4.25	3.38
J45Q16RTA	600	45.375	41.125	11.25	20.125	3.27	4.25	3.38
J45Q16RTB	756	45.375	41.125	14.625	20.125	3.27	4.25	3.38
J45Q16RTC	902	45.375	41.125	17.125	20.125	3.27	4.25	3.38
J50Q16BTA	787	50	43.875	14.875	20.125	4.63	6.13	4
J50Q16BTB	942	50	43.875	17.5	20.125	4.63	6.13	4
J50Q16BTC	1088	50	43.875	20	20.125	4.63	6.13	4
J50Q16RTA	787	50	43.875	14.875	20.125	4.63	6.13	4
J50Q16RTB	942	50	43.875	17.5	20.125	4.63	6.13	4
J50Q16RTC	1088	50	43.875	20	20.125	4.63	6.13	4
J55Q16BTA	787	50	43.875	14.875	20.125	4.63	6.13	4
J55Q16BTB	942	50	43.875	17.5	20.125	4.63	6.13	4
J55Q16BTC	1088	50	43.875	20	20.125	4.63	6.13	4
J55Q16RTA	787	50	43.875	14.875	20.125	4.63	6.13	4
J55Q16RTB	942	50	43.875	17.5	20.125	4.63	6.13	4
J55Q16RTC	1088	50	43.875	20	20.125	4.63	6.13	4
J60Q16BTA	787	50	43.875	14.875	20.125	4.63	6.25	4.5
J60Q16BTB	942	50	43.875	17.5	20.125	4.63	6.25	4.5
J60Q16BTC	1088	50	43.875	20	20.125	4.63	6.25	4.5
J60Q16RTA	787	50	43.875	14.875	20.125	4.63	6.25	4.5
J60Q16RTB	942	50	43.875	17.5	20.125	4.63	6.25	4.5
J60Q16RTC	1088	50	43.875	20	20.125	4.63	6.25	4.5
J70Q16BTA	836	50.25	44	14.875	20.125	4.36	6.25	4.5
J70Q16BTB	991	50.25	44	17.5	20.125	4.36	6.25	4.5
J70Q16BTC	1137	50.25	44	20	20.125	4.36	6.25	4.5
J70Q16RTA	836	50.25	44	14.875	20.125	4.36	6.25	4.5
J70Q16RTB	991	50.25	44	17.5	20.125	4.36	6.25	4.5
J70Q16RTC	1137	50.25	44	20	20.125	4.36	6.25	4.5
J80Q16BTA	879	56.625	49.625	15	20.125	4.75	6.75	4.75
J80Q16BTB	1033	56.625	49.625	17.5	20.125	4.75	6.75	4.75
J80Q16BTC	1179	56.625	49.625	20	20.125	4.75	6.75	4.75
J80Q16RTA	879	56.625	49.625	15	20.125	4.75	6.75	4.75
J80Q16RTB	1033	56.625	49.625	17.5	20.125	4.75	6.75	4.75
J80Q16RTC	1179	56.625	49.625	20	20.125	4.75	6.75	4.75

18-inch 4-Sheave Shorty "J" Crane Blocks, 40-80 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J40Q18BTA	916	49.375	45.125	15	22.75	3.27	4.25	3.38
J40Q18BTB	1142	49.375	45.125	17.375	22.75	3.27	4.25	3.38
J40Q18BTC	1280	49.375	45.125	19.125	22.75	3.27	4.25	3.38
J40Q18RTA	916	49.375	45.125	15	22.75	3.27	4.25	3.38
J40Q18RTB	1142	49.375	45.125	17.375	22.75	3.27	4.25	3.38
J40Q18RTC	1280	49.375	45.125	19.125	22.75	3.27	4.25	3.38
J45Q18BTA	916	49.375	45.125	15	22.75	3.27	4.25	3.38
J45Q18BTB	1142	49.375	45.125	17.375	22.75	3.27	4.25	3.38
J45Q18BTC	1280	49.375	45.125	19.125	22.75	3.27	4.25	3.38
J45Q18RTA	916	49.375	45.125	15	22.75	3.27	4.25	3.38
J45Q18RTB	1142	49.375	45.125	17.375	22.75	3.27	4.25	3.38
J45Q18RTC	1280	49.375	45.125	19.125	22.75	3.27	4.25	3.38
J55Q18BTA	991	53.75	47.625	14.875	22.75	4.63	6.13	4
J55Q18BTB	1217	53.75	47.625	17.375	22.75	4.63	6.13	4
J55Q18BTC	1355	53.75	47.625	19.125	22.75	4.63	6.13	4
J55Q18RTA	991	53.75	47.625	14.875	22.75	4.63	6.13	4
J55Q18RTB	1217	53.75	47.625	17.375	22.75	4.63	6.13	4
J55Q18RTC	1355	53.75	47.625	19.125	22.75	4.63	6.13	4
J60Q18BTA	991	53.75	47.625	14.875	22.75	4.63	6.13	4
J60Q18BTB	1217	53.75	47.625	17.375	22.75	4.63	6.13	4
J60Q18BTC	1355	53.75	47.625	19.125	22.75	4.63	6.13	4
J60Q18RTA	991	53.75	47.625	14.875	22.75	4.63	6.13	4
J60Q18RTB	1217	53.75	47.625	17.375	22.75	4.63	6.13	4
J60Q18RTC	1355	53.75	47.625	19.125	22.75	4.63	6.13	4
J70Q18BTA	1038	54	47.75	14.875	22.75	4.36	6.25	4.5
J70Q18BTB	1264	54	47.75	17.375	22.75	4.36	6.25	4.5
J70Q18BTC	1402	54	47.75	19.125	22.75	4.36	6.25	4.5
J70Q18RTA	1038	54	47.75	14.875	22.75	4.36	6.25	4.5
J70Q18RTB	1264	54	47.75	17.375	22.75	4.36	6.25	4.5
J70Q18RTC	1402	54	47.75	19.125	22.75	4.36	6.25	4.5
J75Q18BTA	1164	58	51	15	22.75	4.75	6.75	4.75
J75Q18BTB	1390	58	51	17.375	22.75	4.75	6.75	4.75
J75Q18BTC	1528	58	51	19.125	22.75	4.75	6.75	4.75
J75Q18RTA	1164	58	51	15	22.75	4.75	6.75	4.75
J75Q18RTB	1390	58	51	17.375	22.75	4.75	6.75	4.75
J75Q18RTC	1528	58	51	19.125	22.75	4.75	6.75	4.75
J80Q18BTA	1164	58	51	15	22.75	4.75	6.75	4.75
J80Q18BTB	1390	58	51	17.375	22.75	4.75	6.75	4.75
J80Q18BTC	1528	58	51	19.125	22.75	4.75	6.75	4.75
J80Q18RTA	1164	58	51	15	22.75	4.75	6.75	4.75
J80Q18RTB	1390	58	51	17.375	22.75	4.75	6.75	4.75
J80Q18RTC	1528	58	51	19.125	22.75	4.75	6.75	4.75

20-inch 4-Sheave Shorty "J" Crane Blocks, 55-100 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J55Q20BTA	1087	55.75	49.625	14.875	24.75	4.63	6.13	4
J55Q20BTB	1387	55.75	49.625	17.75	24.75	4.63	6.13	4
J55Q20BTC	1731	55.75	49.625	22.75	24.75	4.63	6.13	4
J55Q20RTA	1087	55.75	49.625	14.875	24.75	4.63	6.13	4
J55Q20RTB	1387	55.75	49.625	17.75	24.75	4.63	6.13	4
J55Q20RTC	1731	55.75	49.625	22.75	24.75	4.63	6.13	4
J60Q20BTA	1087	55.75	49.625	14.875	24.75	4.63	6.13	4
J60Q20BTB	1387	55.75	49.625	17.75	24.75	4.63	6.13	4
J60Q20BTC	1731	55.75	49.625	22.75	24.75	4.63	6.13	4
J60Q20RTA	1087	55.75	49.625	14.875	24.75	4.63	6.13	4
J60Q20RTB	1387	55.75	49.625	17.75	24.75	4.63	6.13	4
J60Q20RTC	1731	55.75	49.625	22.75	24.75	4.63	6.13	4
J65Q20BTA	1135	56	49.75	14.875	24.75	4.36	6.25	4.5
J65Q20BTB	1435	56	49.75	17.75	24.75	4.36	6.25	4.5
J65Q20BTC	1779	56	49.75	22.75	24.75	4.36	6.25	4.5
J65Q20RTA	1135	56	49.75	14.875	24.75	4.36	6.25	4.5
J65Q20RTB	1435	56	49.75	17.75	24.75	4.36	6.25	4.5
J65Q20RTC	1779	56	49.75	22.75	24.75	4.36	6.25	4.5
J70Q20BTA	1135	56	49.75	14.875	24.75	4.36	6.25	4.5
J70Q20BTB	1435	56	49.75	17.75	24.75	4.36	6.25	4.5
J70Q20BTC	1779	56	49.75	22.75	24.75	4.36	6.25	4.5
J70Q20RTA	1135	56	49.75	14.875	24.75	4.36	6.25	4.5
J70Q20RTB	1435	56	49.75	17.75	24.75	4.36	6.25	4.5
J70Q20RTC	1779	56	49.75	22.75	24.75	4.36	6.25	4.5
J75Q20BTA	1254	60	53	15	24.75	4.75	6.75	4.75
J75Q20BTB	1555	60	53	17.75	24.75	4.75	6.75	4.75
J75Q20BTC	1899	60	53	22.75	24.75	4.75	6.75	4.75
J75Q20RTA	1254	60	53	15	24.75	4.75	6.75	4.75
J75Q20RTB	1555	60	53	17.75	24.75	4.75	6.75	4.75
J75Q20RTC	1899	60	53	22.75	24.75	4.75	6.75	4.75
J80Q20BTA	1254	60	53	15	24.75	4.75	6.75	4.75
J80Q20BTB	1555	60	53	17.75	24.75	4.75	6.75	4.75
J80Q20BTC	1899	60	53	22.75	24.75	4.75	6.75	4.75
J80Q20RTA	1254	60	53	15	24.75	4.75	6.75	4.75
J80Q20RTB	1555	60	53	17.75	24.75	4.75	6.75	4.75
J80Q20RTC	1899	60	53	22.75	24.75	4.75	6.75	4.75
J90Q20BTA	1502	61.125	53.5	15.5	24.75	4.77	7.63	5.5
J90Q20BTB	1804	61.125	53.5	18.25	24.75	4.77	7.63	5.5
J90Q20BTC	2148	61.125	53.5	23.25	24.75	4.77	7.63	5.5
J90Q20RTA	1502	61.125	53.5	15.5	24.75	4.77	7.63	5.5
J90Q20RTB	1804	61.125	53.5	18.25	24.75	4.77	7.63	5.5
J90Q20RTC	2148	61.125	53.5	23.25	24.75	4.77	7.63	5.5

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

20-inch 4-Sheave Shorty "J" Crane Blocks, 55-100 Tons (continued)

Model	Wt..	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J100Q20BTA	1502	61.125	53.5	15.5	24.75	4.77	7.63	5.5
J100Q20BTB	1804	61.125	53.5	18.25	24.75	4.77	7.63	5.5
J100Q20BTC	2148	61.125	53.5	23.25	24.75	4.77	7.63	5.5
J100Q20RTA	1502	61.125	53.5	15.5	24.75	4.77	7.63	5.5
J100Q20RTB	1804	61.125	53.5	18.25	24.75	4.77	7.63	5.5
J100Q20RTC	2148	61.125	53.5	23.25	24.75	4.77	7.63	5.5

24-inch 4-Sheave Shorty "J" Crane Blocks, 60-165 Tons

J60Q24BTA	1322	59.625	53.5	14.875	28.75	4.63	6.13	4
J60Q24BTB	2026	59.625	53.5	21	28.75	4.63	6.13	4
J60Q24BTC	2486	59.625	53.5	27.5	28.75	4.63	6.13	4
J60Q24RTA	1322	59.625	53.5	14.875	28.75	4.63	6.13	4
J60Q24RTB	2026	59.625	53.5	21	28.75	4.63	6.13	4
J60Q24RTC	2486	59.625	53.5	27.5	28.75	4.63	6.13	4
J70Q24BTA	1374	59.875	53.625	14.875	28.75	4.36	6.25	4.5
J70Q24BTB	2078	59.875	53.625	21	28.75	4.36	6.25	4.5
J70Q24BTC	2538	59.875	53.625	27.5	28.75	4.36	6.25	4.5
J70Q24RTA	1374	59.875	53.625	14.875	28.75	4.36	6.25	4.5
J70Q24RTB	2078	59.875	53.625	21	28.75	4.36	6.25	4.5
J70Q24RTC	2538	59.875	53.625	27.5	28.75	4.36	6.25	4.5
J75Q24BTA	1489	64	57	15	28.75	4.75	6.75	4.75
J75Q24BTB	2192	64	57	21	28.75	4.75	6.75	4.75
J75Q24BTC	2652	64	57	27.5	28.75	4.75	6.75	4.75
J75Q24RTA	1489	64	57	15	28.75	4.75	6.75	4.75
J75Q24RTB	2192	64	57	21	28.75	4.75	6.75	4.75
J75Q24RTC	2652	64	57	27.5	28.75	4.75	6.75	4.75
J80Q24BTA	1489	64	57	15	28.75	4.75	6.75	4.75
J80Q24BTB	2192	64	57	21	28.75	4.75	6.75	4.75
J80Q24BTC	2652	64	57	27.5	28.75	4.75	6.75	4.75
J80Q24RTA	1489	64	57	15	28.75	4.75	6.75	4.75
J80Q24RTB	2192	64	57	21	28.75	4.75	6.75	4.75
J80Q24RTC	2652	64	57	27.5	28.75	4.75	6.75	4.75
J90Q24BTA	1779	65.125	57.5	15.5	28.75	4.77	7.63	5.5
J90Q24BTB	2486	65.125	57.5	21.5	28.75	4.77	7.63	5.5
J90Q24BTC	2946	65.125	57.5	28	28.75	4.77	7.63	5.5
J90Q24RTA	1779	65.125	57.5	15.5	28.75	4.77	7.63	5.5
J90Q24RTB	2486	65.125	57.5	21.5	28.75	4.77	7.63	5.5
J90Q24RTC	2946	65.125	57.5	28	28.75	4.77	7.63	5.5
J100Q24BTA	1779	65.125	57.5	15.5	28.75	4.77	7.63	5.5
J100Q24BTB	2486	65.125	57.5	21.5	28.75	4.77	7.63	5.5
J100Q24BTC	2946	65.125	57.5	28	28.75	4.77	7.63	5.5

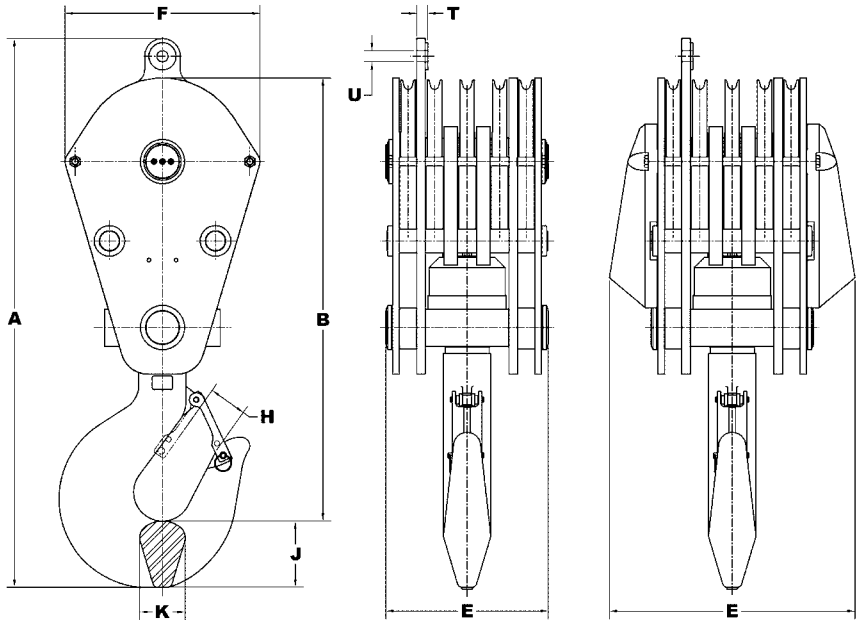
24-inch 4-Sheave Shorty "J" Crane Blocks, 60-165 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J100Q24RTA	1779	65.125	57.5	15.5	28.75	4.77	7.63	5.5
J100Q24RTB	2486	65.125	57.5	21.5	28.75	4.77	7.63	5.5
J100Q24RTC	2946	65.125	57.5	28	28.75	4.77	7.63	5.5
J110Q24BTA	1779	65.125	57.5	15.5	28.75	4.77	7.63	5.5
J110Q24BTB	2486	65.125	57.5	21.5	28.75	4.77	7.63	5.5
J110Q24BTC	2946	65.125	57.5	28	28.75	4.77	7.63	5.5
J110Q24RTA	1779	65.125	57.5	15.5	28.75	4.77	7.63	5.5
J110Q24RTB	2486	65.125	57.5	21.5	28.75	4.77	7.63	5.5
J110Q24RTC	2946	65.125	57.5	28	28.75	4.77	7.63	5.5
J115Q24BTA	2533	72	62.875	18.125	28.75	5.6	9.13	6
J115Q24BTB	3239	72	62.875	24.125	28.75	5.6	9.13	6
J115Q24BTC	3699	72	62.875	24.125	28.75	5.6	9.13	6
J115Q24RTA	2533	72	62.875	18.125	28.75	5.6	9.13	6
J115Q24RTB	3239	72	62.875	24.125	28.75	5.6	9.13	6
J115Q24RTC	3699	72	62.875	24.125	28.75	5.6	9.13	6
J125Q24BTA	2533	72	62.875	18.125	28.75	5.6	9.13	6
J125Q24BTB	3239	72	62.875	24.125	28.75	5.6	9.13	6
J125Q24BTC	3699	72	62.875	24.125	28.75	5.6	9.13	6
J125Q24RTA	2533	72	62.875	18.125	28.75	5.6	9.13	6
J125Q24RTB	3239	72	62.875	24.125	28.75	5.6	9.13	6
J125Q24RTC	3699	72	62.875	24.125	28.75	5.6	9.13	6
J135Q24BTA	2533	72	62.875	18.125	28.75	5.6	9.13	6
J135Q24BTB	3239	72	62.875	24.125	28.75	5.6	9.13	6
J135Q24BTC	3699	72	62.875	24.125	28.75	5.6	9.13	6
J135Q24RTA	2533	72	62.875	18.125	28.75	5.6	9.13	6
J135Q24RTB	3239	72	62.875	24.125	28.75	5.6	9.13	6
J135Q24RTC	3699	72	62.875	24.125	28.75	5.6	9.13	6
J150Q24BTA	2838	74.75	65	18.125	28.75	5.34	9.93	7
J150Q24BTB	3544	74.75	65	24.125	28.75	5.34	9.93	7
J150Q24BTC	4004	74.75	65	30.625	28.75	5.34	9.93	7
J150Q24RTA	2838	74.75	65	18.125	28.75	5.34	9.93	7
J150Q24RTB	3544	74.75	65	24.125	28.75	5.34	9.93	7
J150Q24RTC	4004	74.75	65	30.625	28.75	5.34	9.93	7
J165Q24BTA	2838	74.75	65	18.125	28.75	5.34	9.93	7
J165Q24BTB	3544	74.75	65	24.125	28.75	5.34	9.93	7
J165Q24BTC	4004	74.75	65	30.625	28.75	5.34	9.93	7
J165Q24RTA	2838	74.75	65	18.125	28.75	5.34	9.93	7
J165Q24RTB	3544	74.75	65	24.125	28.75	5.34	9.93	7
J165Q24RTC	4004	74.75	65	30.625	28.75	5.34	9.93	7

Five Sheave Shorty "J" Crane Blocks

Gunnebo Johnson Design Factor is 4 to 1, with some exceptions;
45 Ton models 3.6 to 1
60 Ton models 3.6 to 1

For crane block warnings and use limitations see pages 76-77



Key to five sheave J-block model nmbers

J	25	QN	10	B	T	A
Shorty "J" Crane Block	Working Load Limit – (US Tons)	Number of Sheaves: QN = 5	Sheave Size – Nom. O.D.	Sheave Bearing B = Bronze Bushed R = Roller Bearing	Hook – Thrust Bearing	Cheek Weights A = No wts. AB = Med. wts. B = Std. wts. C = X-Heavy wts. D = Special wts.

Heavy Duty Hook Latches are Standard Equipment

Gunnebo Johnson's heavy duty J-Latches are standard equipment for blocks up to 250 tons. Larger blocks are equipped with standard bar latches.

Dead End chart

Wire Rope Size	T	U	For Pin Size
7/16" thru 5/8"	1	1.28	1-1/4
3/4" thru 1"	1.25	1.65	1-5/8
1-1/8 thru 1-3/8"	1.75	2.51	2-1/2

To order, please specify:

- **Model Number**
- **Wire Rope Size**
- **Options Required**

10-inch 5-Sheave Shorty "J" Crane Blocks, 25 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-25QN10BTA	340	32.5	25.625	13.5	14	2.8	3	2.38
J-25QN10BTB	415	32.5	25.625	15.75	14	2.8	3	2.38
J-25QN10RTA	340	32.5	25.625	13.5	14	2.8	3	2.38
J-25QN10RTB	415	32.5	25.625	15.75	14	2.8	3	2.38

12-inch 5-Sheave Shorty "J" Crane Blocks, 25-30 Tons

J-25QN12BTA	345	34.75	27.75	13.5	16	2.8	3	2.38
J-25QN12BTB	466	34.75	27.75	17.062	16	2.8	3	2.38
J-25QN12BTC	618	34.75	27.75	21.56	16	2.8	3	2.38
J-25QN12RTA	345	34.75	27.75	13.5	16	2.8	3	2.38
J-25QN12RTB	466	34.75	27.75	17.062	16	2.8	3	2.38
J-25QN12RTC	618	34.75	27.75	21.56	16	2.8	3	2.38
J-30QN12BTA	373	39.125	31.25	13.5	16	3.28	3.5	3
J-30QN12BTB	495	39.125	31.25	17.062	16	3.28	3.5	3
J-30QN12BTC	647	39.125	31.25	21.562	16	3.28	3.5	3
J-30QN12RTA	373	39.125	31.25	13.5	16	3.28	3.5	3
J-30QN12RTB	495	39.125	31.25	17.062	16	3.28	3.5	3
J-30QN12RTC	647	39.125	31.25	21.562	16	3.28	3.5	3

14-inch 5-Sheave Shorty "J" Crane Blocks, 25-55 Tons

J-25QN14BTA	475	37.625	30.5	13.5	18	2.8	3	2.38
J-25QN14BTB	655	37.625	30.5	17.937	18	2.8	3	2.38
J-25QN14BTC	820	37.625	30.5	22.187	18	2.8	3	2.38
J-25QN14RTA	475	37.625	30.5	13.5	18	2.8	3	2.38
J-25QN14RTB	655	37.625	30.5	17.937	18	2.8	3	2.38
J-25QN14RTC	820	37.625	30.5	22.187	18	2.8	3	2.38
J-35QN14BTA	560	45.625	37.25	13.5	18	3.27	4.25	3.38
J-35QN14BTB	740	45.625	37.25	17.937	18	3.27	4.25	3.38
J-35QN14BTC	900	45.625	37.25	22.187	18	3.27	4.25	3.38
J-35QN14RTA	560	45.625	37.25	13.5	18	3.27	4.25	3.38
J-35QN14RTB	740	45.625	37.25	17.937	18	3.27	4.25	3.38
J-35QN14RTC	900	45.625	37.25	22.187	18	3.27	4.25	3.38
J-40QN14BTA	570	46.375	38	13.5	18	3.27	4.25	3.38
J-40QN14BTB	750	46.375	38	17.937	18	3.27	4.25	3.38
J-40QN14BTC	915	46.375	38	22.187	18	3.27	4.25	3.38
J-40QN14RTA	570	46.375	38	13.5	18	3.27	4.25	3.38
J-40QN14RTB	750	46.375	38	17.937	18	3.27	4.25	3.38
J-40QN14RTC	915	46.375	38	22.187	18	3.27	4.25	3.38
J-45QN14BTA	570	46.375	38	13.5	18	3.27	4.25	3.38
J-45QN14BTB	750	46.375	38	17.937	18	3.27	4.25	3.38
J-45QN14BTC	915	46.375	38	22.187	18	3.27	4.25	3.38

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

14-inch 5-Sheave Shorty "J" Crane Blocks, 25-55 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-45QN14RTA	570	46.375	38	13.5	18	3.27	4.25	3.38
J-45QN14RTB	750	46.375	38	17.937	18	3.27	4.25	3.38
J-45QN14RTC	915	46.375	38	22.187	18	3.27	4.25	3.38
J-55QN14BTA	745	51.5	41.375	15.125	18	4.63	6.13	4
J-55QN14BTB	925	51.5	41.375	18.437	18	4.63	6.13	4
J-55QN14BTC	1090	51.5	41.375	22.687	18	4.63	6.13	4
J-55QN14RTA	745	51.5	41.375	15.125	18	4.63	6.13	4
J-55QN14RTB	925	51.5	41.375	18.437	18	4.63	6.13	4
J-55QN14RTC	1090	51.5	41.375	22.687	18	4.63	6.13	4

16-inch 5-Sheave Shorty "J" Crane Blocks, 30-80 Tons

J30QN16BTA	598	44.25	36.25	13.5	20.125	3.28	3.5	3
J30QN16BTB	753	44.25	36.25	16.937	20.125	3.28	3.5	3
J30QN16BTC	900	44.25	36.25	19.437	20.125	3.28	3.5	3
J30QN16RTA	598	44.25	36.25	13.5	20.125	3.28	3.5	3
J30QN16RTB	753	44.25	36.25	16.937	20.125	3.28	3.5	3
J30QN16RTC	900	44.25	36.25	19.437	20.125	3.28	3.5	3
J35QN16BTA	655	48	39.5	13.5	20.125	3.27	4.25	3.38
J35QN16BTB	810	48	39.5	16.937	20.125	3.27	4.25	3.38
J35QN16BTC	956	48	39.5	19.437	20.125	3.27	4.25	3.38
J35QN16RTA	655	48	39.5	13.5	20.125	3.27	4.25	3.38
J35QN16RTB	810	48	39.5	16.937	20.125	3.27	4.25	3.38
J35QN16RTC	956	48	39.5	19.437	20.125	3.27	4.25	3.38
J40QN16BTA	666	48.75	40.25	13.5	20.125	3.27	4.25	3.38
J40QN16BTB	821	48.75	40.25	16.937	20.125	3.27	4.25	3.38
J40QN16BTC	967	48.75	40.25	19.437	20.125	3.27	4.25	3.38
J40QN16RTA	666	48.75	40.25	13.5	20.125	3.27	4.25	3.38
J40QN16RTB	821	48.75	40.25	16.937	20.125	3.27	4.25	3.38
J40QN16RTC	967	48.75	40.25	19.437	20.125	3.27	4.25	3.38
J45QN16BTA	666	48.75	40.25	13.5	20.125	3.27	4.25	3.38
J45QN16BTB	821	48.75	40.25	16.937	20.125	3.27	4.25	3.38
J45QN16BTC	967	48.75	40.25	19.437	20.125	3.27	4.25	3.38
J45QN16RTA	666	48.75	40.25	13.5	20.125	3.27	4.25	3.38
J45QN16RTB	821	48.75	40.25	16.937	20.125	3.27	4.25	3.38
J45QN16RTC	967	48.75	40.25	19.437	20.125	3.27	4.25	3.38
J50QN16BTA	843	53.875	43.625	15.125	20.125	4.63	6.13	4
J50QN16BTB	998	53.875	43.625	17.562	20.125	4.63	6.13	4
J50QN16BTC	1144	53.875	43.625	19.937	20.125	4.63	6.13	4
J50QN16RTA	843	53.875	43.625	15.125	20.125	4.63	6.13	4
J50QN16RTB	998	53.875	43.625	17.562	20.125	4.63	6.13	4
J50QN16RTC	1144	53.875	43.625	19.937	20.125	4.63	6.13	4
J55QN16BTA	843	53.875	43.625	15.125	20.125	4.63	6.13	4

16-inch 5-Sheave Shorty "J" Crane Blocks, 30-80 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J55QN16BTB	998	53.875	43.625	17.562	20.125	4.63	6.13	4
J55QN16BTC	1144	53.875	43.625	19.937	20.125	4.63	6.13	4
J55QN16RTA	843	53.875	43.625	15.125	20.125	4.63	6.13	4
J55QN16RTB	998	53.875	43.625	17.562	20.125	4.63	6.13	4
J55QN16RTC	1144	53.875	43.625	19.937	20.125	4.63	6.13	4
J70QN16BTA	888	55.25	43.375	19.187	20.125	4.36	6.25	4.5
J70QN16BTB	1044	55.25	43.375	21.937	20.125	4.36	6.25	4.5
J70QN16BTC	1190	55.25	43.375	26.937	20.125	4.36	6.25	4.5
J70QN16RTA	888	55.25	43.375	19.187	20.125	4.36	6.25	4.5
J70QN16RTB	1044	55.25	43.375	21.937	20.125	4.36	6.25	4.5
J70QN16RTC	1190	55.25	43.375	26.937	20.125	4.36	6.25	4.5
J75QN16BTA	1225	62	49.625	20.062	20.125	4.75	6.75	4.75
J75QN16BTB	1379	62	49.625	22.437	20.125	4.75	6.75	4.75
J75QN16BTC	1526	62	49.625	24.937	20.125	4.75	6.75	4.75
J75QN16RTA	1225	62	49.625	20.062	20.125	4.75	6.75	4.75
J75QN16RTB	1379	62	49.625	22.437	20.125	4.75	6.75	4.75
J75QN16RTC	1526	62	49.625	24.937	20.125	4.75	6.75	4.75
J80QN16BTA	1225	62	49.625	20.062	20.125	4.75	6.75	4.75
J80QN16BTB	1379	62	49.625	22.437	20.125	4.75	6.75	4.75
J80QN16BTC	1526	62	49.625	24.937	20.125	4.75	6.75	4.75
J80QN16RTA	1225	62	49.625	20.062	20.125	4.75	6.75	4.75
J80QN16RTB	1379	62	49.625	22.437	20.125	4.75	6.75	4.75
J80QN16RTC	1526	62	49.625	24.937	20.125	4.75	6.75	4.75

18-inch 5-Sheave Shorty "J" Crane Blocks, 55-100 Tons

J55QN18BTA	1264	60	47.625	19.187	22.75	4.63	6.13	4
J55QN18BTB	1489	60	47.625	21.562	22.75	4.63	6.13	4
J55QN18BTC	1627	60	47.625	23.312	22.75	4.63	6.13	4
J55QN18RTA	1264	60	47.625	19.187	22.75	4.63	6.13	4
J55QN18RTB	1489	60	47.625	21.562	22.75	4.63	6.13	4
J55QN18RTC	1627	60	47.625	23.312	22.75	4.63	6.13	4
J70QN18BTA	1296	58.875	47.625	19.187	22.75	4.36	6.25	4.5
J70QN18BTB	1522	58.875	47.625	21.562	22.75	4.36	6.25	4.5
J70QN18BTC	1660	58.875	47.625	23.312	22.75	4.36	6.25	4.5
J70QN18RTA	1296	58.875	47.625	19.187	22.75	4.36	6.25	4.5
J70QN18RTB	1522	58.875	47.625	21.562	22.75	4.36	6.25	4.5
J70QN18RTC	1660	58.875	47.625	23.312	22.75	4.36	6.25	4.5
J80QN18BTA	1425	63	51	20.062	22.75	4.75	6.75	4.75
J80QN18BTB	1650	63	51	22.312	22.75	4.75	6.75	4.75
J80QN18BTC	1815	63	51	24.062	22.75	4.75	6.75	4.75
J80QN18RTA	1425	63	51	20.062	22.75	4.75	6.75	4.75
J80QN18RTB	1650	63	51	22.312	22.75	4.75	6.75	4.75

18-inch 5-Sheave Shorty "J" Crane Blocks, 55-100 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J80QN18RTC	1815	63	51	24.062	22.75	4.75	6.75	4.75
J100QN18BTA	1651	64.5	51.625	20.062	22.75	4.77	7.63	5.5
J100QN18BTB	1877	64.5	51.625	22.312	22.75	4.77	7.63	5.5
J100QN18BTC	2015	64.5	51.625	24.062	22.75	4.77	7.63	5.5
J100QN18RTA	1651	64.5	51.625	20.062	22.75	4.77	7.63	5.5
J100QN18RTB	1877	64.5	51.625	22.312	22.75	4.77	7.63	5.5
J100QN18RTC	2015	64.5	51.625	24.062	22.75	4.77	7.63	5.5

20-inch 5-Sheave Shorty "J" Crane Blocks, 55-100 Tons

J55QN20BTA	1438	61.25	49.625	19.187	24.75	4.63	6.13	4
J55QN20BTB	1737	61.25	49.625	21.937	24.75	4.63	6.13	4
J55QN20BTC	2081	61.25	49.625	26.937	24.75	4.63	6.13	4
J55QN20RTA	1438	61.25	49.625	19.187	24.75	4.63	6.13	4
J55QN20RTB	1737	61.25	49.625	21.937	24.75	4.63	6.13	4
J55QN20RTC	2081	61.25	49.625	26.937	24.75	4.63	6.13	4
J60QN20BTA	1438	61.25	49.625	19.187	24.75	4.63	6.13	4
J60QN20BTB	1737	61.25	49.625	21.937	24.75	4.63	6.13	4
J60QN20BTC	2081	61.25	49.625	26.937	24.75	4.63	6.13	4
J60QN20RTA	1438	61.25	49.625	19.187	24.75	4.63	6.13	4
J60QN20RTB	1737	61.25	49.625	21.937	24.75	4.63	6.13	4
J60QN20RTC	2081	61.25	49.625	26.937	24.75	4.63	6.13	4
J65QN20BTA	1471	61.5	49.625	19.187	24.75	4.36	6.25	4.5
J65QN20BTB	1770	61.5	49.625	21.937	24.75	4.36	6.25	4.5
J65QN20BTC	2114	61.5	49.625	26.937	24.75	4.36	6.25	4.5
J65QN20RTA	1471	61.5	49.625	19.187	24.75	4.36	6.25	4.5
J65QN20RTB	1770	61.5	49.625	21.937	24.75	4.36	6.25	4.5
J65QN20RTC	2114	61.5	49.625	26.937	24.75	4.36	6.25	4.5
J70QN20BTA	1471	61.5	49.625	19.187	24.75	4.36	6.25	4.5
J70QN20BTB	1770	61.5	49.625	21.937	24.75	4.36	6.25	4.5
J70QN20BTC	2114	61.5	49.625	26.937	24.75	4.36	6.25	4.5
J70QN20RTA	1471	61.5	49.625	19.187	24.75	4.36	6.25	4.5
J70QN20RTB	1770	61.5	49.625	21.937	24.75	4.36	6.25	4.5
J70QN20RTC	2114	61.5	49.625	26.937	24.75	4.36	6.25	4.5
J75QN20BTA	1485	65.625	53	20.062	24.75	4.75	7	4.75
J75QN20BTB	1785	65.625	53	22.687	24.75	4.75	7	4.75
J75QN20BTC	2129	65.625	53	27.687	24.75	4.75	7	4.75
J75QN20RTA	1485	65.625	53	20.062	24.75	4.75	7	4.75
J75QN20RTB	1785	65.625	53	22.687	24.75	4.75	7	4.75
J75QN20RTC	2129	65.625	53	27.687	24.75	4.75	7	4.75
J80QN20RTA	1485	65.625	53	20.062	24.75	4.75	6.75	4.75
J80QN20RTB	1785	65.625	53	22.687	24.75	4.75	6.75	4.75
J80QN20BTC	2129	65.625	53	27.687	24.75	4.75	6.75	4.75

20-inch 5-Sheave Shorty “J” Crane Blocks, 55-100 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J80QN20RTA	1485	65.625	53	20.062	24.75	4.75	6.75	4.75
J80QN20RTB	1785	65.625	53	22.687	24.75	4.75	6.75	4.75
J80QN20RTC	2129	65.625	53	27.687	24.75	4.75	6.75	4.75
J90QN20BTA	1828	66.5	53.625	20.062	24.75	4.77	7.63	5.5
J90QN20BTB	2128	66.5	53.625	22.687	24.75	4.77	7.63	5.5
J90QN20BTC	2472	66.5	53.625	27.687	24.75	4.77	7.63	5.5
J90QN20RTA	1828	66.5	53.625	20.062	24.75	4.77	7.63	5.5
J90QN20RTB	2128	66.5	53.625	22.687	24.75	4.77	7.63	5.5
J90QN20RTC	2472	66.5	53.625	27.687	24.75	4.77	7.63	5.5
J100QN20BTA	1828	66.5	53.625	20.062	24.75	4.77	7.63	5.5
J100QN20BTB	2128	66.5	53.625	22.687	24.75	4.77	7.63	5.5
J100QN20BTC	2472	66.5	53.625	27.687	24.75	4.77	7.63	5.5
J100QN20RTA	1828	66.5	53.625	20.062	24.75	4.77	7.63	5.5
J100QN20RTB	2128	66.5	53.625	22.687	24.75	4.77	7.63	5.5
J100QN20RTC	2472	66.5	53.625	27.687	24.75	4.77	7.63	5.5

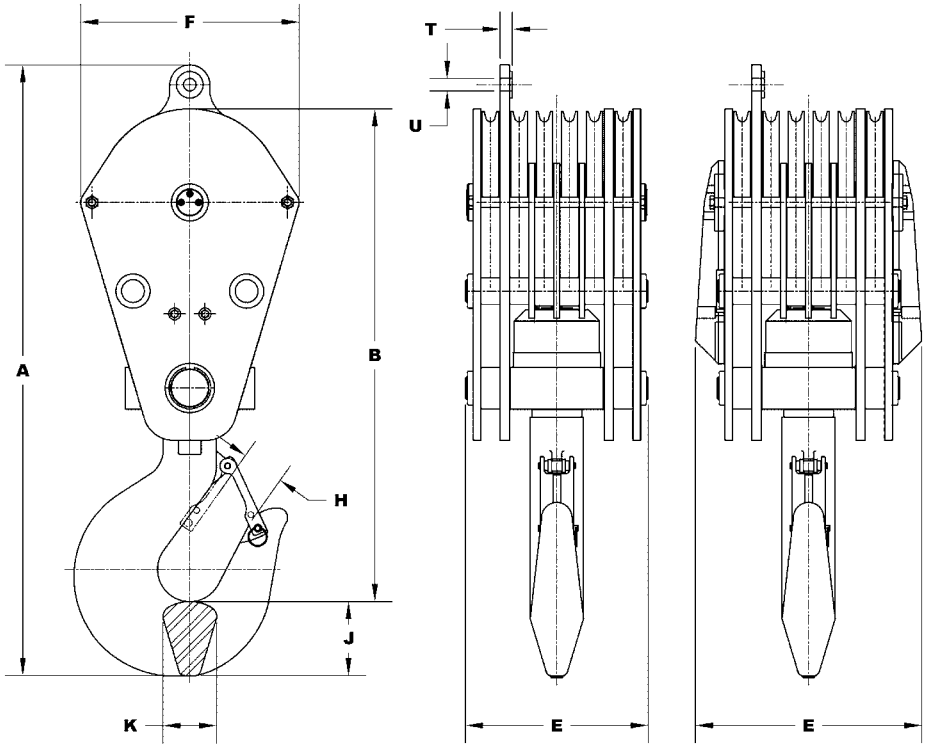
24-inch 5-Sheave Shorty “J” Crane Blocks, 70-200 Tons

J-200QN24BTA	4796	87	71	25.437	28.75	9.01	10.13	6
J-200QN24BTB	5501	87	71	31.187	28.75	9.01	10.13	6
J-200QN24BTC	5963	87	71	37.687	28.75	9.01	10.13	6
J-200QN24RTA	4796	87	71	25.437	28.75	9.01	10.13	6
J-200QN24RTB	5501	87	71	31.187	28.75	9.01	10.13	6
J-200QN24RTC	5963	87	71	37.687	28.75	9.01	10.13	6

Six Sheave Shorty "J" Crane Blocks

Gunnebo Johnson Design Factor is 4 to 1, with some exceptions;
45 Ton models 3.6 to 1
60 Ton models 3.6 to 1

For crane block warnings and use limitations see pages 76-77



Key to six sheave J-Block model numbers

J	30	SX	14	B	T	A
Shorty "J" Crane Block	Working Load Limit – (US Tons)	Number of Sheaves: SX = 6	Sheave Size – Nom. O.D.	Sheave Bearing B = Bronze Bushed R = Roller Bearing	Hook – Thrust Bearing	Cheek Weights A = No wts. B = Std. wts. C = X-Heavy wts. D = Special wts.

Heavy duty latches are standard equipment

Gunnebo Johnson's heavy duty J-Latches are standard equipment for blocks up to 250 tons. Larger blocks are equipped with standard bar latches.

To order, please specify:

- **Model Number**
- **Wire Rope Size**
- **Options Required**

14-inch 6-Sheave Shorty "J" Crane Blocks, 30-60 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J30SX14BTA	587	40.125	32.25	16.25	18	3.28	3.5	3
J30SX14BTB	768	40.125	32.25	20.187	18	3.28	3.5	3
J30SX14BTC	932	40.125	32.25	24.437	18	3.28	3.5	3
J30SX14RTA	587	40.125	32.25	16.25	18	3.28	3.5	3
J30SX14RTB	768	40.125	32.25	20.187	18	3.28	3.5	3
J30SX14RTC	932	40.125	32.25	24.437	18	3.28	3.5	3
J40SX14BTA	656	46.25	37.875	16.25	18	3.27	4.25	3.38
J40SX14BTB	836	46.25	37.875	20.187	18	3.27	4.25	3.38
J40SX14BTC	1000	46.25	37.875	24.437	18	3.27	4.25	3.38
J40SX14RTA	656	46.25	37.875	16.25	18	3.27	4.25	3.38
J40SX14RTB	836	46.25	37.875	20.187	18	3.27	4.25	3.38
J40SX14RTC	1000	46.25	37.875	24.437	18	3.27	4.25	3.38
J55SX14BTA	842	51.5	41.375	17.375	18	4.63	6.13	4
J55SX14BTB	1023	51.5	41.375	20.687	18	4.63	6.13	4
J55SX14BTC	1187	51.5	41.375	24.937	18	4.63	6.13	4
J55SX14RTA	842	51.5	41.375	17.375	18	4.63	6.13	4
J55SX14RTB	1023	51.5	41.375	20.687	18	4.63	6.13	4
J55SX14RTC	1187	51.5	41.375	24.937	18	4.63	6.13	4
J60SX14BTA	842	51.5	41.375	17.375	18	4.63	6.13	4
J60SX14BTB	1023	51.5	41.375	20.687	18	4.63	6.13	4
J60SX14BTC	1187	51.5	41.375	24.937	18	4.63	6.13	4
J60SX14RTA	842	51.5	41.375	17.375	18	4.63	6.13	4
J60SX14RTB	1023	51.5	41.375	20.687	18	4.63	6.13	4
J60SX14RTC	1187	51.5	41.375	24.937	18	4.63	6.13	4

16-inch 6-Sheave Shorty "J" Crane Blocks, 40-80 Tons

J40SX16BTA	764	48.625	40.125	16.25	20.125	3.27	4.25	3.38
J40SX16BTB	919	48.625	40.125	19.187	20.125	3.27	4.25	3.38
J40SX16BTC	1065	48.625	40.125	21.687	20.125	3.27	4.25	3.38
J40SX16RTA	764	48.625	40.125	16.25	20.125	3.27	4.25	3.38
J40SX16RTB	919	48.625	40.125	19.187	20.125	3.27	4.25	3.38
J40SX16RTC	1065	48.625	40.125	21.687	20.125	3.27	4.25	3.38
J45SX16BTA	764	48.625	40.125	16.25	20.125	3.27	4.25	3.38
J45SX16BTB	919	48.625	40.125	19.187	20.125	3.27	4.25	3.38
J45SX16BTC	1065	48.625	40.125	21.687	20.125	3.27	4.25	3.38
J45SX16RTA	764	48.625	40.125	16.25	20.125	3.27	4.25	3.38
J45SX16RTB	919	48.625	40.125	19.187	20.125	3.27	4.25	3.38
J45SX16RTC	1065	48.625	40.125	21.687	20.125	3.27	4.25	3.38
J55SX16BTA	952	53.875	43.625	17.375	20.125	4.63	6.13	4

16-inch 6-Sheave Shorty "J" Crane Blocks, 40-80 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J55SX16BTB	1113	53.875	43.625	19.687	20.125	4.63	6.13	4
J55SX16BTC	1259	53.875	43.625	22.187	20.125	4.63	6.13	4
J55SX16RTA	952	53.875	43.625	17.375	20.125	4.63	6.13	4
J55SX16RTB	1113	53.875	43.625	19.687	20.125	4.63	6.13	4
J55SX16RTC	1259	53.875	43.625	22.187	20.125	4.63	6.13	4
J70SX16BTA	988	58.25	46.375	22.187	20.125	4.36	6.25	4.5
J70SX16BTB	1149	58.25	46.375	24.437	20.125	4.36	6.25	4.5
J70SX16RTA	1295	58.25	46.375	26.187	20.125	4.36	6.25	4.5
J70SX16RTB	988	58.25	46.375	22.187	20.125	4.36	6.25	4.5
J70SX16RTB	1149	58.25	46.375	24.437	20.125	4.36	6.25	4.5
J70SX16RTC	1295	58.25	46.375	26.187	20.125	4.36	6.25	4.5
J80SX16BTA	1241	61.875	49.625	22.187	20.125	4.75	6.75	4.75
J80SX16BTB	1401	61.875	49.625	24.562	20.125	4.75	6.75	4.75
J80SX16BTC	1547	61.875	49.625	27.062	20.125	4.75	6.75	4.75
J80SX16RTA	1241	61.875	49.625	22.187	20.125	4.75	6.75	4.75
J80SX16RTB	1401	61.875	49.625	24.562	20.125	4.75	6.75	4.75
J80SX16RTC	1547	61.875	49.625	27.062	20.125	4.75	6.75	4.75

18-inch 6-Sheave Shorty "J" Crane Blocks, 40-140 Tons

J40SX18BTA	800	54.75	44.875	16.25	22.75	3.27	4.25	3.38
J40SX18BTB	1034	54.75	44.875	19.062	22.75	3.27	4.25	3.38
J40SX18BTC	1190	54.75	44.875	20.812	22.75	3.27	4.25	3.38
J40SX18RTA	800	54.75	44.875	16.25	22.75	3.27	4.25	3.38
J40SX18RTB	1034	54.75	44.875	19.062	22.75	3.27	4.25	3.38
J40SX18RTC	1190	54.75	44.875	20.812	22.75	3.27	4.25	3.38
J45SX18BTA	800	54.75	44.875	16.25	22.75	3.27	4.25	3.38
J45SX18BTB	1034	54.75	44.875	19.062	22.75	3.27	4.25	3.38
J45SX18BTC	1190	54.75	44.875	20.812	22.75	3.27	4.25	3.38
J45SX18RTA	800	54.75	44.875	16.25	22.75	3.27	4.25	3.38
J45SX18RTB	1034	54.75	44.875	19.062	22.75	3.27	4.25	3.38
J45SX18RTC	1190	54.75	44.875	20.812	22.75	3.27	4.25	3.38
J50SX18BTA	1248	59	47.375	17.375	22.75	4.63	6.13	4
J50SX18BTB	1474	59	47.375	19.562	22.75	4.63	6.13	4
J50SX18BTC	1637	59	47.375	21.312	22.75	4.63	6.13	4
J50SX18RTA	1248	59	47.375	17.375	22.75	4.63	6.13	4
J50SX18RTB	1474	59	47.375	19.562	22.75	4.63	6.13	4
J50SX18RTC	1637	59	47.375	21.312	22.75	4.63	6.13	4
J55SX18BTA	1248	59	47.375	17.375	22.75	4.63	6.13	4
J55SX18BTB	1474	59	47.375	19.562	22.75	4.63	6.13	4
J55SX18BTC	1637	59	47.375	21.312	22.75	4.63	6.13	4
J55SX18RTA	1248	59	47.375	17.375	22.75	4.63	6.13	4
J55SX18RTB	1474	59	47.375	19.562	22.75	4.63	6.13	4
J55SX18RTC	1637	59	47.375	21.312	22.75	4.63	6.13	4

18-inch 6-sheave Shorty "J" Crane Blocks, 40-140 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J60SX18BTA	1248	59	47.375	17.375	22.75	4.63	6.13	4
J60SX18BTB	1474	59	47.375	19.562	22.75	4.63	6.13	4
J60SX18BTC	1637	59	47.375	21.312	22.75	4.63	6.13	4
J60SX18RTA	1248	59	47.375	17.375	22.75	4.63	6.13	4
J60SX18RTB	1474	59	47.375	19.562	22.75	4.63	6.13	4
J60SX18RTC	1637	59	47.375	21.312	22.75	4.63	6.13	4
J70SX18BTA	1398	59.25	47.375	22.187	22.75	4.36	6.25	4.5
J70SX18BTB	1623	59.25	47.375	24.437	22.75	4.36	6.25	4.5
J70SX18BTC	1787	59.25	47.375	26.187	22.75	4.36	6.25	4.5
J70SX18RTA	1398	59.25	47.375	22.187	22.75	4.36	6.25	4.5
J70SX18RTB	1623	59.25	47.375	24.437	22.75	4.36	6.25	4.5
J70SX18RTC	1787	59.25	47.375	26.187	22.75	4.36	6.25	4.5
J75SX18BTA	1562	63.625	51	22.187	22.75	4.75	7	4.75
J75SX18BTB	1787	63.625	51	24.437	22.75	4.75	7	4.75
J75SX18BTC	1965	63.625	51	26.187	22.75	4.75	7	4.75
J75SX18RTA	1562	63.625	51	22.187	22.75	4.75	7	4.75
J75SX18RTB	1787	63.625	51	24.437	22.75	4.75	7	4.75
J75SX18RTC	1965	63.625	51	26.187	22.75	4.75	7	4.75
J80SX18BTA	1562	63.625	51	22.187	22.75	4.75	6.75	4.75
J80SX18BTB	1787	63.625	51	24.437	22.75	4.75	6.75	4.75
J80SX18BTC	1965	63.625	51	26.187	22.75	4.75	6.75	4.75
J80SX18RTA	1562	63.625	51	22.187	22.75	4.75	6.75	4.75
J80SX18RTB	1787	63.625	51	24.437	22.75	4.75	6.75	4.75
J80SX18RTC	1965	63.625	51	26.187	22.75	4.75	6.75	4.75
J-90SX18BTA	1718	64.75	51.5	22.187	22.75	4.77	7.63	5.5
J-90SX18BTB	1943	64.75	51.5	24.437	22.75	4.77	7.63	5.5
J-90SX18BTC	2107	64.75	51.5	26.187	22.75	4.77	7.63	5.5
J-90SX18RTA	1718	64.75	51.5	22.187	22.75	4.77	7.63	5.5
J-90SX18RTB	1943	64.75	51.5	24.437	22.75	4.77	7.63	5.5
J-90SX18RTC	2107	64.75	51.5	26.187	22.75	4.77	7.63	5.5
J-100SX18BTA	1718	64.75	51.5	22.187	22.75	5.25	7.625	5.5
J-100SX18BTB	1943	64.75	51.5	24.437	22.75	5.25	7.625	5.5
J-100SX18BTC	2107	64.75	51.5	26.187	22.75	5.25	7.625	5.5
J-100SX18RTA	1718	64.75	51.5	22.187	22.75	5.25	7.625	5.5
J-100SX18RTB	1943	64.75	51.5	24.437	22.75	5.25	7.625	5.5
J-100SX18RTC	2107	64.75	51.5	26.187	22.75	5.25	7.625	5.5
J-115SX18BTA	2088	72.875	58	23.937	22.75	5.6	9.13	6
J-115SX18BTB	2313	72.875	58	26.062	22.75	5.6	9.13	6
J-115SX18BTC	2477	72.875	58	27.812	22.75	5.6	9.13	6
J-115SX18RTA	2088	72.875	58	23.937	22.75	5.6	9.13	6
J-115SX18RTB	2313	72.875	58	26.062	22.75	5.6	9.13	6
J-115SX18RTC	2477	72.875	58	27.812	22.75	5.6	9.13	6
J-125SX18BTA	2088	72.875	58	23.937	22.75	5.6	9.13	6

18-inch 6-Sheave Shorty "J" Crane Blocks, 40-140 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-125SX18BTB	2313	72.875	58	26.062	22.75	5.6	9.13	6
J-125SX18BTC	2477	72.875	58	27.812	22.75	5.6	9.13	6
J-125SX18RTA	2088	72.875	58	23.937	22.75	5.6	9.13	6
J-125SX18RTB	2313	72.875	58	26.062	22.75	5.6	9.13	6
J-125SX18RTC	2477	72.875	58	27.812	22.75	5.6	9.13	6
J-130SX18BTA	2088	72.875	58	23.937	22.75	5.6	9.13	6
J-130SX18BTB	2313	72.875	58	26.062	22.75	5.6	9.13	6
J-130SX18BTC	2477	72.875	58	27.812	22.75	5.6	9.13	6
J-130SX18RTA	2088	72.875	58	23.937	22.75	5.6	9.13	6
J-130SX18RTB	2313	72.875	58	26.062	22.75	5.6	9.13	6
J-130SX18RTC	2477	72.875	58	27.812	22.75	5.6	9.13	6
J-140SX18BTA	2088	72.875	58	23.937	22.75	5.6	9.13	6
J-140SX18BTB	2313	72.875	58	26.062	22.75	5.6	9.13	6
J-140SX18BTC	2477	72.875	58	27.812	22.75	5.6	9.13	6
J-140SX18RTA	2088	72.875	58	23.937	22.75	5.6	9.13	6
J-140SX18RTB	2313	72.875	58	26.062	22.75	5.6	9.13	6
J-140SX18RTC	2477	72.875	58	27.812	22.75	5.6	9.13	6

20-inch 6-Sheave Shorty "J" Crane Blocks, 65-165 Tons

J65SX20BTA	1448	61.25	49.375	22.187	24.75	4.36	6.25	4.5
J65SX20BTB	1748	61.25	49.375	24.812	24.75	4.36	6.25	4.5
J65SX20BTC	2090	61.25	49.375	29.812	24.75	4.36	6.25	4.5
J65SX20RTA	1448	61.25	49.375	22.187	24.75	4.36	6.25	4.5
J65SX20RTB	1748	61.25	49.375	24.812	24.75	4.36	6.25	4.5
J65SX20RTC	2090	61.25	49.375	29.812	24.75	4.36	6.25	4.5
J70SX20BTA	1448	61.25	49.375	22.187	24.75	4.36	6.25	4.5
J70SX20BTB	1748	61.25	49.375	24.812	24.75	4.36	6.25	4.5
J70SX20BTC	2090	61.25	49.375	29.812	24.75	4.36	6.25	4.5
J70SX20RTA	1448	61.25	49.375	22.187	24.75	4.36	6.25	4.5
J70SX20RTB	1748	61.25	49.375	24.812	24.75	4.36	6.25	4.5
J70SX20RTC	2090	61.25	49.375	29.812	24.75	4.36	6.25	4.5
J75SX20BTA	1822	65.625	53	22.187	24.75	4.75	7	4.75
J75SX20BTB	2122	65.625	53	24.812	24.75	4.75	7	4.75
J75SX20BTC	2466	65.625	53	29.812	24.75	4.75	7	4.75
J75SX20RTA	1822	65.625	53	22.187	24.75	4.75	7	4.75
J75SX20RTB	2122	65.625	53	24.812	24.75	4.75	7	4.75
J75SX20RTC	2466	65.625	53	29.812	24.75	4.75	7	4.75
J80SX20BTA	1822	65.625	53	22.187	24.75	4.75	6.75	4.75
J80SX20BTB	2122	65.625	53	24.812	24.75	4.75	6.75	4.75
J80SX20BTC	2466	65.625	53	29.812	24.75	4.75	6.75	4.75
J80SX20RTA	1822	65.625	53	22.187	24.75	4.75	6.75	4.75
J80SX20RTB	2122	65.625	53	24.812	24.75	4.75	6.75	4.75

20-inch 6-Sheave Shorty "J" Crane Blocks, 65-165 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J80SX20RTC	2466	65.625	53	29.812	24.75	4.75	6.75	4.75
J90SX20BTA	2130	66.5	53.5	22.187	24.75	4.77	7.63	5.5
J90SX20BTB	2431	66.5	53.5	24.812	24.75	4.77	7.63	5.5
J90SX20BTC	2775	66.5	53.5	29.812	24.75	4.77	7.63	5.5
J90SX20RTA	2130	66.5	53.5	22.187	24.75	4.77	7.63	5.5
J90SX20RTB	2431	66.5	53.5	24.812	24.75	4.77	7.63	5.5
J90SX20RTC	2775	66.5	53.5	29.812	24.75	4.77	7.63	5.5
J100SX20BTA	2130	66.5	53.5	22.187	24.75	4.77	7.63	5.5
J100SX20BTB	2431	66.5	53.5	24.812	24.75	4.77	7.63	5.5
J100SX20BTC	2775	66.5	53.5	29.812	24.75	4.77	7.63	5.5
J100SX20RTA	2130	66.5	53.5	22.187	24.75	4.77	7.63	5.5
J100SX20RTB	2431	66.5	53.5	24.812	24.75	4.77	7.63	5.5
J100SX20RTC	2775	66.5	53.5	29.812	24.75	4.77	7.63	5.5
J115SX20BTA	2778	73.625	58.875	23.937	24.75	5.6	9.13	6
J115SX20BTB	3078	73.625	58.875	26.437	24.75	5.6	9.13	6
J115SX20BTC	3420	73.625	58.875	31.437	24.75	5.6	9.13	6
J115SX20RTA	2778	73.625	58.875	23.937	24.75	5.6	9.13	6
J115SX20RTB	3078	73.625	58.875	26.437	24.75	5.6	9.13	6
J115SX20RTC	3420	73.625	58.875	31.437	24.75	5.6	9.13	6
J125SX20BTA	2778	73.625	58.875	23.937	24.75	5.6	9.13	6
J125SX20BTB	3078	73.625	58.875	26.437	24.75	5.6	9.13	6
J125SX20BTC	3420	73.625	58.875	31.437	24.75	5.6	9.13	6
J125SX20RTA	2778	73.625	58.875	23.937	24.75	5.6	9.13	6
J125SX20RTB	3078	73.625	58.875	26.437	24.75	5.6	9.13	6
J125SX20RTC	3420	73.625	58.875	31.437	24.75	5.6	9.13	6
J130SX20BTA	2778	73.625	58.875	23.937	24.75	5.6	9.13	6
J130SX20BTB	3078	73.625	58.875	26.437	24.75	5.6	9.13	6
J130SX20BTC	3420	73.625	58.875	31.437	24.75	5.6	9.13	6
J130SX20RTA	2778	73.625	58.875	23.937	24.75	5.6	9.13	6
J130SX20RTB	3078	73.625	58.875	26.437	24.75	5.6	9.13	6
J130SX20RTC	3420	73.625	58.875	31.437	24.75	5.6	9.13	6
J140SX20BTA	2778	73.625	58.875	23.937	24.75	5.6	9.13	6
J140SX20BTB	3078	73.625	58.875	26.437	24.75	5.6	9.13	6
J140SX20BTC	3420	73.625	58.875	31.437	24.75	5.6	9.13	6
J140SX20RTA	2778	73.625	58.875	23.937	24.75	5.6	9.13	6
J140SX20RTB	3078	73.625	58.875	26.437	24.75	5.6	9.13	6
J140SX20RTC	3420	73.625	58.875	31.437	24.75	5.6	9.13	6
J150SX20BTA	2963	76.25	61	23.937	24.75	5.34	9.93	7
J150SX20BTB	3263	76.25	61	26.437	24.75	5.34	9.93	7
J150SX20BTC	3605	76.25	61	31.437	24.75	5.34	9.93	7
J150SX20RTA	2963	76.25	61	23.937	24.75	5.34	9.93	7
J150SX20RTB	3263	76.25	61	26.437	24.75	5.34	9.93	7
J150SX20RTC	3605	76.25	61	31.437	24.75	5.34	9.93	7

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

20-inch 6-Sheave Shorty "J" Crane Blocks, 65-165 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J165SX20BTA	2963	76.25	61	23.937	24.75	5.34	9.93	7
J165SX20BTB	3263	76.25	61	26.437	24.75	5.34	9.93	7
J165SX20BTC	3605	76.25	61	31.437	24.75	5.34	9.93	7
J165SX20RTA	2963	76.25	61	23.937	24.75	5.34	9.93	7
J165SX20RTB	3263	76.25	61	26.437	24.75	5.34	9.93	7
J165SX20RTC	3605	76.25	61	31.437	24.75	5.34	9.93	7

24-inch 6-Sheave Shorty "J" Crane Blocks, 90-200 Tons

J90SX24BTA	2375	70.375	57.5	22.187	28.75	4.77	7.63	5.5
J90SX24BTB	3079	70.375	57.5	28.062	28.75	4.77	7.63	5.5
J90SX24BTC	3542	70.375	57.5	34.562	28.75	4.77	7.63	5.5
J90SX24RTA	2375	70.375	57.5	22.187	28.75	4.77	7.63	5.5
J90SX24RTB	3079	70.375	57.5	28.062	28.75	4.77	7.63	5.5
J90SX24RTC	3542	70.375	57.5	34.562	28.75	4.77	7.63	5.5
J100SX24BTA	2375	70.375	57.5	22.187	28.75	4.77	7.63	5.5
J100SX24BTB	3079	70.375	57.5	28.062	28.75	4.77	7.63	5.5
J100SX24BTC	3542	70.375	57.5	34.562	28.75	4.77	7.63	5.5
J100SX24RTA	2375	70.375	57.5	22.187	28.75	4.77	7.63	5.5
J100SX24RTB	3079	70.375	57.5	28.062	28.75	4.77	7.63	5.5
J100SX24RTC	3542	70.375	57.5	34.562	28.75	4.77	7.63	5.5
J115SX24BTA	3289	77.875	62.875	23.937	28.75	5.6	9.13	6
J115SX24BTB	3994	77.875	62.875	29.687	28.75	5.6	9.13	6
J115SX24BTC	4457	77.875	62.875	36.187	28.75	5.6	9.13	6
J115SX24RTA	3289	77.875	62.875	23.937	28.75	5.6	9.13	6
J115SX24RTB	3994	77.875	62.875	29.687	28.75	5.6	9.13	6
J115SX24RTC	4457	77.875	62.875	36.187	28.75	5.6	9.13	6
J125SX24BTA	3289	77.875	62.875	23.937	28.75	5.6	9.13	6
J125SX24BTB	3994	77.875	62.875	29.687	28.75	5.6	9.13	6
J125SX24BTC	4457	77.875	62.875	36.187	28.75	5.6	9.13	6
J125SX24RTA	3289	77.875	62.875	23.937	28.75	5.6	9.13	6
J125SX24RTB	3994	77.875	62.875	29.687	28.75	5.6	9.13	6
J125SX24RTC	4457	77.875	62.875	36.187	28.75	5.6	9.13	6
J130SX24BTA	3289	77.875	62.875	23.937	28.75	5.6	9.13	6
J130SX24BTB	3994	77.875	62.875	29.687	28.75	5.6	9.13	6
J130SX24BTC	4457	77.875	62.875	36.187	28.75	5.6	9.13	6
J130SX24RTA	3289	77.875	62.875	23.937	28.75	5.6	9.13	6
J130SX24RTB	3994	77.875	62.875	29.687	28.75	5.6	9.13	6
J130SX24RTC	4457	77.875	62.875	36.187	28.75	5.6	9.13	6
J140SX24BTA	3289	77.875	62.875	23.937	28.75	5.6	9.13	6
J140SX24BTB	3994	77.875	62.875	29.687	28.75	5.6	9.13	6
J140SX24BTC	4457	77.875	62.875	36.187	28.75	5.6	9.13	6
J140SX24RTA	3289	77.875	62.875	23.937	28.75	5.6	9.13	6

24-inch 6-Sheave Shorty "J" Crane Blocks, 90-200 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J140SX24RTB	3994	77.875	62.875	29.687	28.75	5.6	9.13	6
J140SX24RTC	4457	77.875	62.875	36.187	28.75	5.6	9.13	6
J150SX24BTA	3523	80.5	65	23.937	28.75	5.34	9.93	7
J150SX24BTB	4229	80.5	65	29.687	28.75	5.34	9.93	7
J150SX24BTC	4691	80.5	65	36.187	28.75	5.34	9.93	7
J150SX24RTA	3523	80.5	65	23.937	28.75	5.34	9.93	7
J150SX24RTB	4229	80.5	65	29.687	28.75	5.34	9.93	7
J150SX24RTC	4691	80.5	65	36.187	28.75	5.34	9.93	7
J165SX24BTA	3523	80.5	65	23.937	28.75	5.34	9.93	7
J165SX24BTB	4229	80.5	65	29.687	28.75	5.34	9.93	7
J165SX24BTC	4691	80.5	65	36.187	28.75	5.34	9.93	7
J165SX24RTA	3523	80.5	65	23.937	28.75	5.34	9.93	7
J165SX24RTB	4229	80.5	65	29.687	28.75	5.34	9.93	7
J165SX24RTC	4691	80.5	65	36.187	28.75	5.34	9.93	7

24-inch 200T 6-Sheave Shorty "J" Crane Blocks, 200 Tons

J-200SX24BTA	4658	86.5	71	25.437	28.75	9.01	10.13	6
J-200SX24BTB	5363	86.5	71	31.187	28.75	9.01	10.13	6
J-200SX24BTC	5825	86.5	71	37.687	28.75	9.01	10.13	6
J-200SX24RTA	4658	86.5	71	25.437	28.75	9.01	10.13	6
J-200SX24RTB	5363	86.5	71	31.187	28.75	9.01	10.13	6
J-200SX24RTC	5825	86.5	71	37.687	28.75	9.01	10.13	6

30-inch 200T 6-Sheave Shorty "J" Crane Blocks, 200-325 Tons

J200SX30BTA	5721	92.5	77.125	25.437	35.75	9.01	10.13	6
J200SX30BTB	6620	92.5	77.125	26.437	35.75	9.01	10.13	6
J200SX30BTC	7200	92.5	77.125	28.437	35.75	9.01	10.13	6
J200SX30RTA	5721	92.5	77.125	25.437	35.75	9.01	10.13	6
J200SX30RTB	6620	92.5	77.125	26.437	35.75	9.01	10.13	6
J200SX30RTC	7200	92.5	77.125	28.437	35.75	9.01	10.13	6
J250SX30BTA	5721	102.5	82.5	27	35.25	8.52	12.81	8
J250SX30BTB	6620	102.5	82.5	28.25	35.25	8.52	12.81	8
J250SX30BTC	7200	102.5	82.5	30.25	35.25	8.52	12.81	8
J250SX30RTA	5721	102.5	82.5	27	35.25	8.52	12.81	8

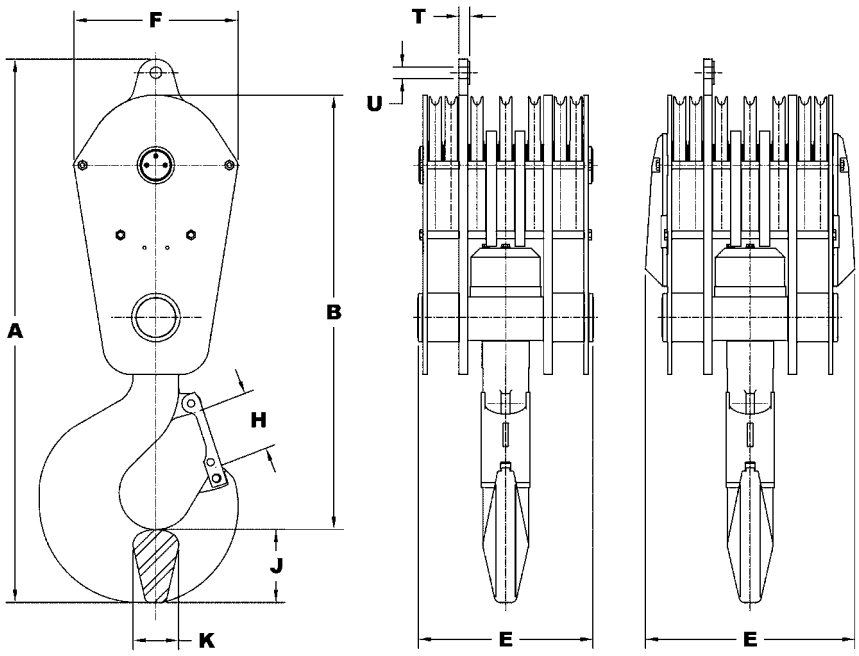
30-inch 200T 6-Sheave Shorty "J" Crane Blocks, 200-325 Tons (continued)

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J250SX30RTB	6620	102.5	82.5	28.25	35.25	8.52	12.81	8
J250SX30RTC	7200	102.5	82.5	30.25	35.25	8.52	12.81	8
J265SX30BTA	5721	102.5	82.5	27	35.25	8.52	12.81	8
J265SX30BTB	6620	102.5	82.5	28.25	35.25	8.52	12.81	8
J265SX30BTC	7200	102.5	82.5	30.25	35.25	8.52	12.81	8
J265SX30RTA	5721	102.5	82.5	27	35.25	8.52	12.81	8
J265SX30RTB	6620	102.5	82.5	28.25	35.25	8.52	12.81	8
J265SX30RTC	7200	102.5	82.5	30.25	35.25	8.52	12.81	8
J300SX30BTA	7260	104.375	85.25	28.437	36.5	9.13	12.73	9
J300SX30BTB	8140	104.375	85.25	29.562	36.5	9.13	12.73	9
J300SX30BTC	8710	104.375	85.25	31.562	36.5	9.13	12.73	9
J300SX30RTA	7260	104.375	85.25	28.437	36.5	9.13	12.73	9
J300SX30RTB	8140	104.375	85.25	29.562	36.5	9.13	12.73	9
J300SX30RTC	8710	104.375	85.25	31.562	36.5	9.13	12.73	9
J325SX30BTA	7260	104.375	85.25	28.437	36.5	9.13	12.73	9
J325SX30BTB	8140	104.375	85.25	29.562	36.5	9.13	12.73	9
J325SX30BTC	8710	104.375	85.25	31.562	36.5	9.13	12.73	9
J325SX30RTA	7260	104.375	85.25	28.437	36.5	9.13	12.73	9
J325SX30RTB	8140	104.375	85.25	29.562	36.5	9.13	12.73	9
J325SX30RTC	8710	104.375	85.25	31.562	36.5	9.13	12.73	9

Seven Sheave Shorty "J" Crane Blocks

Gunnebo Johnson Design Factor is 4 to 1, with some exceptions;
45 Ton models 3.6 to 1
60 Ton models 3.6 to 1

For crane block warnings and use limitations see pages 76-77



Key to seven sheave J-Block model numbers

J	250	SV	24	B	T	A
Shorty "J" Crane Block	Working Load Limit – (US Tons)	Number of Sheaves: SV = 7	Sheave Size – Nom. O.D.	Sheave Bearing B = Bronze Bushed R = Roller Bearing	Hook – Thrust Bearing	Cheek Weights A = No wts. B = Std. wts. C = X-Heavy wts. D = Special wts.

Heavy duty Hook Latches are standard equipment

Gunnebo Johnson's heavy duty J-Latches are standard equipment for blocks up to 250 tons. Larger blocks are equipped with standard bar latches.

To order, please specify:

- **Model Number**
- **Wire Rope Size**
- **Options Required**

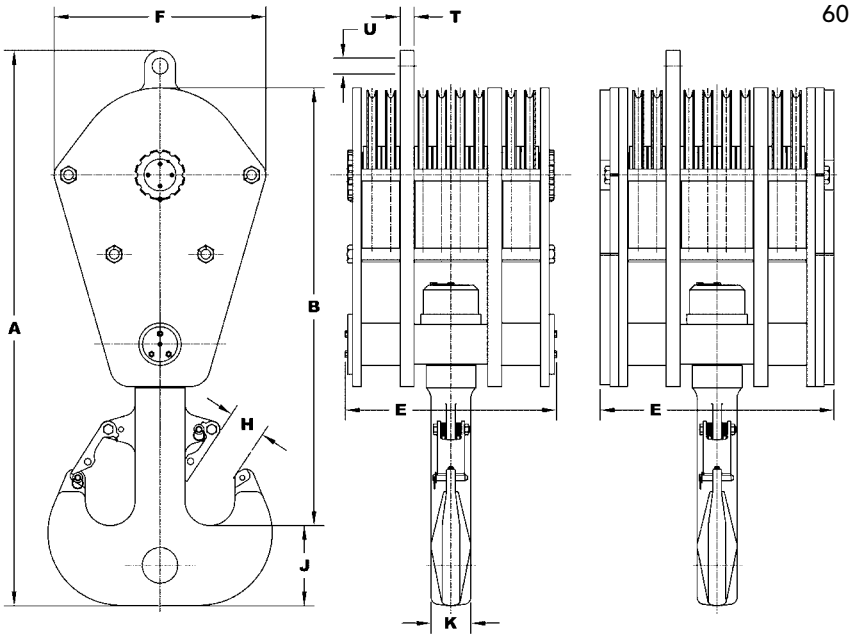
24-inch 7-Sheave Shorty "J" Crane Blocks, 250-325 Tons

Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-250SV24BTA	5575	95.375	76.25	30.781	28.75	8.52	12.81	8
J-250SV24BTB	6279	95.375	76.25	36.75	28.75	8.52	12.81	8
J-250SV24BTC	6742	95.375	76.25	43.25	28.75	8.52	12.81	8
J-250SV24RTA	5575	95.375	76.25	30.781	28.75	8.52	12.81	8
J-250SV24RTB	6279	95.375	76.25	36.75	28.75	8.52	12.81	8
J-250SV24RTC	6742	95.375	76.25	43.25	28.75	8.52	12.81	8
J-265SV24BTA	5575	95.375	76.25	30.781	28.75	8.52	12.81	8
J-265SV24BTB	6279	95.375	76.25	36.75	28.75	8.52	12.81	8
J-265SV24BTC	6742	95.375	76.25	43.25	28.75	8.52	12.81	8
J-265SV24RTA	5575	95.375	76.25	30.781	28.75	8.52	12.81	8
J-265SV24RTB	6279	95.375	76.25	36.75	28.75	8.52	12.81	8
J-265SV24RTC	6742	95.375	76.25	43.25	28.75	8.52	12.81	8
J-300SV24BTA	6445	95.25	76.75	32.937	28.75	9.13	12.73	9
J-300SV24BTB	7149	95.25	76.75	38.875	28.75	9.13	12.73	9
J-300SV24BTC	7612	95.25	76.75	45.375	28.75	9.13	12.73	9
J-300SV24RTA	6445	95.25	76.75	32.937	28.75	9.13	12.73	9
J-300SV24RTB	7149	95.25	76.75	38.875	28.75	9.13	12.73	9
J-300SV24RTC	7612	95.25	76.75	45.375	28.75	9.13	12.73	9
J-325SV24BTA	6445	95.25	76.75	32.937	28.75	9.13	12.73	9
J-325SV24BTB	7149	95.25	76.75	38.875	28.75	9.13	12.73	9
J-325SV24BTC	7612	95.25	76.75	45.375	28.75	9.13	12.73	9
J-325SV24RTA	6445	95.25	76.75	32.937	28.75	9.13	12.73	9
J-325SV24RTB	7149	95.25	76.75	38.875	28.75	9.13	12.73	9
J-325SV24RTC	7612	95.25	76.75	45.375	28.75	9.13	12.73	9

Eight Sheave Shorty “J” Crane Blocks

Gunnebo Johnson Design Factor is 4 to 1, with some exceptions;
45 Ton models 3.6 to 1
60 Ton models 3.6 to 1

For crane block warnings and use limitations see pages 76-77



Key to eight sheave J-Block model numbers

J	350	OCT	24	B	T	A
Shorty “J” Crane Block	Working Load Limit – (US Tons)	Number of Sheaves: OCT = 8	Sheave Size – Nom. O.D.	Sheave Bearing B = Bronze Bushed T = Tapered Roller Bearing	Hook – Thrust Bearing	Cheek Weights A = No wts. B = Std. wts. C = X-Heavy wts. D = Special wts.

Heavy duty hook latches are standard equipment

Gunnebo Johnson’s new heavy duty J-Latches are standard equipment for blocks with Duplex Hooks up to 450 tons.

To order, please specify:
• Model Number • Wire Rope Size • Options Required

30-inch 8-Sheave Shorty “J” Crane Blocks, 350 Tons

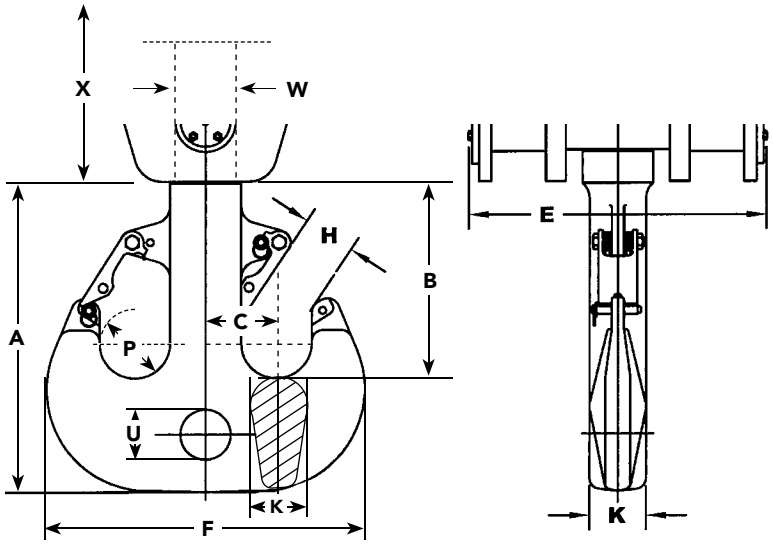
Model	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J350OCT30BTA	10,217	106.625	80.875	41	35.75	18.25	12	7.25
J350OCT30BTB	10,965	106.625	80.875	42.5	35.75	18.25	12	7.25
J350OCT30BTC	11,667	106.625	80.875	44.5	35.75	18.25	12	7.25
J350OCT30TTA	10,217	106.625	80.875	41	35.75	18.25	12	7.25
J350OCT30TTB	10,965	106.625	80.875	42.5	35.75	18.25	12	7.25
J350OCT30TTC	11,667	106.625	80.875	44.5	35.75	18.25	12	7.25

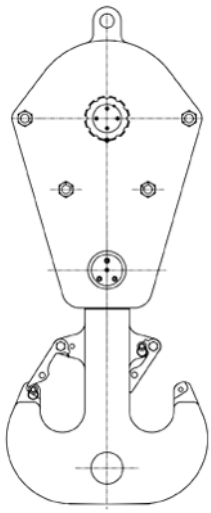
Shorty "J" Crane Block Options

Duplex Hooks

80 through 600-ton capacities
4 to 1 design factor • Cast alloy steel construction

For crane block warnings and use limitations see pages 76-77





Duplex Hooks

Cast alloy steel duplex hooks are available as an option on J-Blocks 80 thru 300 ton (standard on models rated 350 tons and above). These hooks adapt directly to the Shorty "J" blocks. Design features include J-Latch on all models, plus lower bail attachment hole. Forged steel duplex hooks are also available, their prices supplied upon application. Other duplex hook options include anti-rotation locking devices, all models, and lower bails.

Standard J-Block W.L.L (US Tons)	Net Weight Added By Duplex Hook (Lbs)
80	31
90-110	179
115-140	40
150-165	97
200	212
250-265	-178
300-325	600
350	*
600	*

To order, please specify:

ON NEW BLOCKS – Duplex Hook to be specified as part of product description

ON PREVIOUSLY PURCHASED BLOCKS – Indicate Block Model Number and Serial Number

To determine weight of J-Block with duplex hook add or subtract the appropriate Net Weight figure to the weight figure to the weight of the J-Block model selected.

*Duplex hook standard on 350 and 600 ton models.

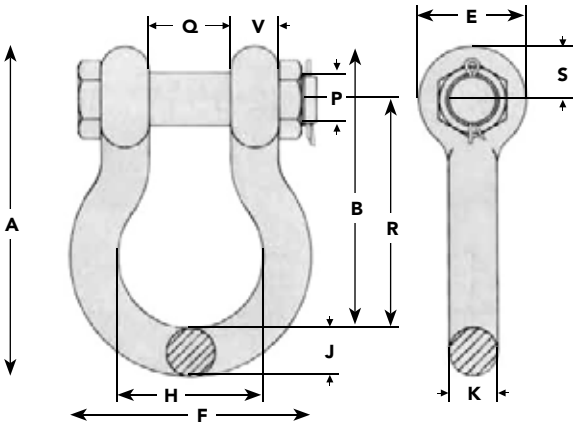
"J" Cast Alloy Steel Duplex Hooks, 80-600 tons

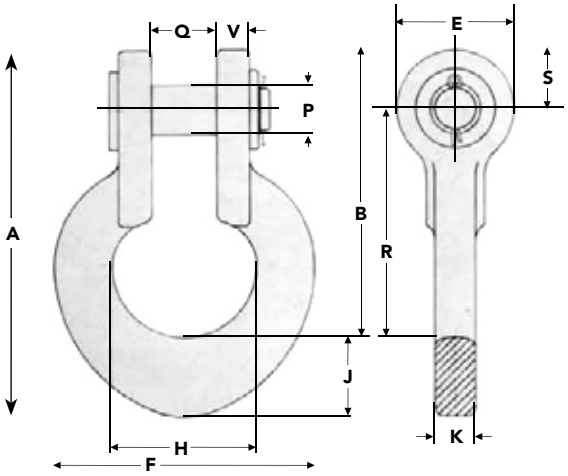
Model	Wt. LBS.	A Overall Length	B Net Length	C Center to Load Point	E Thickness	F Width	H Throat Opening	K Hook Width	P Throat Capacity	U Hole Dia.	W Max. Shank Dia.	X Hook Width
80	310	27	18.500	5.125	4	25	5.625	3.812	5.25	3.562	4.562	10.625
90-110	578	31	21.25	6	5	29.5	6.312	4.625	6	4.187	5.5	13.062
115-140	616	31.312	21.562	6	5	29.5	6.312	4.625	6	4.187	5.5	13.062
150-165	890	32.75	21.812	6.75	6	33	6.75	5.375	6.5	4.687	6.5	19.312
200	1276	37.187	23.5	7.75	7	36.5	7.75	6.375	7.5	6.187	7.5	21.125
250-265	1402	37.375	23.687	7.75	7	36.5	7.75	6.375	7.5	6.187	7.5	21.125
300-350	2407	49.25	31	10	9	46.5	10.062	12	10	7.625	8.75	28.187
600	4700	62.562	35.437	14	11	60	12.875	15	14	8.5	10.75	25.75

Shorty "J" Crane Block Options

Duplex Hook Bails

80 through 350 ton capacities
4 to 1 design factor
80 through 125 tons — forged steel • 150 through 350 tons — Cast alloy steel construction
For crane block warnings and use limitations see pages 76-77





Working load limits (US Tons)	Net Weight Added By Bail (Lbs)
80	130
90-125	260
150	468
200-265	876
300-350	1,766

To determine weight of J-Block with duplex hook bail, add or subtract the appropr ate Net Weight figure to the weight figure to the weight of the J-Block duplex model selected.

Duplex Hook Bails

Available for bottom hole attachment, these bails give Gunnebo Johnson Blocks duplex hooks a single-point lifting capability. Offered are drop forged steel models, 80 through 125 ton capacities, and cast alloy steel models, 150 through 350 ton capacities.

To order, please specify:

ON NEW DUPLEX BLOCKS – Bail to be specified as part of product description

ON PREVIOUSLY PURCHASED DUPLEX HOOKS – Indicate Duplex Hook Tonnage • Price on application

Duplex Hook Bails, 80-350

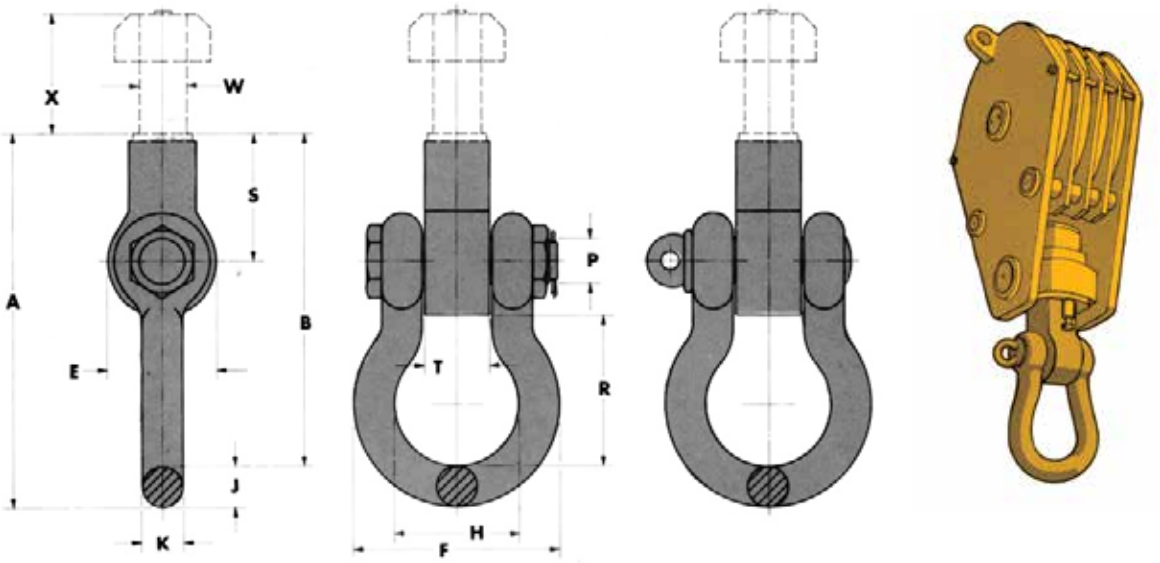
Model	Wt. LBS	A Overall Length	B Net Length	E Thickness	F Width	H Inside Width of Bail or Shackle at Bow	J Bail Thickness	K Bail Width	P Pin Dia.	Q Width Between Ears	R Pin to Obstruction	S Pin to End of Fitting	V Thickness of Ear
80	130	21.375	18.375	7	15	9	3	3	3.25	5	14.875	3.5	3
90-125	260	22.5	19	8	17.375	10.375	3.5	3.5	4	5	17	4	3
150	468	32	25.5	10	21.75	12	6.5	4	4.5	6.625	20.5	5	3.375
200-265	876	41.25	32.25	13.5	29	16	9	4.5	6	7.25	25.5	6.75	3.75
300-350	1766	48.875	37.875	15.75	35	19	11	5.5	7.5	8.75	30	7.875	4.5

Shorty "J" Crane Block Options

Swivel Tee and Shackle Assemblies

50 through 350 ton capacities
4 to 1 design factor • Screw pin or safety anchor models
50 through 140 tons — forged steel shackle • 150 through 350 tons — cast alloy steel bail

For crane block warnings and use limitations see pages 76-77



Swivel Tees and Shackles assemblies.

For those applications in which a completely closed lifting device is most suitable, Gunnebo Johnson offers the flexibility of swivel tees with shackle. Ranging in capacity from 50 through 350 tons, these fittings may be purchased in either screw pin or safety anchor form. Shackles in the 3 through 140 ton range are made of forged steel; in the 150 through 350 ton range, of cast alloy steel.

Standard J-Block WLL (US Tons)	Net Weight Added By Swivel Tee and Shackle
50-60	-17
65-70	-28
75-80	-17
90-110	5
115-140	-24
150-165	-99
200	257
250-265	154
300	869
350	17

To determine weight of J-Block v ith swivel tee and shackle, add or subtract the appropriate Net Weight figure to the weight of J-Block model selected.

To order, please specify:

ON NEW BLOCKS – Swivel Tee and Shackle to be specified as part of product description

ON PREVIOUSLY PURCHASED BLOCKS – Indicate Block Model Number and Serial Number • Price on application

Shorty "J" Crane Block Options

Swivel Tee and Shackle Assemblies

50 through 350 ton capacities
4 to 1 design factor • Screw pin or safety anchor models
50 through 140 tons — forged steel shackle • 150 through 350 tons — cast alloy steel bail

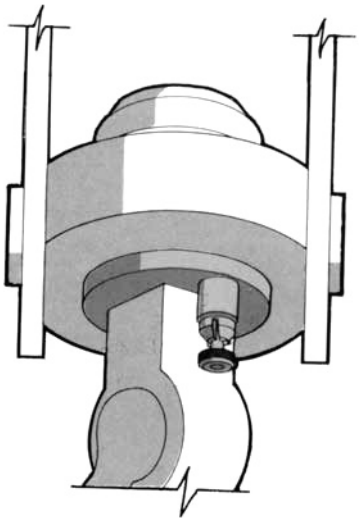
Swivel Tee and Shackle Assemblies, 50-350 Tons

Model	Wt. LBS	A Overall Length	B Net Length	E Thickness	F Width	H Inside Width of Bail at Bow	J Bail Thickness	K Bail Width	P Pin Diameter	R Pin to Obstruction	S Pin to End of Fitting	T Thickness of Tee	W Max Shank Diameter	X Max Shank Length
50-60	179	23.562	21.062	7.25	12.250	7.250	2.500	2.500	2.750	7.750	9.625	4	3	8
65-70	201	23.937	21.187	7.50	13.500	8	2.750	2.750	3	9	8.375	4	3	8
75-80	299	26.437	23.437	7.50	15	9	3	3	3.250	11.187	8.500	4.50	4	10
90-110	473	31.187	27.687	9	17.375	10.375	3.500	3.500	4	12.500	10.375	5	4	10
115-140	704	36.562	30.062	11.25	21.750	12	6.500	4	4.500	15	9.500	6.50	5	12.156
150-165	314	37.125	30.625	11.25	21.750	12	6.500	4	4.500	15	10	6.50	6	13.156
200	1516	48.687	39.687	13.50	29	16	9	4.500	6	18.937	14	6.50	6	13.781
250-265	1759	50.750	41.750	15	29	16	9	4.500	6	18.187	16.062	7	7	16.281
300	2667	57.687	46.687	19	35	19	11	5.500	7.500	20.687	16.500	8	7	17.656
350	2635	57.687	46.687	19	35	19	11	5.500	7.500	20.687	16.500	8	8	18.781

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Shorty "J" Crane Block Options
Anti-Rotation Locking Devices

For crane block warnings and use limitations see pages 76-77



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.

Anti-rotation locking device

J-Block Tonnage	Number of Sheaves	Locking Device Type	Weight (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

To order, please specify:

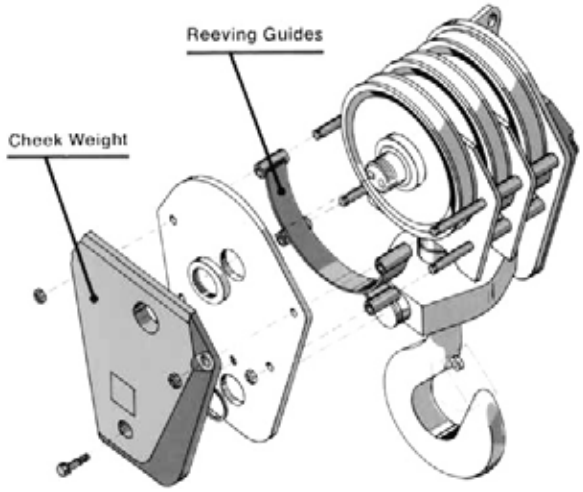
ON NEW BLOCKS – Anti-Rotation Device to be specified as part of product description

ON PREVIOUSLY PURCHASED BLOCKS – Indicate Block Model Number and Serial Number

Shorty "J" Crane Block Options

Cheek Weight Kits • Reeving Guides

For crane block warnings and use limitations see pages 76-77



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 Weight 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. Prices on application.

On previously purchased block
To order, please specify:
Cheek Weight Kit desired • Complete Block Model Number • Block Serial Number • Wire Rope Size

Example: "One 12-inch 'C' Cheek Weight Kit for Block J-15T12RTA, Serial Number 16574, 1/2-inch Wire Rope"

Reeving guides.

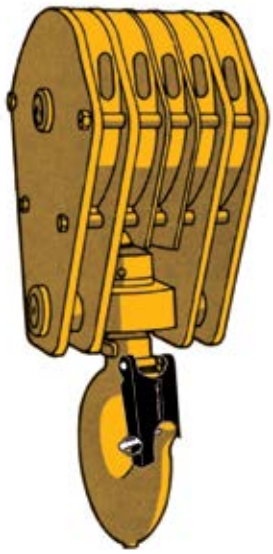
Shorty "J" reeving guides reduce the time and effort required to reeve a block by guiding the line easily around each sheave. The feature is especially valuable in crane rental situations, or conditions in which the line parts of a block must be changed frequently.

Gunnebo Johnson Blocks reeving guides are standard on all new J-Blocks, and are available as easy-to-install field modification kits.

To order, please specify:
ON NEW BLOCKS – Reeving Guides to be specified as part of product description
ON PREVIOUSLY PURCHASED BLOCKS – Indicate Block Model Number and Serial Number

Shorty "J" Crane Block Options
Sheave Shrouds

For crane block warnings and use limitations see pages 76-77



Sheave Shrouds

Shorty "J" sheave shrouds serve both as a reeving guide and as a means for protection for personnel. Often used for overhead crane applications, they may prove valuable in any operation in which excessive dust, grit, raid, chemical fumes or other foreign matter poses a problem.

Gunnebo Johnson sheave shrouds are available as an option on all new J-Blocks.

J-Latch Replacement Kits

Crane Block Safe Working Load (Tons)	J-Latch Kit Number	Weight (Lbs)
3-5	JL3-5	0.2
10-15	JL10-15	0.3
20-25	JL20-22	0.4
30	JL20-30	0.6
35-40	JL35-40	0.8
55-70	JL55-70	1.7
75-110	JL75-110	3.1
115-165	JL115-165	3.3

NOTE: J-Latches fit only Gunnebo Johnson hooks with lock pin hole drilled through hook tip. For old style latch replacement, see below.

Old style Latch Replacement Kits

Crane Block Safe Working Load (Tons)	No. of Sheaves In Block	Light Duty Latch	Heavy Duty Flapper Latch
		Kit No.	Kit No.
3	1	5626	3292
5	1-2	5622	3214
10-15	1-4	5503	3190
20-30	1-2	5551	4940
20-25	3-5	5533	3506
30	3-6	5551	4940
35-45	1-6	-	4941
50-70	1-6	-	4943
75-110	2-6	-	4944
115-165	4-6	-	4946

FLEXI-WEIGHT®

Flexi-Weight®

- The ultimate crane block for in-field versatility
- Sizes available from 40T – 800T (Tons)
- Modular system offers removable cheek weights,
- Contact the factory for pricing and availability or for assistance

CE Models

- Metric WLL's from 10T – 350 T (Tons)
- Handles integrated into side plate
- Safety Striped
- "CE" mark per annex III of EU 2006/42/EC machinery directive
- Material traceability and certificate of compliance

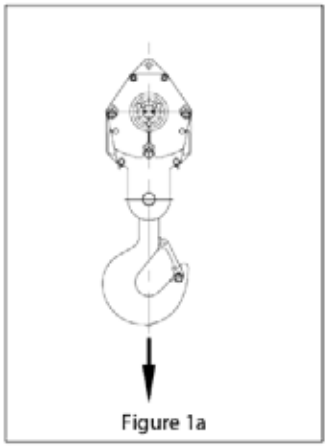


Figure 1a

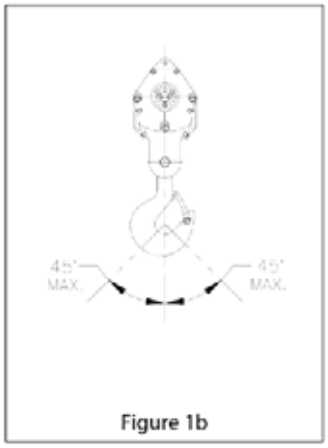


Figure 1b

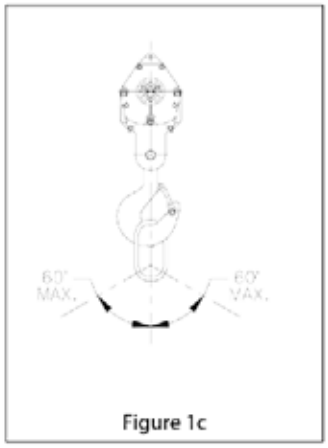


Figure 1c

When using a latch to close the throat opening of the hook, care shall be taken that the rigging load is not carried by the latch. Hook latches aid in the retention of loose slings under slack rigging conditions only and are not intended to be anti-fouling devices during lifting. Such fouling is extremely dangerous and shall be avoided by proper rigging and controlled lifting dynamics.

- **Never use a worn-out or damaged crane block.** Avoid structural or mechanical failure.

  Each day before use, the crane block and its fasteners and attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during crane block use where service conditions warrant. Damaged or defective crane blocks shall be immediately removed from service. In addition to the daily inspection, a thorough periodic inspection shall be made on a regular basis, to be determined on the basis of (A) frequency of crane block use; (B) severity of service conditions; (C) nature of lifts being made; and (D) experience gained on the service life of crane blocks used in similar circumstances.

  Such inspections shall in no event be at intervals greater than once every 12 months.

  The following findings shall be cause for crane block removal from service until repaired or replaced;

  - Elongated center pin and hook trunnion holes exceeding 5% of original diameter,
  - Bent side plates,
  - Severe corrosion pitting,
  - Corroded hook threads,
  - Bent or twisted hook,
  - Welding on hook,
  - Damaged or dysfunctional hook latch,
  - Cracks in sheaves, side plates, cheek weights, center pins, hook trunnion, dead end connections and hook,
  - Material loss due to wear exceeding 10% of original section,
  - Sheave wobble,
  - Deeply corrugated (not imprinted) sheave grooves or,
  - Sheave wire rope groove diameter smaller than 2.5%. or greater than 10% of the nominal wire diameter,
  - Missing or damaged retaining nuts, snap rings, set screws, cotter pins, tie bolts, hook nut cap screws and lock wire or,
  - Missing or illegible rating and warning tags.

  The following findings shall be cause for crane block removal from service until corrected;

  - Loosened tie bolt nuts, center pin round nuts, cheek weight cap screws and hook nut cap screws. Tie bolt nuts to be torqued to 35-40 ft-lbs and restaked, all other fasteners wrench tight.
  - Lack of sheave and hook bearing lubrication. Continuous operation: lubricate bushings every 8 hours and roller bearings every 24 hours. Intermittent operation: lubricate bushings and bearing every 14 days.

- **Never use a crane block in extreme temperatures.** Sudden failure can occur.

  Crane blocks shall not be heated above 180 degrees F. Crane block Working Load Limit is valid between 180 degrees F and service temperature given on the identification tag with normal lifting precautions.

  Additional lifting precautions are required below the service temperature given on the identification tag because cold temperture begins to affect the crane block material properties.

  Lifting above 75% of the Working Load Limit (WLL), at temperatures between the service temperature given on the identification tag and -40 degrees F, must done at a slow and steady rate to avoid stress spikes common in normal hoisting dynamics.

  75% of the WLL must not be exceeded, when lifting in temperatures below -40 degrees F.

- **Never use a crane block in alkaline or acidic conditions.**

  Gunnebo Johnson Corporation Crane Blocks shall not be used in alkaline or acidic conditions. Resulting metal embrittlement and accelerated corrosion can cause sudden failure.

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⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Crane Block Warnings and Use Limitations

This document contains warnings and use limitation information applicable to Gunnebo Johnson Corporation Crane Blocks and is furnished with all Gunnebo Johnson Corporation shipments. Crane Block distributors and lift system manufacturers must pass on this information in their warnings and use limitation literature where Gunnebo Johnson Corporation Crane Blocks are involved.

Protect yourself and others

- **NEVER** use a crane block without training.
- **ALWAYS** inform yourself … Ask your employer for the manufacturer's crane block use limitations.
- **ALWAYS** comply with applicable Country regulations.
- **ALWAYS** know load weight.
- **NEVER** use a crane block without a legible rated load tag.
- **NEVER** overload a crane block.
- **NEVER** ride on a crane block or load.
- **NEVER** use an improperly rigged cane block.
- **NEVER** use a worn – out or damaged crane block.
- **NEVER** use a crane block in extreme temperatures.
- **NEVER** use a crane block in acidic conditions.

Never use a crane block without training. OSHA regulation requires responsible work practice.

"The employer shall permit only those employees qualified by training or experience to operate equipment or machinery."OSHA 1926.20 (b) (4).

"Employee shall be knowledgeable of all warnings and cautions on the crane block." - OSHA 1910 Subpart N and 1926 Subpart N.

Employee training should include information given in OSHA training literature, ASME B30.10- 2005 Hook Safety Standards, ASME B30.5-2007 Mobile and Locomotive Cranes and Gunnebo Johnson Corporation's DVD of "Recommended Inspection Practices for Johnson Lifting Accessories" and this document.

Always inform yourself. Ask your employer for crane block safe use instruction.

"The employer shall instruct each employee in the recognition and avoidance of unsafe conditions and the regulations applicable to his work environment to control or eliminate any hazards or other exposure to injury."-OSHA 1926.21 (b) (2).

Always comply with applicable Country regulations. Federal and Local regulations govern worksite activity.

Understand all governing laws and safety standards before use of crane blocks. OSHA 1910.180 and 1926.550 regulates product requirements, operating practices, product identification, inspection requirements, and use limitation obligations.

"If a particular standard is specifically applicable to a condition, practice, means, method, operation, or process, it shall prevail over any different general standard...." OSHA 1910.5 (c) (1).

Contact OSHA at 800-321-6742, www.osha.gov and ASME at 800-843-2763, www.asme.org for reference assistance.

Always know load weight. Avoid crane block failure.

The weight of the load shall be within the rated load of the crane block.

Weight of the load to be lifted must be known for determination of proper reeving and rigging of crane block.

- **Never use a crane block without a legible identification tag.** Crane block tag is required to insure proper block application.

  "All hook and ball assemblies and load blocks shall be labeled with their rated capacity and weight."- ASME B30.5-1.7.6.

- **Never overload a crane block.** Understand Working Load Limits. Overload can cause crane block failure or permanent damage.

  Maximum crane block Working Load Limit (Rated Load) is valid only when all crane block sheaves are reeved. Partial reeving requires a Maximum Working Load Limit reduction; $WLL_{PR} = WLL_{MAX}$ times the No. of reeved sheaves divided by the maximum No. of sheaves.

- **Never ride on a crane block or load.** Avoid death or injury.

  "All employees shall be kept clear of loads about to be lifted and of suspended loads." -OSHA 1926.550 (a) (19).

  "No hoisting, lowering, swinging or traveling shall be done while anyone is on the load or hook assembly. " -OSHA 1910.180 (h) (3) (v).

  The use of a crane block to hoist employees on a personnel platform is prohibited. Except when the erecting, use, and dismantling of conventional means of reaching the worksite, such as a personnel hoist, ladder, stairway, aerial lift, elevating work platform or scaffold, would be more hazardous or is not possible because of structural design or worksite conditions. - OSHA 1926.550 (g) (2).

  Follow Crane Operators' Manual for personnel lifting requirements.

Never rig a crane block to a crane or a load improperly. Avoid dropped loads and crane block damage.

Crane block shall not be;

- allowed to "two-block",
- unsymetrically reeved,
- used with reeving off lead greater than 2.5 degrees,
- used with a single part of line unless expressly permitted,
- used as a wrecking ball,
- used to drag a load,
- subjected to high vibration,
- immersed in water.

Hook load rigging shall be centered in the base (bowl/saddle) of the hook to avoid point loading of the hook and rigging disengagement. (See figure 1a, 1b, & 1c.).

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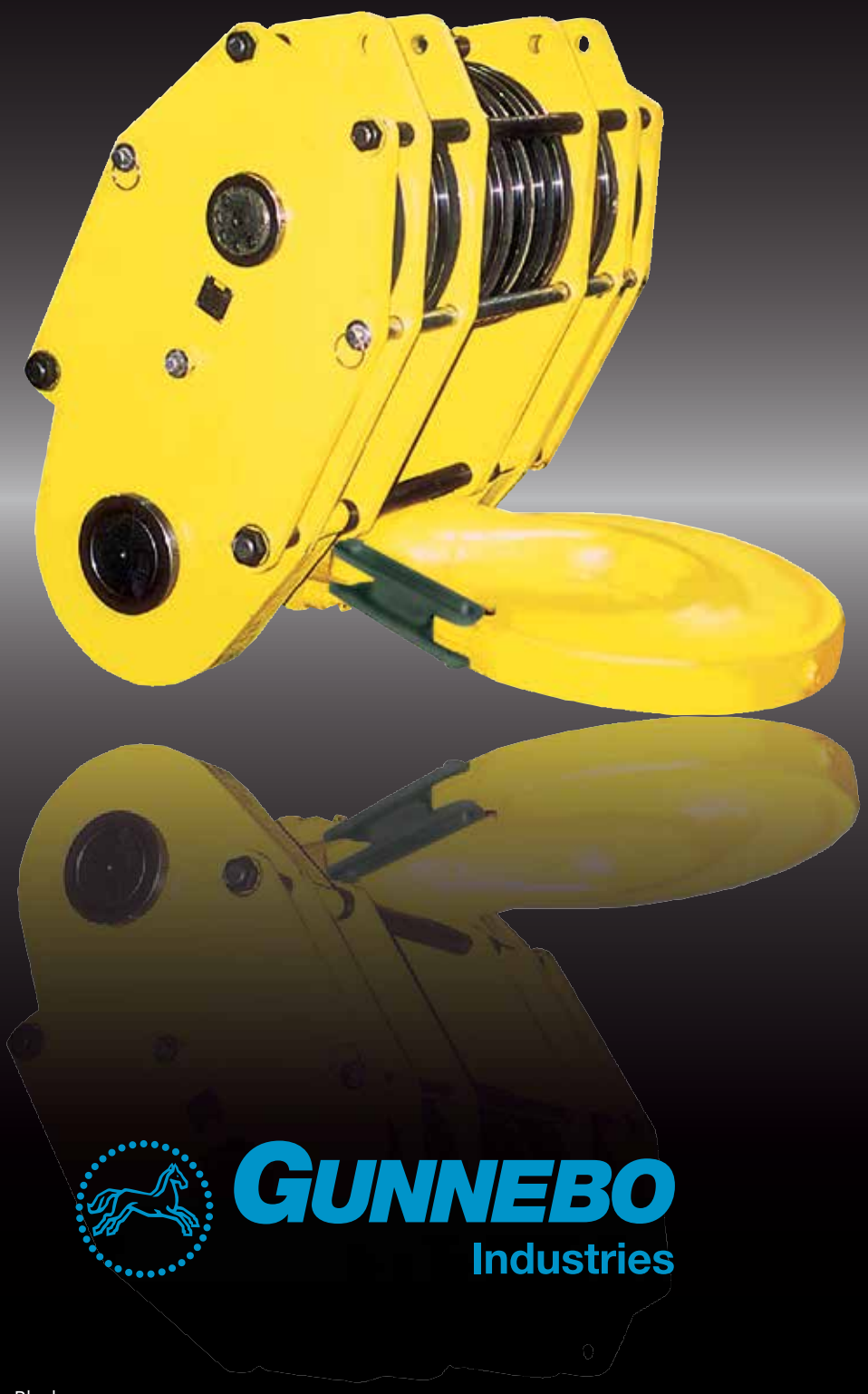
Quick Reeve Crane Blocks



GUNNEBO
Industries

Quick Reeve Crane Blocks

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The Gunnebo Johnson "Quick Reeve" Crane Block

Quick Reeve™

The Gunnebo Johnson Quick Reeve Crane Block will save you both time and money. The combination of the Gunnebo Johnson Quick Reeve Crane Block and your crane's Quick Reeve Boom Tip combine to make a reeving system that's unsurpassed in productivity, safety and speed. Simply stand the block up and tilt it over on its positive support hook base, pull the quick release retaining pins, and run your rope (with wedge socket connected) through the block. It's that simple! There are no drop away trap doors to get in your way or become bent and damaged, and the quick release retaining pins stay with block at all times.

Saves You Time and Money.

End fitting easily passes through while staying attached to rope.

Quick release, anodized, rope retaining pins remain with block.

No trap doors to get bent, damaged or in the way.

Note: Appropriate boom tip *required* on your crane.

Positive support hook base

For more information contact your local authorized Gunnebo Johnson Block Distributor. Or visit our website – www.gunnebojohnson.com

AWRF

An ISO 9001 Certified Company

Quick Reeve Crane Blocks

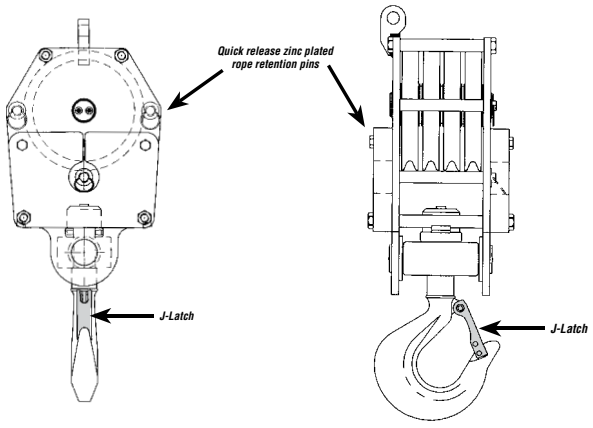
Gunnebo Johnson Design Factor is 4 to 1, with some exceptions;
45 Ton models 3.6 to 1
60 Ton models 3.6 to 1

For crane block warnings and use limitations see pages 76-77

Crane Blocks - Quick Reeve™

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.



- **The Johnson J-Latch provides a fast hook deformation inspection point.**
- **Standard tonnage capacities from 5-140 tons. Larger capacities available upon request.**

Crane Blocks, 10 Tons

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ10S10RTA	10	1	10	130
QRJ10S10RTB	10	1	10	200
QRJ10S12RTA	10	1	12	145
QRJ10S12RTB	10	1	12	270
QRJ10S12RTC	10	1	12	420
QRJ10S14RTA	10	1	14	180
QRJ10S14RTB	10	1	14	360
QRJ10S14RTC	10	1	14	530
QRJ10S16RTA	10	1	16	292
QRJ10S16RTB	10	1	16	472
QRJ10S16RTC	10	1	16	642
QRJ15S10RTA	15	1	10	130

Crane Blocks, 15 Tons

QRJ15S10RTB	15	1	10	200
QRJ15S10RTC	15	1	10	340
QRJ15S12RTA	15	1	12	140
QRJ15S12RTB	15	1	12	263

Crane Blocks, 15 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ15S12RTC	15	1	12	415
QRJ15S14RTA	15	1	14	170
QRJ15S14RTB	15	1	14	350
QRJ15S14RTC	15	1	14	515
QRJ15D10RTA	15	1	10	140
QRJ15D10RTB	15	1	10	210
QRJ15D10RTC	15	2	10	325
QRJ15D12RTA	15	2	12	170
QRJ15D12RTB	15	2	12	290
QRJ15D12RTC	15	2	12	440
QRJ15D14RTA	15	2	14	200
QRJ15D14RTB	15	2	14	380
QRJ15D14RTC	15	2	14	540
QRJ15D16RTA	15	2	16	230
QRJ15D16RTB	15	3	16	410
QRJ15D16RTC	15	3	16	570
QRJ15T10RTA	15	3	10	180
QRJ15T10RTB	15	3	10	255

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Crane Blocks, 15 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ15T10RTC	15	3	10	380
QRJ15T12RTA	15	3	12	200
QRJ15T12RTB	15	1	12	325
QRJ15T12RTC	15	1	12	475

Crane Blocks, 20 Tons

QRJ20S14RTA	20	1	14	240
QRJ20S14RTB	20	1	14	420
QRJ20S14RTC	20	1	14	585
QRJ20S16RTA	20	1	16	278
QRJ20S16RTB	20	1	16	434
QRJ20S16RTC	20	1	16	580
QRJ20S18RTA	20	1	18	309
QRJ20S18RTB	20	1	18	615
QRJ20S18RTC	20	1	18	762
QRJ20S20RTA	20	1	20	434
QRJ20S20RTB	20	1	20	734
QRJ20S20RTC	20	1	20	1078
QRJ20D12RTA	20	2	12	225
QRJ20D12RTB	20	2	12	345
QRJ20D12RTC	20	2	12	500
QRJ20D14RTA	20	2	14	278
QRJ20D14RTB	20	2	14	460
QRJ20D14RTC	20	2	14	625
QRJ20D16RTA	20	2	16	320
QRJ20D16RTB	20	2	16	484
QRJ20D16RTC	20	2	16	630
QRJ20T12RTA	20	3	12	255
QRJ20T12RTB	20	3	12	380
QRJ20T12RTC	20	3	12	530
QRJ20T14RTA	20	3	14	320
QRJ20T14RTB	20	3	14	505
QRJ20T14RTC	20	3	14	670

Crane Blocks, 25 Tons

QRJ25S18RTA	25	1	18	389
QRJ25S18RTB	25	1	18	615
QRJ25S18RTC	25	1	18	766
QRJ25S20RTA	25	1	20	434
QRJ25S20RTB	25	1	20	734
QRJ25S20RTC	25	1	20	1078
QRJ25D12RTA	25	2	12	225

Crane Blocks, 25 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ25D12RTB	25	2	12	345
QRJ25D12RTC	25	2	12	500
QRJ25D14RTA	25	2	14	278
QRJ25D14RTB	25	2	14	460
QRJ25D14RTC	25	2	14	680
QRJ25D16RTA	25	2	16	328
QRJ25D16RTB	25	2	16	484
QRJ25D16RTC	25	2	16	630
QRJ25T12RTA	25	3	12	255
QRJ25T12RTB	25	3	12	380
QRJ25T12RTC	25	3	12	530
QRJ25T14RTA	25	3	14	350
QRJ25T14RTB	25	3	14	505
QRJ25T14RTC	25	3	14	670
QRJ25T16RTA	25	3	16	389
QRJ25T16RTB	25	3	16	544
QRJ25T16RTC	25	3	16	690
QRJ25T18RTA	25	3	18	566
QRJ25T18RTB	25	3	18	793
QRJ25T18RTC	25	3	18	931
QRJ25Q14RTA	25	4	14	400
QRJ25Q14RTB	25	4	14	580
QRJ25Q14RTC	25	4	14	745
QRJ25Q16RTA	25	4	16	508
QRJ25Q16RTB	25	4	16	668
QRJ25Q16RTC	25	4	16	800

Crane Blocks, 30 Tons

QRJ30S18RTA	30	1	18	404
QRJ30S18RTB	30	1	18	630
QRJ30S18RTC	30	1	18	768
QRJ30S20RTA	30	1	20	448
QRJ30S20RTB	30	1	20	748
QRJ30S20RTC	30	1	20	1120
QRJ30S24RTA	30	1	24	548
QRJ30S24RTB	30	1	24	1310
QRJ30S24RTC	30	1	24	1711
QRJ30D16RTA	30	2	16	351
QRJ30D16RTB	30	2	16	506
QRJ30D16RTC	30	2	16	652
QRJ30D18RTA	30	2	18	474
QRJ30D18RTB	30	2	18	700

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Crane Blocks, 30 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ30D18RTC	30	2	18	838
QRJ30T12RTA	30	3	12	305
QRJ30T12RTB	30	3	12	425
QRJ30T12RTC	30	3	12	575
QRJ30T14RTA	30	3	14	370
QRJ30T14RTB	30	3	14	660
QRJ30T14RTC	30	3	14	720
QRJ30T16RTA	30	3	16	437
QRJ30T16RTB	30	3	16	593
QRJ30T16RTC	30	3	16	739
QRJ30Q14RTA	30	4	14	435
QRJ30Q14RTB	30	4	14	655
QRJ30Q14RTC	30	4	14	785
QRJ30Q16RTA	30	4	16	517
QRJ30Q16RTB	30	4	16	673
QRJ30Q16RTC	30	4	16	819

Crane Blocks, 35 Tons

QRJ35S20RTA	35	1	20	528
QRJ35S20RTB	35	1	20	828
QRJ35S20RTC	35	1	20	1172
QRJ35D18RTA	35	2	18	530
QRJ35D18RTB	35	2	18	756
QRJ35D18RTC	35	2	18	894
QRJ35T12RTA	35	3	12	305
QRJ35T12RTB	35	3	12	425
QRJ35T12RTC	35	3	12	575
QRJ35T14RTA	35	3	14	430
QRJ35T14RTB	35	3	14	610
QRJ35T14RTC	35	3	14	774
QRJ35T16RTA	35	3	16	494
QRJ35T16RTB	35	3	16	650
QRJ35T16RTC	35	3	16	796
QRJ35T18RTA	35	3	18	662
QRJ35T18RTB	35	3	18	889
QRJ35T18RTC	35	3	18	1027
QRJ35Q14RTA	35	4	14	435
QRJ35Q14RTB	35	4	14	620

Crane Blocks, 35 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ35Q14RTC	35	4	14	818
QRJ35Q16RTA	35	4	16	580
QRJ35Q16RTB	35	4	16	735
QRJ35Q16RTC	35	4	16	881
QRJ35Q18RTA	35	4	18	916
QRJ35Q18RTB	35	4	18	1142
QRJ35Q18RTC	35	4	18	1280
QRJ35QN14RTA	35	5	14	560
QRJ35QN14RTB	35	5	14	740
QRJ35QN14RTC	35	5	14	900
QRJ35QN16RTA	35	5	16	655
QRJ35QN16RTB	35	5	16	810
QRJ35QN16RTC	35	5	16	956

Crane Blocks, 40 Tons

QRJ40D16RTA	40	2	16	425
QRJ40D16RTB	40	2	16	581
QRJ40D16RTC	40	2	16	727
QRJ40D18RTA	40	2	18	677
QRJ40D18RTB	40	2	18	900
QRJ40D18RTC	40	2	18	1044
QRJ40T16RTA	40	3	16	505
QRJ40T16RTB	40	3	16	661
QRJ40T16RTC	40	3	16	807
QRJ40T18RTA	40	3	18	788
QRJ40T18RTB	40	3	18	1014
QRJ40T18RTC	40	3	18	1152
QRJ40Q14RTA	40	4	14	500
QRJ40Q14RTB	40	4	14	720
QRJ40Q14RTC	40	4	14	885
QRJ40Q16RTA	40	4	16	600
QRJ40Q16RTB	40	4	16	756
QRJ40Q16RTC	40	4	16	902
QRJ40Q18RTA	40	4	18	916
QRJ40Q18RTB	40	4	18	1142
QRJ40Q18RTC	40	4	18	1280
QRJ40QN14RTA	40	5	14	570
QRJ40QN14RTB	40	5	14	750
QRJ40QN14RTC	40	5	14	915
QRJ40QN16RTA	40	5	16	666

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Crane Blocks, 40 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ40QN16RTB	40	5	16	821
QRJ40QN16RTC	40	5	16	967

Crane Blocks, 45 Tons

QRJ45T16RTA	45	3	16	505
QRJ45T16RTB	45	3	16	661
QRJ45T16RTC	45	3	16	887
QRJ45T18RTA	45	3	18	788
QRJ45T18RTB	45	3	18	1014
QRJ45T18RTC	45	3	18	1152
QRJ45T20RTA	45	3	20	869
QRJ45T20RTB	45	3	20	1169
QRJ45T20RTC	45	3	20	1513
QRJ45Q14RTA	45	4	14	520
QRJ45Q14RTB	45	4	14	720
QRJ45Q14RTC	45	4	14	885
QRJ45Q16RTA	45	4	16	600
QRJ45Q16RTB	45	4	16	756
QRJ45Q16RTC	45	4	16	902
QRJ45Q18RTA	45	4	18	916
QRJ45Q18RTB	45	4	18	1142
QRJ45Q18RTC	45	4	18	1280

Crane Blocks, 50 Tons

QRJ50T16RTA	50	3	16	566
QRJ50T16RTB	50	3	16	734
QRJ50T16RTC	50	3	16	896
QRJ50T18RTA	50	3	18	872
QRJ50T18RTB	50	3	18	1098
QRJ50T18RTC	50	3	18	1230
QRJ50T20RTA	50	3	20	949
QRJ50T20RTB	50	3	20	1250
QRJ50T20RTC	50	3	20	1594
QRJ50Q16RTA	50	4	16	767
QRJ50Q16RTB	50	4	16	942
QRJ50Q16RTC	50	4	16	1088
QRJ50Q18RTA	50	4	18	991
QRJ50Q18RTB	50	4	18	1217
QRJ50Q18RTC	50	4	18	1355
QRJ50Q20RTA	50	4	20	1087
QRJ50Q20RTB	50	4	20	1387

Crane Blocks, 50 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ50Q20RTC	50	4	20	1731
QRJ50QN14RTA	50	5	14	745
QRJ50QN14RTB	50	5	14	870
QRJ50QN14RTC	50	5	14	1090
QRJ50QN16RTA	50	5	16	843
QRJ50QN16RTB	50	5	16	998
QRJ50QN16RTC	50	5	16	1144
QRJ50SX14RTA	50	6	14	842
QRJ50SX14RTB	50	6	14	1023
QRJ50SX14RTC	50	6	14	1187
QRJ50SX16RTA	50	6	16	952
QRJ50SX16RTB	50	6	16	1113
QRJ50SX16RTC	50	6	16	1259

Crane Blocks, 55 Tons

QRJ55Q16RTA	55	4	16	787
QRJ55Q16RTB	55	4	16	942
QRJ55Q16RTC	55	4	16	1088
QRJ55Q18RTA	55	4	18	991
QRJ55Q18RTB	55	4	18	1217
QRJ55Q18RTC	55	4	18	1355
QRJ55Q20RTA	55	4	20	1087
QRJ55Q20RTB	55	4	20	1387
QRJ55Q20RTC	55	4	20	1731
QRJ55QN16RTA	55	5	16	843
QRJ55QN16RTB	55	5	16	998
QRJ55QN16RTC	55	5	16	1144
QRJ55QN18RTA	55	5	18	1264
QRJ55QN18RTB	55	5	18	1489
QRJ55QN18RTC	55	5	18	1627

Crane Blocks, 60 Tons

QRJ60Q16RTA	60	4	16	787
QRJ60Q16RTB	60	4	16	942
QRJ60Q16RTC	60	4	16	1088
QRJ60Q18RTA	60	4	18	991
QRJ60Q18RTB	60	4	18	1217
QRJ60Q18RTC	60	4	18	1355
QRJ60Q20RTA	60	4	20	1067
QRJ60Q20RTB	60	4	20	1387
QRJ60Q20RTC	60	4	20	1731
QRJ60QN16RTA	60	5	16	888
QRJ60QN16RTB	60	5	16	1044

Crane Blocks, 60 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ60QN16RTC	60	5	16	1190
QRJ60QN18RTA	60	5	18	1296
QRJ60QN18RTB	60	5	18	1522
QRJ60QN18RTC	60	5	18	1627

Crane Blocks, 65 Tons

QRJ65T18RTA	65	3	18	904
QRJ65T18RTB	65	3	18	1130
QRJ65T18RTC	65	3	18	1268
QRJ65T20RTA	65	3	20	982
QRJ65T20RTB	65	3	20	1282
QRJ65T20RTC	65	3	20	1626
QRJ65T24RTA	65	3	24	1180
QRJ65T24RTB	65	3	24	1884
QRJ65T24RTC	65	3	24	2539
QRJ65QN16RTA	65	5	16	888
QRJ65QN16RTB	65	5	16	1044
QRJ65QN16RTC	65	5	16	1190
QRJ65QN18RTA	65	5	18	1296
QRJ65QN18RTB	65	5	18	1522
QRJ65QN18RTC	65	5	18	1627
QRJ65SX16RTA	65	6	16	988
QRJ65SX16RTB	65	6	16	1149
QRJ65SX16RTC	65	6	16	1295
QRJ65SX18RTA	65	6	18	1398
QRJ65SX18RTB	65	6	18	1623
QRJ65SX18RTC	65	6	18	1787

Crane Blocks, 70 Tons

QRJ70Q16RTA	70	4	16	836
QRJ70Q16RTB	70	4	16	991
QRJ70Q16RTC	70	4	16	1187
QRJ70Q18RTA	70	4	18	1038
QRJ70Q18RTB	70	4	18	1264
QRJ70Q18RTC	70	4	18	1402
QRJ70Q20RTA	70	4	20	1135
QRJ70Q20RTB	70	4	20	1435
QRJ70Q20RTC	70	4	20	1779
QRJ70QN16RTA	70	5	16	888
QRJ70QN16RTB	70	5	16	1044
QRJ70QN16RTC	70	5	16	1190
QRJ70QN18RTA	70	5	18	1296

Crane Blocks, 70 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ70QN18RTB	70	5	18	1522
QRJ70QN18RTC	70	5	18	1660
QRJ70QN20RTA	70	5	20	1471
QRJ70QN20RTB	70	5	20	1770
QRJ70QN20RTC	70	5	20	2114
QRJ70SX16RTA	70	6	16	988
QRJ70SX16RTB	70	6	16	1149
QRJ70SX16RTC	70	6	16	1295
QRJ70SX18RTA	70	6	18	1390
QRJ70SX18RTB	70	6	18	1623
QRJ70SX18RTC	70	6	18	1787

Crane Blocks, 75 Tons

QRJ75T18RTA	75	3	18	904
QRJ75T18RTB	75	3	18	1130
QRJ75T18RTC	75	3	18	1268
QRJ75T20RTA	75	3	20	1190
QRJ75T20RTB	75	3	20	1492
QRJ75T20RTC	75	3	20	1836
QRJ75T24RTA	75	3	24	1372
QRJ75T24RTB	75	3	24	2077
QRJ75T24RTC	75	3	24	2375

Crane Blocks, 80 Tons

QRJ80Q20RTA	80	4	20	1254
QRJ80Q20RTB	80	4	20	1555
QRJ80Q20RTC	80	4	20	1899
QRJ80Q24RTA	80	4	24	1489
QRJ80Q24RTB	80	4	24	2192
QRJ80Q24RTC	80	4	24	2652
QRJ80QN16RTA	80	5	16	1225
QRJ80QN16RTB	80	5	16	1379
QRJ80QN16RTC	80	5	16	1526
QRJ80QN18RTA	80	5	18	1425
QRJ80QN18RTB	80	5	18	1650
QRJ80QN18RTC	80	5	18	1815
QRJ80QN20RTA	80	5	20	1485
QRJ80QN20RTB	80	5	20	1785
QRJ80QN20RTC	80	5	20	2129
QRJ80SX16RTA	80	6	16	1241
QRJ80SX16RTB	80	6	16	1401
QRJ80SX16RTC	80	6	16	1547

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Crane Blocks, 80 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ80SX18RTA	80	6	18	1562
QRJ80SX18RTB	80	6	18	1787
QRJ80SX18RTC	80	6	18	1965

Crane Blocks, 90 Tons

QRJ90QN20RTA	90	5	20	1828
QRJ90QN20RTB	90	5	20	2128
QRJ90QN20RTC	90	5	20	2472
QRJ90QN24RTA	90	5	24	2188
QRJ90QN24RTB	90	5	24	2892
QRJ90QN24RTC	90	5	24	3354
QRJ90SX18RTA	90	6	18	1718
QRJ90SX18RTB	90	6	18	1943
QRJ90SX18RTC	90	6	18	2107
QRJ90SX20RTA	90	6	20	2130
QRJ90SX20RTB	90	6	20	2431
QRJ90SX20RTC	90	6	20	2775

Crane Blocks, 100 Tons

QRJ100QN20RTA	100	5	20	1828
QRJ100QN20RTB	100	5	20	2128
QRJ100QN20RTC	100	5	20	2472
QRJ100QN24RTA	100	5	24	2188
QRJ100QN24RTB	100	5	24	2892
QRJ100QN24RTC	100	5	24	3354
QRJ100SX18RTA	100	6	18	1718
QRJ100SX18RTB	100	6	18	1943
QRJ100SX18RTC	100	6	18	2107
QRJ100SX20RTA	100	6	20	2130
QRJ100SX20RTB	100	6	20	2431
QRJ100SX20RTC	100	6	20	2775
QRJ100SV18RTA	100	7	18	1905
QRJ100SV18RTB	100	7	18	2117
QRJ100SV18RTC	100	7	18	2280
QRJ100SV20RTA	100	7	20	2482
QRJ100SV20RTB	100	7	20	2600
QRJ100SV20RTC	100	7	20	3150
QRJ100OCT18RTA	100	8	18	2194
QRJ100OCT18RTB	100	8	18	2350
QRJ100OCT18RTC	100	8	18	2560
QRJ100OCT20RTA	100	8	20	2606

Crane Blocks, 100 Tons (continued)

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (in.)	Weight (Lbs.)
QRJ100OCT20RTB	100	8	20	2724
QRJ100OCT20RTC	100	8	20	3274

Crane Blocks, 130 Tons

QRJ130SV18RTA	130	7	18	2175
QRJ130SV18RTB	130	7	18	2412
QRJ130SV18RTC	130	7	18	2550

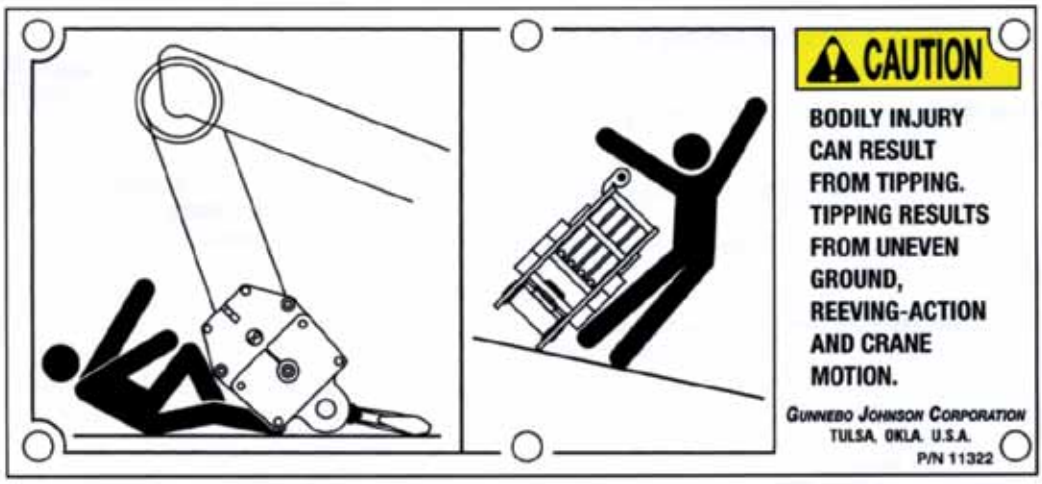
Crane Blocks, 140 Tons

QRJ140SV18RTA	140	7	18	2175
QRJ140SV18RTB	140	7	18	2412
QRJ140SV18RTC	140	7	18	2550
QRJ140SV20RTA	140	7	20	2785
QRJ140SV20RTB	140	7	20	3097
QRJ140SV20RTC	140	7	20	3441
QRJ140NI18RTA	140	9	18	2532
QRJ140NI18RTB	140	9	18	2820
QRJ140NI18RTC	140	9	18	2957
QRJ140NI20RTA	140	9	20	2994
QRJ140NI20RTB	140	9	20	3306
QRJ140NI20RTC	140	9	20	3650

"Quick Reeve" Product Advisory

AVOID BODILY INJURY. Read and understand this safety advisory before attempting to install or remove wire rope from a Gunnebo Johnson Corporation Model QRJ "Quick Reeve" block.

This advisory is intended for the attention of all "Quick Reeve" Crane Block users and should be forwarded to the field with the product.



This advisory is a **CAUTION** concerning the potential for **BODILY INJURY** resulting from tipping of the "Quick Reeve" Crane Block during crane to block reeving. Crane block tipping can result from uneven ground, reeving action and crane motion.

The Gunnebo Johnson Corporation "Quick Reeve" Crane Block is stable, when positioned and reeved, in accordance with the following instructions.

Contact the factory at 1-800-331-5460 with any questions or for additional copies of this safety advisory.
P/N 51695, Rev. C Form PSA-1, Rev. 01/08

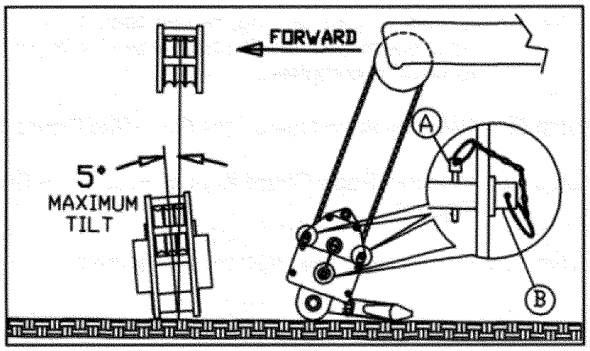


Figure 1

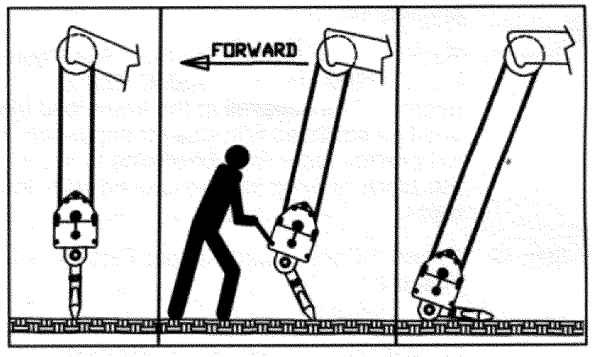


Figure 2 Figure 3 Figure 4

P/N 51695, Rev. C
Form PSA-1, Rev. 02/06

WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

"Quick Reeve" Crane Block Reeving Instructions

Wire Rope installation

Step 1. Lower crane boom to horizontal position and engage crane swing lock.
Caution: Crane swing motion during wire rope installation can cause tipping of the "Quick Reeve" block

Step 2. Insure ground support is firm and level within 5".
Caution: Soft or uneven ground may lead to tipping of the "Quick Reeve" block.

Step 3. Place "Quick Reeve" block in the folded position in line and forward of the boom as illustrated in Figure 1.
Caution: Improper placement will produce reeving forces that can cause tipping of the block.

Step 4. Remove Rope Guard Keeper Pins at (A). – See Figure 1.

Step 5. Retract Rope Guard Pins (B) – See Figure 1.

Step 6. See crane manufacturer's instructions to retract boom sheave guards.

Step 7. Pull wire rope from the hoist drum and pass wire rope over the first boom and block sheave, then over the second boom sheave. Insure lead line pull is always against the boom and never against the block.
Caution: Lead line pull applied against block may cause tipping of the block. Avoid injury. Never stand on block.

Step 8. If multiple part reeving, repeat step no. 7 for the next boom and block sheave until reeving is complete.

Step 9. Install wedge socket on wire rope if not already installed.

Step 10. Install wedge socket to boom or block dead end connection. Insure connecting pin keeper is properly installed.

Step 11. Reinstall Rope Guard Pins (B) – See Figure 1. Note: OSHA invokes ASME B 30.5, which requires "The sheaves in the lower load block shall be equipped with close-fitting guards that will prevent ropes from becoming fouled when the block is lying on the ground with loose ropes."

Step 12. Reinstall Rope Guard Keeper PINS (A) – See Figure 1.

Step 13. See crane manufacturer's instructions to reinstall boom sheave wire rope guards.

Step 14. Lift block to hanging position by raising boom.
Caution: Stand clear while lifting block off the ground.

Wire Rope Removal

Step 1. Lower crane boom to horizontal position and engage upper swing lock.
Caution: Crane swing motion during wire rope removal may cause tipping of block.

Step 2. Insure ground support is firm and level within 5".
Caution: Soft or uneven ground may lead to tipping of the block.

Step 3. Rotate hook into position as shown in Figure 2.

Step 4. Lower "Quick Reeve" block with hoist drum until hook touches ground – See figure 2.

Step 5. Use a tagline to pull block forward and lower boom simultaneously to start block folding. See Figure 3.

Step 6. Continue to pull block forward and lower boom until block rests on ground in folded position. See Figure 4.

Step 7. Remove Rope Guard Keeper Pins (A). – See Figure 1.

Step 8. Retract Rope Guard Keeper Pins (B). – See Figure 1.

Step 9. See crane manufacturer's instructions to retract boom sheave guards.

Step 10. Disassemble wedge socket from dead end connection.

Step 11. Pull wire rope and wedge socket around first block and boom sheave.
Caution: Avoid possible injury. Do not allow wedge socket to fall from boom sheave and never stand on block.

Step 12. If multiple part reeving, repeat Step 11 for the next boom and block sheave until wire rope removal is complete.

Step 13. Reinstall Rope Guard Pins (B). – See Figure 1.

Step 14. Reinstall Rope Guard Keeper Pins (A). – See Figure 1.

Step 15. Proceed with next rigging arrangement.

NOTES:

Scrap Handling Blocks

GUNNEBO
Industries

Scrap Handling Blocks

The Johnson Crane Block is designed for Scrap Handling applications, "Magnet and Dropball use."

Available in sizes ranging from 15 to 30 tons. Sheave O.D.'s ranging from 16 to 24 inches. Other Sheave O.D.'s and tonnage capabilities available upon request.

Lager Sheave Hub and Bronze Bushing for extended block life.

Swivel/Swing Hook with safety latch.

Gunnebo Johnson developed a tough and specialized block for magnet and drop ball service. As possibly one of the severest applications in lifting, it also demands a long service life and trouble free operation from the blocks.

Using a robust and large bronze bushing extends block life. Powerful ForgeFab sheaves with oversized hubs and flame hardened rope wear paths assure reliability. Exclusive heavy duty rope guides keep the rope in contact and protect the sheave flanges. Thickened side plates resist deformation and other impact damage. Alloy steel forged hooks with the heavy duty J-Latch keep the blocks working for years of trouble free service. All these features are standard.

Optional Equipment

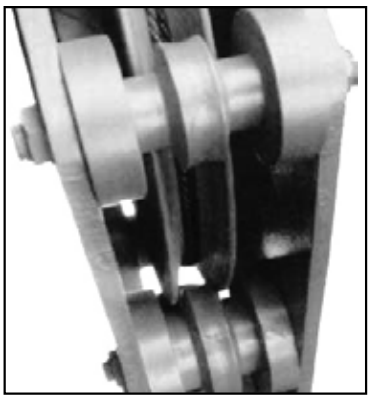
Swivel tee and shackle

Anti-corrosion coatings

Proof load test

Larger, custom sizes

For crane block warnings and use limitations see pages 76-77



Newly designed rope guides maintain the rope position.

Options Include:

- Swivel Tee and Shackle Assembly.
- Hook Anti-rotation Locking Device.
- Anti-corrosion coating

Model number	Working Load Limit (US tons)	Number of Sheaves	Sheave Diameter (IN.)	Weight (LBS.)
SJ15S16BTA	15	1	16	216
SJ20S18BTA	20	1	18	389
SJ25S20BTA	25	1	20	434
SJ30S24BTA	30	1	24	548

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Overhaul Balls

GUNNEBO
Industries

Overhaul Balls

Introduction, Features, Benefits 92-94
Midget Non-Swiveling Overhaul Balls Type 4 95
Midget Swiveling Overhaul Balls Type 4 and 7 96
Bottom Swivel Overhaul Balls/Type 3 ..... 97 - 103
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Overhaul Ball Warnings and Use Limitations ..... 108 - 109

Overhaul Balls

Gunnebo Johnson overhaul balls are used in crane applications to supply downhaul weight required to lower unloaded fast lines. To meet virtually all field applications, standard overhaul balls are offered in a range of over two-hundred-forty models, from 3 to 30 tons, and from 35 to 1500 pounds.

Swivel models utilize Gunnebo Johnson thrust bearing swivels, with easliy accessible lubrication fittings. All models can be used with multiple sizes of wire rope, utilizing Johnson flexible-size wedge sockets.

MIdget Non-Swiveling Overhaul Balls

Small and economical, these husky units are ideal for low tonnage applications. Both 3 and 5 ton WLL capacities are available for top performance in lifting and downfall speeds. Weights from only 3 pounds up to 49 pounds are available.

Midget Swiveling Overhaul Balls

Gunnebo Johnson midget swiveling models have an advantage in size, as they are usually short in overall length. The basic eye-top model is just 13-1/2 inches long, for tight fit applications. A jaw-top is also available, utilizing a pin connection.

Top Swivel Overhaul Balls

Gunnebo Johnson introduced this versatile style over forty years ago, providing more easily accessible upper fittings. Top swiveling models allow the rope and just the top fitting to rotate, facilitating positioning of the hook and load.

This style has become so popular that over 130 models are now offered, from 40 pounds to 1500 pounds, and from 4 tons WLL to 30 tons WLL. This style is also available with the world-famous Gunnebo self-locking BK hook.

Bottom Swivel Overhaul Balls

The original style overhaul ball, it is known for exceptional compactness. From 25 to 30% shorter than other styles, it is outstanding in tight lifting applications. The swivel and wedge socket are almost completely enclosed in the ball assembly to achieve the compact profile frequently needed for close-in construction work.

Split Ball Assemblies

Split ball assemblies are available to easily and quickly add overhaul weight directly on the wire rope. A 50 pound assembly is available for 1/2”and 5/8” rope, and a 100-pound assembly is available for 5/8”, 3/4” and 7/8” rope.

Overhaul Balls and Pins

Replacement and substitute assemblies are available. From 40 to 1200 pounds per assembly, the ball and pin can be changed out to change the existing ball weight or to replace damaged parts. Please contact Gunnebo Johnson Customer Service for assistance in obtaining the correct assemblies as follows:

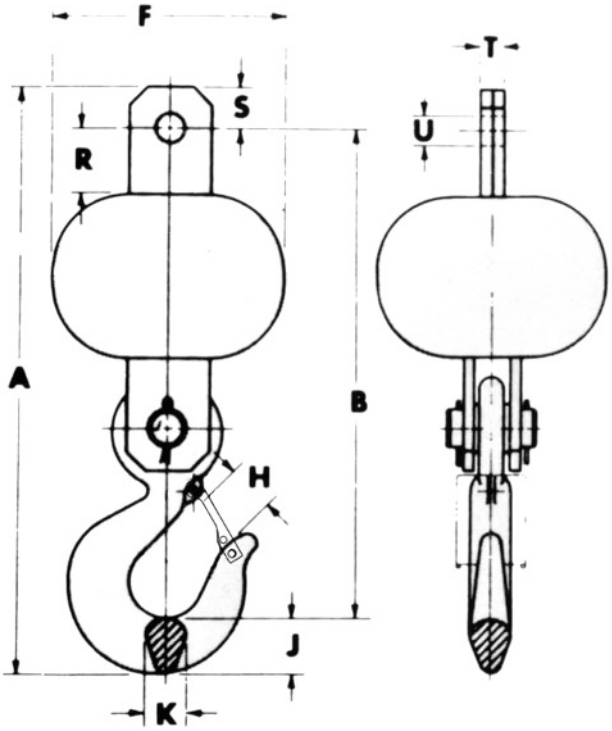
1-800-331-5460
918-832-8933
sales@gjcorp.com

Midget Non-Swiveling Overhaul Balls Type 4

3 and 5-ton capacities
4 to 1 design factor
36 through 49 lbs. weight

For overhaul ball warnings and use limitations see pages 108-109

Type 4 Overhaul Ball



Key to Midget Non-Swiveling Overhaul Ball Model Numbers

OB — Overhaul Ball

3 — Working Load Limit (US Tons)

35 — Ball weight only

4 — Type

To order, please specify:

- **Model Number**

"J" LATCH STANDARD

Type 4 Midget Non-Swiveling Overhaul Balls

Model	Working Load Limit (US Tons)	Wt. LBS.	A Overall Length	B Net Length	F Ball Dia.	H (w/Latch) Throat Opening	J Hook Thickness	K Hook Width	R Pin to Obstruction	S Pin to End of Fitting	T Thickness of Eye	U Hole Dia.
OB 3 35-4	3	35	15.61	13.01	6.25	1.1	1.44	1.12	1.74	1.16	0.66	1.03
OB 5 35-4	5	43	16.01	13.01	6.25	1.1	1.44	1.12	1.74	1.56	1.16	1.28

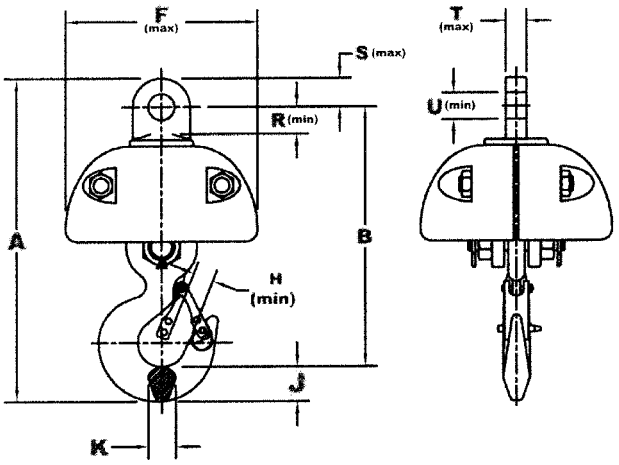
⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Midget Swiveling Overhaul Balls Type 4 and 7

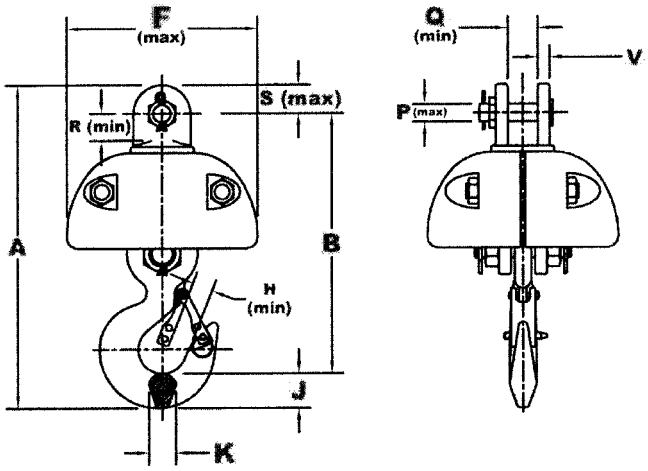
3 ton capacity
4 to 1 design factor
39 through 42 lbs. weight

For overhaul ball warnings and use limitations see pages 108-109

Type 4



Type 7



Key to Midget Swiveling Overhaul Ball Model Numbers

OB — Overhaul Ball

3JEM — Swivel model

28 — Ball weight only

4 — Type

To order, please specify:

- **Model Number**

"J" LATCH STANDARD

Type 4 and 7 Midget Swiveling Overhaul Balls

Model	WLL	WT. LBS.	A Overall Length	B Net Length	F Ball Dia.	H Throat Opening With Latch	J Hook Thickness	K Hook Width	P Pin Dia.	Q Pin to End of Fitting	R Pin to Obstruction	S Pin to End of Fitting	T Thick-ness of Eye	U Hole Dia.	V Ear Thickness
OB-3JEM-28-4	3	38	13.31	10.65	7.94	1.1	1.44	1.12	-	-	1.23	1.22	0.91	1.03	-
OB-3JJM-28-7	3	38	13.55	10.9	7.94	1.1	1.44	1.12	1	0.97	1.08	1.22	-	-	0.5

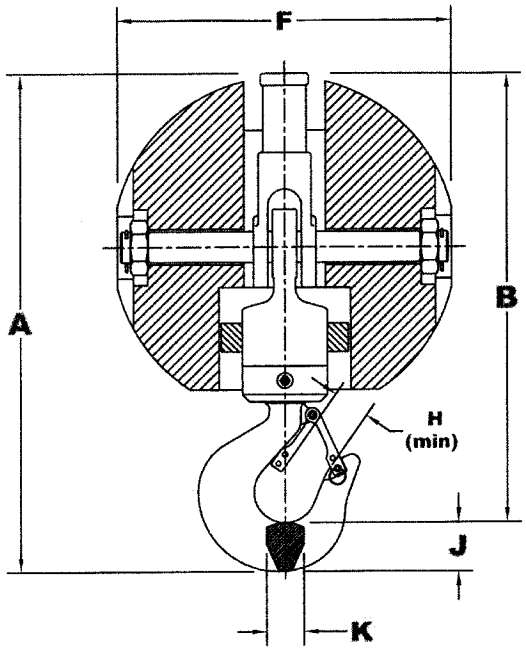
⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

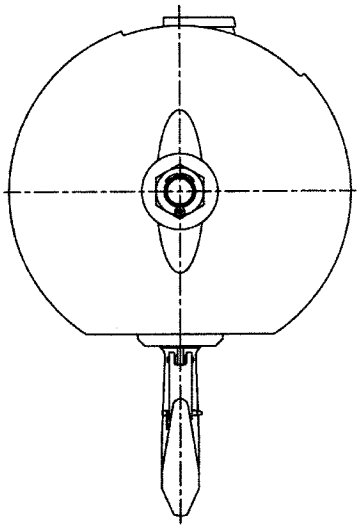
Type 3 Overhaul Ball ratings are limited by wire rope size, and will be reduced in some cases of smaller rope size. Please check the rope WLL in the wedge socket for the limiting rating. Contact Gunnebo Johnson or the rope manufacturer if in doubt

Bottom Swivel Overhaul Balls/Type 3

3 through 30-ton capacities
4 to 1 design factor
52 through 1,261 lbs. weight

For overhaul ball warnings and use limitations see pages 108-109





Key to Bottom Swivel Type 3 Overhaul Ball Model Numbers

OB	3EH	85	3	WS4	1/2"
Overhaul Ball	Swivel Model	Ball weight only	Type	Wedge Socket No.	Wire rope size

"J" LATCH STANDARD

To order, please specify:

- **Model Number**
- **Wedge Socket Number**
- **Exact Wire Rope Size**

Type 3 Overhaul Balls, 3 tons

Model no.	Wedge Socket No.	Wire Rope Size	Working Load Limit (US Tons)	Wt. LBS.	A Overall Length	B Net Length	F Ball Dia.	H Throat Opening With Latch	J Hook Thickness	K Hook Width
OB3EH35-3	WS-4	3/8	3	52	17.6	16.1	7.5	1.12	1.48	1.12
OB3EH35-3	WS-4	7/16	3	52	17.6	16.1	7.5	1.12	1.48	1.12
OB3EH35-3	WS-4	1/2	3	52	17.6	16.1	7.5	1.12	1.48	1.12
OB3EH35-3	WS-5	1/2	3	57	19.5	18	7.5	1.12	1.48	1.12
OB3EH35-3	WS-5	9/16	3	57	19.5	18	7.5	1.12	1.48	1.12
OB3EH35-3	WS-5	5/8	3	57	19.5	18	7.5	1.12	1.48	1.12

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Type 3 Overhaul Balls, 3 tons (continued)

Model no.	Wedge Socket No.	Wire Rope Size	Working Load Limit (US Tons)	Wt. LBS.	A Overall Length	B Net Length	F Ball Dia.	H Throat Opening With Latch	J Hook Thickness	K Hook Width
OB3EH35-3	WS-6	5/8	3	59	19.5	18	7.5	1.12	1.48	1.12
OB3EH35-3	WS-6	3/4	3	59	19.5	18	7.5	1.12	1.48	1.12
OB3EH85-3	WS-5	1/2	3	94	19.5	18	9.5	1.12	1.48	1.12
OB3EH85-3	WS-5	9/16	3	94	19.5	18	9.5	1.12	1.48	1.12
OB3EH85-3	WS-5	5/8	3	94	19.5	18	9.5	1.12	1.48	1.12
OB3EH85-3	WS-6	5/8	3	99	19.5	18	9.5	1.12	1.48	1.12
OB3EH85-3	WS-6	3/4	3	99	19.5	18	9.5	1.12	1.48	1.12
OB3EH85-3	WS-7	7/8	3	104	21.7	20.2	9.5	1.12	1.48	1.12
OB3EH85-3	WS-7	1	3	104	21.7	20.2	9.5	1.12	1.48	1.12
OB3EH150-3	WS-5	1/2	3	165	19.5	18	11.3	1.12	1.48	1.12
OB3EH150-3	WS-5	9/16	3	165	19.5	18	11.3	1.12	1.48	1.12
OB3EH150-3	WS-5	5/8	3	165	19.5	18	11.3	1.12	1.48	1.12

Type 3 Overhaul Balls, 5 tons

OB5EH35-3	WS-4	3/8	4.1	50	17.9	16.4	7.5	1.12	1.48	1.12
OB5EH35-3	WS-4	7/16	4.1	50	17.9	16.4	7.5	1.12	1.48	1.12
OB5EH35-3	WS-4	1/2	4.1	50	17.9	16.4	7.5	1.12	1.48	1.12
OB5EH35-3	WS-5	1/2	5	57	19.8	18.3	7.5	1.12	1.48	1.12
OB5EH35-3	WS-5	9/16	5	57	19.8	18.3	7.5	1.12	1.48	1.12
OB5EH35-3	WS-5	5/8	5	57	19.8	18.3	7.5	1.12	1.48	1.12
OB5EH35-3	WS-6	5/8	5	60	19.8	18.4	7.5	1.12	1.48	1.12
OB5EH35-3	WS-6	3/4	5	60	19.8	18.4	7.5	1.12	1.48	1.12
OB5EH85-3	WS-5	1/2	5	94	19.8	18.3	9.5	1.12	1.48	1.12
OB5EH85-3	WS-5	9/16	5	94	19.8	18.3	9.5	1.12	1.48	1.12
OB5EH85-3	WS-5	5/8	5	94	19.8	18.3	9.5	1.12	1.48	1.12
OB5EH85-3	WS-6	5/8	5	100	19.8	18.4	9.5	1.12	1.48	1.12
OB5EH85-3	WS-6	3/4	5	100	19.8	18.4	9.5	1.12	1.48	1.12
OB5EH85-3	WS-7	7/8	5	105	22	20.6	9.5	1.12	1.48	1.12
OB5EH85-3	WS-7	1	5	105	22	20.6	9.5	1.12	1.48	1.12
OB5EH150-3	WS-5	1/2	5	166	19.8	18.3	11.3	1.12	1.48	1.12
OB5EH150-3	WS-5	9/16	5	166	19.8	18.3	11.3	1.12	1.48	1.12
OB5EH150-3	WS-5	5/8	5	166	19.8	18.3	11.3	1.12	1.48	1.12
OB5EH150-3	WS-6	5/8	5	166	19.8	18.4	11.3	1.12	1.48	1.12
OB5EH150-3	WS-6	3/4	5	166	19.8	18.4	11.3	1.12	1.48	1.12
OB5EH150-3	WS-7	7/8	5	171	22	20.6	11.3	1.12	1.48	1.12
OB5EH150-3	WS-7	1	5	171	22	20.6	11.3	1.12	1.48	1.12
OB5EH200-3	WS-5	1/2	5	196	19.8	18.3	12	1.12	1.48	1.12
OB5EH200-3	WS-5	9/16	5	196	19.8	18.3	12	1.12	1.48	1.12
OB5EH200-3	WS-5	5/8	5	196	19.8	18.3	12	1.12	1.48	1.12
OB5EH200-3	WS-6	5/8	5	206	19.8	18.4	12	1.12	1.48	1.112
OB5EH200-3	WS-6	3/4	5	206	19.8	18.4	12	1.12	1.48	1.12
OB5EH200-3	WS-7	7/8	5	210	22	20.6	12	1.12	1.48	1.12
OB5EH200-3	WS-7	1	5	210	22	20.6	12	1.12	1.48	1.12

Type 3 Overhaul Balls, 7 tons

OB7EH35-3	WS-4	3/8	4.1	55	18.9	17.1	7.5	1.39	1.81	1.38
OB7EH35-3	WS-4	7/16	4.1	55	18.9	17.1	7.5	1.39	1.81	1.38

Type 3 Overhaul Balls, 7 tons (continued)

Model no.	Wedge Socket No.	Wire Rope Size	Working Load Limit (US Tons)	Wt. LBS.	A Overall Length	B Net Length	F Ball Dia.	H Throat Opening With Latch	J Hook Thickness	K Hook Width
OB7EH35-3	WS-4	1/2	4.1	55	18.9	17.1	7.5	1.39	1.81	1.38
OB7EH35-3	WS-5	1/2	6.4	55	20.8	19	7.5	1.39	1.81	1.38
OB7EH35-3	WS-5	9/16	6.4	55	20.8	19	7.5	1.39	1.81	1.38
OB7EH35-3	WS-5	5/8	6.4	55	20.8	19	7.5	1.39	1.81	1.38
OB7EH35-3	WS-6	5/8	7	58	20.9	19.1	7.5	1.39	1.81	1.38
OB7EH35-3	WS-6	3/4	7	58	20.9	19.1	7.5	1.39	1.81	1.38
OB7EH35-3	WS-7	7/8	7	67	23.1	21.3	7.5	1.39	1.81	1.38
OB7EH85-3	WS-7	1	7	67	23.1	21.3	7.5	1.39	1.81	1.38
OB7EH85-3	WS-5	1/2	6.4	94	20.8	19	9.5	1.39	1.81	1.38
OB7EH85-3	WS-5	9/16	6.4	94	20.8	19	9.5	1.39	1.81	1.38
OB7EH85-3	WS-5	5/8	6.4	94	20.8	19	9.5	1.39	1.81	1.38
OB7EH85-3	WS-6	5/8	7	101	20.9	19.1	9.5	1.39	1.81	1.38
OB7EH85-3	WS-6	3/4	7	101	20.9	19.1	9.5	1.39	1.81	1.38
OB7EH85-3	WS-7	7/8	7	106	23.1	21.3	9.5	1.39	1.81	1.38
OB7EH85-3	WS-7	1	7	106	23.1	21.3	9.5	1.39	1.81	1.38
OB7EH150-3	WS-5	1/2	6.4	167	20.8	19	11.3	1.39	1.81	1.38
OB7EH150-3	WS-5	9/16	6.4	167	20.8	19	11.3	1.39	1.81	1.38
OB7EH150-3	WS-5	5/8	6.4	167	20.8	19	11.3	1.39	1.81	1.38
OB7EH150-3	WS-6	5/8	7	168	20.9	19.1	11.3	1.39	1.81	1.38
OB7EH150-3	WS-6	3/4	7	168	20.9	19.1	11.3	1.39	1.81	1.38
OB7EH150-3	WS-7	7/8	7	174	23	21.3	11.3	1.39	1.81	1.38
OB7EH150-3	WS-7	1	7	174	23	21.3	11.3	1.39	1.81	1.38
OB7EH200-3	WS-5	1/2	6.4	206	20.8	19	12	1.39	1.81	1.38
OB7EH200-3	WS-5	9/16	6.4	206	20.8	19	12	1.39	1.81	1.38
OB7EH200-3	WS-5	5/8	6.4	206	20.8	19	12	1.39	1.81	1.38
OB7EH200-3	WS-6	5/8	7	200	20.9	19.1	12	1.39	1.81	1.38
OB7EH200-3	WS-6	3/4	7	200	20.9	19.1	12	1.39	1.81	1.38
OB7EH200-3	WS-7	7/8	7	212	23.1	21.3	12	1.39	1.81	1.38
OB7EH200-3	WS-7	1	7	212	23.1	21.3	12	1.39	1.81	1.38

Type 3 Overhaul Balls, 9 tons

OB9EH85-3	WS-5	1/2	6.4	112	23.8	21.3	9.5	1.91	2.53	1.93
OB9EH85-3	WS-5	9/16	6.4	112	23.8	21.3	9.5	1.91	2.53	1.93
OB9EH85-3	WS-5	5/8	6.4	112	23.8	21.3	9.5	1.91	2.53	1.93
OB9EH85-3	WS-6	5/8	9	114	23.9	21.3	9.5	1.91	2.53	1.93
OB9EH85-3	WS-6	3/4	9	114	23.9	21.3	9.5	1.91	2.53	1.93
OB9EH85-3	WS-7	7/8	9	123	26.1	23.5	9.5	1.91	2.53	1.93
OB9EH85-3	WS-7	1	9	123	26.1	23.5	9.5	1.91	2.53	1.93
OB9EH150-3	WS-5	1/2	6.4	184	23.8	21.3	11.3	1.91	2.53	1.93
OB9EH150-3	WS-5	9/16	6.4	184	23.8	21.3	11.3	1.91	2.53	1.93
OB9EH150-3	WS-5	5/8	6.4	184	23.8	21.3	11.3	1.91	2.53	1.93
OB9EH150-3	WS-6	5/8	9	184	23.9	21.3	11.3	1.91	2.53	1.93
OB9EH150-3	WS-6	3/4	9	184	23.9	21.3	11.3	1.91	2.53	1.93
OB9EH150-3	WS-7	7/8	9	189	26.1	23.5	11.3	1.91	2.53	1.93
OB9EH150-3	WS-7	1	9	189	26.1	23.5	11.3	1.91	2.53	1.93
OB9EH200-3	WS-5	1/2	6.4	223	23.8	21.3	12	1.91	2.53	1.93
OB9EH200-3	WS-5	9/16	6.4	223	23.8	21.3	12	1.91	2.53	1.93

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Type 3 Overhaul Balls, 9 tons (continued)

Model no.	Wedge Socket No.	Wire Rope Size	Working Load Limit (US Tons)	Wt. LBS.	A Overall Length	B Net Length	F Ball Dia.	H Throat Opening With Latch	J Hook Thickness	K Hook Width
OB9EH200-3	WS-5	5/8	6.4	223	23.8	21.3	12	1.91	2.53	1.93
OB9EH200-3	WS-6	5/8	9	224	23.9	21.3	12	1.91	2.53	1.93
OB9EH200-3	WS-6	3/4	9	224	23.9	21.3	12	1.91	2.53	1.93
OB9EH200-3	WS-7	7/8	9	229	26.1	23.5	12	1.91	2.53	1.93
OB9EH200-3	WS-7	1	9	229	26.1	23.5	12	1.91	2.53	1.93
OB9EH350-3	WS-10	1-1/8	9	416	29.8	27.3	14.5	1.91	2.53	1.93
OB9EH350-3	WS-10	1-1/4	9	416	29.8	27.3	14.5	1.91	2.53	1.93
OB9EH350-3	WS-8	7/8	9	382	26.1	23.5	14.5	1.91	2.53	1.93
OB9EH350-3	WS-8	1	9	382	26.1	23.5	14.5	1.91	2.53	1.93
OB9EH350-3	WS-8A	5/8	9	387	25.7	23.2	14.5	1.91	2.53	1.93
OB9EH350-3	WS-8A	3/4	9	387	25.7	23.2	14.5	1.91	2.53	1.93

Type 3 Overhaul Balls, 12 tons

0B12EH85-3	WS-5	1/2	6.4	121	24.1	21.6	9.5	1.91	2.53	1.93
0B12EH85-3	WS-5	9/16	6.4	121	24.1	21.6	9.5	1.91	2.53	1.93
0B12EH85-3	WS-5	5/8	6.4	121	24.1	21.6	9.5	1.91	2.53	1.93
0B12EH85-3	WS-6	5/8	9.22	125	24.2	21.7	9.5	1.91	2.53	1.93
0B12EH85-3	WS-6	3/4	9.2	125	24.2	21.7	9.5	1.91	2.53	1.93
0B12EH85-3	WS-7	7/8	12	130	26.4	23.9	9.5	1.91	2.53	1.93
0B12EH85-3	WS-7	1	12	130	26.4	23.9	9.5	1.91	2.53	1.93
OB12EH150-3	WS-5	1/2	6.4	191	24.1	21.6	11.3	1.91	2.53	1.93
OB12EH150-3	WS-5	9/16	6.4	191	24.1	21.6	11.3	1.91	2.53	1.93
OB12EH150-3	WS-5	5/8	6.4	191	24.1	21.6	11.3	1.91	2.53	1.93
OB12EH150-3	WS-6	5/8	9.2	192	24.2	21.7	11.3	1.91	2.53	1.93
OB12EH150-3	WS-6	3/4	9.2	192	24.2	21.7	11.3	1.91	2.53	1.93
OB12EH150-3	WS-7	7/8	12	197	26.4	23.9	11.3	1.91	2.53	1.93
OB12EH150-3	WS-7	1	12	197	26.4	23.9	11.3	1.91	2.53	1.93
OB12EH200-3	WS-5	1/2	6.4	230	24.1	21.6	12	1.91	2.53	1.93
OB12EH200-3	WS-5	9/16	6.4	230	24.1	21.6	12	1.91	2.53	1.93
OB12EH200-3	WS-5	5/8	6.4	230	24.1	21.6	12	1.91	2.53	1.93
OB12EH200-3	WS-6	5/8	9.2	231	24.2	21.7	12	1.91	2.53	1.93
OB12EH200-3	WS-6	3/4	9.2	231	24.2	21.7	12	1.91	2.53	1.93
OB12EH200-3	WS-7	7/8	12	235	26.4	23.9	12	1.91	2.53	1.93
OB12EH200-3	WS-7	1	12	235	26.4	23.9	12	1.91	2.53	1.93
OB12EH350-3	WS-10	1-1/8	12	423	30.1	27.6	14.5	1.91	2.53	1.93
OB12EH350-3	WS-10	1-1/4	12	423	30.1	27.6	14.5	1.91	2.53	1.93
OB12EH350-3	WS-8	7/8	12	391	26.4	23.9	14.5	1.91	2.53	1.93
OB12EH350-3	WS-8	1	12	391	26.4	23.9	14.5	1.91	2.53	1.93
OB12EH350-3	WS-8A	5/8	9.2	394	26	23.5	14.5	1.91	2.53	1.93
OB12EH350-3	WS-8A	3/4	9.2	394	26	23.5	14.5	1.91	2.53	1.93
OB12EH650-3	WS-10	1-1/8	12	714	30.1	27.6	17.9	1.91	2.53	1.93
OB12EH650-3	WS-10	1-1/4	12	714	30.1	27.6	17.9	1.91	2.53	1.93
OB12EH650-3	WS-8	7/8	12	686	26.5	23.9	17.9	1.91	2.53	1.93
OB12EH650-3	WS-8	1	12	686	26.4	23.9	17.9	1.91	2.53	1.93
OB12EH650-3	WS-8A	1/2	9.2	685	26	23.5	17.9	1.91	2.53	1.93
OB12EH1150-3	WS-10	1-1/8	12	1184	30.1	27.6	21.6	1.91	2.53	1.93
OB12EH1150-3	WS-10	1-1/4	12	1184	30.1	27.6	21.6	1.91	2.53	1.93

Type 3 Overhaul Balls, 12 tons (continued)

Model no.	Wedge Socket No.	Wire Rope Size	Working Load Limit (US Tons)	Wt. LBS.	A Overall Length	B Net Length	F Ball Dia.	H Throat Opening With Latch	J Hook Thickness	K Hook Width
OB12EH1150-3	WS-8	7/8	12	1157	26.4	23.9	21.6	1.91	2.53	1.93
OB12EH1150-3	WS-8	1	12	1157	26.4	23.9	21.6	1.91	2.53	1.93
OB12EH1150-3	WS-8A	5/8	9.2	1155	26	23.5	21.6	1.91	2.53	1.93

Type 3 Overhaul Balls, 15 tons

OB15EHH85-3	WS-5	1/2	6.4	120	24.1	21.6	9.5	1.91	2.53	1.93
OB15EHH85-3	WS-5	9/16	6.4	120	24.1	21.6	9.5	1.91	2.53	1.93
OB15EHH85-3	WS-5	5/8	6.4	120	24.1	21.6	9.5	1.91	2.53	1.93
OB15EHH85-3	WS-6	5/8	9.2	122	24.2	21.7	9.5	1.91	2.53	1.93
OB15EHH85-3	WS-6	3/4	9.2	122	24.2	21.7	9.5	1.91	2.53	1.93
OB15EHH85-3	WS-7	7/8	15	130	26.4	23.9	9.5	1.91	2.53	1.93
OB15EHH85-3	WS-7	1	15	130	26.4	23.9	9.5	1.91	2.53	1.93
OB15EH150-3	WS-5	1/2	6.4	188	24.1	21.6	11.3	1.91	2.53	1.93
OB15EH150-3	WS-5	9/16	6.4	188	24.1	21.6	11.3	1.91	2.53	1.93
OB15EH150-3	WS-5	5/8	6.4	188	24.1	21.6	11.3	1.91	2.53	1.93
OB15EH150-3	WS-6	5/8	9.2	192	24.2	21.7	11.3	1.91	2.53	1.93
OB15EH150-3	WS-6	3/4	9.2	192	24.2	21.7	11.3	1.91	2.53	1.93
OB15EH150-3	WS-7	7/8	15	197	26.4	23.9	11.3	1.91	2.53	1.93
OB15EH150-3	WS-7	1	15	197	26.4	23.9	11.3	1.91	2.53	1.93
OB15EH200-3	WS-5	1/2	6.4	230	24.1	21.6	12	1.91	2.53	1.93
OB15EH200-3	WS-5	9/16	6.4	230	24.1	21.6	12	1.91	2.53	1.93
OB15EH200-3	WS-5	5/8	6.4	230	24.1	21.6	12	1.91	2.53	1.93
OB15EH200-3	WS-6	5/8	9.2	231	24.2	21.7	12	1.91	2.53	1.93
OB15EH200-3	WS-6	3/4	9.2	231	24.2	21.7	12	1.91	2.53	1.93
OB15EH200-3	WS-7	7/8	15	236	26.4	23.9	12	1.91	2.53	1.93
OB15EH200-3	WS-7	1	15	236	26.4	23.9	12	1.91	2.53	1.93
OB15EH350-3	WS-10	1-1/8	15	423	30.1	27.6	14.5	1.91	2.53	1.93
OB15EH350-3	WS-10	1-1/4	15	423	30.1	27.6	14.5	1.91	2.53	1.93
OB15EH350-3	WS-8	7/8	15	397	26.4	23.9	14.5	1.91	2.53	1.93
OB15EH350-3	WS-8	1	15	397	26.4	23.9	14.5	1.91	2.53	1.93
OB15EH350-3	WS-8A	5/8	15	394	26	23.5	14.5	1.91	2.53	1.93
OB15EH350-3	WS-8A	3/4	15	394	26	23.5	14.5	1.91	2.53	1.93
OB15EH650-3	WS-10	1-1/8	15	740	32.5	29.5	17.9	2.75	3.0	2.38
OB15EH650-3	WS-10	1-1/4	15	739	32.5	29.5	17.9	2.75	3.0	2.38
OB15EH650-3	WS-8	7/8	15	687	29.7	26.8	17.9	2.75	3.0	2.38
OB15EH650-3	WS-8	1	15	687	29.7	26.8	17.9	2.75	3.0	2.38
OB15EH650-3	WS-8A	5/8	9.2	685	26	23.5	17.9	1.91	2.53	1.93
OB15EH650-3	WS-8A	3/4	9.2	685	26	23.5	17.9	1.91	2.53	1.93
OB15EH1150-3	WS-10	1-1/8	15	1178	30.1	27.6	21.6	1.91	2.53	1.93
OB15EH1150-3	WS-10	1-1/4	15	1178	30.1	27.6	21.6	1.91	2.53	1.93
OB15EH1150-3	WS-8	7/8	15	1157	26.4	23.9	21.6	1.91	2.53	1.93
OB15EH1150-3	WS-8	1	15	1157	26.4	23.9	21.6	1.91	2.53	1.93
OB15EH1150-3	WS-8A	5/8	9.2	1155	26	23.5	21.6	1.91	2.53	1.93
OB15EH1150-3	WS-8A	3/4	9.2	1155	26	23.5	21.6	1.91	2.53	1.93

Type 3 Overhaul Balls, 20 tons

OB20EH350-3	WS-10	1-1/8	20	450	33.7	30.7	14.5	2.8	3	2.38

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Type 3 Overhaul Balls, 20 tons (continued)

Model no.	Wedge Socket No.	Wire Rope Size	Working Load Limit (US Tons)	Wt. LBS.	A Overall Length	B Net Length	F Ball Dia.	H Throat Opening With Latch	J Hook Thickness	K Hook Width
OB20EH350-3	WS-10	1-1/4	20	450	33.7	30.7	14.5	2.8	3	2.38
OB20EH350-3	WS-8	7/8	16.2	423	30	27	14.5	2.8	3	2.38
OB20EH350-3	WS-8	1	16.2	423	30	27	14.5	2.8	3	2.38
OB20EH350-3	WS-8A	5/8	9.2	422	29.6	26.6	14.5	2.8	3	2.38
OB20EH350-3	WS-8A	3/4	9.2	422	29.6	26.6	14.5	2.8	3	2.38
OB20EH650-3	WS-10	1-1/8	20	744	33.7	30.7	17.9	2.8	3	2.38
OB20EH650-3	WS-10	1-1/4	20	744	33.7	30.7	17.9	2.8	3	2.38
OB20EH650-3	WS-8	7/8	16.2	716	30	27	17.9	2.8	3	2.38
OB20EH650-3	WS-8	1	16.2	716	30	27	17.9	2.8	3	2.38
OB20EH650-3	WS-8A	5/8	9.2	715	29.6	26.6	17.9	2.8	3	2.38
OB20EH650-3	WS-8A	3/4	9.2	715	29.6	26.6	17.9	2.8	3	2.38
OB20EH1150-3	WS-10	1-1/8	20	1221	33.7	30.7	21.6	2.8	3	2.38
OB20EH1150-3	WS-10	1-1/4	20	1221	33.7	30.7	21.6	2.8	3	2.38
OB20EH1150-3	WS-8	7/8	16.2	1194	30	27	21.6	2.8	3	2.38
OB20EH1150-3	WS-8	1	16.2	1194	30	27	21.6	2.8	3	2.38
OB20EH1150-3	WS-8A	5/8	9.2	1192	29.6	26.6	21.6	2.8	3	2.38
OB20EH1150-3	WS-8A	3/4	9.2	1192	29.6	26.6	21.6	2.8	3	2.38

Type 3 Overhaul Balls, 25 tons

OB25EH350-3	WS-10	1-1/8	25	473	35.6	32.1	14.5	3.28	3.5	3
OB25EH350-3	WS-10	1-1/5	25	473	35.6	32.1	14.5	3.28	3.5	3
OB25EH350-3	WS-8	7/8	16.2	446	31.9	28.4	14.5	3.28	3.5	3
OB25EH350-3	WS-8	1	16.2	446	31.9	28.4	14.5	3.28	3.5	3
OB25EH350-3	WS-8A	5/8	9.2	444	31.5	26.6	14.5	3.28	3.5	3
OB25EH350-3	WS-8A	3/4	9.2	444	31.5	26.6	14.5	3.28	3.5	3
OB25EH650-3	WS-10	1-1/8	25	765	35.6	32.1	17.9	3.28	3.5	3
OB25EH650-3	WS-10	1-1/4	25	765	35.6	32.1	17.9	3.28	3.5	3
OB25EH650-3	WS-8	7/8	16.2	738	31.9	28.4	17.9	3.28	3.5	3
OB25EH650-3	WS-8	1	16.2	738	31.9	28.4	17.9	3.28	3.5	3
OB25EH650-3	WS-8A	5/8	9.2	736	31.5	28	17.9	3.28	3.5	3
OB25EH650-3	WS-8A	3/4	9.2	736	31.5	28	17.9	3.28	3.5	3
0B25EH1150-3	WS-10	1-1/8	25	1234	35.6	32.1	21.6	3.28	3.5	3
0B25EH1150-3	WS-10	1-1/4	25	1234	35.6	32.1	21.6	3.28	3.5	3
0B25EH1150-3	WS-8	7/8	16.2	1208	31.9	28.4	21.6	3.28	3.5	3
0B25EH1150-3	WS-8	1	16.2	1208	31.9	28.4	21.6	3.28	3.5	3
0B25EH1150-3	WS-8A	5/8	9.2	1205	31.5	28	21.6	3.28	3.5	3
0B25EH1150-3	WS-8A	3/4	9.2	1205	31.5	28	21.6	3.28	3.5	3

Type 3 Overhaul Balls, 30 tons

OB30EH650-3	WS-10	1-1/8	25	791	37	33.5	17.9	3.28	3.5	3
OB30EH650-3	WS-10	1-1/4	25	791	37	33.5	17.9	3.28	3.5	3
OB30EH650-3	WS-8	7/8	16.2	763	33.3	29.8	17.9	3.28	3.5	3
OB30EH650-3	WS-8	1	16.2	763	33.3	29.8	17.9	3.28	3.5	3
OB30EH650-3	WS-8A	5/8	9.2	762	32.9	29.4	17.9	3.28	3.5	3
OB30EH650-3	WS-8A	3/4	9.2	762	32.9	29.4	17.9	3.28	3.5	3

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

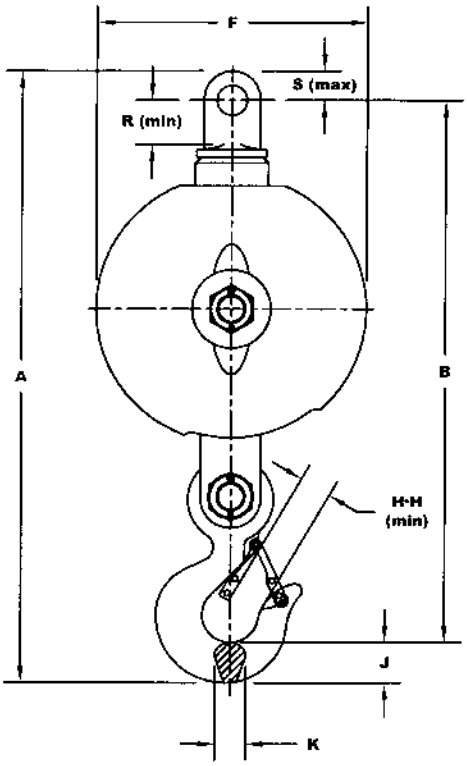
Type 3 Overhaul Balls, 25 tons (continued)

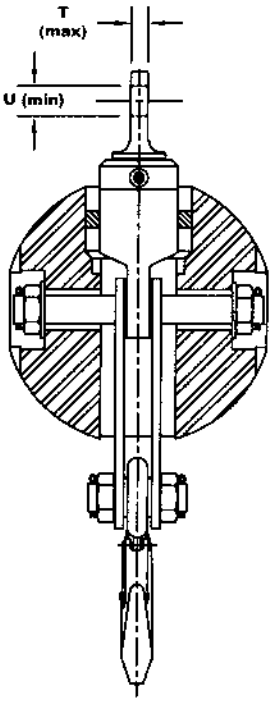
Model no.	Wedge Socket No.	Wire Rope Size	Working Load Limit (US Tons)	Wt. LBS.	A Overall Length	B Net Length	F Ball Dia.	H Throat Opening With Latch	J Hook Thickness	K Hook Width
OB30EH1150-3	WS-10	1-1/8	25	1261	37	33.5	21.6	3.28	3.5	3
OB30EH1150-3	WS-10	1-1/4	25	1261	37	33.5	21.6	3.28	3.5	3
OB30EH1150-3	WS-8	7/8	16.2	1234	33.3	29.8	21.6	3.28	3.5	3
OB30EH1150-3	WS-8	1	16.2	1234	33.3	29.8	21.6	3.28	3.5	3
OB30EH1150-3	WS-8A	5/8	9.2	1232	32.9	29.4	21.6	3.28	3.5	3
OB30EH1150-3	WS-8A	3/4	9.2	1232	32.9	29.4	21.6	3.28	3.5	3

Top Swivel Overhaul Balls/Type 4

4 through 30-ton capacities
4 to 1 design factor
59 through 1,342 lbs. weight

For overhaul ball warnings and use limitations see pages 108-109





Key to Top Swivel Type 4 Overhaul Ball model numbers

Overhaul Ball model

OB	**4EE**	**85**	**4**
Overhaul Ball	Swivel Model	Ball weight only	Type

"J" LATCH STANDARD

To order, please specify:

- **Model Number**

Type 4 Overhaul Ball, 4 tons

Model no.	Working Load Limit (US Tons)	Weight of Assembly LBS	A Overall Length	B Net Length	F Ball Dia.	H Throat Opening with Latch	J Hook Thickness	K Hook Width	R Pin to Obstruction	S Pin to End of Fitting	T Thickness of Eye	U Hole Diameter
OB 4EE 35-4	4	59	22.84	20.06	7.5	1.1	1.44	1.12	1.55	1.34	1.03	1.31
OB 4EE 85-4	4	96	22.84	20.06	9.5	1.1	1.44	1.12	1.55	1.34	1.03	1.31
OB 4EE 150-4	4	167	25.5	22.72	11.25	1.1	1.44	1.12	1.55	1.34	1.03	1.31
OB 4EE 200-4	4	208	25.5	22.72	12	1.1	1.44	1.12	1.55	1.34	1.03	1.31
OB 4EE 220-4	4	247	25.5	22.72	12.75	1.1	1.44	1.12	1.55	1.34	1.03	1.31
OB 4EE 285-4	4	315	25.5	22.72	13.88	1.1	1.44	1.12	1.55	1.34	1.03	1.31

Type 4 Overhaul Ball, 7 tons

OB 7EE 35-4	7	63	24.59	21.44	7.5	1.38	1.81	1.46	1.55	1.34	1.03	1.31
OB 7EE 85-4	7	100	24.59	21.44	9.5	1.38	1.81	1.46	1.55	1.34	1.03	1.31
OB 7EE 150-4	7	171	27.25	24.1	11.25	1.38	1.81	1.46	1.55	1.34	1.03	1.31
OB 7EE 200-4	7	210	27.25	24.1	12	1.38	1.81	1.46	1.55	1.34	1.03	1.31
OB 7EE 220-4	7	250	27.25	24.1	12.75	1.38	1.81	1.46	1.55	1.34	1.03	1.31
OB 7EE 285-4	7	318	27.25	24.1	13.88	1.38	1.81	1.46	1.55	1.34	1.03	1.31

Type 4 Overhaul Ball, 12 tons

OB 12EE 85-4	12	139	31.53	26.91	9.5	1.82	2.59	1.94	2.24	2.03	1.28	1.78
OB 12EE 150-4	12	209	34.03	29.41	11.25	1.82	2.59	1.94	2.24	2.03	1.28	1.78
OB 12EE 200-4	12	248	34.03	29.41	12	1.82	2.59	1.94	2.24	2.03	1.28	1.78
OB 12EE 220-4	12	288	34.03	29.41	12.75	1.82	2.59	1.94	2.24	2.03	1.28	1.78
OB 12EE 285-4	12	360	34.03	29.41	13.88	1.82	2.59	1.94	2.24	2.03	1.28	1.78
OB 12EE 350-4	12	396	34.03	29.41	14.5	1.82	2.59	1.94	2.24	2.03	1.28	1.78
OB 12EE 500-4	12	585	36.03	31.41	17.06	1.82	2.59	1.94	2.24	2.03	1.28	1.78
OB 12EE 650-4	12	703	36.03	31.41	17.94	1.82	2.59	1.94	2.24	2.03	1.28	1.78
OB 12EE1150-4	12	1171	36.03	31.41	21.63	1.82	2.59	1.94	2.24	2.03	1.28	1.78

Type 4 Overhaul Ball, 19 tons

OB 19EE 85-4	19	170	35.01	29.98	9.5	2.8	3	2.38	2.43	2.03	1.28	1.78
OB 19EE 150-4	19	240	37.51	32.48	11.25	2.8	3	2.38	2.43	2.03	1.28	1.78
OB 19EE 200-4	19	280	37.51	32.48	12	2.8	3	2.38	2.43	2.03	1.28	1.78
OB 19EE 350-4	19	435	37.51	32.48	14.5	2.8	3	2.38	2.43	2.03	1.28	1.78
OB 19EE 500-4	19	588	39.51	34.48	17.06	2.8	3	2.38	2.43	2.03	1.28	1.78
OB 19EE 650-4	19	733	39.51	34.48	17.94	2.8	3	2.38	2.43	2.03	1.28	1.78
OB 19EE1150-4	19	1201	39.51	34.48	21.63	2.8	3	2.38	2.43	2.03	1.28	1.78

Type 4 Overhaul Ball, 25 tons

OB 25EE 350-4	25	460	39.04	33.54	14.5	2.8	3	2.38	2.78	2.51	1.66	2.1
OB 25EE 500-4	25	638	41.04	35.54	17.06	2.8	3	2.38	2.78	2.51	1.66	2.1
OB 25EE 650-4	25	784	41.04	35.54	17.94	2.8	3	2.38	2.78	2.51	1.66	2.1
OB 25EE1150-4	25	1253	41.04	35.54	21.63	2.8	3	2.38	2.78	2.51	1.66	2.1

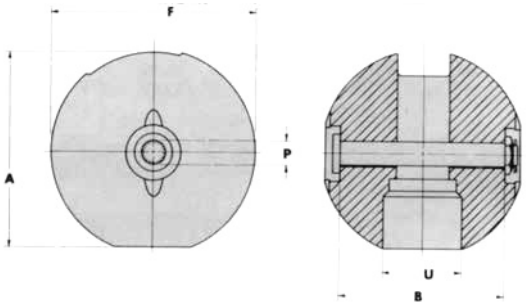
Type 4 Overhaul Ball, 30 tons

OB 30EE 650-4	30	872	49.22	41.77	17.94	3.0	4.56	3.75	2.79	2.88	1.63	2.28
OB 30EE1150-4	30	1342	49.22	41.77	21.63	3.0	4.56	3.75	2.79	2.88	1.63	2.28

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Overhaul Ball and Pin Assembly

For overhaul ball warnings and use limitations see pages 108-109



To order, please specity:

Ball Title **If 35 LBS. Size, specify choice of 1" or 1¼ Diameter Pin**

Examples:

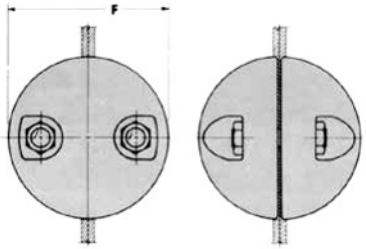
"OB 35# Ball & Pin Assy W/1¼" pin"
"OB Pin & Nut Assy 150#"

Ball & Pin

Model no.	Wt.	A Overall Length	B Net Length	F Ball Dia.	P Pin Dia.	U Hole Dia.
OB 35 BALL & PIN	37	6.875	5.312	7.5	1	3.5
OB 35 BALL & PIN	38	6.875	5.312	7.5	1.25	3.5
OB 85 BALL & PIN	89	8.5	7.125	9.5	1.25	4.75
OB 150 BALL & PIN	154	10.5	8.875	11.25	1.25	4.75
OB 200 BALL & PIN	205	11.25	9.75	12	1.25	4.75
OB 350 BALL & PIN	365	13.625	11.25	14.5	1.625	5.5
OB 650 BALL & PIN	660	16.75	14.25	17.937	1.625	6.875
OB 1150 BALL & PIN	1161	16.5	18	21.625	1.625	6.875

Split Overhaul Ball

For overhaul ball warnings and use limitations see pages 108-109



To order, please specify:

- **Ball Title (i.e., "Split Ball")**
- **Weight Desired**

Model no.	Wt.	Wire Rope Size	F Ball Dia.
OB 50 SPLIT	50	1/2-5/8	7.25
OB 100 SPLIT	100	5/8-3/4-7/8	9.25

*Lead times vary and are subject to change depending on the product

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Top-Swivel with BK Hook and Non-Swivel Overhaul Balls

For overhaul ball warnings and use limitations see pages 108-109

Top-Swivel with BK Hook

Overhaul Ball Assembly

With BK-13-10 Hook

Model Number	Working Load Limit (US Tons)	Weight (Lbs.)
OBK4EE35-4	4	61
OBK4EE85-4	4	101
OBK4EE150-4	4	169
OBK4EE200-4	4	208

With BK-16-10 Hook

OBK7EE35-4	7	65
OBK7EE85-4	7	104
OBK7EE150-4	7	172
OBK7EE200-4	7	212

With BK-18/22-10 Hook

OBK12EE85-4	12	141
OBK12EE150-4	12	210
OBK12EE200-4	12	250
OBK12EE285-4	12	360
OBK12EE350-4	12	404
OBK12EE650-4	12	727
OBK12EE1150-4	12	1172

Non-Swivel Overhaul Balls

Model Number	Working Load Limit (US Tons)	Weight (Lbs.)
OB4NS35-2	4	65
OB4NS85-2	4	117
OB4NS150-2	4	185
OB4NS200-2	4	235
OB7NS35-2	7	69
OB7NS85-2	7	121
OB7NS150-2	7	189
OB7NS200-2	7	239
OB12NS85-2	12	145
OB12NS150-2	12	215
OB12NS200-2	12	265
OB12NS285-2	12	348
OB12NS350-2	12	419
OB12NS650-2	12	709
OB12NS1150-2	12	1220
OB19NS85-2	19	179
OB19NS150-2	19	249
OB19NS200-2	19	299
OB19NS350-2	19	451
OB19NS650-2	19	742
OB19NS1150-2	19	1250
OB25NS350-2	25	480
OB25NS650-2	25	775
OB25NS1150-2	25	1264
OB30NS650-2	30	811
OB30NS1150-2	30	1435

Overhaul Ball Warnings and Use Limitations

This document contains warnings and use limitation information applicable to Gunnebo Johnson Corporation Overhaul Ball Assemblies and is furnished with all Gunnebo Johnson Corporation shipments. Overhaul Ball distributors and lift system manufacturers must pass on this information in their warnings and use limitation literature where Gunnebo Johnson Corporation Overhaul Ball Assemblies are involved.

Protect yourself and others

- **NEVER** use an overhaul ball without training.
- **ALWAYS** inform yourself … Ask your employer for the manufacturer's overhaul ball use limitations.
- **ALWAYS** comply with applicable Country regulations.
- **ALWAYS** know load weight.
- **NEVER** use an overhaul ball without a legible rated load tag.
- **NEVER** overload an overhaul ball.
- **NEVER** ride on an overhaul ball or load.
- **NEVER** use an improperly rigged overhaul ball.
- **NEVER** use a worn – out or damaged coverhaul ball.
- **NEVER** use an overhaul ball in extreme temperatures.
- **NEVER** use an overhaul ball in acidic conditions.

- **Never use an overhaul ball without training.** OSHA regulation requires responsible work practice.

  "The employer shall permit only those employees qualified by training or experience to operate equipment or machinery." - OSHA 1926.20 (b) (4).

  "Employee shall be knowledgeable of all warnings and cautions on the overhaul ball." - OSHA 1910 Subpart N and 1926 Subpart N.

  Employee training should include information given in OSHA training literature, ASME B30.10-2005 Hook Safety Standards, ASME B30.5-2007 Mobile and Locomotive Cranes and Gunnebo Johnson Corporation's DVD of "Recommended Inspection Practices for Johnson Lifting Accessories" and this document.

- **Always inform yourself.** Ask your employer for overhaul ball safe use instruction.

  "The employer shall instruct each employee in the recognition and avoidance of unsafe conditions and the regulations applicable to his work environment to control or eliminate any hazards or other exposure to injury." - OSHA 1926.21 (b) (2).

- **Always comply with applicable Country regulations.** Federal and local regulations govern worksite activity.

  Understand all governing laws and safety standards before use of overhaul ball. OSHA 1910.180 and 1926.550 regulates product requirements, operating practices, product identification, inspection requirements, and use limitation obligations.

  "If a particular standard is specifically applicable to a condition, practice, means, method, operation or process, it shall prevail over any different general standard...." - OSHA 1910.5 (c) (1).

  Contact OSHA at 800-321-6742, www.osha.gov and ASME at 800-843-2763, www.asme.org for reference assistance.

- **Always know load weight.** Avoid overhaul ball failure.

  The weight of the load shall be within the rated load of the overhaul ball.

  Weight of the load to be lifted must be known for determination of proper rigging of overhaul ball.

- **Never use an overhaul ball without a legible identification tag**. Overhaul ball tag is required to insure proper ball application.

  All hook and ball assemblies and load blocks shall be labeled with their rated capacity and weight. - ASME B 30.5-1.7.6.

- **Never overload an overhaul ball.** Understand Working Load Limits. Overload can cause overhaul ball failure or permanent damage.

- **Never ride on an overhaul ball or load.** Avoid death or injury.

  "All employees shall be kept clear of loads about to be lifted and of suspended loads." - OSHA 1926.550 (a) (19).

  "No hoisting, lowering, swinging or traveling shall be done while anyone is on the load or hook assembly." - OSHA 1910.180 (h) (3) (v).

  The use of an overhaul ball to hoist employees on a personnel platform is *prohibited*. *Except* when the erecting, use, and dismantling of conventional means of reaching the worksite, such as a personnel hoist, ladder, stairway, aerial lift, elevating work platform or scaffold, would be more *hazardous* or is *not possible* because of structural design or worksite conditions.

  Follow crane operator's manual for proper personnel lifting requirements.

- **Never rig an overhaul ball to a crane or a load improperly.** Avoid dropped loads and overhaul ball damage.

  Overhaul ball shall not be;
  - allowed to "two-block",
  - used as a wrecking ball,
  - used to drag a load,
  - subjected to high vibration or
  - immersed in water.

  Hook load rigging shall be centered in the base (bowl/saddle) of the hook to avoid point loading of the hook and rigging disengagement. (See figure 1a, 1b, & 1c).

  When using a latch to close the throat opening of the hook, care shall be taken that the rigging load is not carried by the latch. Hook latches aid in the retention of loose slings under slack rigging conditions only and are not intended to be anti-fouling devices during lifting. Such fouling is extremely dangerous and shall be avoided by proper rigging and controlled lifting dynamics.

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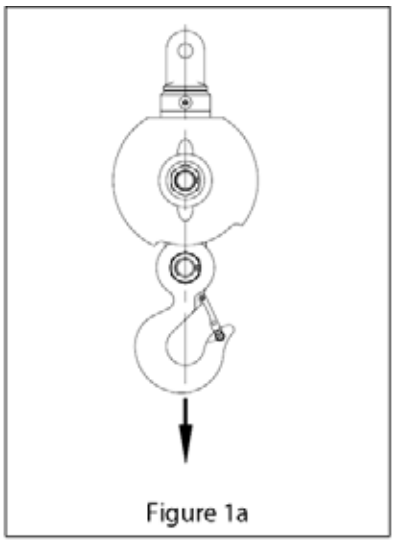

Figure 1a

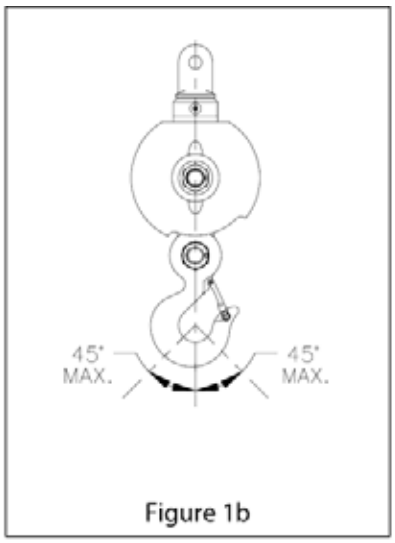

Figure 1b

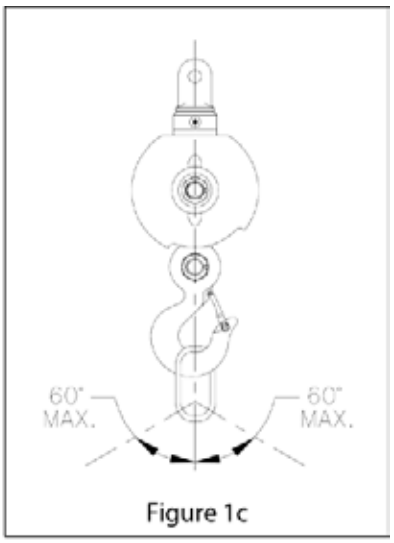

Figure 1c

- **Never use a worn-out or damaged overhaul ball.** Avoid structural or mechanical failure.

  Each day before use, the overhaul ball and its fasteners and attachments shall be inspected for damage or defects by a competent person designated by the employer. Additional inspections shall be performed during overhaul ball use where service conditions warrant. Damaged or defective overhaul ball shall be immediately removed from service. In addition to the daily inspection, a thorough periodic inspection shall be made on a regular basis, to be determined on the basis of (A) frequency of overhaul ball use; (B) severity of service conditions; (C) nature of lifts being made; and (D) experience gained on the service life of overhaul ball used in similar circumstances. Such inspections shall in no event be at intervals greater than once every 12 months.

  The following findings shall cause overhaul ball removal from service until replaced or repaired;

  - Elongated ball pin holes, hook latch pin holes and swivel eye exceeding 5% of original diameter,
  - Swivel end play gap exceeding .08". Excessive end play indicates damaged internal set screw, (See Figure 2)
  - Bent connector plates,
  - Severe corrosion pitting,
  - Bent or twisted hook,
  - Welding on hook,
  - Damaged or dysfunctional hook latch,
  - Cracks in connector plates, ball casting, ball pin, hook latch pin, swivel and hook,
  - Material loss due to wear exceeding 10% of original section,
  - Loose, missing or damaged retaining nuts, cotter pins or swivel set screws or
  - Missing or illegible rating and warning tags.

  The following findings shall cause overhaul ball removal from service until corrected;

  - Lack of swivel bearing lubrication. Continuous operation: Lubricate every 24 hours. Intermittent operation: Lubricate every 14 days.

- **Never use an overhaul ball in extreme temperatures.** Sudden failure can occur.

  Overhaul ball shall not be heated above 180 degrees F. Overhaul ball Working Load Limit is valid between 180 degrees F and service temperature given on the identification tag with normal lifting precautions.

  Additional lifting precautions are required below the service temperature given on the identification tag because cold temperature begins to affect the overhaul ball material properties.

  Lifting above 75% of the Working Load Limit (WLL), at tempertures between the service temperature given on the identification tag and -40 degrees F, must be done at a slow and steady rate to avoid stress spikes common in normal hoisting dynamics.

  75% of the WLL must not be exceeded, when lifting in tempertures below -40 degrees F.

- **Never use an overhaul ball in alkaline or acidic conditions.**

  Overhauls balls shall not be used in alkaline or acidic conditions. Resulting metal embrittlement and accelerated corrosion can cause sudden failure.

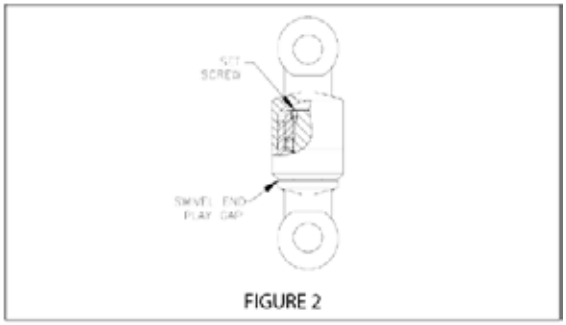

FIGURE 2

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Swivels

GUNNEBO
Industries

Swivels

Introduction, Features, Benefits ..... 110 - 113
Swivels Eye/Hook 114
Swivels Jaw/Hook 115
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Product Warnings and Inspection Instructions 120
Latches, Latch Kits ..... 121 - 122

Swivels

Gunnebo Johnson thrust bearing swivels are widely used for the primary purpose of allowing the natural twist in wire rope to rotate as necessary without affecting the suspended load. Standard swivels are available in six different end fitting combinations, from 3 to 30 tons WLL.

Simple and compact, the swivels are engineered for long life and economical cost. Hooks are forged alloy steel, lubrication fittings are recessed, and a generous bronze bushing assures toughness and long life.

Custom designed swivels are also available from Gunnebo Johnson. Applications include very large sizes of up to 1200 tons WLL, and pressure compensated underwater models for deep sea service.

Standard equipment

Forged hook with latch

Roller thrust bearing

Large bronze thrust bushing

Recessed lubrication fitting

Large lubricant reservoir

Optional Equipment

Custom end fitting sizes

Custom sizes above 30 tons WLL

Anti-corrosion coatings

Proof load test

*Note: For repair, please contact Gunnebo Johnson Customer Service. Field repair by users is not recommended due to special factory procedures used during assembly.

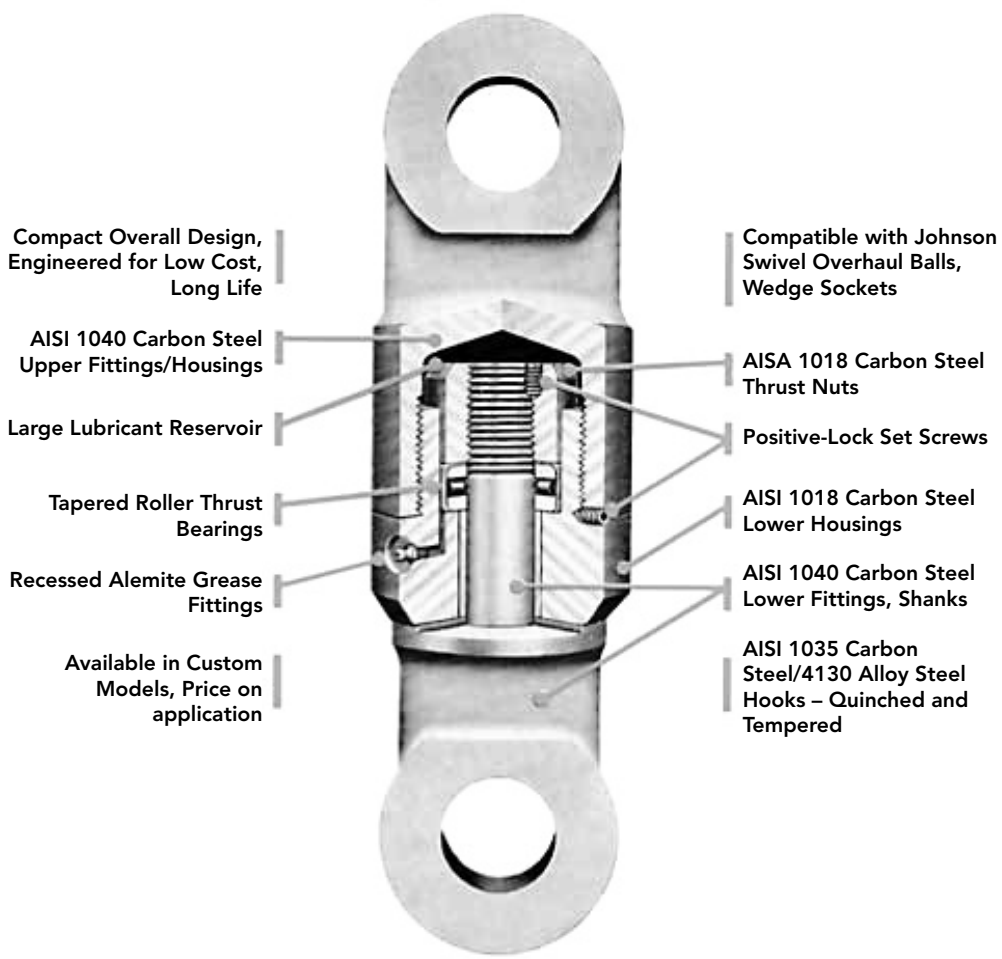
Swivels keep the wire rope from transferring its normal twisting motion to the item being lifted. Following a tendency to unwind itself, a line, when extended, will cause its load to rotate. Thus the need for some form of intermediate fitting which will allow the rope to take it natural course without affecting the load.

Johnson offers a variety of swivel types ranging from 3 through 30 tons. Simple, compact, these units are engineered for long life and reasonable cost. Standard are eye-jaw models. With features that include roller thrust bearings… recessed grease fittings …. Hooks of drop forged steel.

Every Johnson swivel carries both a Ton Rating Plate and Caution Plate. The Cautions Plate serves as an operational guide to correct working practices. The Ton Rating Plate we include as a means of product qualification and identification. It is to this plate that the operator looks for information on product model number, as well as Working Load Limit.

Custom alternatives can help the customer meet special requirements. One of the reasons for this company's continued growth is its strong technical base. We are metallurgical design specialists. An organization whose in-house capabilities range from total product development to programmable proportion-controlled heat treating. Typical of our ability to design and fabricate to exceptional criteria was the mammoth swivel created for a specific one-time application. The end product had better than a 1,200 ton capacity at a 4 to 1 design factor. Over 12 feet in height, it weighed 19,800 pounds.

Note that the repair of standard Johnson swivels is not recommended under field conditions. Instead, call us to discuss the specifics. Then, return the swivel. Intact, for a prompt cost estimate.

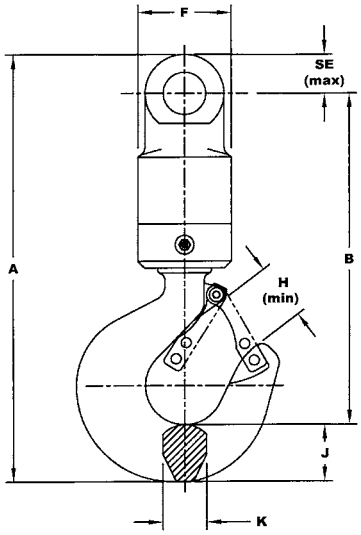


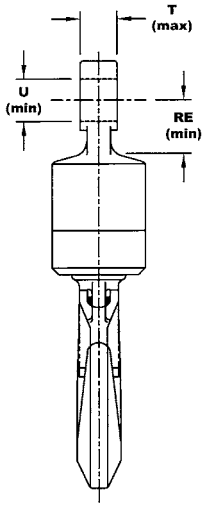
⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Swivels Eye/Hook

3 through 30 ton capacities
4 to 1 design factor

For product warnings and inspection instructions, see pages 120-122





Key to Eye/Hook Swivel model numbers

3	E	H	M
Working Load Limit – (US Tons)	Top Fitting E = Eye	Bottom Fitting H = Hook	Midget Swivel

To order, please specify:

- **Model Number**

"J" Latch standard

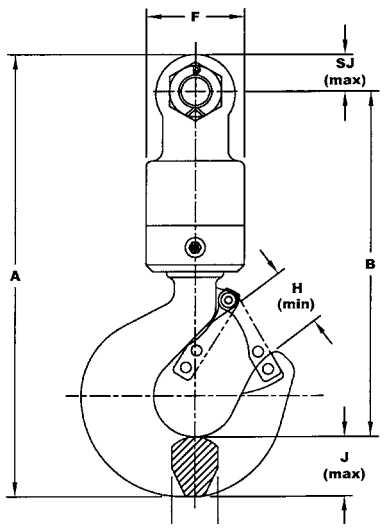
Eye & Hook Swivels

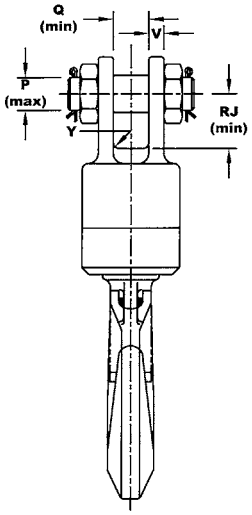
Model No.	Working Load Limit (US Tons)	Weight Lbs	A Overall Length	B Net Length	F Swivel Dia.	H Throat Opening with Latch	J Hook Thickness	K Hook Width	R Hole to Obstruction Min	S Hole to End of Fitting Max	T Thickness of Eye Max	U Hole Dia. Min
3EHM	3	8	10.58	7.91	2.63	1.12	1.48	1.12	1.23	1.22	0.91	1.03
3EH	3	15	13.46	10.73	3.25	1.12	1.48	1.12	1.55	1.34	1.03	1.31
5EH	5	15	13.79	11.06	3.25	1.12	1.48	1.12	1.55	1.34	1.03	1.31
7EH	7	16	14.82	11.76	3.25	1.39	1.81	1.38	1.55	1.34	1.03	1.31
9EH	9	34	18.56	14.03	4	1.91	2.53	1.93	2.24	2.03	1.28	1.78
12EH	12	39	18.89	14.36	4.44	1.91	2.53	1.93	2.43	2.03	1.28	1.78
15EH	15	39	18.89	14.36	4.44	1.91	2.53	1.93	2.43	2.03	1.28	1.78
20EH	20	69	22.83	17.45	5.25	2.8	3	2.38	2.78	2.51	1.66	2.1
25EH	25	90	24.78	18.9	5.25	3.28	3.5	3	2.78	2.51	1.66	2.1
30EH	30	117	26.53	20.28	6.5	3.28	3.5	3	2.79	2.88	1.63	2.28

Swivels Jaw/Hook

3 through 15 ton capacities
4 to 1 design factor

For product warnings and inspection instructions, see pages 120-122





Key to Jaw/Hook Swivel model numbers

3	J	H	M
Working Load Limit – (US Tons)	Top Fitting J = Jaw	Bottom Fitting H = Hook	Midget Swivel

To order, please specify:

- **model number**

"J" Latch Standard

Jaw & Hook Swivels

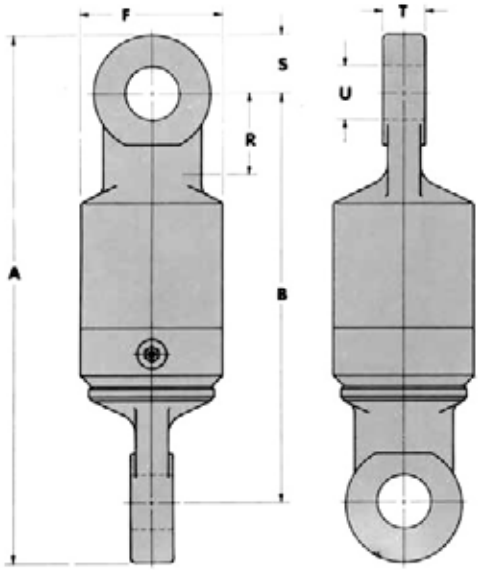
Model no.	Working Load Limit (US Tons)	Weight lbs	A Overall Length	B Net Length	F Swivel Dia.	H Throat Opening (w/ Latch)	J Hook Thick-ness	K Hook Width	P Pin Dia. Max	Q Width Between Ears Min	R Pin to Obstruction Min	S Pin to End of Fitting Max	V Thick-ness of Ear	Y Jaw Radius
3JHM	3	9	10.52	7.91	2.63	1.12	1.48	1.12	1	0.97	1.08	1.22	0.5	0.09
3JH	3	18	13.71	10.85	3.25	1.12	1.48	1.12	1.25	1.44	2.07	1.44	0.56	0.25
5JH	5	19	14.04	11.18	3.25	1.12	1.48	1.12	1.25	1.44	2.07	1.44	0.56	0.25
7JH	7	20	15.07	11.89	3.25	1.39	1.81	1.38	1.25	1.44	2.07	1.44	0.56	0.25
9JH	9	40	18.62	14.09	4	1.91	2.53	1.93	1.75	1.69	2.69	2.06	0.75	0.25
12JH	12	45	19.14	14.61	4.44	1.91	2.53	1.93	1.75	1.94	2.94	2.06	0.75	0.25
15JH	15	45	19.14	14.61	4.44	1.91	2.53	1.93	1.75	1.94	2.94	2.06	0.75	0.25

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Swivels Eye/Eye

3 through 30 ton capacities
4 to 1 design factor

For product warnings and inspection instructions, see pages 120-122



Key to Eye/Eye Swivel model numbers

3	E	E	M
Working Load Limit – (US Tons)	Top Fitting E = Eye	Bottom Fitting E = Eye	Midget Swivel

To order, please specify:

- **Model number**

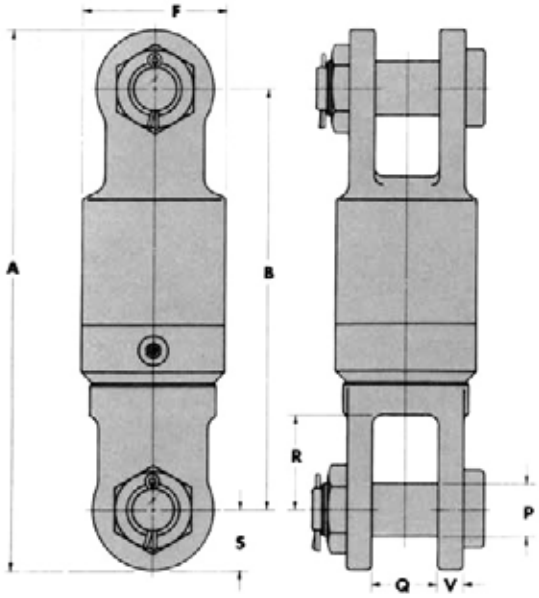
Eye & Eye Swivels

Model	Working Load Limit (US Tons)	Weight lbs	A Overall Length	B Net Length	F Swivel Dia.	R Hole to Obstruction Min	S Hole to End of Fitting Max	T Thickness of Eye Max	U Hole Dia. Min
3EEM	3	6	8.03	5.65	2.63	1.23	1.22	0.91	1.03
4EE	4	14	11.9	9.34	3.25	1.55	1.34	1.03	1.31
7EE	7	14	11.9	9.34	3.25	1.55	1.34	1.03	1.31
12EE	12	26	15.24	11.24	4	2.24	2.03	1.28	1.78
19EE	19	31	15.52	11.52	4.44	2.43	2.03	1.28	1.78
25EE	25	50	17.7	12.95	5.25	2.78	2.51	1.66	2.1
30EE	30	85	20.09	14.59	6.5	2.79	2.88	1.63	2.28

Swivels Jaw/Jaw

3 through 19-ton capacities
4 to 1 design factor

For product warnings and inspection instructions, see pages 120-122



Key to Jaw/Jaw Swivel model numbers

3	J	J	M
Working Load Limit – (US Tons)	Top Fitting J = Jaw	Bottom Fitting J = Jaw	Midget Swivel

To order, please specify:

- **Model number**

Jaw & Jaw Swivels

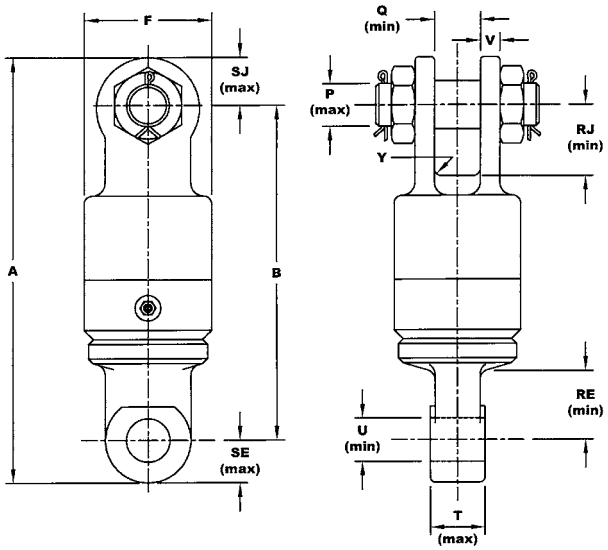
Model	Working Load Limit (US Tons)	Weight	A Overall Length	B Net Length	F Swivel Dia.	P Pin Dia. Max	Q Width Between Ears Min	R Pin to Obstruction Min	S Pin to End of Fitting Max	V Thickness of Ear	Y Jaw Radius
3JJM	3	8	8.21	5.89	2.63	1	0.97	1.08	1.22	0.5	0.09
4JJ	4	22	12.59	9.84	3.25	1.25	1.44	2.07	1.44	0.56	0.25
7JJ	7	22	12.59	9.84	3.25	1.25	1.44	2.07	1.44	0.56	0.25
12JJ	12	42	15.74	11.74	4	1.75	1.69	2.69	2.06	0.75	0.25
19JJ	19	48	16.64	12.64	4.44	1.75	1.94	2.94	2.06	0.75	0.25

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Swivels Jaw/Eye

3 through 19 ton capacities
4 to 1 design factor

For product warnings and inspection instructions, see pages 120-122



Key to Jaw/Eye Swivel model numbers

3	J	E	M
Working Load Limit – (US Tons)	Top Fitting E = Eye	Bottom Fitting E = Eye	Midget Swivel

To order, please specify:

- **Model number**

Jaw & Eye Swivels

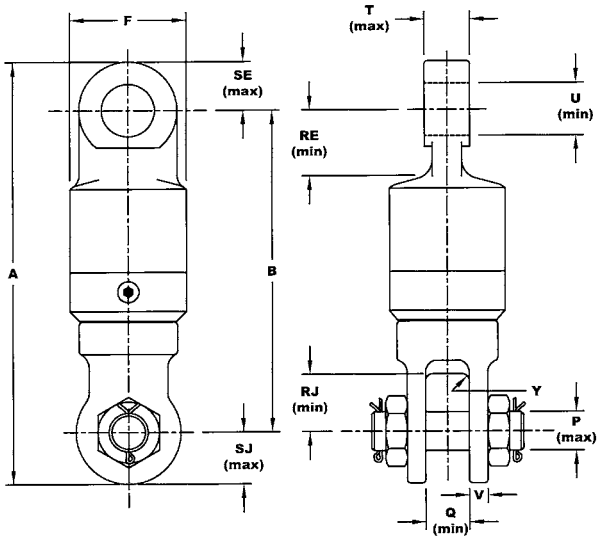
Model No	Wt.	A Overall Length	B Net Length	F Swivel Dia.	P Pin Dia.	Q Width Be-tween Ears	RE Hole to Obstruc-tion	RJ Pin to Obstruc-tion	SE Hole to End of Fitting	SJ Pin to End of Fitting	T Thick-ness of Eye	U Hole Dia.	V Thick-ness of Ear	Y Jaw Radius
3JEM	8	7.96	5.65	2.63	1.00	0.97	1.23	1.08	1.22	1.22	0.91	1.03	0.50	0.09
4JE	18	12.15	9.46	3.25	1.25	1.44	1.55	2.07	1.34	1.44	1.03	1.31	0.56	0.25
7JE	18	12.15	9.46	3.25	1.25	1.44	1.55	2.07	1.34	1.44	1.03	1.31	0.56	0.25
12JE	35	15.30	11.30	4.00	1.75	1.69	2.24	2.69	2.03	2.06	1.28	1.78	0.75	0.25
19JE	41	15.77	11.77	4.44	1.75	1.94	2.43	2.94	2.03	2.06	1.28	1.78	0.75	0.25

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Swivels Eye/Jaw

3 through 19-ton capacities
4 to 1 design factor

For product warnings and inspection instructions, see pages 120-122



Key to Eye/Jaw Swivel model numbers

3 — Working Load Limit – (US Tons)

E — Top Fitting E = Eye

J — Bottom Fitting J = Jaw

M — Midget Swivel

To order, please specify:

- **Model number**

Eye & Jaw Swivels

Model	Working Load Limit (US Tons)	Weight lbs	A Overall Length	B Net Length	F Swivel Dia.	P Pin Dia. Max	Q Width Between Ears Min	RE Hole to Obstruction Min	RJ Pin to Obstruction Min	SE Hole to End of Fitting Max	SJ Pin to End of Fitting Max	T Thickness of Eye Max	U Hole Dia. Min	V Thickness of Ear	Y Jaw Radius
3EJM	3	7	8.27	5.9	2.63	1	0.97	1.23	1.08	1.22	1.22	0.91	1.03	0.5	0.09
4EJ	4	18	12.34	9.71	3.25	1.25	1.44	1.55	2.07	1.34	1.44	1.03	1.31	0.56	0.25
7EJ	7	18	12.34	9.71	3.25	1.25	1.44	1.55	2.07	1.34	1.44	1.03	1.31	0.56	0.25
12EJ	12	35	15.68	11.68	4	1.75	1.69	2.24	2.69	2.03	2.06	1.28	1.78	0.75	0.25
19EJ	19	42	16.39	12.39	4.44	1.75	1.94	2.43	2.94	2.03	2.06	1.28	1.78	0.75	0.25

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

PRODUCT WARNINGS AND INSPECTION INSTRUCTIONS

NOTICE: Any and all claims arising from the use of Johnson products are subject to the strict performance of all inspection and maintenance instructions outlined herein. All instructions apply to all products, as applicable.

- **OSHA REGULATIONS PROHIBIT TRANSPORT OF PERSONNEL ON THE LOAD OR HOOK ASSEMBLY. 1910, 180-H-3-V**
- Gunnebo Johnson Corp. Products Distributors are instructed to furnish this information to all customers and users of Johnson products.
- This sheet is available on request free of charge in any quantity.
- Safety Caution Plate and Nameplate should never be painted over or removed. If rendered illegible or missing, contact factory for new plate(s).
- A copy of this instruction is shipped with every Johnson Blocks product or invoice line item.

BASIC POLICY ON REPAIR OF WORN OR DAMAGED ITEMS:

If for any reason an item does not work properly or is worn, and repair is desired, do not attempt to disassemble or repair. Return item prepaid to our Tulsa Plant for inspection and estimate of repair cost. (Contact plant in advance to discuss specifics, or to obtain factory authorization for field repair, if desired.) If, in user's opinion, conditions require reworking of item without returning to factory, or without obtaining factory authorization such rework or repair will be undertaken entirely at user's risk and cost.

LUBRICATION SCHEDULE:	Lubrication frequency under conditions of:	
	Continuous operation	Intermittent operation
Swivels & swivel balls	24 hours	14 days
Bronze bushed blocks & sheaves	8 hours	14 days
Roller bearing blocks & sheaves	24 hours	14 days

TYPE LUBRICANT: Either sodium or lithium base greases may be employed. Soda soap base greases are more fibrous and cohesive. Lithium soap base greases are excellent especially where excessive moisture is present.

REGULAR AND FREQUENT INSPECTION of all wire rope accessories is a must for safety. For Johnson Blocks products, all points listed below should be carefully observed, plus any others indicated by good field practice. Continuous surveillance and alertness is required under working conditions.

PERMANENT DEFORMATION (STRETCHING) on any part is a clear indication of overload. Part should be taken out of service immediately and replaced.

SWIVEL END PLAY (OR GAP) of more than 1/16" along the axis of a swivel is a danger signal. Remove from use immediately.

CHECK BLOCKS TO SEE IF SIDE PLATES ARE SPREADING. This is a sure sign of overload. Remove from service for repair.

ANY LOOSENESS IN PLATES on blocks with tie bolts or stress pins is a sign of possible loose retaining nuts. Remove cheek weights (if any) and follow instructions in section on "Anti-loosening" provisions.

SHEAVE ALIGNMENT CHECK: Uneven groove or flange wear is evidence of sheave misalignment. Check for wobbly or loose sheaves – this means bearing wear.

SHEAVE GROOVE WEAR: Check for striation or corrugations in sheave groove, caused by rope wear. These can be costly on your rope life. If seriously worn, sheave should be replaced.

LOAD HOOKS OR FITTINGS SHOULD BE INSPECTED FREQUENTLY: ANY DAMAGED HOOK LATCH should be replaced immediately. Inability to properly pin the Johnson J-latch into its locked position could indicate distortion or permanent deformation in the hook opening. If this condition should occur remove the hook from service immediately and contact the factory. **HOOKS OR LOAD FITTINGS MAY BE CHECKED** by magnafluxing, ultrasonic test or X-ray by a qualified source.

ANY HOOK OR FITTING with a crack, gouge, or distortion should be removed from service immediately. If any of these conditions should occur contact the factory for repair or replacement criteria.

HOOK AND NUT THREADS should be checked annually for corrosion or deformation Severe duty or corrosive environments may dictate a higher inspection frequency.

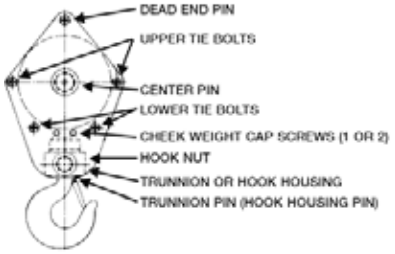
HOOK NUT GALLING can occur if during disassembly foreign matter has gotten into threads. **A galled nut cannot be forced.** Please contact Gunnebo Johnson Corp. factory if this condition should occur. Do not weld on a Gunnebo Johnson Corp. hook or hook nut without prior factory authorization and instruction.

ANTI-LOOSENING PROVISIONS ON ALL NUTS AND SET SCREWS are vital.

- **For high-vibration applications**, including pile driving, (see section on Blocks, Cheek Weights).
- **Hook nut set-screws** are staked in place at factory. Check for signs of any loosening. If any, re-tighten and re-stake thoroughly. If in doubt, contact factory for provision of thread locking product (in addition to staking set-screw).

CHECK ALL NUTS FREQUENTLY for any signs of backing off due to vibration or other causes. If necessary, re-tighten any loosened nuts, following instructions below:

- **If center pin retaining nut**, see that section of this instruction.
- **If upper tie bolt nut**, retighten firmly and re-stake thoroughly.
- **If lower tie bolt or stress pin nut**, retighten nut firmly and
  (a) re-stake if originally staked
  (b) If held by set-screw, re-tighten set-screw to re-establish jamming action against threads.
- **If lower trunnion pin nut**, re-tighten nut firmly to point at which trunnion will just rotate, then re-tighten set-screw in nut as in above.



TYPICAL BLOCK SHOWING VARIOUS POINTS OF RETAINMENT

- **Set screws where used on side nuts of block** (center pin nuts, hook trunnion pin nuts, stress pin nuts, etc.) are jammed radially into the threads. Check set-screw for tightness, re-tighten firmly if needed to re-establish jamming action against threads.

NOTE: If center pin nut appears loose, or has backed off, follow tightening instructions in section on center pin retaining nuts. Then re-tighten set-screw in nut as above.

- **Staking of all block side nuts not having set-screws** (tie bolt nuts, small stress pins nuts, hook trunnion nuts, center pin nuts, etc.) must be checked to see if still in original orientation. If nut has backed off, re-tighten and re-stake thoroughly, following instructions on center pin retaining nuts if nut is of this type. If in doubt about integrity of re-staking, tack weld nut as follows:
  (a) if center pin nut, weld nuts on both ends to side plate.
  (b) If trunnion pin or stress pin nut, weld nut to pin.
- **Spirolox retaining rings** where furnished on ends of block center pins and hook trunnion pins, must be in place. If end of pin is grooved for Spirolox (rather than threaded for nut) and Spirolox is damaged or missing, do not resume work. Contact factory for replacement Spirolox.
- **Cotter pins** where furnished must remain in place. Replace any damaged or missing cotter pins before resuming work.
- **Set screws on swivel barrels** are staked in place at factory. Check for any signs of backing out. If any, re-tighten and re-stake thoroughly. If in doubt, replace swivel and return to factory for check.
- **Cheek weight cap screws.** Should always be tightened down, and locked either with (a) self-locking jam nut inside of side plate, or (b) lock-washer under head of cap screw (inside cheek weight counter-sink).

CENTER PIN RETAINING NUTS over-tightening may cause sheave bearing damage. Do *not alter factory setting without factory authorization. If emergency conditions require re-working of block without authorization from factory, the procedures below may be of assistance but will be undertaken entirely at user's risk and cost:*

- **Consult block nameplate** to determine sheave bearing type:

B or BB bronze bushing	R or RB roller bearing
G or GBB graphite bronze bushing	T tapered roller bearing
	S sintered bronze bushing

- **If tapered roller bearing**, tighten center pin retaining nut(s) until side play is eliminated from all sheaves, and nut(s) are tightened firmly.
- **For all other sheave bearing types**, running clearance of 1/32" at sheave hub is required. Approximately correct running clearance may be established as follows:
  (1) tighten center pin retaining nut(s) until any one sheave cannot be rotated by hand
  (2) then back off on nut minimum amount to permit hand rotation of all sheaves.

WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Form B-045-07/08
P/N 51694 Rev. B

JOHNSON J-LATCH

Johnson's exclusive J-Latch is a uniquely engineered hook latch system providing outstanding flexibility and durability. Its heavy-duty design incorporates a steel beam that positively engages a special recessed area in the hook tip. The removable two-position pin allows the J-Latch to function either as a locked bar or as an automatic spring latch. The J-Latch meets OSHA requirements and is standard equipment on Johnson crane blocks through 165 tons, all Johnson overhaul balls and all swivels with hooks. The J-Latch is offered as an option on Johnson snatch blocks.

All Johnson block hooks with a J-Latch notch must be fitted with only a J-Latch to ensure proper fit. Inability to properly pin

the Johnson J-Latch into its locked position could indicate distortion or permanent deformation in the hook opening. If this condition should occur remove the hook from service immediately and contact the factory.

STANDARD HOOKS	A 5 TON	A 7 TON	A 15 TON	A 22 TON	A 30 TON	40 TON	55-70 TON	80-100TON	130-165 TON
LATCH KIT PART NO.	471782	471783	471784	471785	471786	471787	471788	471789	471790

NON J-LATCH KITS

The spring latch and Crosby G-5066 Flapper latch (at right) are available for non J-Latch hooks. Latch selection should be made only after careful consideration of the hook rigging arrangement and reading of the **HOOK LATCH CAUTION**. Consult the following tables to determine hook configuration, latch selection, and kit number.

Spring Latch

Crosby G-5066 Flapper Latch

SPRING HOOK LATCH KITS

JOHNSON BLOCKS LATCH KIT PART NO.	5626	5622	5919	5503	6007	5533	5551	6432
PRODUCT FOR WHICH LATCH IS NEEDED	PRODUCT IDENTIFICATION: MODEL NUMBER, HOOK MARKINGS, OR RATED CAPACITIES							
SWIVEL HOOK MODELS BOTTOM SWIVEL OVERHAUL BALLS	3EH, 3EHM 3JH, 2JHM	5EH 5JH		9EH, 9HJ+ 12EH, 12JH		15EH 15JH	20EH 25EH, 30EH	
TOP SWIVEL OVERHAUL BALLS (W / EYE HOOK)	SWIVEL MODEL 3EJM OR 3JJM 4EE OR 4EJ "W.L.L. 3" "C" EYE HOOK	SWIVEL MODEL 7EE OR 7EJ "W.L.L. 5T" "C" EYE HOOK		SWIVEL MODEL 12 EE OR 12EJ "W.L.L. 10T" "C" EYE HOOK		SWIVEL MODEL 19EE OR 19EJ "W.L.L. 15T" "C" EYE HOOK	SWIVEL MODEL 25EE "W.L.L. 20T" "C" EYE HOOK	SWIVEL MODEL 30EE "W.L.L. 25T" "C" EYE HOOK
MIDGET OVERHAUL BALLS (W / EYE HOOK)	"W.W.L. 3T" EYE HOOK	5 TONS W.L.L. EYE HOOK						
SHORTY "J" CRANE BLOCKS (W / W.L.L. RATINGS)	3 TONS W.L.L.	5 TONS W.L.L.		10-15 TONS W.L.L..		20-25 TONS W.L.L. 3 OR MORE S.H.V.S.	20-25 TONS 1 & 2 S.H.V.S. 30 TONS W.L.L.	
TYPE "H" CONSTRUCTION BLOCKS (W.L.L.) RATINGS ROLLER BRG. HOOKS	4 TONS W.L.L.	6 TONS W.L.L.		9-15 TONS W.L.L.		19 TONS W.L.L.	25-30 TONS W.L.L.	
SNATCH BLOCKS (SINGLE SHEAVE MODELS)	3 TONS W.L.L.	8 TONS W.L.L.	2 TONS W.L.L.		12 TONS W.L.L.	22 TONS W.L.L.	30 TONS W.L.L.	
SNATCH BLOCKS (DOUBLE SHEAVE MODELS)		8 TONS		15 TONS W.L.L.	12 TONS W.L.L.	22 TONS W.L.L.		
PIPELINE BLOCKS (ALL MODELS).				12-15 TONS W.L.L.		22 TONS W.L.L.		

Continued from page 1.

+Prior to Block Serial No. B-37603 use P/N 5533 Latch

➤ **Following instructions on anti-loosening provisions** of nuts and set- screws.

(1) Consult factory for hook nut thread locking product. During any vibration or shock load application, Johnson Blocks recommends a block, hook or ball substantially stronger than the "dead weight" load to allow for actual shock load values. Allowance for shock load is the responsibility of the user.

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

G-5066 FLAPPER LATCH KITS

JOHNSON BLOCKS LATCH KIT PART NO.	3292	3214	1001	3190	3506	4940	4941*	4943*	4944*	4946*
PRODUCT FOR WHICH LATCH IS NEEDED	PRODUCT IDENTIFICATION: MODEL NUMBER, HOOK MARKINGS, OR RATED CAPACITIES									
SWIVEL HOOK MODELS BOTTOM SWIVEL OVERHAUL BALLS	3EH, 3EHM 3JH, 2JHM	5EH 5JH	9EH* 9JH*	12EH* 12JH	15EH 15JH	20EH 25EH, 30EH				
TOP SWIVEL OVERHAUL BALLS (W / EYE HOOK)	SWIVEL MODEL 3EJM OR 3JJM 4EE OR 4EJ "W.L.L. 3" "C" EYE HOOK	SWIVEL MODEL 7EE OR 7EJ "W.L.L. 5T" "C" EYE HOOK		SWIVEL MODEL 12 EE OR 12EJ "W.L.L. 10T" "C" EYE HOOK	SWIVEL MODEL 19EE OR 19EJ "W.L.L. 15T" "C" EYE HOOK	SWIVEL MODEL 25EE "W.L.L. 20T"	SWIVEL MODEL 30EE "W.L.L. 25T" "C" EYE HOOK			
MIDGET OVERHAUL BALLS (W / EYE HOOK)	"W.W.L. 3T" EYE HOOK	"W.L.L. 5T" C EYE HOOK					HOOK NUMBERS			
							1002	1005 1007	1012 1013	1014 1015
SHORTY "J" CRANE BLOCKS (W / W.L.L. RATINGS)	3 TONS W.L.L.	5 TONS W.L.L.		10-15 TONS W.L.L.	20-25 TONS W.L.L. 3 OR MORE S.H.V.S.	20-25 TONS 1 & 2 S.H.V.S. 30 TONS W.L.L.	35-45 TONS W.L.L.	55-70 TONS W.L.L.	75-110 TONS W.L.L.	115-165 TONS W.L.L.
TYPE "H" CONSTRUCTION BLOCKS (W.L.L.) RATINGS ROLLER BRG. HOOKS	4 TONS W.L.L.	6 TONS W.L.L.	9 TONS W.L.L.	12-15 TONS W.L.L.	19 TONS W.L.L.	25-30 TONS W.L.L.	40 TONS W.L.L.			
SNATCH BLOCKS (SINGLE SHEAVE MODELS)					22 TONS W.L.L.	30 TONS W.L.L.	*NEW BLOCKS 25 TONS AND UP TAKE FLAPPER LATCH ONLY			
SNATCH BLOCKS (DOUBLE SHEAVE MODELS)					22 TONS W.L.L.					
PIPELINE BLOCKS (ALL MODELS)				12-15 TONS W.L.L.	22 TONS W.L.L.					

For 20-25 ton single and double sheave blocks purchased before June 15, 1973. Flapper Latch will not clear side plates when hook is rotated. Do not order or use Flapper Latch on such blocks. Check with factory.

⚠ CAUTION

Correct rigging and operation practices are vitally important and are the responsibility of the user to properly apply. Latches are not intended to support any live load nor overcome effects of improper rigging or handling.

HOOK LATCH CAUTION

Hook latches are to be used as retention devices to retain loose rigging under slack conditions. They are not intended to be anti-fouling devices, and caution must be exercised to prevent a latch from supporting any portion of a load. Periodic inspection of the latch must be made to insure it's proper operating condition. If damage to the latch occurs, the latch must be replaced immediately.

All latches are insignificant in strength compared to the actual hook. Fouling that results in temporary support of a load may occur without proper attention. Such fouling is extremely dangerous, and must be avoided by insuring that the rigging load is always properly seated in the hook and never in a position to foul the latch.

Latches can be held open or damaged by use of rigging too large for the hook saddle.

Latch becomes ineffective when wired open, and can be damaged when forced from below or from the side.

No claim is made that the hook latches will consistently reseat a fouled sling or fitting back into the hook. Latches are not anti-fouling devices.

Johnson offers a screw-pin or safely anchor shackle, an economical and "completely closed" lifting device, for conditions when rigging fouling can occur. Such shackles, mounted in swivel tees may be ordered to replace shank hooks in Johnson Hook Blocks, Swivel Hooks and Type 3 Overhaul Balls. They are also available on a custom basis for top swivel Overhaul Ball Type 4.

BLOCKS, CHEEK WEIGHTS & OVERHAUL BALLS IN HIGH-VIBRATION OR SHARP BLOW APPLICATION

Johnson Blocks standard cheek weights and overhaul balls are made of cast iron, and are not designed as load bearing accessories. They are intended to provide downfall weight only, and are not designed to withstand high vibration or sharp blows.

Side nuts on Johnson Blocks are thoroughly staked to their bolts and pins, but are not designed to withstand high vibration applications. There may be a danger of their backing off.

In the event that high vibration applications such as pile driving or pulling, scrap handling or where a block may receive sharp blows, the following procedures must be followed:

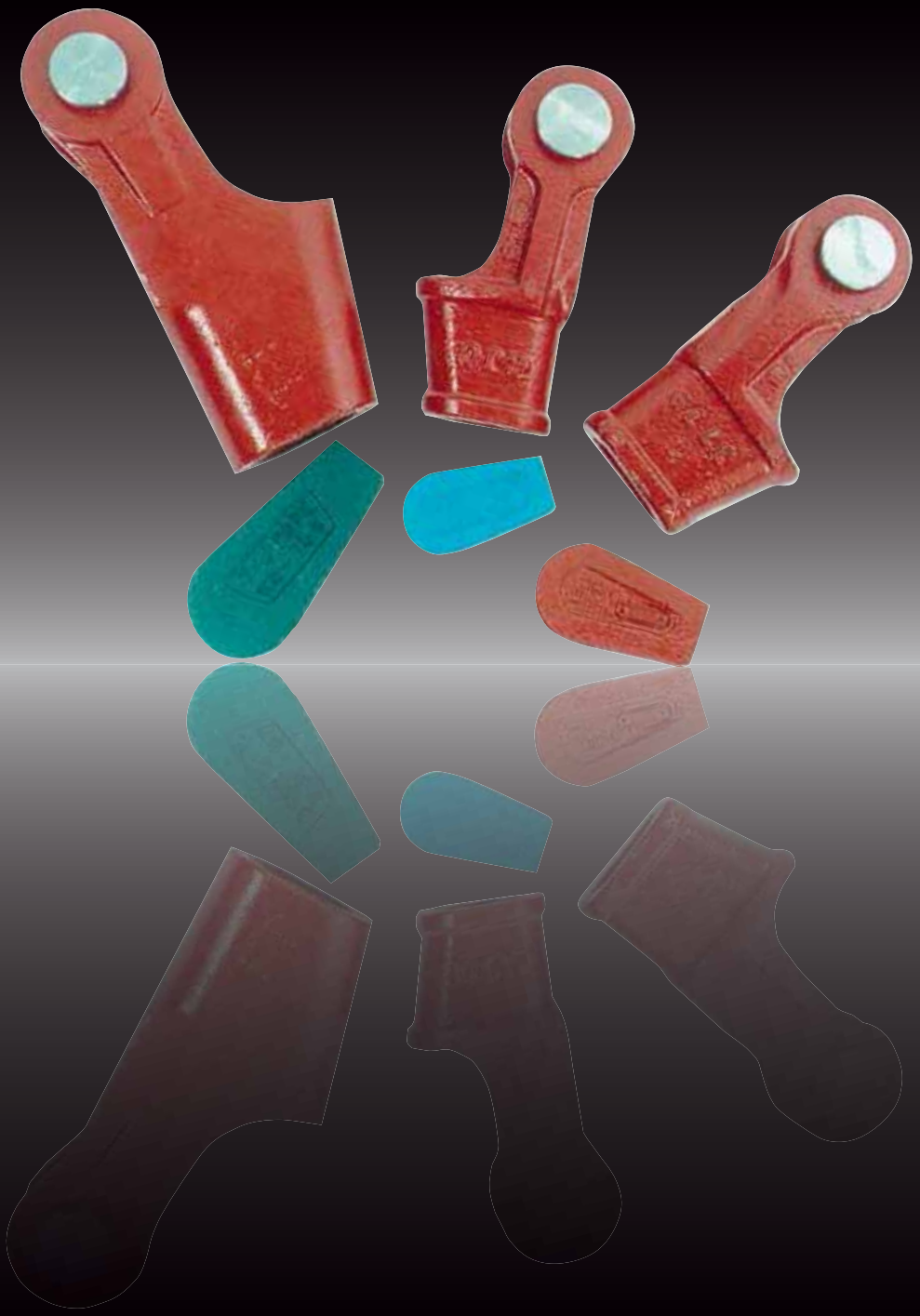
- Remove the standard cast iron cheek weights and replace them with pipe spacers mounted on the tie bolts.
- If more weight is required, steel-plate weights are available.
- After re-assembling the block, the following welding steps must be followed:
  (1) Weld all tie bolt (cross bolt) nuts to tie bolt ends.
  (2) Tack weld center pin nuts, if applicable, to block to the side plates, of the block (do not weld nuts to center pin).
  (3) Weld hook housing (trunnion) end nuts, if any are outside of side plates, to the end of the housing pin (do not weld trunnion nuts to side plates).
  (4) Consult factory for hook nut thread locking product.

During any vibration or shock load application, Johnson Blocks recommends a block, hook or ball substantially stronger than the "dead weight" load to allow for actual shock load values. The size of allowance for shock load is the responsibility of the user.

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

NOTES:

Wedge Sockets



GUNNEBO Industries

Wedge Sockets

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Wedge Sockets

Gunnebo Johnson open wedge sockets combine positive attachment with optimum versatility. Easy-to-change Gunnebo Johnson wedge sockets consist of a C-1040 normalized and tempered cast steel body, a C-1040 cold-finished bar stock pin with cotters, and a ductile iron wedge to specific wire rope size. Together, wedge and body act as a vise which grips the wire rope and locks it in place.

Gunnebo Johnson wedge sockets may be used with multiple sizes of wire rope. To switch from an overhaul ball application calling for a 7/8-inch wire rope to a block application calling for a 1-inch rope, it is not necessary to buy a complete wedge socket. A simple change-out of wedges will suffice. Of the 18 models of wedge sockets offered by Gunnebo Johnson, all can be adapted to at least two sizes of wire rope. The WS-4 and WS-5, in fact, will adapt to three sizes.

Be sure that the wedge is correct for the wire rope size. Each socket manufactured by Gunnebo Johnson has a model number and acceptable rope sizes cast into its body. Each wedge has the rope size and particular socket model it will fit. Wedges are also coded by means of color. Red indicates that the wedge is for the largest size of wire rope stated on its socket. Green indicates that the Wedge is for the smallest size of rope stated on its socket. Blue indicates that the wedge is a rope size of 9/16 inches; black for 7/16 inches.

When using wedge sockets note that two precautions should be taken.

1. Make sure that a sudden jolt or impact does not dislodge a wedge. When installing wire rope, always pre-load the wedge with wire rope in place. Check frequently to re-tighten or re-position as necessary.
2. Make allowance for the crimping effect common with all types of wedge sockets. Experience shows that it will reduce the Safe Working Limit of a line by 20 percent.

Effect of Crimping Action of Wedge Socket on Safe Working Limits of Wire Rope*

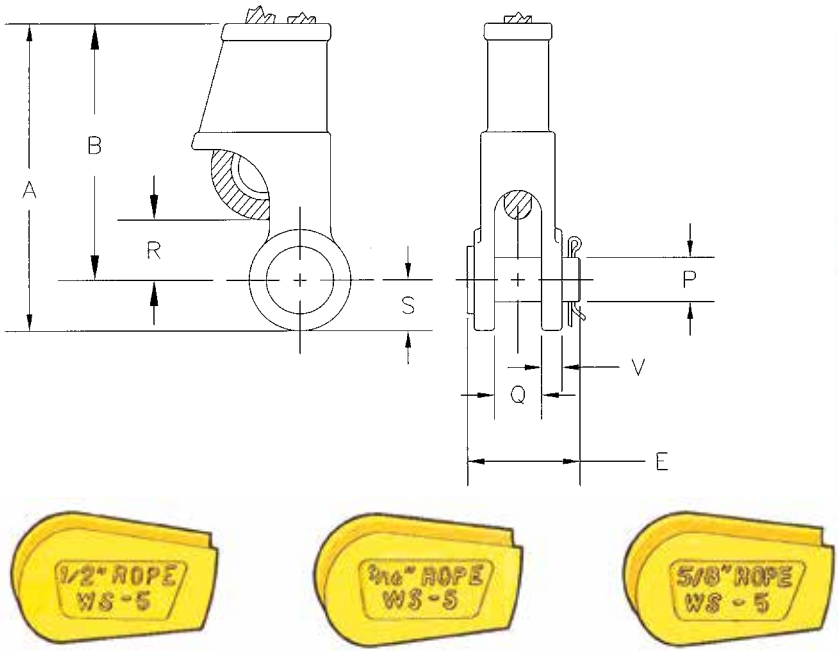
Wire Rope O.D. (Inches)	Weight Per Foot (Pounds)	Line S.W.L. Without Wedge Socket (Tons)	Line S.W.L. With Wedge Socket (Tons)
3/8	26	1.6	1.3
1/2	46	2.9	2.3
9/16	59	3.6	2.9
5/8	72	4.5	3.6
3/4	1.04	6.4	5.1
7/8	1.42	8.7	7.0
1	1.85	11.2	9.0
1-1/8	2.34	14.1	11.3
1-1/4	2.89	17.4	13.9
1-1/2	4.16	24.7	19.8

*Figures based on 20% reduction in safe working limit of single line having 4 to 1 design factor.

Open Wedge Sockets

3/8 to 1-1/2-inch wire rope sizes

For open wedge socket cautions, see page 127



Wedges

Open Wedge Socket

Key to open Wedge Socket model numbers

WS	6	3/4"
Wedge Socket	Body Number	Wire Rope Wedge Size

To order, please specify:

- **Model number**
- **Exact rope size**

NOTE:
This product may be ordered complete or any component part. See order key below.

Examples:

"WS-8 7/8 - inch Open Wedge Socket Complete"

"WS-6 3/4 Open Wedge Socket Less Pin & Cotters"

"7/8-inch Wedge Only for WS-7 Socket Body"

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

For open wedge socket cautions, see bottom of this page

Open Wedge Sockets

Model	Wire Rope Size	Wt.	A Overall Length	B Net Length	E Total Thickness	P Pin Dia.	Q Width Between ears	R Pin to End of Fitting	S Pin to End of Fitting	V Thickness of Ear
WS-4	3/8"	3	6.5	5.38	2.58	1.02	0.94	1.2	1.13	0.44
WS-4	7/16"	3	6.5	5.38	2.58	1.02	0.94	1.2	1.13	0.44
WS-4	1/2"	3	6.5	5.38	2.58	1.02	0.94	1.2	1.13	0.44
WS-5	1/2"	9	8.72	7.25	3.55	1.27	1.38	1.8	1.47	0.65
WS-5	9/16"	9	8.72	7.25	3.55	1.27	1.38	2.0	1.47	0.65
WS-5	5/8"	9	8.72	7.25	3.55	1.27	1.38	2.0	1.47	0.65
WS-6	5/8"	9	8.81	7.31	3.55	1.27	1.5	1.9	1.5	0.62
WS-8A	5/8"	17	11.26	9.13	4.18	1.65	1.69	2.6	2.13	0.5
WS-6	3/4"	9	8.81	7.311	3.55	1.27	1.5	1.4	1.5	0.62
WS-8A	3/4"	16	11.26	9.13	4.18	1.65	1.69	2.4	2.13	0.5
WS-7	7/8"	16	11.13	9.5	3.55	1.27	1.31	2.3	1.63	0.69
WS-8	7/8"	18	11.38	9.5	4.18	1.65	1.69	2.1	1.88	0.81
WS-7	1"	16	11.13	9.5	3.55	1.27	1.31	2.5	1.63	0.69
WS-8	1"	18	11.38	9.5	4.18	1.65	1.69	2.2	1.885	0.81
WS-10	1-1/8"	46	15.44	13.25	4.18	1.65	1.75	3.1	2.19	0.81
WS-11	1-1/8"	54	16	13.5	5.19	2.52	2.44	4.4	2.5	0.87
WS-10	1-1/4"	45	15.44	13.25	4.18	1.65	1.75	3.1	2.19	0.81
WS-11	1-1/4"	54	16	13.5	5.19	2.52	2.44	4.3	2.5	0.87
FS-26	1-3/8"	95	18.38	15	6.36	3.02	2.63	4.2	3.38	1.31
FS-26	1-1/2"	95	18.38	15	6.36	3.02	2.63	4.2	3.38	1.31

⚠ OPEN WEDGE SOCKET CAUTIONS

Strength of wire rope is less than the strength of the wedge socket. WLL of the wire rope is sole responsibility of the customer and/or user.

Do not exceed working loads stated by wire rope manufacturer.

Make allowance for the wedge socket grip efficiency. The grip efficiency can reduce wire rope breaking strength by up to 20%.

After installation of the wire rope and wedge, seat the wedge by anchoring the wedge socket and applying the maximum allowable line pull to the wire rope live end.

A sudden jolt or impact may unseat the wedge. Therefore, the dead or short end of the wire rope shall be clipped with a U-bolt or otherwise made secure.

Wire rope clips used in conjunction with wedge sockets shall be attached only to the unloaded dead end of the wire rope. When a wire rope clip or other device is attached to the dead end of the wire rope, the spacing between the wedge socket and other device shall be in accordance with Gunnebo Johnson Corporation requirements. Where it is desirable to restrain the dead end of the wire rope, it is allowable to have a loop, keeper, or other device around the live end of the wire rope provided it neither restrains nor constrains the live end. Check frequently to re-tighten or re-position wire rope clips as necessary.

Each wedge socket body adapts to two or more wire rope sizes by using a specified wedge for each wire rope size. Use of any wedge other than the specified wedge will result in an improper and unsafe grip.

NOTE: Refer to the Gunnebo Johnson Corp. General Catalog for complete safety recommendations, product specifications, working load limits, ratings and sling configurations. For additional information or questions, call:

1-800-331-5460

NOTES:

Snatch Blocks

GUNNEBO Industries

Snatch Blocks

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Snatch Blocks

Gunnebo Johnson snatch blocks meet worldwide standards and are renowned for their toughness on the job. Designed for the general purpose of construction and oilfield applications, they stand up reliably. Used in high load, intermittent and high temporary load service, these products are counted on for their unfailing ability to keep on working.

With a range of over 250 models from which to choose, there is a model for virtually every application. Single sheave models are available with hook, shackle, and tailboard pin. Top dead end, double sheave, Tiltwall, Manhandler and other oilfield applications round out the line.

Standard Equipment

Strong, precise plates

Forged hook and shackle fittings

ForgeFab sheaves, 16" and larger

Secondary "R" pin securement

Swivel opening side plates

Large latch pin heads

Thrust bearing 30 ton and up end fittings

Lubrication fitting (2 ton model equipped with self-lubricating bronze bushing)

Optional Equipment

Roller Bearings

Proof load test

Flame hardened sheaves,14" and below

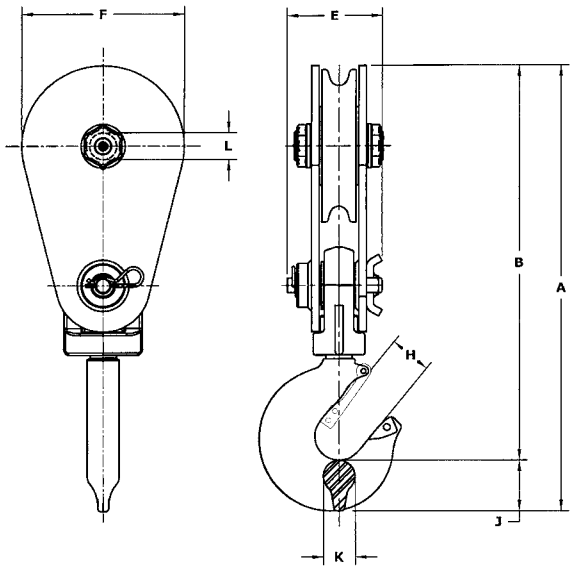
Anti-corrosion coatings

Special designs and WLL

One Sheave Snatch Block with Hook

2 through 30-ton capacities
4 to 1 design factor
3 through 24-inch diameters

For snatch block warnings and use limitations, see pages 147-148



Key to one Sheave Snatch Block with hook model numbers

SB	4	S	4	B	H
Single Shv. Snatch Block	Working Load Limits (Metric Tons)	No. of Shvs: S = 1	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bushed R = Roller Bearing	Type of Fitting: H = Hook

To order, please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

J-Latches are standard equipment

2-Ton 1-Sheave Snatch Blocks, with Hook, 3 inches

Model No.	Standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening With Latch	J Hook Thickness	K Hook Width	L Center Pin Dia.
SB2S3BH	5/16 – 3/8	5	10.48	9.48	2.72	3.20	1.03	1.00	0.75	0.75

4-Ton 1-Sheave Snatch Blocks, with Hook, 4-1/2 - 14 inches

SB4S4BH	3/8 – 1/2	15	14.79	12.94	3.63	4.76	1.28	1.85	1.13	1
SB4S6BH	3/8 – 1/2	19	16.97	15.12	3.63	6.26	1.28	1.85	1.13	1
SB4S8BH	3/8 – 1/2	25	18.97	17.12	3.63	8.26	1.28	1.85	1.13	1
SB4S10BH	3/8 – 1/2	33	21.03	19.18	3.63	10.26	1.28	1.85	1.13	1.25
SB4S12BH	3/8 – 1/2	40	23.03	21.18	3.63	12.26	1.28	1.85	1.13	1.25
SB4S14BH	3/8 – 1/2	50	25.03	23.18	3.63	14.26	1.28	1.85	1.13	1.25

For snatch block warnings and use limitations, see pages 147-148

8-Ton1-Sheave Snatch Blocks, with Hook, 6-14 inches

Model No.	Standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Opening	J Hook Thickness	K Hook Width	L Center Pin Dia.
SB8S6BH	5/8 – 3/4	27	19.08	17.02	4.02	6.24	1.53	2.06	1.38	1.5
SB8S8BH	5/8 – 3/4	35	21.08	19.02	4.02	8.24	1.53	2.06	1.38	1.5
SB8S10BH	5/8 – 3/4	41	23.08	21.02	4.02	10.24	1.53	2.06	1.38	1.5
SB8S12BH	5/8 – 3/4	53	25.11	23.05	4.02	12.18	1.53	2.06	1.38	1.5
SB8S14BH	5/8 – 3/4	64	27.11	25.05	4.02	14.18	1.53	2.06	1.38	1.5

12-Ton1-Sheave Snatch Blocks, with Hook, 6-16 inches

SB12S6BH	3/4 – 7/8	46	21.44	18.87	4.85	6.68	1.75	2.57	1.63	2
SB12S8BH	3/4 – 7/8	57	23	20.43	4.85	8.24	1.75	2.57	1.63	2
SB12S10BH	3/4 – 7/8	70	25	22.43	4.85	10.24	1.75	2.57	1.63	2
SB12S12BH	3/4 – 7/8	91	27	24.43	4.85	12.24	1.75	2.57	1.63	2
SB12S14BH	3/4 – 7/8	104	29	26.43	4.85	14.24	1.75	2.57	1.63	2
SB12S16BH	3/4 – 7/8	125	31.16	28.59	4.85	16.36	1.75	2.57	1.63	2

15-Ton 1-Sheave Snatch Blocks, with Hook, 8-16 inches

SB15S8BH	3/4 – 7/8	64	23.66	20.91	4.85	8.24	2.09	2.75	1.94	2.5
SB15S10BH	3/4 – 7/8	77	25.66	22.91	4.85	10.24	2.09	2.75	1.94	2.5
SB15S12BH	3/4 – 7/8	97	27.66	24.91	4.85	12.24	2.09	2.75	1.94	2.5
SB15S14BH	3/4 – 7/8	108	29.66	26.91	4.85	14.24	2.09	2.75	1.94	2.5
SB15S16BH	3/4 – 7/8	136	31.82	29.07	4.85	16.36	2.09	2.75	1.94	2.5

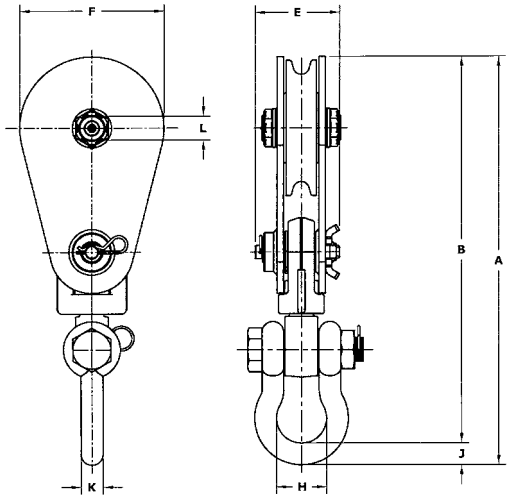
20-Ton 1-Sheave Snatch Blocks, with Hook, 8-18 inches

SB20S8BH	1 – 1 1/8	81	26.15	23.27	5.83	8.24	2.04	2.88	2.25	2.25
SB20S10BH	1 – 1 1/8	95	28.15	25.27	5.83	10.24	2.04	2.88	2.25	2.25
SB20S12BH	1 – 1 1/8	105	30.15	27.27	5.83	12.24	2.04	2.88	2.25	2.25
SB20S14BH	1 – 1 1/8	117	32.15	29.27	5.83	14.24	2.04	2.88	2.25	2.25
SB20S16BH	1 – 1 1/8	148	34.15	31.27	5.83	16.24	2.04	2.88	2.25	2.25
SB20S18BH	1 – 1 1/8	172	36.15	33.27	5.83	18.24	2.04	2.88	2.25	3

30-Ton 1-Sheave Snatch Blocks, with Hook, 20-24 inches

SB30S20BH	1 1/8 – 1 1/4	299	44.36	41.37	5.8	20.24	2.9	2.99	3.5	3.5
SB30S24BH	1 1/8 – 1 1/4	373	48.36	45.37	5.8	24.24	2.9	2.99	3.5	3.5

For snatch block warnings and use limitations, see pages 147-148



Key to one Snatch Block model numbers

SB	4	S	4	B	E
Single Shv. Snatch Block	Working Load Limit (Metric Tons)	No. of Sheaves: S = 1	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bushed R = Roller Bearing	Type of Fitting: S = Shackle

To order, please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

2-Ton 1-Sheave Snatch Blocks, with Shackle, 3 inches

Model no.	Standard Wire Rope Size	Wt.	a Overall Length	b Net Length	e Thickness	f Width	h Width at Bow	j Shackle Thickness	k Shackle Width	l Center Pin Dia.
SB2S3BS	5/16–3/8	5	9.90	9.40	2.72	3.20	1.25	0.50	0.44	0.75

4-Ton 1-Sheave Snatch Blocks, with Shackle, 4-1/2 - 14 inches

SB4S4BS	3/8 - 1/2	16	14.68	13.80	3.63	4.76	2.00	0.88	0.88	1.00
SB4S6BS	3/8 - 1/2	21	16.86	15.98	3.63	6.26	2.00	0.88	0.88	1.00
SB4S8BS	3/8 - 1/2	26	18.86	17.98	3.63	8.26	2.00	0.88	0.88	1.00
SB4S10BS	3/8 - 1/2	35	20.92	20.04	3.63	10.26	2.00	0.88	0.88	1.25
SB4S12BS	3/8 - 1/2	42	22.92	22.04	3.63	12.26	2.00	0.88	0.88	1.25
SB4S14BS	3/8 - 1/2	51	24.92	24.04	3.63	14.26	2.00	0.88	0.88	1.25

8-Ton 1-Sheave Snatch Blocks, with Shackle, 6-14 inches

SB8S6BS	5/8 - 3/4	29	19.18	18.18	4.02	6.24	2.31	1.00	1.00	1.50

For snatch block warnings and use limitations, see pages 147-148

8-Ton 1-Sheave Snatch Blocks, with Shackle, 6-14 inches (continued)

Model No.	Standard Wire Rope Size	Wt.	a Overall Length	b Net Length	e Thickness	f Width	h Width at Bow	j Shackle Thickness	k Shackle Width	l Center Pin Dia.
SB8S8BS	5/8 - 3/4	37	21.18	20.18	4.02	8.24	2.31	1.00	1.00	1.50
SB8S10BS	5/8 - 3/4	43	23.18	22.18	4.02	10.24	2.31	1.00	1.00	1.50
SB8S12BS	5/8 - 3/4	54	25.21	24.21	4.02	12.18	2.31	1.00	1.00	1.50
SB8S14BS	5/8 - 3/4	66	27.21	26.21	4.02	14.18	2.31	1.00	1.00	1.50

12-Ton 1-Sheave Snatch Blocks, with Shackle, 6-16 inches

SB12S6BS	3/4 - 7/8	50	22.25	21.00	4.85	6.68	2.87	1.25	1.25	2.00
SB12S8BS	3/4 - 7/8	61	23.81	22.56	4.85	8.24	2.87	1.25	1.25	2.00
SB12S10BS	3/4 - 7/8	74	25.81	24.56	4.85	10.24	2.87	1.25	1.25	2.00
SB12S12BS	3/4 - 7/8	95	27.81	26.56	4.85	12.24	2.87	1.25	1.25	2.00
SB12S14BS	3/4 - 7/8	108	29.81	28.56	4.85	14.24	2.87	1.25	1.25	2.00
SB12S16BS	3/4 - 7/8	130	31.97	30.72	4.85	16.36	2.87	1.25	1.25	2.00

15-Ton 1-Sheave Snatch Blocks, with Shackle, 8-16 inches

SB15S8BS	3/4 - 7/8	62	23.81	22.56	4.85	8.24	2.87	1.25	1.25	2.50
SB15S10BS	3/4 - 7/8	75	25.81	24.56	4.85	10.24	2.87	1.25	1.25	2.50
SB15S12BS	3/4 - 7/8	95	27.81	26.56	4.85	12.24	2.87	1.25	1.25	2.50
SB15S14BS	3/4 - 7/8	106	29.81	28.56	4.85	14.24	2.87	1.25	1.25	2.50
SB15S16BS	3/4 - 7/8	134	31.97	30.72	4.85	16.36	2.87	1.25	1.25	2.50

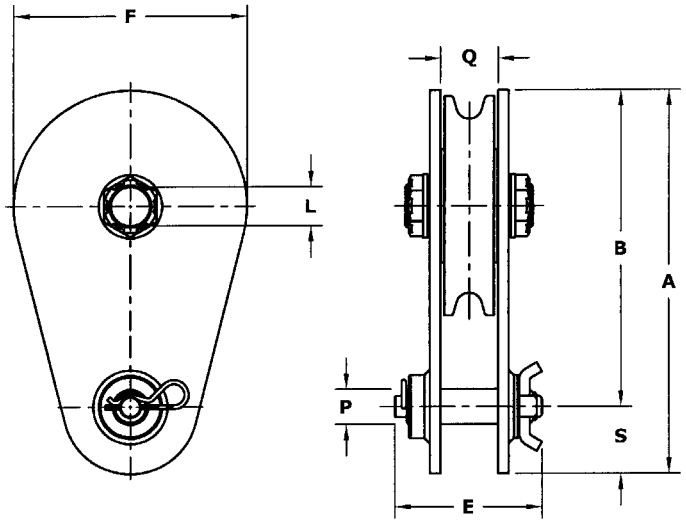
20-Ton 1-Sheave Snatch Blocks, with Shackle, 8-18 inches

SB20S8BS	1 - 1 1/8	95	28.78	27.15	5.83	8.24	4.00	1.63	1.63	2.25
SB20S10BS	1 - 1 1/8	109	30.78	29.15	5.83	10.24	4.00	1.63	1.63	2.25
SB20S12BS	1 - 1 1/8	119	32.78	31.15	5.83	12.24	4.00	1.63	1.63	2.25
SB20S14BS	1 - 1 1/8	130	34.78	33.15	5.83	14.24	4.00	1.63	1.63	2.25
SB20S16BS	1 - 1 1/8	161	36.78	35.15	5.83	16.24	4.00	1.63	1.63	2.25
SB20S18BS	1 - 1 1/8	186	38.78	37.15	5.83	18.24	4.00	1.63	1.63	3.00

30-Ton 1-Sheave Snatch Blocks, with Shackle, 20-24 inches

SB30S20BS	1 1/8 - 1 1/4	296	44.26	42.64	5.80	20.24	4.00	1.63	1.63	3.50
SB30S24BS	1 1/8 - 1 1/4	370	48.26	46.64	5.80	24.24	4.00	1.63	1.63	3.50

For snatch block warnings and use limitations, see pages 147-148



Key to one sheave Tailboard Block model numbers

SB	4	S	4	B	T
Snatch Block	Working Load Limit (Metric Tons)	No. of Sheaves: S = 1	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bush R = Roller Bearing	Type of Fitting: T = Tailboard (no fitting)

To order, please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

2-Ton 1-Sheave Tailboard Blocks, 3 inches

Model No.	Standard Wire Rope Size	Wt	A Overall Length	B Net Length	E Thickness	F Width	L Center Pin Dia.	P Pin Dia.	Q Width Between Plate	S Bottom Plate Radius
SB2S3BT	5/16 – 3/8	3.22	5.33	4.41	2.91	3.20	0.75	0.50	1.06	0.92

4-Ton 1-Sheave Tailboard Blocks, 4-1/2 - 14 inches

SB4S4BT	3/8 – 1/2	9	7.82	6.51	3.79	4.76	1	0.75	1.58	1.31
SB4S6BT	3/8 – 1/2	14	10	8.69	3.79	6.26	1	0.75	1.58	1.31
SB4S8BT	3/8 – 1/2	19	12	10.69	3.79	8.26	1	0.75	1.58	1.31
SB4S10BT	3/8 – 1/2	27	14.06	12.75	3.79	10.26	1.25	0.75	1.58	1.31

For snatch block warnings and use limitations, see pages 147-148

4-Ton 1-Sheave Tailboard Blocks, 4-1/2 - 14 inches (continued)

Model No.	Standard Wire Rope Size	Wt	A Overall Length	B Net Length	E Thickness	F Width	L Center Pin Dia.	P Pin Dia.	Q Width Between Plate	S Bottom Plate Radius
SB4S12BT	3/8 – 1/2	34	16.06	14.75	3.79	12.26	1.25	0.75	1.58	1.31
SB4S14BT	3/8 – 1/2	43	18.06	16.75	3.79	14.26	1.25	0.75	1.58	1.31

8-Ton 1-Sheave Tailboard Blocks,6-14 inches

SB8S6BT	5/8 – 3/4	17	10.61	8.8	4.28	6.24	1.5	1	1.65	1.81
SB8S8BT	5/8 – 3/4	25	12.61	10.8	4.28	8.24	1.5	1	1.65	1.81
SB8S10BT	5/8 – 3/4	31	14.61	12.8	4.28	10.24	1.5	1	1.65	1.81
SB8S12BT	5/8 – 3/4	34	16.64	14.83	4.28	12.18	1.5	1	1.65	1.81
SB8S14BT	5/8 – 3/4	54	18.64	16.83	4.28	14.18	1.5	1	1.65	1.81

12-Ton 1-Sheave Tailboard Blocks, 6-16 inches

SB12S6BT	3/4 – 7/8	29	12.21	9.77	5.23	6.68	2	1.25	2.03	2.44
SB12S8BT	3/4 – 7/8	39	13.77	11.33	5.23	8.24	2	1.25	2.03	2.44
SB12S10BT	3/4 – 7/8	52	15.77	13.33	5.23	10.24	2	1.25	2.03	2.44
SB12S12BT	3/4 – 7/8	72	17.77	15.33	5.23	12.24	2	1.25	2.03	2.44
SB12S14BT	3/4 – 7/8	85	19.77	17.33	5.23	14.24	2	1.25	2.03	2.44
SB12S16BT	3/4 – 7/8	108	21.93	19.49	5.23	16.36	2	1.25	2.03	2.44

15-Ton 1-Sheave Tailboard Blocks, 8-16 inches

SB15S8BT	3/4 – 7/8	39	13.77	11.33	5.23	8.24	2.5	1.25	2.03	2.44
SB15S10BT	3/4 – 7/8	52	15.77	13.33	5.23	10.24	2.5	1.25	2.03	2.44
SB15S12BT	3/4 – 7/8	71	17.77	15.33	5.23	12.24	2.5	1.25	2.03	2.44
SB15S14BT	3/4 – 7/8	82	19.77	17.33	5.23	14.24	2.5	1.25	2.03	2.44
SB15S16BT	3/4 – 7/8	110	21.93	19.49	5.23	16.36	2.5	1.25	2.03	2.44

20-Ton 1-Sheave Tailboard Blocks, 8-18 inches

SB20S8BT	1 – 1 1/8	46	14.24	11.8	6.16	8.24	2.25	1.63	2.53	2.44
SB20S10BT	1 – 1 1/8	60	16.24	13.8	6.16	10.24	2.25	1.63	2.53	2.44
SB20S12BT	1 – 1 1/8	70	18.24	15.8	6.16	12.24	2.25	1.63	2.53	2.44
SB20S14BT	1 – 1 1/8	81	20.24	17.8	6.16	14.24	2.25	1.63	2.53	2.44
SB20S16BT	1 – 1 1/8	112	22.24	19.8	6.16	16.24	2.25	1.63	2.53	2.44
SB20S18BT	1 – 1 1/8	137	24.24	21.8	6.16	18.24	3	1.63	2.53	2.44

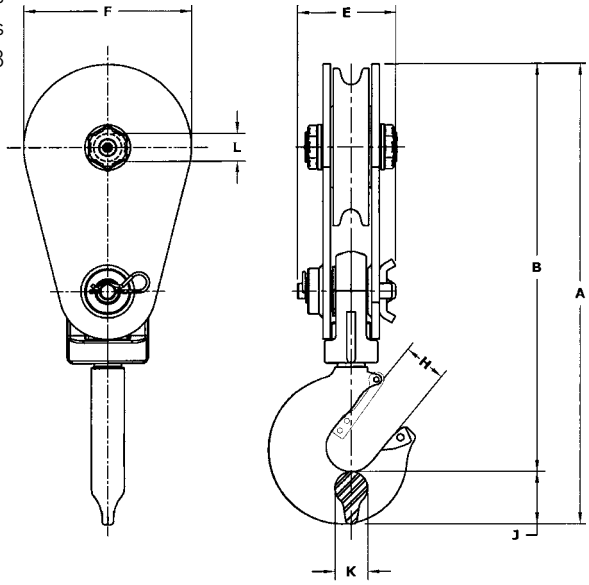
30-Ton 1-Sheave Tailboard Blocks, 20-24 inches

SB30S20BT	1 1/8 – 1 1/4	228	27.34	24.68	6.3	20.24	3.5	2.25	2.53	2.66
SB30S24BT	1 1/8 – 1 1/4	300	31.34	28.68	6.3	24.24	3.5	2.25	2.53	2.66

One Sheave Top Deadend Snatch Blocks with Hook

4 through 20-ton capacities
4 to 1 design factor
4-1/2 through 14-inch diameters

For snatch block warnings and use limitations, see pages 147-148



Key to one sheave Top Deadend Snatch Block with hook model numbers

TD	3	S	4	B	H
Top Deadend Snatch Block	Working Load Limits (Metric Tons)	No. of Sheaves: S = 1	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bush R = Roller Bearing	Type of Fitting: H = Hook

"J" Latch is standard equipment

To order please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

4-Ton 1-Sheave Top Deadend Snatch Blocks with Hook, 4-1/2 - 8 inches

Model No.	Standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Opening With Latch	J Hook Thick-ness	K Hook Width	L Center Pin Dia.	P Pin Dia.	Q Width Betwn. Plates	S Dead End Loc.
TD4S4BH	3/8 – 1/2	18	17.72	15.87	3.63	4.76	1.41	1.85	1.13	1	0.86	1.74	1.06
TD4S6BH	3/8 – 1/2	22	19.22	17.37	3.63	6.26	1.41	1.85	1.13	1	0.86	1.74	1.06
TD4S8BH	3/8 – 1/2	27	21.22	19.37	3.63	8.26	1.41	1.85	1.13	1	0.86	1.74	1.06

8-Ton 1-Sheave Top Deadend Snatch Blocks with Hook, 6-14 inches

TD8S6BH	5/8 – 3/4	30	21.77	19.71	4.02	6.24	1.88	2.06	1.38	1.5	1.07	1.93	1.37

For snatch block warnings and use limitations, see pages 147-148

8-Ton 1-Sheave Top Deadend Snatch Blocks with Hook, 6-14 inches (continued)

Model No.	Standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Opening With Latch	J Hook Thick-ness	K Hook Width	L Center Pin Dia.	P Pin Dia.	Q Width Betwn. Plates	S Dead End Loc.
TD8S8BH	5/8 – 3/4	38	23.77	21.71	4.02	8.24	1.88	2.06	1.38	1.5	1.07	1.93	1.37
TD8S10BH	5/8 – 3/4	45	25.77	23.71	4.02	10.24	1.88	2.06	1.38	1.5	1.07	1.93	1.37
TD8S12BH	5/8 – 3/4	57	27.68	25.62	4.02	12.18	1.88	2.06	1.38	1.5	1.07	1.93	1.37
TD8S14BH	5/8 – 3/4	69	29.68	27.62	4.02	14.18	1.88	2.06	1.38	1.5	1.07	1.93	1.37

12-Ton 1-Sheave Top Deadend Snatch Blocks with Hook, 6-14 inches

TD12S6BH	3/4 – 7/8	53	24.35	21.78	4.85	6.68	2.47	2.57	1.63	2	1.33	2.43	1.37
TD12S8BH	3/4 – 7/8	62	25.88	23.31	4.85	8.24	2.47	2.57	1.63	2	1.33	2.43	1.37
TD12S10BH	3/4 – 7/8	75	27.88	25.31	4.85	10.24	2.47	2.57	1.63	2	1.33	2.43	1.37
TD12S12BH	3/4 – 7/8	95	29.88	27.31	4.85	12.24	2.47	2.57	1.63	2	1.33	2.43	1.37
TD12S14BH	3/4 – 7/8	108	31.88	29.31	4.85	14.24	2.47	2.57	1.63	2	1.33	2.43	1.37

15-Ton 1-Sheave Top Deadend Snatch Blocks with Hook, 8-14 inches

TD15S8BH	3/4 – 7/8	66	26.54	23.79	4.85	8.24	2.38	2.75	1.94	2.5	1.33	2.43	1.37
TD15S10BH	3/4 – 7/8	79	28.54	25.79	4.85	10.24	2.38	2.75	1.94	2.5	1.33	2.43	1.37
TD15S12BH	3/4 – 7/8	98	30.54	27.79	4.85	12.24	2.38	2.75	1.94	2.5	1.33	2.43	1.37
TD15S14BH	3/4 – 7/8	109	32.54	29.79	4.85	14.24	2.38	2.75	1.94	2.5	1.33	2.43	1.37

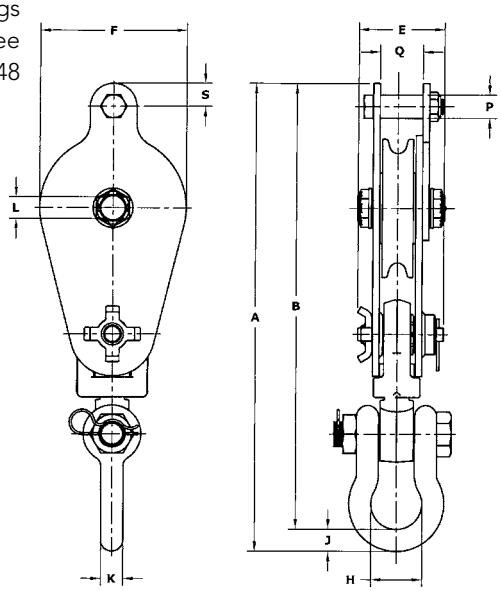
20-Ton 1-Sheave Top Deadend Snatch Blocks with Hook, 14 inches

TD20S14BH	1 – 1 1/8	132	36.47	33.59	5.83	14.24	2.36	2.88	2.25	2.25	1.69	2.93	2.31

One Sheave Top Deadend Snatch Blocks with Shackle

4 through 20-ton capacities
4 to 1 design factor
4-1/2 through 14-inch diameters

For snatch block warnings and use limitations, see pages 147-148



Key to one sheave Top Deadend Snatch block with hook model numbers

TD	3	S	4	B	H
Top Deadend Snatch Block	Working Load Limit (Metric Tons)	No. of Sheaves: S = 1	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bush R = Roller Bearing	Type of Fitting: H = Hook

"J" Latch is standard equipment

To order please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

4-Ton 1-Sheave Top Deadend Snatch Blocks with Shackle, 4-1/2 - 8 inches

Model No.	Standard Wire Rope Size	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Inside Width at Bow	J Shackle Thickness	K Shackle Width	L Center Pin Dia.	P Pin Dia.	Q Width Between Plates	S Dead End Location
TD4S4BS	3/8 – 1/2	19	17.61	16.73	3.63	4.76	2	0.88	0.88	1	0.86	1.74	1.06
TD4S6BS	3/8 – 1/2	23	19.11	18.23	3.63	6.26	2	0.88	0.88	1	0.86	1.74	1.06
TD4S8BS	3/8 – 1/2	28	21.11	20.24	3.63	8.26	2	0.88	0.88	1	0.86	1.74	1.06

8-Ton 1-Sheave Top Deadend Snatch Blocks with Shackle, 6-14 inches

TD8S6BS	5/8 – 3/4	32	21.87	20.87	4.02	6.24	2.31	1	1	1.5	1.07	1.93	1.37

For snatch block warnings and use limitations, see pages 147-148

8-Ton 1-Sheave Top Deadend Snatch Blocks with Shackle, 6-14 inches (continued)

Model No.	Standard Wire Rope Size	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Inside Width at Bow	J Shackle Thick-ness	K Shackle Width	L Center Pin Dia.	P Pin Dia.	Q Width Between Plates	S Dead End Location
TD8S8BS	5/8 – 3/4	40	23.87	22.87	4.02	8.24	2.31	1	1	1.5	1.07	1.93	1.37
TD8S10BS	5/8 – 3/4	47	25.87	24.87	4.02	10.24	2.31	1	1	1.5	1.07	1.93	1.37
TD8S12BS	5/8 – 3/4	59	27.78	26.78	4.02	12.18	2.31	1	1	1.5	1.07	1.93	1.37
TD8S14BS	5/8 – 3/4	71	29.78	28.78	4.02	14.18	2.31	1	1	1.5	1.07	1.93	1.37

12-Ton 1-Sheave Top Deadend Snatch Blocks with Shackle, 6-14 inches

TD12S6BS	3/4 – 7/8	57	25.16	23.91	4.85	6.68	2.87	1.25	1.25	2	1.33	2.43	1.37
TD12S8BS	3/4 – 7/8	66	26.69	25.44	4.85	8.24	2.87	1.25	1.25	2	1.33	2.43	1.37
TD12S10BS	3/4 – 7/8	79	28.69	27.44	4.85	10.24	2.87	1.25	1.25	2	1.33	2.43	1.37
TD12S12BS	3/4 – 7/8	99	30.69	29.44	4.85	12.24	2.87	1.25	1.25	2	1.33	2.43	1.37
TD12S14BS	3/4 – 7/8	112	32.69	31.44	4.85	14.24	2.87	1.25	1.25	2	1.33	2.43	1.37

15-Ton 1-Sheave Top Deadend Snatch Blocks with Shackle, 8-14 inches

TD15S8BS	3/4 – 7/8	64	26.69	25.44	4.85	8.24	2.87	1.25	1.25	2.5	1.33	2.43	1.37
TD15S10BS	3/4 – 7/8	77	28.69	27.44	4.85	10.24	2.87	1.25	1.25	2.5	1.33	2.43	1.37
TD15S12BS	3/4 – 7/8	96	30.69	29.44	4.85	12.24	2.87	1.25	1.25	2.5	1.33	2.43	1.37
TD15S14BS	3/4 – 7/8	107	32.69	31.44	4.85	14.24	2.87	1.25	1.25	2.5	1.33	2.43	1.37

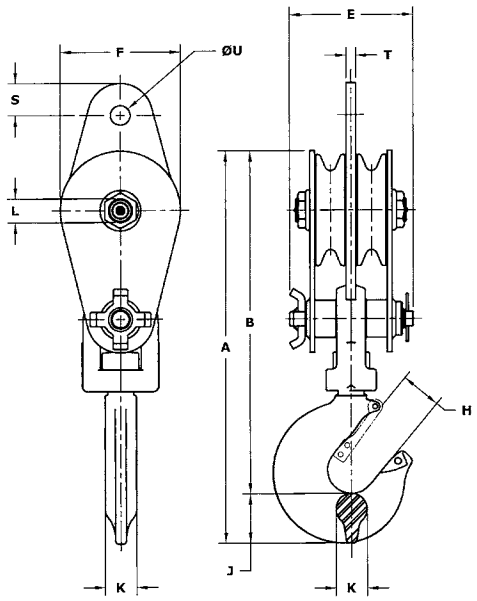
20-Ton 1-Sheave Top Deadend Snatch Blocks with Shackle, 14 inches

TD20S14BS	1 – 1 1/8	146	39.1	37.48	5.83	14.24	4	1.63	1.63	2.25	1.69	2.93	2.31

Two Sheave Snatch Blocks with Hook

8 through 20-ton capacities
4 to 1 design factor
4-1/2 through 14-inch diameters

For snatch block warnings and use limitations, see pages 147-148



Key to two Sheave Snatch Block with hook model numbers

DB	15	D	12	B	H
Dbl. Shv. Snatch Block	Working Load Limit (Metric Tons)	No. of Shvs: D = 2	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bush R = Roller Bearing	Type of Fitting: H = Hook

"J" Latch is standard equipment

To order please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

8-Ton 2-Sheave Snatch Blocks, with Hook, 4-1/2 - 6 inches

Model No.	Standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Opening With Latch	J Hook Thickness	K Hook Width	L Center Pin Dia.	S Dead End Location	T Dead End Thick	U Hole Dia.
DB8D4BH	3/8 – 1/2	28	17.47	15.41	5.77	4.76	1.53	2.06	1.38	1	1.37	0.39	0.76
DB8D6BH	3/8 – 1/2	37	18.97	16.91	5.77	6.26	1.53	2.06	1.38	1	1.37	0.39	0.76

12-Ton 2-Sheave Snatch Blocks, with Hook, 6-14 inches

DB12D6BH	5/8 – 3/4	52	20.47	17.9	6.46	6.24	1.75	2.57	1.63	1.5	1.74	0.52	1.03

For snatch block warnings and use limitations, see pages 147-148

12-Ton 2-Sheave Snatch Blocks, with Hook, 6-14 inches (continued)

Model No.	standard Wire Rope Size	Wt. w/ LAT	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Opening With Latch	J Hook Thickness	K Hook Width	L Center Pin Dia.	S Dead End Location	T Dead End Thick	U Hole Dia.
DB12D8BH	5/8 – 3/4	63	22.47	19.9	6.46	8.24	1.75	2.57	1.63	1.5	1.74	0.52	1.03
DB12D10BH	5/8 – 3/4	78	24.47	21.9	6.46	10.24	1.75	2.57	1.63	1.5	1.74	0.52	1.03
DB12D12BH	5/8 – 3/4	102	26.44	23.87	6.46	12.18	1.75	2.57	1.63	1.5	1.74	0.52	1.03
DB12D14BH	5/8 – 3/4	125	28.44	25.87	6.46	14.18	1.75	2.57	1.63	1.5	1.74	0.52	1.03

15-Ton 2-Sheave Snatch Blocks, with Hook, 6-14 inches

DB15D6BH	5/8 – 3/4	47	21.58	18.83	6.46	6.68	2.09	2.75	1.94	1.5	1.74	0.52	1.03
DB15D8BH	3/4 – 7/8	72	23.13	20.38	6.46	8.24	2.09	2.75	1.94	1.5	1.74	0.52	1.03
DB15D10BH	3/4 – 7/8	84	25.13	22.38	6.46	10.24	2.09	2.75	1.94	1.5	1.74	0.52	1.03
DB15D12BH	3/4 – 7/8	107	27.1	24.35	6.46	12.18	2.09	2.75	1.94	1.5	1.74	0.52	1.03
DB15D14BH	3/4 – 7/8	130	29.1	26.35	6.46	14.18	2.09	2.75	1.94	1.5	1.74	0.52	1.03

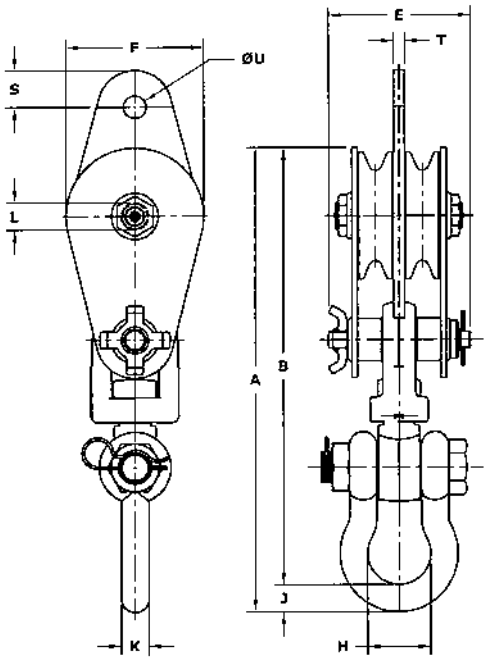
20-Ton 2-Sheave Snatch Blocks, with Hook, 8-14 inches

DB20D8BH	1 – 1 1/8	92	25.62	22.74	7.77	8.24	2.04	2.88	2.25	2	1.81	0.52	1.19
DB20D10BH	1 – 1 1/8	125	27.62	24.74	7.77	10.24	2.04	2.88	2.25	2	1.81	0.52	1.19
DB20D12BH	1 – 1 1/8	157	29.62	26.74	7.77	12.24	2.04	2.88	2.25	2	1.81	0.52	1.19
DB20D14BH	1 – 1 1/8	185	31.62	28.74	7.77	14.24	2.04	2.88	2.25	2	1.81	0.52	1.19

Two Sheave Snatch Blocks with Shackle

8 through 20-ton capacities
4 to 1 design factor
4-1/2 through 14-inch diameters

For snatch block warnings and use limitations, see pages 147-148



Key to two sheave Snatch Block with shackle model numbers

DB	8	D	4	B	S
Dbl. Shv. Snatch Block	Working Load Limit (Metric Tons)	No. of Shvs: D = 2	Shv. size – Nom. O.D.	Sheave Bearing: B = Bronze Bush R = Roller Bearing	Type of Fitting: S = Shackle

To order please specify:

- **Model number**
- **Special wire rope sizes (other than standard)**

8-Ton 2-Sheave Snatch Blocks, with Shackle, 4-1/2 - 6 inches

Model No.	Standard Wire Rope Size	Wt	A Overall Length	B Net Length	E Thickness	F Width	H Width at Bow	J Shackle Thickness	K Shackle Width	L Center Pin Dia.	S Dead End Location	T Dead End Thick	U Hole Dia.
DB8D4BS	3/8 – 1/2	28	17.57	16.57	5.77	4.76	2.31	1	1	1	1.37	0.39	0.76
DB8D6BS	3/8 – 1/2	38	19.07	18.07	5.77	6.26	2.31	1	1	1	1.37	0.39	0.76

12-Ton 2-Sheave Snatch Blocks, with Shackle, 6-14 inches

DB12D6BS	5/8 – 3/4	56	21.28	20.03	6.46	6.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03

For snatch block warnings and use limitations, see pages 147-148

12-Ton 2-Sheave Snatch Blocks, with Shackle, 4-6 inches (continued)

ModelL No.	Standard Wire Rope Size	Wt.	A Overall Length	B Net Length	E Thickness	F Width	H Width at Bow	J Shackle Thickness	K Shackle Width	L Center Pin Dia.	S Dead End Lo-cation	T Dead End Thick	U Hole Dia.
DB12D8BS	5/8 – 3/4	71	23.28	22.03	6.46	8.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB12D10BS	5/8 – 3/4	82	25.28	24.03	6.46	10.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB12D12BS	5/8 – 3/4	106	27.25	26	6.46	12.18	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB12D14BS	5/8 – 3/4	129	29.25	28	6.46	14.18	2.87	1.25	1.25	1.5	1.74	0.52	1.03

15-Ton 2-Sheave Snatch Blocks, with Shackle, 6-14 inches

DB15D6BS	5/8 – 3/4	45	21.73	20.48	6.46	6.68	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB15D8BS	3/4 – 7/8	70	23.28	22.03	6.46	8.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB15D10BS	3/4 – 7/8	82	25.28	24.03	6.46	10.24	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB15D12BS	3/4 – 7/8	105	27.25	26	6.46	12.18	2.87	1.25	1.25	1.5	1.74	0.52	1.03
DB15D14BS	3/4 – 7/8	128	29.25	28	6.46	14.18	2.87	1.25	1.25	1.5	1.74	0.52	1.03

20-Ton 2-Sheave Snatch Blocks, with Shackle, 8-20 inches

DB20D8BS	1 – 1 1/8	107	28.25	26.63	7.77	8.24	4	1.63	1.63	2	1.81	0.52	1.19
DB20D10BS	1 – 1 1/8	139	30.25	28.63	7.77	10.24	4	1.63	1.63	2	1.81	0.52	1.19
DB20D12BS	1 – 1 1/8	171	32.25	30.63	7.77	12.24	4	1.63	1.63	2	1.81	0.52	1.19
DB20D14BS	1 – 1 1/8	199	34.25	32.63	7.77	14.24	4	1.63	1.63	2	1.81	0.52	1.19

Snatch Block Warnings and Use Limitations

This document contains warnings and use limitation information applicable to Gunnebo Johnson Corporation Snatch Blocks and is furnished with all Gunnebo Johnson Corporation shipments. Component distributors and lift system manufacturers must pass on this information in their warnings and use limitation literature where Gunnebo Johnson Corporation Snatch Blocks are involved.

Protect yourself and others

- **NEVER** use a Snatch Block without training.
- **ALWAYS** inform yourself … Ask your employer for the Snatch Block safe use instructions.
- **ALWAYS** comply with applicable Federal and local regulations.
- **ALWAYS** know applied lift system load.
- **NEVER** use a Snatch Block without a legible product identifer.
- **NEVER** overload a Snatch Block.
- **NEVER** ride on a Snatch Block or load.
- **NEVER** rig a Snatch Block improperly.
- **NEVER** use a worn – out or damaged Snatch Block.
- **NEVER** use a Snatch Block in extreme temperatures.
- **NEVER** use a Snatch Block in alkaline acidic conditions.

- **Never use a Snatch Block without training.** OSHA regulation requires responsible work practice.

  "The employer shall permit only those employees qualified by training or experience to operate equipment or machinery" – OSHA 1926.20 (b) (4).

  Employee training should include information given in OSHA training literature, ASME B30.26 - 2010 "Rigging Hardware" standard, lift system manufacturer's literature, Gunnebo Johnson Corporation's DVD of "Recommended Inspection Practices for Johnson Lifting Accessories", and this document.

- **Always inform yourself.** Ask your employer for Snatch Block safe use instruction.

  The employer shall instruct each employee in the recognition and avoidance of unsafe conditions and the regulations applicable to his work environment to control or eliminate any hazards or other exposure to illness or injury" – OSHA 1926.21 (b) (2).

- **Always comply with applicable Federal and local regulations.** Federal and local regulations govern worksite activity.

  Understand all governing laws and safety standards before use of Snatch Blocks in lift systems.

  "If a particular standard is specifically applicable to a condition, practice, means, method, operation, or process, it shall prevail over any different general standard..." — OSHA 1910.5 (c) (1).

  Contact OSHA at (800) 321-6742, or www.OSHA.gov and ASME at (800) 843-2763, or www.ASME.org for reference assistance.

- **Always know applied lift system load.** Avoid improper Snatch Block selection.

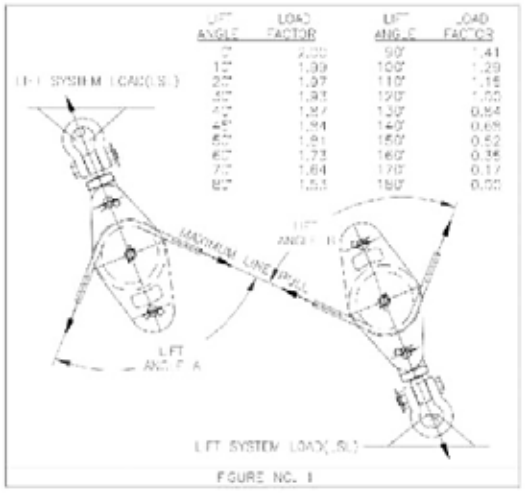
Lift system load (LSL) applied to the snatch block fitting is based upon line pull (LP) and load factor (LF) for a given lift angle (LA).

Maximum LSL applied to snatch block fitting must be known for proper snatch block selection.

LSL is calculated by the following formula:

LSL = (LP) * $(LF)_{LA}$ See illustration and table in Figure No. 1. LSL must be calculated for each snatch block in the lift system.

Snatch Block Working Load Limit (WLL) with appropriate design factor shall be equal to or greater than the corresponding maximum LSL.



- **Never use a Snatch Block without a legible product identifier.** Product Identification is required to insure proper application.

  Snatch Blocks have a product identifier giving WLL, design factor, wire rope range, and important user warnings. The information is required for confirmation of proper application prior to use.

Example of Product Identifier

GUNNEBO JOHNSON CORPORATION
1240 NORTH HARVARD AVE. TULSA OKLAHOMA 74115 USA
800-331-5460 www.gunnebohohnson.com

- **Never overload a Snatch Block.** Understand Working Load Limits.

  The rated load of the rigging block shall not be exceeded. - ASME B 30.26-5.9.1 (b).

  Working Load Limit (WLL) is the maximum working load to be applied to a Snatch Block load fitting for the given application. WLL applies to in-line loading and does not include torsional, binding, shock or side load effects.

  Standard Gunnebo Johnson Corporation WLL's are based on a 4 design factor. Lift dynamics, duty cycle and lift system type may require an increased design factor, hence a reduced WLL. Inattention to required design factor can result in Snatch Block overload. Contact Gunnebo Johnson Corporation Service Department for assistance at (800) 331-5460.

- **Never ride on a Snatch Block or load.** Avoid death or injury.

  General worksite regulations require; No hoisting, lowering, swinging or traveling shall be done while anyone is on the load or hook." — OSHA 1910.180 (h) (3) (v).

  All portions of the human body shall be kept from between the rigging block, its running lines, the load, and any other rigging during lifting or load-handling activities. ASME B30.26-5.9.2 (a)

  All employees shall be kept clear of loads about to be lifted and of suspended loads.

  Snatch Blocks shall not be used in scaffold or personnel lift systems unless complying with applicable federal or local system and fall arrest regulations.

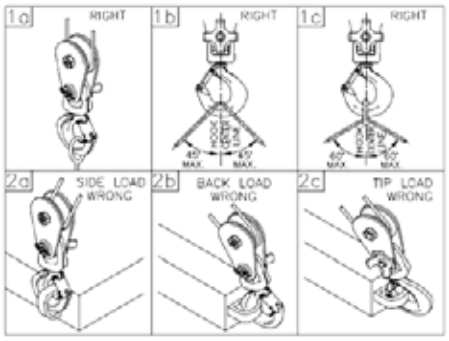
  Personnel Hoisting Exception - OSHA 1926.550 (g) (2) and OSHA Directive CPL 2-1.29

- **Never rig a Snatch Block improperly.** Avoid dropped loads and snatch block damage.

  Rigging shall be centered in the base (bowl/saddle) of the hook to avoid point loading of the hook and rigging disengagement. (See figure 1a, 1b, & 1c).

  Snatch Blocks shall not be used in such a manner as to place a side load or back load on the Snatch Block or load fitting. (See figure 2a, 2b, & 2c.

  When using a latch to close the throat opening of the hook, care shall be taken that the rigging load is not carried by the latch. Hook latches aid in the retention of loose slings under slack rigging conditions only and are not intended to be anti-fouling devices during lifting. Such fouling is extremely dangerous and shall be avoided by proper rigging and controlled lifting dynamics.



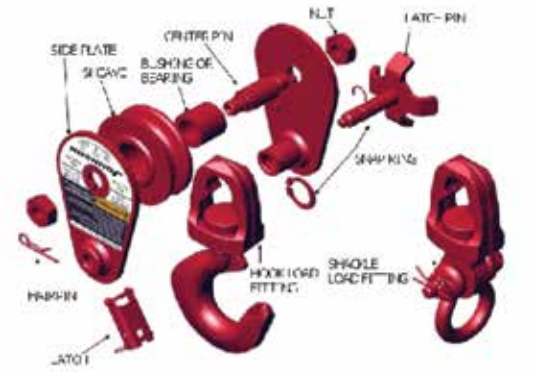
- **Never use a worn-out or damaged Snatch Block.** Avoid malfunction or failure.

  A visual inspection of the Snatch Block shall be performed by a designated person each day before the Snatch Block is used.

  A complete periodic inspection shall be performed by a designated person. ASME B30.26-5.8.3 (a)

  Snatch Blocks shall be removed from service if conditions such as the following are present and shall only be returned to service when approved by a qualified person:

  (a) missing or illegible identification
  (b) misalignment or wobble in sheaves
  (c) excessive sheave groove corrugation or wear
  (d) missing or loose nuts, latch pin, hairpin retainer, snap rings, or other fasteners and retaining devices
  (e) indications of weld spatter or arc strikes
  (f) heated above 150°F (66°C)
  (g) excessive pitting or corrosion
  (h) bent, cracked, twisted, distorted, stretched, elongated, or broken load bearing components
  (i) excessive wear, nicks, or gouges
  (j) a 10% reduction of the original dimension for any cross-section
  (k) excessive damage to load bearing threads
  (l) evidence of unauthorized welding or modifications
  (m) for hooks, the removal criteria specified in ASME B30.10
  (n) for shackles, the removal criteria specified in ASME B 30.26
  (o) other conditions, including visible damage that cause doubts as to the continued use of the rigging block
  (p) Lack of sheave bearing lubrication. Continuous operation: lubricate bushings every 8 hours and roller bearings every 24 hours. Intermittent operation: lubricate bushings and bearing every 14 days.



- **Never use a Snatch Block in extreme temperatures.** Avoid functional or structural failure.

  Snatch Blocks shall not be heated above 150°F (66°C) or used 20°F (11°C) below the sevice temperature given on the identification tag.

  Snatch Block Working Load Limit is valid between 150°F (66°C) and service temperature given on the identification tag.

  Working Load Limit must be reduced when lifting below the service temperature given on the identification tag because cold temperature begins to affect the Snatch Block material properties.

  50% of the WLL must not be exceeded when lifting in temperatures between the service temperature given on the identification tag and 20° F (11°C) below the service temperature.

- **Never use a Snatch Block in alkaline or acidic conditions.** Avoid functional or structural failure.

  Gunnebo Johnson Corporation Snatch Blocks shall not be used in alkaline or acidic conditions. Resulting metal embrittlement and accelerated corrosion can cause sudden failure. Hot dip galvanizing and electro-plating of Snatch Block components shall be done only by Gunnebo Johnson Corporation.

NOTES:

Oilfield Blocks

GUNNEBO
Industries

Oilfield Blocks

Hay Fork Pulley w/Hook or Eye 152

Tong Line Blocks 153

Laydown Blocks 154

Guyline Blocks 155

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Tubing Blocks 160

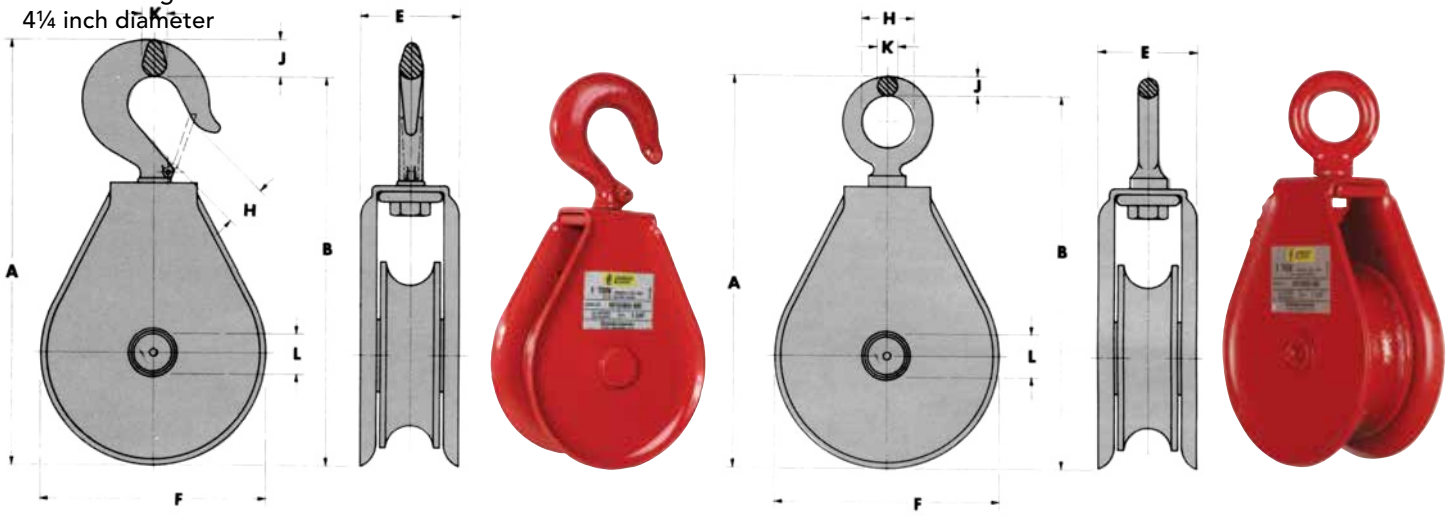
Tilt Wall Blocks – Tailboard Models 161

Tilt Wall Blocks – Shackle Models 162

Hay Fork Pulley

with hook or eye

1 US ton capacity
3.3 to 1 design factor
4¼ inch diameter



Key to Hay Fork Pulley with hook or eye model numbers

HF — Hay Fork Pulley

1 — Working Load Limit (US Tons)

S — Number of Sheaves: S = 2

4 — Sheave Dia. – Nom. O.D.

B — Sheave Bearing: B = Bronze Bush, R = Roller Bearing

E — Type of Fitting: E = Eye, H = Hook

MR — Rope Size: MR = 1¼" Manilla rope, WR = ½" Wire rope

To order please specify:

- **Model number (model number includes rope size)**

Hay Fork Pulley with Hook

Model	Manilla/ Wire Rope (IN)	Wt. (LBS)	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Opening No Latch	H Throat Opening Light Duty	J Hook Thickness	K Hook Width	L Center Pin Dia.
HF1S4BH-MR	1 – 1 1/4	7	9.5	8.687	2.375	5.125	1	0.875	0.781	0.562	1
HF1S4RH-MR	1 – 1 1/4	7	9.5	8.687	2.375	5.125	1	0.875	0.781	0.562	1
HF1S4BH-WR	3/8 1/2	8	9.5	8.687	2.375	5.125	1	0.875	0.781	0.562	1
HF1S4BH-WR	3/8 – 1/2	7	9.5	8.687	2.375	5.125	1	0.875	0.781	0.562	1

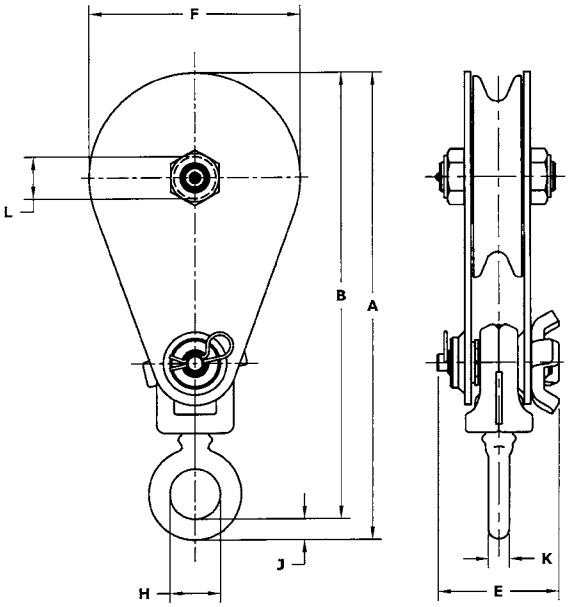
Hay Fork Pulley with Eye

Model	Manilla/Wire Rope (IN)	Wt. (LBS)	A Overall Length	B Net Length	E Thick-ness	F Width	H Eye Opening	J Eye Thick-ness	K Eye Width	L Center Pin Dia.
HF1S4BE-MR	1 – 1 1/4	7	9	8.562	2.375	5.125	1.187	0.437	0.437	1
HF1S4RE-MR	1 – 1 1/4	7	9	8.562	2.375	5.125	1.187	0.437	0.437	1
HF1S4BE-WR	3/8 – 1/2	8	9	8.562	2.375	5.125	1.187	0.437	0.437	1
HF1S4RE-WR	3/8 – 1/2	7	9	8.562	2.375	5.125	1.187	0.437	0.437	1

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Tong Line Blocks

2.8 Metric ton capacity
4 to 1 design factor
6 through 12-inch diameter



Key to Tong Line Block model numbers

TL	2.8	S	6	B	E
Tong Line Blocks	Working Load Limits (Metric Tons)	Number of Shvs: S = 1	Shv. dia. – Nom. O.D.	Sheave Bearing: B = Bronze Bush R = Roller Bearing	Type of Fitting: E = Eye

To order please specify:

- **Model number**
- **Wire Rope size (Other than standard)**

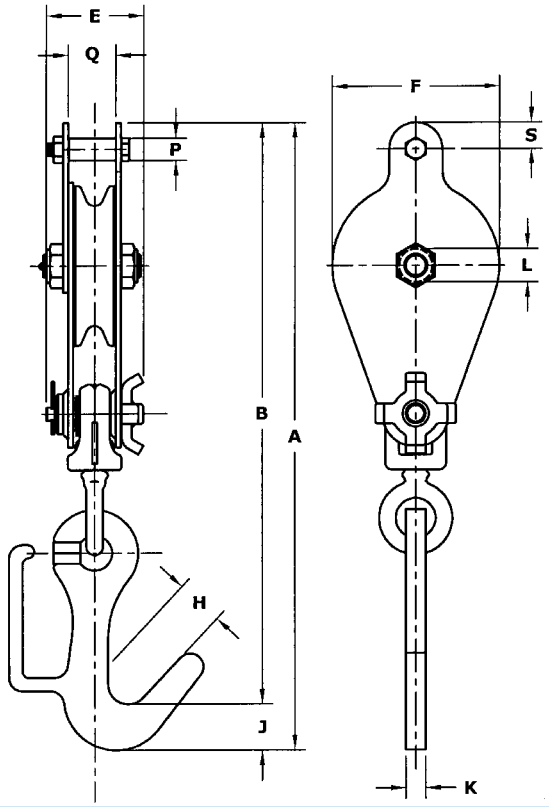
Tong Line Blocks

With Swivel Eye Model	SHV OD	Wire Rope (In)	Wt. (LBS)	A Overall Length	B Net Length	E Thick-ness	F Width	H Inside Width of Eye	J Eye Thickness	K Eye Width	L Center Pin Dia.
TL2.8S6BE	6	1/2 – 5/8	15	13.99	13.37	3.63	6.26	1.4	0.63	0.63	1
TL2.8S6RE	6	1/2 – 5/8	15	13.99	13.37	3.63	6.26	1.4	0.63	0.63	1
TL2.8S8BE	8	1/2 – 5/8	21	15.99	15.37	3.63	8.26	1.4	0.63	0.63	1
TL2.8S8RE	8	1/2 – 5/8	22	15.99	15.37	3.63	8.26	1.4	0.63	0.63	1
TL2.8S10BE	10	1/2 – 5/8	29	18.05	17.42	3.63	10.26	1.4	0.63	0.63	1.25
TL2.8S10RE	10	1/2 – 5/8	28	18.05	17.42	3.63	10.26	1.4	0.63	0.63	1.25
TL2.8S12BE	12	1/2 – 5/8	37	20.05	19.42	3.63	12.26	1.4	0.63	0.63	1.25
TL2.8S12RE	12	1/2 – 5/8	40	20.05	19.42	3.63	12.26	1.4	0.63	0.63	1.25

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Laydown Blocks

1 metric-ton capacity
4 to 1 design factor
6 through 8-inch diameters



Key to laydown block model numbers

LD	1	S	6	B	H
Laydown Blocks	Working Load Limit (Metric Tons)	Number of Shvs: S = 1	Shv. dia. – Nom. O.D.	Sheave Bearing: B = Bronze Bush R = Roller Bearing	Type of Fitting: H = Hook

To order please specify:

- **Model number**
- **Wire Rope size (Other than standard)**

Laydown Blocks

Model No.	Wire Rope Size	Wt.	A Overall Length	B Net Length	E Thick-ness	F Width	H Throat Open-ing	J Hook Thick-ness	K Hook Width	L Center Pin Dia.	P Pin Dia.	Q Width Be-tween Plates	S Dead End Location
LD1S6BH	1/2 – 5/8	21	23.68	21.96	3.63	6.26	3	1.72	0.75	1	0.86	1.74	1.06
LD1S6RH	1/2 – 5/8	23	23.500	21.875	3.281	6.250	3	1.625	1	1	0.86	1.74	1.06
LD1S8BH	1/2 – 5/8	28	25.68	23.96	3.63	8.26	3	1.72	0.75	1	0.86	1.74	1.06
LD1S8RH	1/2 – 5/8	27	25.625	24	3.281	8.250	3	1.625	1	1	0.86	1.74	1.06

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Guyline Blocks

- **Metric Rated**
- **3 to 1 Design Factor**
- **Available in Both Single and Double Sheave**

GL	**5**	**S**	**6**
GUYLINE block	Working Load Limit (Metric Tons)	Number of Sheaves: S = 1	Sheave O.D. – Inches

* Specify model number * Wire rope size (other than standard)

- **Metric rated**
- **Available in both Single and Double Sheave**
- **3 to 1 design factor**

Single Sheave

Model	Working Load Limit (Metric Tons)	SHV OD	Wire Rope (IN)	Wt. (LBS)
GL 5S6	5 MT	6	1/2	25
GL 7.5S6	7.5 MT	6	5/8	25

Double Sheave

Model	Working Load Limit (Metric Tons)	SHV OD	Wire Rope (IN)	Wt. (LBS)
GL 10D6	10 MT	6	1/2	45
GL 15D6	15 MT	6	5/8	42

- 3:1design factor
- Meet specifications
- Metric rated

WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

MANHANDLER™
Derrick Blocks

For snatch block warnings and use limitations, see pages 157-159

Derrick Snatch Block
For Overhead Hoisting Applications

WLL	Model	Wire Rope	Sheave Diameter	Wt. (LBS)
4T	MHSB4S8TS	3/8" - 1/2"	8"	33
12T	MHSB12S10TS	1/2" - 9/16"	10"	83
12T	MHSB12S14TS	5/8" - 3/4"	14"	122
20T	MHSB20S14TS	3/4" - 7/8"	14"	179

- *Galvanized Coating Standard*

Personnel Lifting Snatch Block
Tether Style Backup Securing System

WLL	Model	Wire Rope	Sheave Diameter	Wt. (LBS)
1500	MHSB1S8RS	3/8" - 7/16"	8"	22

- *Two additional attachment points for secondary tether connection, backup securing system. Read and understand recommended attachment data and applicable regulations prior to use.*

For The Oil and Gas Industry

- **Exclusive Ring-Guard® design retains internal parts in case of failure.**
- **Sealed, tapered roller bearings, no periodic lubrication needed.**
- **Heavy duty, with forged, high strength alloy steel yokes, swivels, tees and shackles, quenched and tempered.**
- **R-pin retainers prevent inadvertent opening of latch pins, when properly in place.**
- **No extra, cumbersome outside bolts to undo or lose when opening the block.**
- **Quality you can depend on from Gunnebo Johnson, an API Q1 and ISO 9001 certified manufacturing center.**

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Man Handler™ Snatch Block Warnings and Use Limitations

This document contains warnings and use limitation information applicable to Gunnebo Johnson Corporation Man Handler Snatch Blocks and is furnished with all Gunnebo Johnson Corporation shipments. Component distributors and lift system manufacturers must pass on this information in their warnings and use limitation literature where Gunnebo Johnson Corporation Man Handler Snatch Blocks are involved.

Protect yourself and others

- **NEVER** use a Manhandler Snatch Block without training.
- **ALWAYS** inform yourself … Ask your employer for Man Handler Snatch Block safe use instructions.
- **ALWAYS** comply with applicable Federal and local regulations.
- **ALWAYS** know applied lift system load.
- **NEVER** use a Man Handler Snatch Block without a legible product identifier.
- **NEVER** overload a Man Handler Snatch Block.
- **NEVER** use a Man Handler Snatch Block without complying with fail arrest regulations.
- **NEVER** rig a Man Handler Snatch Block improperly.
- **NEVER** use a worn – out or damaged Man Handler Snatch Block.
- **NEVER** use a Man Handler Snatch Block in extreme temperatures.
- **NEVER** use a Man Handler Snatch Block in alkaline acidic conditions.

- **Never use a Man Handler snatch block without training.** OSHA regulation requires responsible work practice.

  "The employer shall permit only those employees qualified by training or experience to operate equipment or machinery" – OSHA 1926.20 (b) (4).

  "...The training shall include... the nature of ... fall hazards..." – OSHA 1926.454 (a) (1).

  Employee training should include information given in OSHA training literature, lift system manufacturer's literature and this document.

- **Always inform yourself.** Ask your employer for ManHandler snatch block safe use instruction.

  "The employer shall instruct each employee in the recognition and avoidance of unsafe conditions and the regulations applicable to his work environment to control or eliminate any hazards or other exposure to illness or injury" – OSHA 1926.21 (b) (2).

- **Always comply with applicable Federal and local regulations.** Federal and local regulations govern worksite activity.

  Understand all governing laws and safety standards before use of Man Handler snatch blocks in lift systems.

  The following are some regulations governing material and personnel handling systems.

  "Safety Requirements for Scaffolding" – OSHA 1910.28

  "When hoisting machines are used on two-point suspension scaffolds, such machines shall be of a design tested and approved by a nationally recognized testing laboratory..." – OSHA 1910.28 (g) (3).

  "Powered Platforms, Manlifts, and Vehicle-Mounted Work Platforms" – OSHA 1910 Subpart F.

"Scaffolds" — OSHA 1926 Subpart L.

"Material Hoists, Personnel Hoists and Elevators" — OSHA 1926.552

"No person shall be allowed to ride on material hoists except for the purposes of inspection and maintenance."— OSHA 1926.552 (b) (1) (ii).

"Personnel hoists used in bridge tower construction shall be approved by a registered professional engineer and erected under the supervision of a qualified engineer competent in this field." — OSHA 1926.552 (c) (17) (i).

"Crawler Locomotive and Truck Cranes; No hoisting, lowering, swinging or traveling shall be done while anyone is on the load or hook." — OSHA 1910.180 (h) (3) (v).

Construction worksite regulation stipulates: "The use of a crane or derrick to hoist employees on a personnel platform is *prohibited, except* when the erection, use and dismantling, of conventional means of reaching the worksite, such as a personnel hoist, ladder, stairway, aerial lift, elevating work platform or scaffold, would be *more hazardous* or is *not possible* because of structural design or worksite conditions." — OSHA 1926.550 (g) (2).

"If a particular standard is specifically applicable to a condition, practice, means, method, operation, or process, it shall prevail over any different general standard..." — OSHA 1910.5 (c) (1).

The following safety standards provide additional recommendations for material and personnel handling systems:

"Safety Requirements for Personnel Hoists on Construction and Demolition Sites" — ANSI A10.4

"Prohibition of Snatch Blocks. No snatch blocks or hood type sheaves shall be used on any hoist tower." — ANSI A10.5-13.5.9

"Safety Requirements for Rope-Guided and Nonguided Workers' Hoists for Construction and Demolition Operations." — ANSI A10.22

"Work Platforms Suspended from Cranes or Derricks." — ANSI A10.28

"Safety Requirements For Powered Platforms and Traveling Ladders and Gantries for Building Maintenance." — ANSI A120.1

Contact OSHA at (800) 321-6742, or www.OSHA.gov and ASME at (800) 843-2763, or www.ASME.org for reference assistance.

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- **Always know applied lift system load.** Avoid improper Man Handler snatch block selection.

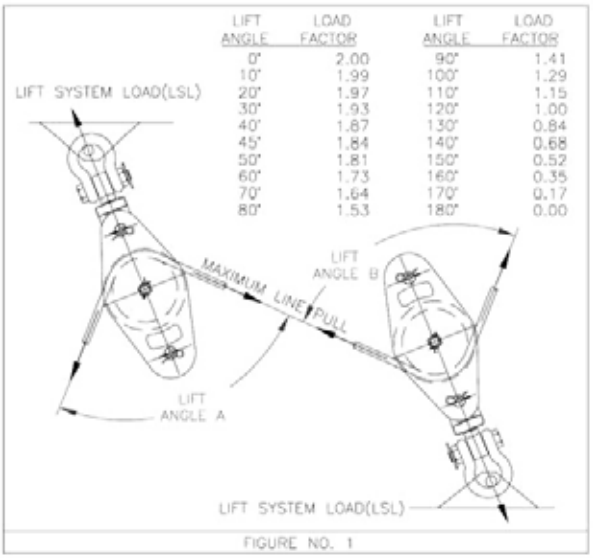
  Lift system load (LSL) applied to the snatch block fitting is based upon line pull (LP) and load factor (LF) for a given lift angle (LA).

  Maximum LSL applied to snatch block fitting must be known for proper snatch block selection.

  LSL is calculated by the following formula:

  LSL = (LP) (LF) $_{LA.}$ See illustration and table in Figure No. 1. LSL must be calculated for each snatch block in the lift system.

  Snatch block WLL with appropriate design factor shall be equal to or greater than the corresponding maximum LSL.



LIFT ANGLE	LOAD FACTOR	LIFT ANGLE	LOAD FACTOR
0°	2.00	90°	1.41
10°	1.99	100°	1.29
20°	1.97	110°	1.15
30°	1.93	120°	1.00
40°	1.87	130°	0.84
45°	1.84	140°	0.68
50°	1.81	150°	0.52
60°	1.73	160°	0.35
70°	1.64	170°	0.17
80°	1.53	180°	0.00

FIGURE NO. 1

- **Never use a Man Handler snatch block without a legible product identifier.** Product Identification is required to insure proper application.

  Man Handler snatch blocks have a product identifier giving WLL, design factor, wire rope range, and important user warnings. The information is required for confirmation of proper application prior to use.

Example of Product Identifer

- **Never overload a Man Handler snatch block.** Understand Working Load Limits

  Working Load Limit (WLL) is the maximum working load to be applied to a Man Handler snatch block for the given application. WLL applies to in-line loading and does not include torsional, binding, shock or side load effects.

  The following are some regulations and standards governing lift system design factors.

  "Scaffolds shall not be loaded in excess of the working load for which they are intended." — OSHA 1910.28 (a) (7).

  "Scaffolds and their components shall be capable of supporting without failure at least four times the maximum intended load." — OSHA 1910.28 (a) (4).

  "Each suspension rope, including connecting hardware, used on adjustable suspension scaffolds shall be capable of supporting, without failure, at least six times the maximum intended load applied or transmitted to that rope with the scaffold operating at either the rated load of the hoist, or two (minimum) times the stall load of the hoist, whichever is greater." — OSHA 1926.451 (a) (4).

  "Factor of safety for driving-machines and sheaves." — ANSI A10.4-22.9.

  "When blocks are used to provide additional load carrying capacity, the suspension system shall be designed to support four times the rated load of the hoist multiplied by the number of active ropes." — ANSI 10.8-6.2.2.

  "The personnel rating design factor shall not be less than 12.0" — API 2C — 7.55.

  Standard Gunnebo Johnson Corporation WLL's are based on a 4 design factor for material handling and a 12 design factor for handling personnel. Lift dynamics, duty cycle and lift system type may require an increased design factor, hence a reduced WLL. Inattention to required design factor can result in Man Handler snatch block overload. Contact Gunnebo Johnson Corporation Service Department for assistance at (800) 331-5460.

- **Never use a Man Handler snatch block without complying with fall arrest system regulations.** Avoid death or injury.

  "Personal fall protection. Employees on working platforms shall be protected by a personal fall arrest system meeting the requirements of appendix C, Section I, of this standard, and as otherwise provided by this standard." — OSHA 1910.66 (j).

  "Ladder safety devices, and related support systems..." — OSHA 1926.1053 (a) (22).

  "Safety Belts, Lifelines, and Lanyards" — OSHA 1926.104.

"This subpart sets forth requirements and criteria for fall protection in construction workplaces..." — OSHA 1926.500 (a) (1).

"This section sets forth requirements for employers to provide fall protection systems..." — OSHA 1926.501(a) (1).

"Fall protection systems required by this part shall comply with applicable provisions..." — OSHA 1926.502 (a) (1).

"Fall protection. All persons shall be provided with and shall use a personal fall pretection system complying with ANSI Z359.1-1992 (R1999)..." — ASME A120.1.-3.7.5.10.

"Fall protection equipment and emergency-descent devices shall not be used as a primary support to accomplish work." — ANSI 10.8-6.1.9.

"Full body harnesses shall be used and the lanyard shall be secured to the suspended platform or above the crane hook or ball." — ANSI A10.28-10.2.

Man Handler snatch blocks shall not be used in personnel lift systems unless complying with applicable federal or local system and fall arrest regulations.

- **Never rig a Man Handler snatch block improperly.** Avoid dropped loads and snatch block damage.

  Man Handler snatch block pin keepers must be properly installed before use.

  Man Handler snatch block must be rigged to insure necessary freedom for in-line loading alignment.

  Man Handler snatch block equipped with tether line option must be rigged with no more than a maximum of six (6) inches of tether line slack. Excessive slack under emergency conditions may result in injury or death to lifted personnel. See Figure No. 2.

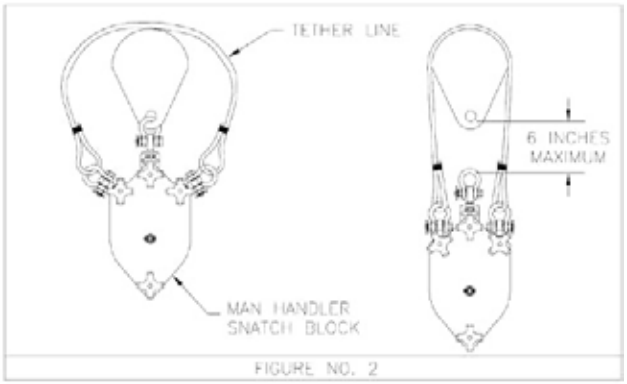


FIGURE NO. 2

Caution: Use side plate slot for block handling only. User is responsible for all other applications. See Figure No. 3.

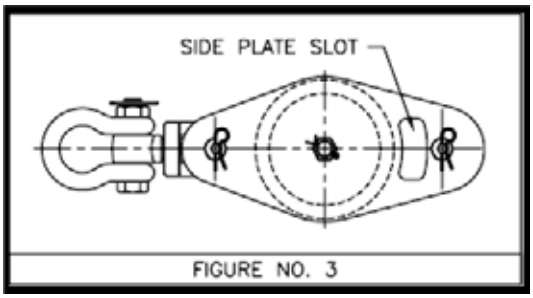


FIGURE NO. 3

- **Never use a worn-out or damaged Man Handler snatch block.** Avoid malfunction or failure.

  OSHA regulations, ASME and ANSI standards previously referenced give appropriate lift system inspection requirements.

  A thorough periodic inspection of the Man Handler snatch block shall be made on the basis of (A) frequency of use; (B) severity of service conditions; (C) nature of lifts being made; and (D) experience gained on the service life of Man Handler snatch blocks used in similar circumstances. Such inspections shall in no event be at intervals greater than once every 12 months.

  Man Handler snatch block components with wear greater than 10 percent of the original dimension for any cross-section shall be removed from service.

  Man Handler snatch block side plates, latch pin, sheave, center pin, yoke, keepers, swivel "T" or attachment that is broken, cracked, bent, stretched, twisted or severly corroded shall be removed from service and shall not be repaired.

  Bearing replacement is indicated when sheave wobble or poor- rotation is observed.

  Corrugated sheave groove reduces wire rope life and should be replaced to maximize wire rope performance.

- **Never use a Manhandler snatch block in extreme temperatures.** Avoid functional or structural failure.

  Man Handler Snatch Blocks shall be permanently removed from service if heated above 300°F.

  Man Handler Snatch Blocks shall not be used while heated above 200°F or cooled below -40°F.

  Man Handler Snatch Blocks Working Load Limit (WLL) on product identifier is valid between temperatures of 200°F and -4°F.

  Man Handler snatch Blocks WLL shall be reduced by 50% when cooled below -4°F.

- **Never use a Man Handler snatch block in alkaline or acidic conditions.** Avoid structural failure.

  Gunnebo Johnson Corporation Man Handler Snatch Blocks shall not be used in alkaline or acidic conditions. Resulting metal embrittlement and accelerated corrosion can cause sudden failure. Hot dip galvanizing and electro-plating of Man Handler components shall be done only by Gunnebo Johnson Corporation.

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- API 8C Certified
- Concurrent hardening™ on sheave grooves
- Additional wire rope sizes upon request
- Non-spring loaded duplex hook
- Optional cheek weight kits available
- Equipped with timken tapered roller bearings
- Hook positioning device, 8 positions
- Clevis and rod hook accessory available

Model Number	Working Load Limit (US Tons)	Rod Hook Clevis Working Load Limit (US Tons)	Number of Sheaves	Sheave Diameter
TB 75T 20TTA	75	12.5	3	20″
TB 75T 20TTB	75	12.5	3	20 ″
TB 100T 24TTA	100	20	3	24 ″
TB 100T 24TTB	100	20	3	24 ″
TB 100Q 24TTA	100	20	4	24 ″
TB 100Q 24TTB	100	20	4	24 ″
TB 150T 30TTA	150	22.5	3	30 ″
TB 150T 30TTB	150	22.5	3	30 ″
TB 150Q 30TTA	150	22.5	4	30 ″
TB 150Q 30TTB	150	22.5	4	30 ″

Description	Weighted	Wire Rope Size	Part Number	Weight lbs.
75 ton Triple	20TTA	7/8″	475667028QR1	1572
75 ton Triple	20TTB	7/8″	475688028QR1	2035
100 ton Triple	24TTA	1 ″	475671032QR1	2132
100 ton Triple	24TTB	1 ″	475689032QR1	2839
100 ton Quad	24TTA	1 ″	475672032QR1	2262
100 ton Quad	24TTB	1 ″	475690032QR1	2972
150 ton Triple	30TTA	1 1/8 ″	475674036QR1	3620
150 ton Triple	30TTB	1 1/8 ″	475691036QR1	4775
150 ton Quad	30TTA	1 1/8 ″	475675036QR1	3822
150 ton Quad	30TTB	1 1/8 ″	475692036QR1	4979

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Tilt Wall Blocks – Tailboard Models

- 30, 40, and 55 MT WLL
- Shackle or Tailboard
- Timken Bearing Equipped
- Easy to open, larger hand nut
- Light weight, rugged
- High strength alloy steel construction
- Wide range of rope sizes

Model Number	Working Load Limit (Metric Tons)	Wire Rope Size	Sheave O.D.	Wt.
		30 MT		
TW30S16TT	30	1″	16″	235
TW30S16TT	30	1-1/8″	16″	235
TW30S16TT	30	1-1/4″	16″	235
TW30S16TT	30	1-3/8″	16″	235
TW30S16TT	30	1-1/2″	16″	235
TW30S20TT	30	1″	20″	250
TW30S20TT	30	1-1/8″	20″	250
TW30S20TT	30	1-1/4″	20″	250
TW30S20TT	30	1-3/8″	20″	250
TW30S20TT	30	1-1/2″	20″	250
		40 MT		
TW40S18TT	40	1″	18″	330
TW40S18TT	40	1-1/8″	18″	330
TW40S18TT	40	1-1/4″	18″	330
TW40S18TT	40	1-3/8″	18″	330
TW40S18TT	40	1-1/2″	18″	330
TW40S24TT	40	1″	24″	420
TW40S24TT	40	1-1/8″	24″	420
TW40S24TT	40	1-1/4″	24″	420
TW40S24TT	40	1-3/8″	24″	420
TW40S24TT	40	1-1/2″	24″	420
TW40S24TT	40	1-5/8″	24″	420
TW40S24TT	40	1-3/4″	24″	420
TW40S24TT	40	1-7/8″	24″	420
TW40S24TT	40	2″	24″	420
		55 MT		
TW55S20TT	55	1″	18″	390
TW55S20TT	55	1-1/8″	18″	390
TW55S20TT	55	1-1/4″	18″	390
TW55S20TT	55	1-3/8″	18″	390
TW55S20TT	55	1-1/2″	18″	390
TW55S24TT	55	1″	24″	450
TW55S24TT	55	1-1/8″	24″	450
TW55S24TT	55	1-1/4″	24″	450
TW55S24TT	55	1-3/8″	24″	450
TW55S24TT	55	1-1/2″	24″	450
TW55S24TT	55	1-5/8″	24″	450
TW55S24TT	55	1-3/4″	24″	450
TW55S24TT	55	1-7/8″	24″	450
TW55S24TT	55	2″	24″	450
TW55S24TT	55	2-1/4″	24″	450

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Tilt Wall Blocks – Shackle Models

Model Number	Working Load Limit (Metric Tons)	Wire Rope Size	Sheave O.D.	Wt.
		30 MT		
TW30S16TS	30	1″	16″	235
TW30S16TS	30	1-1/8″	16″	235
TW30S16TS	30	1-1/4″	16″	235
TW30S16TS	30	1-3/8″	16″	235
TW30S16TS	30	1-1/2″	16″	235
TW30S20TS	30	1″	20″	250
TW30S20TS	30	1-1/8″	20″	250
TW30S20TS	30	1-1/4″	20″	250
TW30S20TS	30	1-3/8″	20″	250
TW30S20TS	30	1-1/2″	20″	250
		40 MT		
TW40S18TS	40	1″	18″	330
TW40S18TS	40	1-1/8″	18″	330
TW40S18TS	40	1-1/4″	18″	330
TW40S18TS	40	1-3/8″	18″	330
TW40S18TS	40	1-1/2″	18″	330
TW40S24TS	40	1″	24″	420
TW40S24TS	40	1-1/8″	24″	420
TW40S24TS	40	1-1/4″	24″	420
TW40S24TS	40	1-3/8″	24″	420
TW40S24TS	40	1-1/2″	24″	420
TW40S24TS	40	1-5/8″	24″	420
TW40S24TS	40	1-3/4″	24″	420
TW40S24TS	40	1-7/8″	24″	420
TW40S24TS	40	2″	24″	420
		55 MT		
TW55S20TS	55	1″	20″	390
TW55S20TS	55	1-1/8″	20″	390
TW55S20TS	55	1-1/4″	20″	390
TW55S20TS	55	1-3/8″	20″	390
TW55S20TS	55	1-1/2″	20″	390
TW55S24TS	55	1″	24″	450
TW55S24TS	55	1-1/8″	24″	450
TW55S24TS	55	1-1/4″	24″	450
TW55S24TS	55	1-3/8″	24″	450
TW55S24TS	55	1-1/2″	24″	450
TW55S24TS	55	1-5/8″	24″	450
TW55S24TS	55	1-3/4″	24″	450
TW55S24TS	55	1-7/8″	24″	450
TW55S24TS	55	2″	24″	450
TW55S24TS	55	2-1/4″	24″	450

Bail Blocks

GUNNEBO
Industries

Standard features

- Top dead-end shackle standard on all models.
- Full coverage side plates and center plates to extend beyond sheave rims to deflect damaging side blows.
- Center plates between every sheave to prevent rope skip. Direct bearing lubrication through center pin channels. All components are field replaceable.
- Exclusive ForgeFab sheaves (16" O.D. and larger) have smooth flame-hardened grooves that promote slow, even wear.

Key to Bail Block model numbers

B	45	Q	14	T
Bail Block	Working load limit – (US tons)	Number of sheaves: S=1, D-2, T-3, Q-4, QN-5, SX-6	Sheave size – nom. o.d.	Tapered Roller Bearing

To order please specify: model no. – wire rope size

Standard
- Tapered roller bearings for high RPM service.

Special request options:
- Diamond pattern side plates
- Bronze bushings
- Fully galvanized

Custom designs
- High capacity, custom engineered blocks available on request.

One sheave

Model number	Wt. (tons)	Sheave dia. (in.)	Wt. (lbs.)
B10S8-T	10	8	36
B10S10-T	10	10	44
B15S10-T	15	10	68
B10S12-T	10	12	56
B15S12-T	15	12	84
B10S14-T	10	14	67
B15S14-T	15	14	130
B30S14-T	30	14	172
B20S16-T	20	16	147
B30S16-T	30	16	190
B35S16-T	35	16	194
B20S18-T	20	18	212
B30S18-T	30	18	217
B35S18-T	35	18	222
B20S20-T	20	20	239
B30S20-T	30	20	243
B35S20-T	35	20	247
B45S20-T	45	20	292
B30S24-T	30	24	338
B35S24-T	35	24	342
B45S24-T	45	24	390

Two sheave

Model number	Wt. (tons)	Sheave dia. (in.)	Wt. (lbs.)
B10D8-T	10	8	45
B10D10-T	10	10	65
B15D10-T	15	10	69
B20D10-T	20	10	101
B10D12-T	10	12	84
B15D12-T	15	12	87
B20D12-T	20	12	131
B30D12-T	30	12	135
B10D14-T	10	14	99
B15D14-T	15	14	102
B20D14-T	20	14	173
B30D14-T	30	14	181
B35D14-T	35	14	185
B20D16-T	20	16	223
B30D16-T	30	16	229
B35D16-T	35	16	233
B45D16-T	45	16	301
B30D18-T	30	18	328
B35D18-T	35	18	331
B45D18-T	45	18	346
B35D20-T	35	20	375
B45D20-T	45	20	389
B55D20-T	55	20	458
B45D24-T	45	24	517
B55D24-T	55	24	597

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Three sheave

Model number	Wt. (tons)	Sheave dia. (in.)	Wt. (lbs.)
B10T8-T	10	8	59
B15T8-T	15	8	64
B10T10-T	10	10	84
B15T10-T	15	10	90
B20T10-T	20	10	131
B30T10-T	30	10	139
B15T12-T	15	12	115
B20T12-T	20	12	176
B30T12-T	30	12	180
B35T12-T	35	12	184
B15T14-T	15	14	133
B20T14-T	20	14	234
B30T14-T	30	14	243
B35T14-T	35	14	247
B45T14-T	45	14	267
B30T16-T	30	16	310
B35T16-T	35	16	314
B45T16-T	45	16	318
B45T18-T	45	18	453
B55T18-T	55	18	528
B65T18-T	65	18	562
B45T20-T	45	20	532
B55T20-T	55	20	565
B65T20-T	65	20	599
B55T24-T	55	24	739
B65T24-T	65	24	773

Three sheave (continued)

Model number	Wt. (tons)	Sheave dia. (in.)	Wt. (lbs.)
B15Q8-T	15	8	91
B20Q8-T	20	8	138
B15Q10-T	15	10	109
B20Q10-T	20	10	161
B30Q10-T	30	10	171
B35Q10-T	35	10	175
B15Q12-T	15	12	142
B20Q12-T	20	12	224
B30Q12-T	30	12	224
B35Q12-T	35	12	232
B45Q12-T	45	12	245
B15Q14-T	15	14	164
B20Q14-T	20	14	294
B30Q14-T	30	14	303
B35Q14-T	35	14	306
B45Q14-T	45	14	316
B35Q16-T	35	16	393
B45Q16-T	45	16	399
B55Q16-T	55	16	487
B45Q18-T	45	18	600
B65Q18-T	65	18	656
B65Q20-T	65	20	734
B75Q20-T	75	20	912
B95Q24-T	95	24	1174

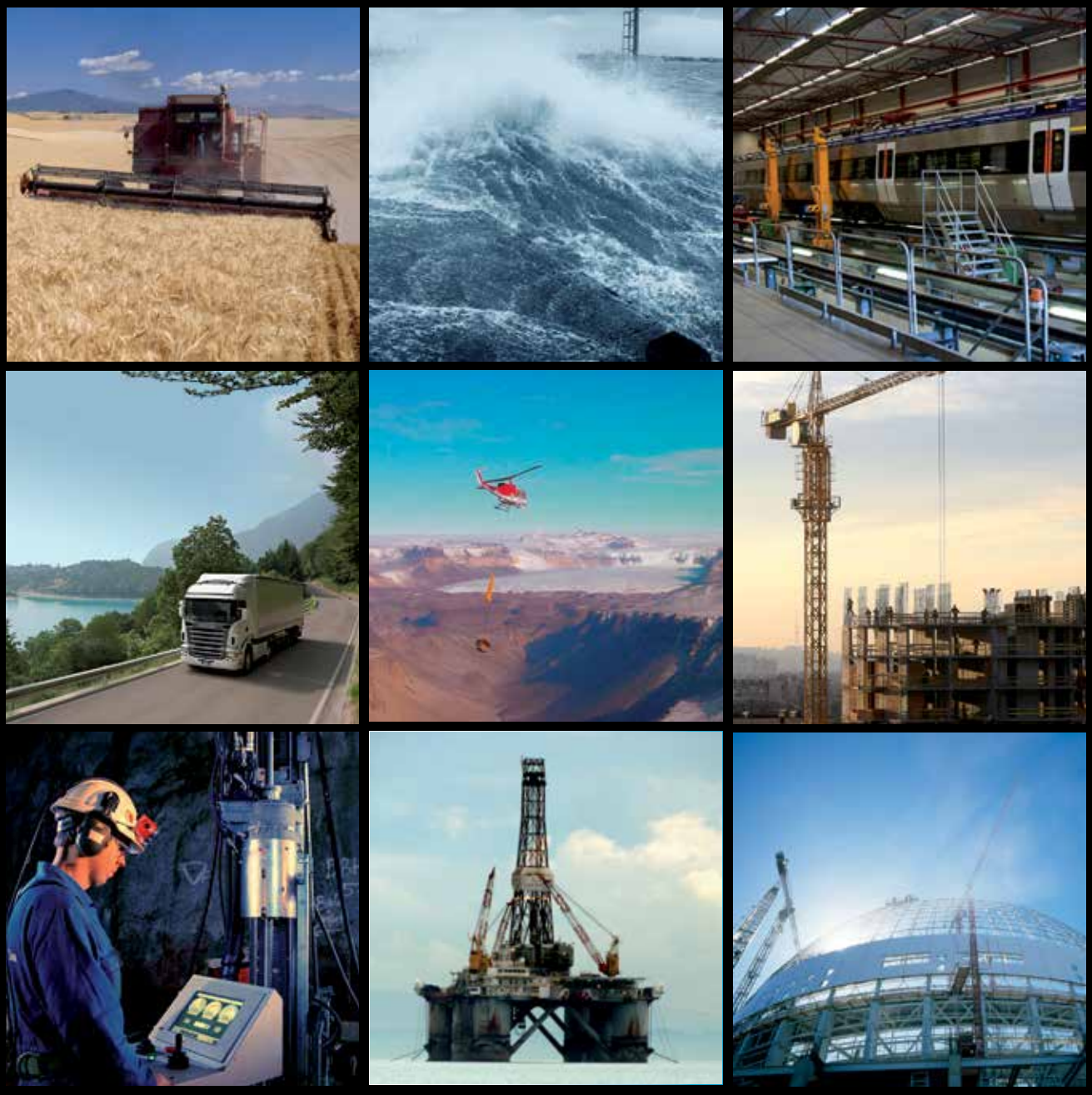
Five sheave

B100QN20-T	100	20	1108
B115QN24-T	115	24	1428

Six sheave

B125SX20-T	125	20	1562
B135SX24-T	135	24	2044

Where there is growth and development in the world...



...Gunnebo Lifting products can be found.

GUNNEBO Industries

Wire Rope Sheaves

GUNNEBO Industries

Wire Rope Sheaves

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Wire Rope Sheaves

Standard

- 3 through 72-inch sheave diameters
- 1/4 through 2-1/4-inch wire rope sizes*
- 4 to 1 design factor**
- Plain bore (no bearings), bronze bushing, roller bearing without inner race, roller bearing with inner race, and tapered roller bearing types
- Cast iron, ductile iron, cast steel, drop forged and ForgeFab® roll-forged steel plate material types
- 1/2 through 10-inch shaft diameters
- 3/4 through 4-inch hub widths
- Flame hardened grooves to minimum Rockwell "C" 35 on all sheaves 16 inches and larger

Optional (price on application)

- Custom designs to any reasonable shaft, hub, sheave O.D. or wire rope size
- Flame hardened grooves on sheaves 14 inches and smaller
- Electroplate, inorganic zinc compound and other corrosion-resistant coatings
- Hub-located grease fittings
- Modifications as required to API and other applicable industry standards
- Special shafts, furnished for any sheave listed

* Accompanying tables to this section give MINIMUM and MAXIMUM allowable wire rope sizes for each sheave. Johnson will furnish sheaves with grooves to any specification within the MINIMUM and MAXIMUM range at no extra charge.

** 4 to 1 design factor based on Working Load Limit of 6 x 25 filler wire Type W IWRC (Independent Wire Rope Core) IPS hoisting rope as it applies to the MAXIMUM size listed under conditions of 180° wrap.

Johnson furnishes ForgeFab® Sheaves both as popular products in their own right and as the original equipment most preferred by major O.E.M. accounts. ForgeFab® customers are made up of Original Equipment Manufacturers, leading distributors, and our own company. Through these customers, the product finds its way into all types of equipment from mobile cranes to overhead cranes … all types of applications from lifting drill pipe to opening dam gates…all types of industries from mining to marine, logging to construction.

Sheaves by ForgeFab® Division fall into two major categories. First is our wide range of conventional sheaves. These are formed by either casting or drop forging, with grooves machined to correct rope size. The materials from which they are made are ductile iron, cast iron, cast steel and forged steel.

Second is the revolutionary ForgeFab® – a superior strength line of wire rope sheaves which can be supplied without long delays – and at savings of from 15 to 50 percent over traditional cast versions.

ForgeFab® grew out of a need for readily available sheaves at a reasonable cost. Faced with increasing environmental restrictions, continuing materials shortages and growing customer concern, we set out to find a better way. We started by developing our own specialized equipment. We ended up with an entirely new patented process. One which did its job without castings and die forgings and did it in less time.

Each ForgeFab® Sheave begins as a steel disc cut from C 1035 steel plate. The disc is then fired, its rim coming into contact with a heavy alloy roller which forms and forges the rim and wire rope groove. The result is a sheave whose integral web/rim design is much stronger, whose machined seamless tubing hubs are double-fillet welded to the web, and which may, as a product, be obtained in an almost endless variety of bore diameters, widths and tolerances.

ForgeFab® Sheaves are currently offered in sizes 16 through 72 inches, with flame hardened grooves standard on all sizes 16 inches and above. The means to produce still other sizes of ForgeFab® Sheaves, both larger and smaller, is now under development.

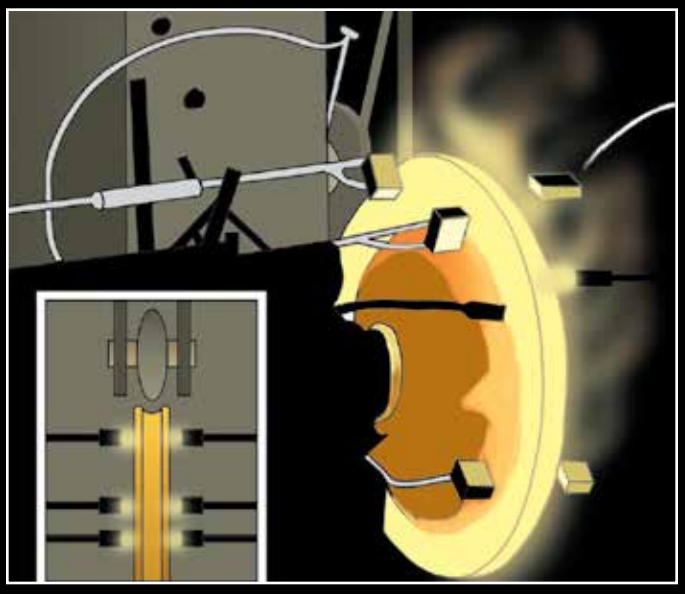
RIM dimensional chart

Rim width is determined by Wire Rope Size and Web Thickness

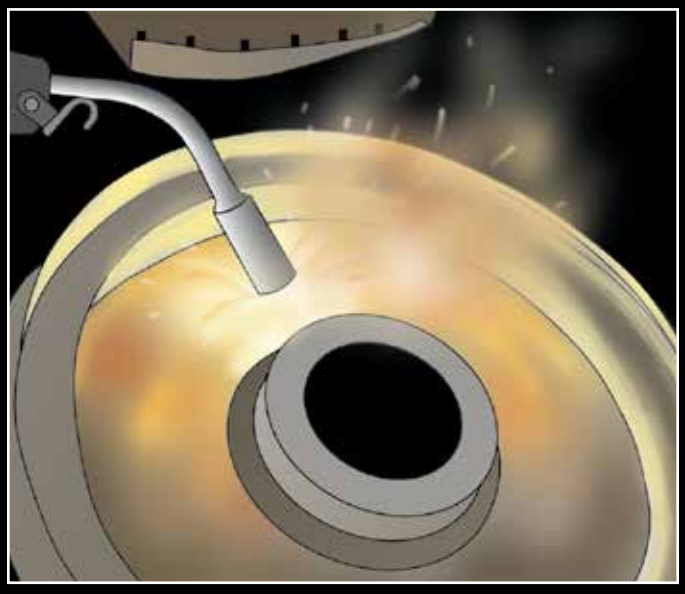
Wire Rope Size H	Web Thickness B		Rim Width C		Groove Depth D	
	LT. WT.	**HVY. WT.**	**LT. WT.**	**HVY. WT.**	**LT. WT.**	**HVY. WT.**
3/8	3/8	1/2	15/16	1 1/16	9/16	9/16
7/16	3/4	1/2	1	1 3/16	11/16	11/16
1/2	3/8	1/2	1 1/8	1 1/4	3/4	3/4
9/16	1/2	3/4	1 1/4	1 5/8	7/8	7/8
5/8	1/2	3/4	1 7/16	1 3/4	15/16	15/16
3/4	1/2	3/4	1 1/2	1 3/4	1	1 1/8
7/8	3/4	3/4	2	2	1 5/16	1 5/16
1	3/4	3/4	2 1/4	2 1/4	1 1/2	1 1/2
1 1/8	3/4	1	2 1/4	2 1/2	1 5/8	1 11/16
1 1/4	1	1 1/4	2 1/2	2 3/4	1 3/4	1 7/8
1 3/8	1 1/4	1 1/2	3	3 1/4	1 15/16	2 1/16
1 1/2	1 1/4	1 1/2	3 1/4	3 1/2	2 1/8	2 1/4

ForgeFab® Sheaves

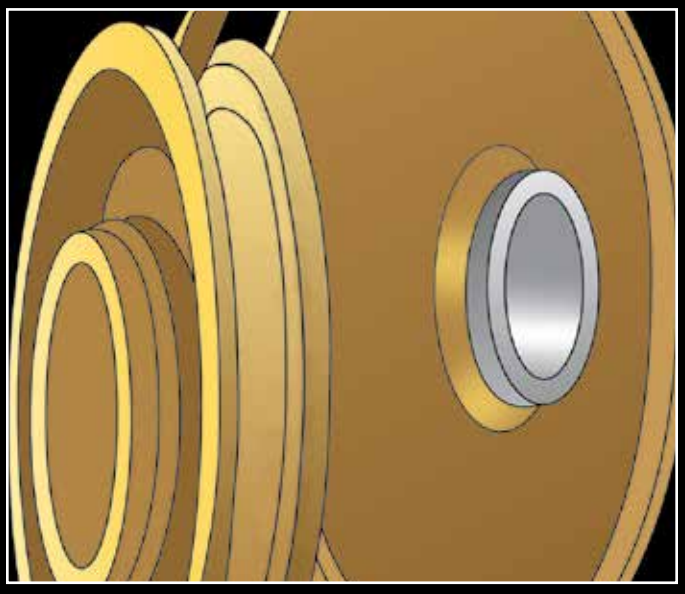
1. *Each ForgeFab® sheave begins as a computer driven, precision disc cut from proprietary chemistry alloy steel plate.*



2. *The steel disc is heated to forging temperature and its edge rotated against a system of staged rollers to forge the sheave rim and wire rope groove.*



3. *A precisely machined hub is arc welded to the forged disc. A variety of welding techniques is used, including: fillet, submerged arc, partial penetration and full penetration, depending upon the application.*

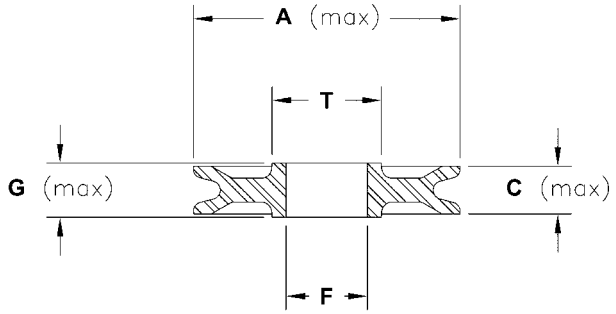


4. *The result - a precision built ForgeFab sheave.*

Alloy steel used on ForgeFab sheaves is specially made to provide highly desirable characteristics of strength, ductility and hardenability. The wear path on ForgeFab sheaves is flame-hardened or, alternatively, spin-hardened for long life. Spin hardening, a proprietary process, provides the ultimate in wear for a very reasonable cost. Flame hardening, standard at 16 inches diameter and over, is a market proven system for general applications. Flame hardening is also available on smaller sizes, if required. All sheaves can be equipped with lubrication fittings when specified.

Gunnebo Johnson holds API 8A and 8C licenses.

Finish Bored Wire Rope Sheaves



FINISH BORED SHEAVE

To order, please specify:

• Nominal Sheave O.D. • Model number • Wire Rope size

Forgefab will furnish sheaves to specified wire rope size within the minimum and maximum wire rope size indicated, at no additional charge.

Finish Bored Sheave

A Nominal O.D.	Part No.	Material *	Weight lbs	Wire Rope Size Minimum	Wire Rope Size Maximum	F Hub Bore	G Hub Width	T Hub O.D.	B Web Thickness
3	4243	C.I	0.9	3/8	3/8	.875/.876	0.750	1.125	-
3	3383	S.	1.35	1/4	7/16	.875/.876	1.000	1.375	-
3	3405	S.	1.3	1/4	5/8	1.1255/1.265	1.250	1.625	-
4-1/4	2536	D.I.	4	1/4	7/8	1.251/1.252	1.505	1.810	-
4-1/4	3476	D.I.	1.8	1 MR	1-1/4MR	1.250/1.251	1.500	1.810	-
4-1/2	3014	D.I.	3	3/16	3/4	1.312/1.313	1.560	2.000	-
6	2978	D.I.	4	3/8	5/8	1.125/1.126	1.125	2.250	-
6	3015	D.I.	5	3/16	1	1.312/1.313	1.562	2.750	-
6	3094	D.I.	5	1/4	1	1.8745/1.8755	1.625	3.130	-
6	3095	D.I.	6	1/4	1	2.3111/2.3121	1.625	3.130	-
6	3175	D.I.	8	3/8	1-1/8	2.4995/2.5005	2.000	4.000	-
8	3016	D.I.	8	1/4	7/8	1.312/1.313	1.562	2.500	-
8	3013	D.I.	6	1/4	3/4	1.250/1.251	1.375	2.500	-
8	3019	D.I.	6	1/4	3/4	1.312/1.313	1.375	2.500	-
8	3096	D.I.	10	3/8	7/8	1.8745/1.8755	1.625	3.130	-
8	3097	D.I.	9	5/16	1	2.3111/2.3121	1.625	3.130	-
8	3177	D.I.	13	3/8	1-1/4	2.4990/2.5000	2.000	4.000	-
8	3178	D.I.	11	5/16	1-1/8	3.2486/3.2496	2.000	4.020	-
8	3293	C.S.	17	7/16	1-1/2	2.7505/2.7515	2.500	4.000	-
8	3294	C.S.	15	1/4	1-1/8	3.4985/3.4995	2.500	4.000	-
10	3245	D.I.	12	3/8	3/4	1.8745/1.8755	1.560	2.880	-
10	3246	D.I.	12	3/16	3/4	2.0611/2.0621	1.560	2.880	-
10	3098	D.I.	12	5/16	1	1.8745/1.8755	1.625	2.880	-
10	3099	D.I.	12	5/16	1	2.3111/2.3121	1.625	2.880	-
10	3179	D.I.	19	5/16	1-1/8	2.4990/2.5000	2.000	4.000	-
10	5601	D.I.	19	5/16	1	2.5611/2.5621	1.750	4.000	-
10	5606	D.I.	20	5/16	1-1/8	2.9990/3.000	2.000	4.000	-
10	3180	D.I.	20	5/16	5/16	3.2486/3.2496	2.000	4.000	-

*** Material: C.I.** – Cast Iron / **D.I.** – Ductile Iron / **S.** – Steel / **C.S.** – Cast Steel

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Finish Bored Sheave (continued)

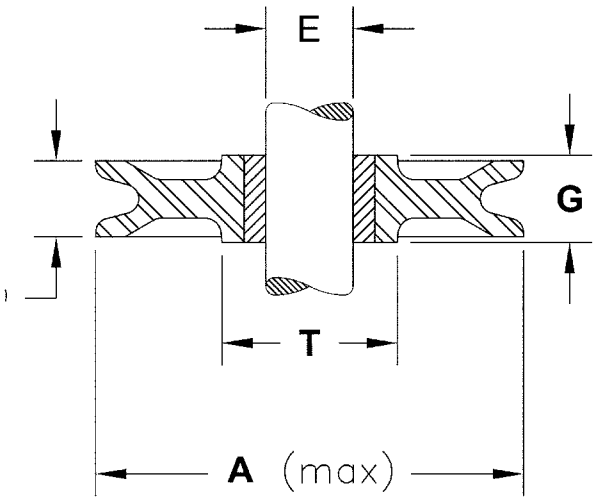
A Nominal O.D.	Part No.	Material *	Weight lbs	Wire Rope Size Minimum	Wire Rope Size Maximum	F Hub Bore	G Hub Width	T Hub O.D.	B Web Thickness
10	3295	C.S.	23.0	1/2	1-1/2	2.7505/2.7515	2.500	4.500	-
10	3296	C.S.	21.0	1/2	1-1/2	3.4980/3.4990	2.500	4.500	-
12	3373	D.I.	18.0	3/8	7/8	1.3120/1.3130	1.563	3.188	-
12	6884	D.I.	17.0	5/16	7/8	1.8745/1.8755	1.563	3.188	-
12	3100	D.I.	17.0	3/8	1	1.8745/1.8755	1.625	3.188	-
12	6885	D.I.	18.0	5/16	1	2.0611/2.0621	1.563	3.188	-
12	3101	D.I.	17.0	3/8	7/8	2.3111/2.3121	1.625	3.188	-
12	3181	D.I.	25.0	3/8	1-1/8	2.3990/2.5000	2.000	4.500	-
12	5583	D.I.	26.0	5/16	1-1/8	2.5611/2.5621	1.750	4.500	-
12	5585	D.I.	26.0	3/8	1-1/8	2.9990/3.0000	2.000	4.500	-
12	3182	D.I.	25.0	3/8	1-1/8	3.2486/3.2496	2.000	4.500	-
12	3297	C.S.	25.0	7/16	1-1/4	2.7505/2.7515	2.500	4.500	-
12	3298	C.S.	25.0	3/8	1-3/8	3.4985/3.4995	2.500	4.500	-
14	3235	C.S.	14.0	3/8	3/4	1.8745/1.8755	1.563	2.750	-
14	3102	C.S.	20.0	3/8	7/8	1.8745/1.8755	1.625	2.813	-
14	3227	C.S.	14.0	5/16	3/4	2.0611/2.0621	1.563	2.750	-
14	3103	C.S.	21.0	5/16	7/8	2.3111/2.3121	1.625	2.813	-
14	3183	F.F.	32.0	3/8	1-1/4	2.4990/2.5000	2.000	4.500	-
14	5513	F.F.	31.0	3/8	1-1/4	2.5611/2.5621	1.750	4.500	-
14	5520	F.F.	31.0	3/8	1-1/4	2.9900/3.0000	2.000	4.500	-
14	3184	F.F.	32.0	5/16	1-1/4	3.2486/3.2496	2.000	4.500	-
14	3299	C.S.	38.0	7/16	1-3/8	2.7505/2.7515	2.500	4.500	-
14	3300	C.S.	38.0	7/16	1-1/2	3.4985/3.4995	2.500	4.500	-
14	4320	C.S.	43.0	1/2	1-1/2	4.4985/4.4995	2.375	6.000	-
14	4319	C.S.	44.0	3/8	1-1/2	4.4985/4.4995	2.750	6.000	-
16	3185	F.F.	46.0	1/2	1	2.4995/2.5005	2.000	3.750	.0750
16	5629	F.F.	46.0	1/2	7/8	2.9987/2.9997	2.000	4.750	.0750
16	3186	F.F.	57.0	3/8	1-1/8	3.2486/3.2496	2.000	4.750	.0750
16	3301	F.F.	48.0	1/2	1-1/8	2.7505/2.7515	2.500	3.750	.0750
16	3302	F.F.	61.0	7/16	1-1/4	3.4985/3.4995	2.500	4.750	.0750
16	5661	F.F.	56.0	1/2	1-1/8	3.7485/3.7495	2.500	4.750	.0750
16	6084	F.F.	48.0	1/2	1-1/8	3.9990/4.0000	2.500	5.500	.0750
16	4322	F.F.	46.0	1/2	1-1/8	4.4985/4.4995	2.375	5.500	.0750
16	6085	F.F.	47.0	1/2	1	4.4985/4.4995	2.500	5.470	.0750
16	4321	F.F.	47.0	1/2	1-1/8	4.4985/4.4995	2.750	5.500	.0750
18	1742	F.F.	61.0	1/2	7/8	2.9990/3.0000	2.000	4.750	.0750
18	1741	F.F.	60.0	1/2	3/4	3.2486/3.2496	2.000	4.750	.0750
18	5694	F.F.	79.0	7/16	1-1/4	3.4985/3.4995	2.500	4.750	.0750
18	5695	F.F.	56.0	7/16	1-1/8	3.7485/3.7750	2.500	4.750	.0750
18	5707	F.F.	61.0	3/8	1-1/8	3.9990/4.0000	2.500	5.500	.0750

*** Material: D.I.** – Ductile Iron / **C.S.** – Cast Steel / **F.F.** – Forge Fab ᴿ

Finish Bored Sheave (continued)

A Nominal O.D.	Part No.	Material *	Weight lbs	Wire Rope Size Minimum	Wire Rope Size Maximum	F Hub Bore	G Hub Width	T Hub O.D.	B Web Thickness
18	5708	F.F.	59.0	3/8	1-1/8	4.4985/4.4995	2.500	5.500	.0750
18	5441	F.F.	58.0	7/16	1-1/8	4.4985/4.4995	2.375	5.500	.0750
18	4324	F.F.	59.0	1/2	1-1/8	5.9984/5.9999	2.375	7.530	.0750
18	4770	F.F.	61.0	5/8	1	6.4984/6.4999	2.250	8.530	.0750
20	5761	F.F.	70.0	1/2	1-1/8	3.4985/3.4995	2.500	4.750	.0750
20	5762	F.F.	72.0	1/2	1-1/8	3.7485/3.7495	2.500	4.750	.0750
20	5754	F.F.	74.0	5/8	1-1/8	3.9990/4.0000	2.500	5.500	.0750
20	5466	F.F.	174.0	1/2	1-1/8	4.4985/4.4995	2.375	5.500	.0750
20	5758	F.F.	175.0	1/2	1-1/8	4.4985/4.4995	2.500	5.500	.0750
20	4326	F.F.	73.0	9/16	1-1/8	5.9984/5.9999	2.375	7.500	.0750
20	4325	F.F.	75.0	9/16	1-1/8	5.9984/5.9999	2.750	7.500	.0750
20	4772	F.F.	74.0	9/16	1-1/8	6.4984/6.4999	2.250	8.530	.0750
24	5803	F.F.	128.0	9/16	1-1/4	3.4985/3.4995	2.500	4.750	.0750
24	5804	F.F.	103.0	5/8	1-1/8	3.7485/3.7495	2.500	4.750	.0750
24	5797	F.F.	105.0	5/8	1-1/8	3.9990/4.0000	2.500	5.500	.0750
24	4433	F.F.	102.0	5/8	1-1/8	4.4985/4.4995	2.375	5.500	.0750
24	5798	F.F.	98.0	5/8	1-1/8	4.4985/4.4995	2.500	5.500	.0750
24	4522	F.F.	120.0	9/16	1-1/8	5.9980/5.9990	2.375	7.500	.0750
24	4521	F.F.	101.0	5/8	1-1/8	5.9984/5.999	2.750	7.500	.0750
24	5814	F.F.	129.0	1/2	1-3/8	6.4984/6.4999	2.250	8.500	.0750
24	4929	F.F.	112.0	9/16	1-1/8	6.4960/6.4980	3.375	8.530	.0750
26	4967	F.F.	115.0	5/8	1-1/8	5.9990/5.9999	2.375	7.500	.0750
26	4966	F.F.	117.0	5/8	1-1/8	5.9984/5.999	2.750	7.500	.0750
26	4774	F.F.	121.0	3/4	1	6.4984/6.4999	2.250	8.530	.0750
28	4931	F.F.	179.0	5/8	1-1/8	6.4960/6.4980	3.375	8.500	.0750
30	4249	F.F.	200.0	7/8	1-3/8	5.9980/5.9990	2.375	7.500	1.000
30	4776	F.F.	199.0	1	1-3/8	6.4984/6.4999	2.250	8.500	1.000
30	4775	F.F.	269.0	1-1/4	1-1/2	8.873/8.874	3.750	11.500	1.250
34	4768	F.F.	240.0	1-1/8	1-3/8	5.9984/5.999	2.375	7.500	1.000
34	4771	F.F.	240.0	1	1-1/4	5.9984/5.999	2.750	7.500	1.000
34	4769	F.F.	259.0	1-1/4	1-3/8	6.4984/6.4999	2.250	8.500	1.000
36	4777	F.F.	416.0	1-1/8	1-3/4	8.8730/8.8740	3.750	11.500	1.250
42	4932	F.F.	570.0	1	1-7/8	8.8710/8.8730	3.500	11.500	1.500
42	4778	F.F.	573.0	1-3/8	2	8.8730/8.8740	3.750	11.500	1.500
48	4779	F.F.	593.0	1-3/8	1-5/8	8.8730/8.8740	3.750	11.500	1.500
52	4934	F.F.	881.0	1-3/8	1-7/8	10.8710/10.8730	3.625	14.000	1.500
52	1794	F.F.	939.0	1-1/2	1-1/2	12.8710/12.8730	4.500	17.000	1.500
52	1798	F.F.	913.0	1-3/8	1-7/8	12.8710/12.8730	4.000	17.000	1.500

*** Material: F.F.** – Forge Fab ®



Bronze Bushed Wire Rope Sheaves

To order, please specify:

• Nominal Sheave O.D. • Model number • Wire Rope size

ForgeFab will furnish sheaves to specified wire rope size within the minimum and maximum wire rope size indicated, at no additional charge.

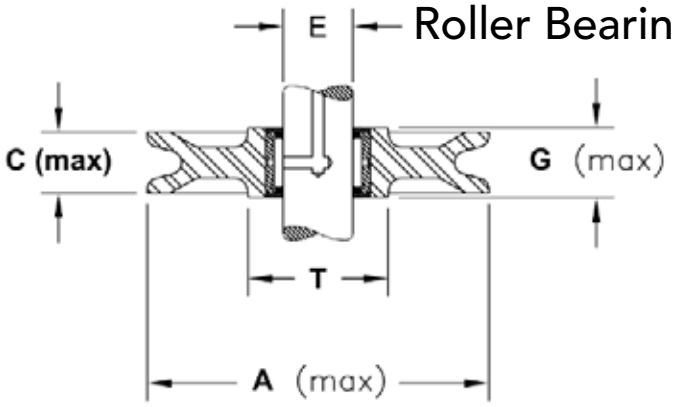
Bronze Brushed Sheaves

A Nominal O.D.	Model Number	Material *	Weight lbs	Wire Rope Size Minimum	Wire Rope Size Maximum	E Shaft Size	G Hub Width	T Hub O.D.	Web Thickness
3	1-3	C.I.	1.0	3/8	3/8	0.500	0.750	1.125	-
3	M-3	S.	1.5	1/4	7/16	0.500	1.000	1.375	-
3	M-5	S.	2.0	1/4	5/8	0.705	1.250	1.625	-
4-1/4	HFWR	D.I.	2	1/2	3/4	1.000	1.500	1.688	-
4-1/4	HFMR	D.I.	2	1 MR	1-1/4 MR	1.000	1.500	1.688	-
4-1/2	4-3	D.L.	3.0	1/4	3/4	1.000	1.565	2.000	-
6	WL-61-B	D.I.	4.0	1/4	5/8	0.750	1.125	2.250	-
6	6-3	D.L.	6	1/4	3/4	1.000	1.563	2.750	-
6	6-5	D.I.	6.0	1/4	1	1.500	1.625	3.130	-
6	6-5-1	D.I.	6.0	1/4	1	1.2500	1.635	3.130	-
6	6-10	D.I.	9.0	1/2	7/8	2.0000	2.000	3.125	-
8	8-3	D.I.	7.0	1/4	7/8	1.0000	1.565	2.000	-
8	WL-81-A	D.I.	7.0	5/16	3/4	0.875	1.375	2.500	-
8	WL-81-B	D.I.	7	1/4	3/4	1.000	1.375	2.500	-
8	8-5	D.I.	11.0	5/16	1	1.500	1.625	3.130	-
8	8-5-1	D.I.	11.0	3/8	1	1.2500	1.635	3.130	-
8	8-10	D.I.	14.0	3/8	1-1/4	2.000	2.000	4.000	-
8	8-25	C.S.	18.0	7/16	1-1/2	2.2500	2.510	4.000	-
8	8-25-1	C.S.	17.0	1/2	1	3.000	2.500	4.000	-
10	10-3	D.I.	13.0	3/8	3/4	1.2500	1.563	2.880	-
10	10-5	D.I.	13.0	5/16	1	1.5000	1.625	2.880	-
10	10-5-1	D.I.	13.0	3/8	7/8	1.2500	1.635	2.880	-
10	10-10	D.I.	21.0	5/16	1-1/8	2.000	2.000	4.000	-
10	10-10-1	D.I.	21.0	3/8	1-1/8	2.500	2.000	4.000	-
10	10-25	C.S.	25.0	1/2	1-1/2	2.2500	2.510	4.500	-
10	10-25-1	C.S.	23.0	1/2	1	3.000	2.500	4.500	-
12	12-3	D.I.	12.0	3/8	7/8	1.2500	1.563	3.190	-

Bronze Brushed Sheaves (continued)

A Nominal O.D.	Model Number	Material *	Weight lbs	Wire Rope Size Minimum	Wire Rope Size Maximum	E Shaft Size	G Hub Width	T Hub O.D.	Web Thickness
12	12-3-1	D.I.	12.0	3/8	7/8	1.0000	1.565	3.190	-
12	12-5	D.I.	19.0	3/8	1	1.5000	1.625	3.190	-
12	12-5-1	D.I.	13.0	3/8	7/8	1.2500	1.635	3.190	-
12	12-10	D.I.	28.0	3/8	1-1/8	2.0000	2.000	4.500	-
12	12-10-1	D.I.	28.0	1/2	1-1/8	2.5000	2.000	4.500	-
12	12-25	C.S.	27.0	7/16	1-1/8	2.2500	2.510	4.500	-
12	12-25-1	C.S.	27.0	7/16	1-3/8	3.0000	2.500	4.500	-
14	14-3	C.S.	15.0	3/8	3/4	1.2500	1.563	2.750	-
14	14-5	C.S.	21.0	1/2	7/8	1.500	1.625	2.813	-
14	14-5-1	C.S.	21.0	3/8	7/8	1.2500	1.625	2.810	-
14	14-10	F.F.	33.0	3/8	1-1/8	2.000	2.000	4.500	-
14	14-10-1	F.F.	32.0	3/8	1-1/8	2.5000	2.000	4.500	-
14	14-25	C.S.	40.0	7/16	1-3/8	2.2500	2.510	4.500	-
14	14-25-1	C.S.	40.0	1/2	1-1/4	3.000	2.500	4.500	-
14	14-250	C.S.	49	3/4	1-1/2	4.000	2.750	6.000	-
16	16-10	F.F.	47.0	1/2	1	2.000	2.000	3.750	.750
16	16-10-1	F.F.	50.0	1/2	1-1/8	2.500	2.000	4.750	.750
16	16-25	F.F.	50.0	1/2	1-1/8	2.2500	2.500	3.750	.750
16	16-25-1	F.F.	63.0	9/16	1-1/4	3.0000	2.500	4.750	.750
16	16-25-2	F.F.	50.0	1/2	1-1/8	3.500	2.500	5.500	.750
16	16-250	F.F.	50	1/2	1-1/8	4.000	2.750	5.500	.750
18	18-10-1	F.F.	62.0	5/8	7/8	2.500	2.000	4.750	.750
18	18-25	F.F.	81.0	1/2	1-1/8	3.000	2.500	4.750	.750
18	18-25-1	F.F	63.0	9/16	1-1/8	3.500	2.500	5.500	.750
18	18-250	F.F.	69.0	3/4	1-1/8	5.0000	2.755	7.530	.750
20	20-25	F.F.	72.0	9/16	1-1/8	3.000	2.500	4.750	.750
20	20-25-1	F.F.	78.0	5/8	1-1/8	3.500	2.500	5.500	.750
20	20-250	F.F.	82.0	9/16	1-1/8	5.0000	2.755	7.500	.750
24	24-25	F.F.	130.0	9/16	1-1/4	3.0000	2.500	4.750	.750
24	24-25-1	F.F.	107.0	3/4	1-1/8	3.500	2.500	5.500	.750
24	24-240	F.F.	122.0	5/8	1-1/8	5.500	3.375	8.500	.750
24	24-250	F.F.	112	5/8	1-3/8	5.0000	2.755	7.500	.750
26	26-250	F.F.	160.0	7/8	1-1/4	5.0000	2.755	8.500	.750
28	28-240	F.F.	145.0	5/8	1-1/8	5.500	3.375	8.500	.750
30	30-250	F.F.	238.0	1	1-1/2	5.0000	2.755	7.500	1.000
30	30-350	F.F.	301.0	1-1/4	2	8.0000	3.755	11.500	1.250
34	34-250	F.F.	248.0	1	1-1/4	5.0000	2.755	7.500	1.000
36	36-350	F.F.	430.0	1-1/8	1-3/4	8.000	3.750	11.500	1.500
42	42-350	F.F.	587.0	1-3/8	1-3/4	8.000	3.750	11.500	1.250
48	48-350	F.F.	648.0	1-3/8	2	8.000	3.750	11.500	1.500
52	52-550	F.F.	934.0	1-3/8	2	10.000	3.625	14.000	1.500

Roller Bearing Wire Rope Sheaves with Inner Race



TO ORDER PLEASE SPECIFY:

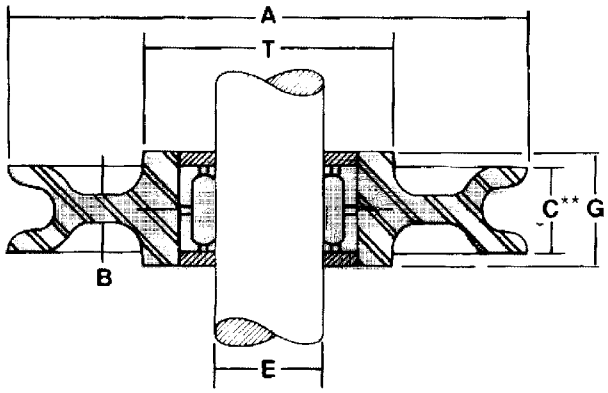
• Nominal Sheave O.D. • Model Number • Wire Rope Size

Forgefab will furnish sheaves to specified wire rope size within the minimum and maximum wire rope size indicated, at no additional charge.

Roller Bearing Sheaves with Inner Race

A Nominal O.D.	Model Number	Material *	Weight lbs	Wire Rope Size Minimum	Wire Rope Size Maximum	E Shaft Size	G Hub Width	T Hub O.D.	Web Thickness
6	6-5A	D.I.	7.0	5/16	1	1.5000	1.645	3.130	-
6	6-10A	C.S.	10.0	3/8	1	2.0000	2.020	4.000	-
8	8-5A	D.I.	10.0	5/16	7/8	1.5000	1.645	3.130	-
8	8-10A	D.I.	13.0	5/16	1-1/8	2.0000	2.020	4.020	-
8	8-25A	C.S.	18.0	1/4	1-1/8	2.2500	2.510	4.000	-
10	10-3A	D.I.	13.0	3/16	3/4	1.2500	1.570	2.88	-
10	10-5A	D.I.	13.0	5/16	1	1.5000	1.645	2.880	-
10	10-10A	D.I.	23.0	5/16	1-1/8	2.0000	2.020	4.000	-
10	10-25A	C.S.	26.0	3/8	1-1/2	2.2500	2.510	4.500	-
12	12-3A	D.I.	19.0	3/8	7/8	1.2500	1.570	3.19	-
12	12-5A	D.I.	18.0	3/8	7/8	1.5000	1.645	3.190	-
12	12-10A	D.I.	28.0	3/8	1-1/8	2.0000	2.020	4.500	-
12	12-25A	C.S.	28.0	3/8	1-1/4	2.2500	2.510	4.500	-
14	14-3A	C.S.	17.0	5/16	3/4	1.2500	1.570	2.750	-
14	14-5A	C.S.	22.0	5/16	7/8	1.5000	1.645	2.810	-
14	14-10A	F.F.	34.0	3/8	1-1/8	2.0000	2.020	4.500	-
14	14-25A	C.S.	42.0	7/16	1-3/8	2.2500	2.510	4.500	-
14	14-250A	C.S.	51.0	1/2	1-1/4	3.0000	2.641	6.000	-
16	16-10A	F.F.	60.0	3/8	1-1/8	2.0000	2.020	4.750	.750
16	16-25A	F.F.	65.0	1/2	1-1/4	2.2500	2.510	5.500	.750
16	16-250A	F.F.	52.0	1/2	1-1/8	3.0000	2.641	5.500	.750
18	18-25A	F.F.	66.0	7/16	1-1/8	3.0000	2.641	5.500	.750
18	18-250A	F.F.	73.0	1/2	1-1/8	3.8750	2.761	7.530	.750
20	20-25A	F.F.	101.0	3/8	1-1/4	3.0000	2.641	5.500	.750
20	20-250A	F.F.	85.0	9/16	1-1/8	3.8750	2.761	7.500	.750
24	24-25A	F.F.	109.0	5/8	1-1/8	3.0000	2.641	5.500	.750
24	24-250A	F.F.	140.0	5/8	1-3/8	3.8750	2.761	7.500	.750
26	26-250A	F.F.	129.0	5/8	1-1/8	3.8750	2.761	7.500	.750
30	30-250A	F.F.	214.0	1	1-3/8	3.8750	2.761	7.500	1.000
34	34-250A	F.F.	254.0	1-1/8	1-3/8	3.8750	2.763	7.500	1.000

Roller Bearing Wire Rope Sheaves without Inner Race



To order, please specify:

• Nominal Sheave O.D. • Model Number • Wire Rope Size

Forgefab will furnish sheaves to specified wire rope size within the minimum and maximum wire rope size indicated, at no additional charge.

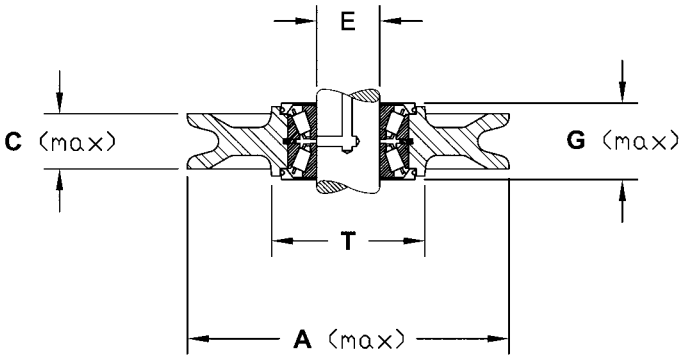
Roller Bearing Wire Rope Sheaves without Inner Race

A Nominal O.D.	Model Number	Material *	Weight lbs	Wire Rope Size Minimum	Wire Rope Size Maximum	E Shaft Size	G Hub Width	T Hub O.D.	Web Thickness
4-1/4	HFWR	D.I.	4.2	1/4	3/4	1.0000	1.505	1.810	-
4-1/4	HFMR	D.I.	2	1 MR	1-1/4 MR	.999	1.500	1.688	-
4-1/2	4-3C	D.I.	3.3	1/4	3/4	1.0000	1.560	2.000	-
6	6-3C	D.I.	4.8	1/4	3/4	1.0000	1.562	2.750	-
8	8-3C	D.I.	6.0	1/4	3/4	1.0000	1.562	2.500	-
10	10-10C	D.I.	21.0	5/16	1	2.0000	1.750	4.000	-
10	10-10D	D.I.	22.0	3/8	7/8	2.5000	2.010	4.000	-
12	12-3C	D.I.	17.8	3/8	1/2	1.0000	1.560	3.190	-
12	12-10C	D.I.	27.0	5/16	1	2.0000	1.750	4.500	-
12	12-10D	D.I.	27.0	3/8	7/8	2.5000	2.010	4.500	-
14	14-10C	F.F.	32.1	3/8	1-1/8	2.0000	1.750	4.500	-
14	14-10D	F.F.	33.5	3/8	1-1/8	2.0000	2.010	4.500	-
16	16-10C	F.F.	50.0	3/8	1-1/8	2.5000	2.010	4.750	.750
16	16-25C	F.F.	59.0	1/2	1-1/8	3.0000	2.500	4.750	.750
16	16-25D	F.F.	51.2	1/2	1	3.5000	2.500	5.470	.750
18	18-10D	F.F.	62.0	9/16	7/8	2.5000	2.010	4.750	.750
18	18-25C	F.F.	59.0	1/2	1-1/8	3.0000	2.500	4.750	.750
18	18-25D	F.F.	74.0	1/2	1-1/8	3.5000	2.500	6.500	.750
18	18-250C	F.F.	68.1	5/8	1-1/8	4.5000	2.765	7.530	.750
18	18-250D	F.F.	72.0	5/8	1	5.0000	2.750	8.530	.750
20	20-25C	F.F.	75.0	9/16	1-1/8	3.0000	2.500	4.750	.750
20	20-25D	F.F.	76.0	9/16	1-1/8	3.5000	2.500	5.500	.750
20	20-250C	F.F.	81	1/2	1-1/8	4.499	2.750	7.500	.750
20	20-250D	F.F.	85.0	5/8	1-1/8	4.5000	2.765	7.500	.750
24	24-25C	F.F.	106.0	3/4	1-1/8	3.0000	2.500	4.750	.750

Roller Bearing Wire Rope Sheaves without Inner Race (continued)

A Nominal O.D.	Model Number	Material *	Weight lbs	Wire Rope Size Minimum	Wire Rope Size Maximum	E Shaft Size	G Hub Width	T Hub O.D.	Web Thickness
24	24-25D	F.F.	131.0	9/16	1-1/8	3.5000	2.505	5.500	.750
24	24-250C	F.F.	136.0	3/4	1-1/8	4.5000	2.765	7.500	.750
24	24-250D	F.F.	146.0	1/2	1-3/8	5.0000	2.750	8.500	.750
26	26-250C	F.F.	124.0	7/8	1-1/8	4.5000	2.765	7.500	.750
26	26-250D	F.F.	133.0	3/4	1	5.0000	2.750	8.530	.750
30	30-250C	F.F.	209.0	1	1-3/8	4.5000	2.765	7.500	1.000
30	30-250D	F.F.	209.0	1	1-3/8	5.0000	2.750	8.500	1.000
34	34-250C	F.F.	249.0	1-1/8	1-1/4	4.5000	2.767	7.500	1.000
34	34-250D	F.F.	270.0	1-1/8	1-3/8	4.999	2.750	8.500	1.000

Tapered Roller Bearing Wire Rope Sheaves



To order, please specify:

• Nominal Sheave O.D. • Model number • Wire Rope size

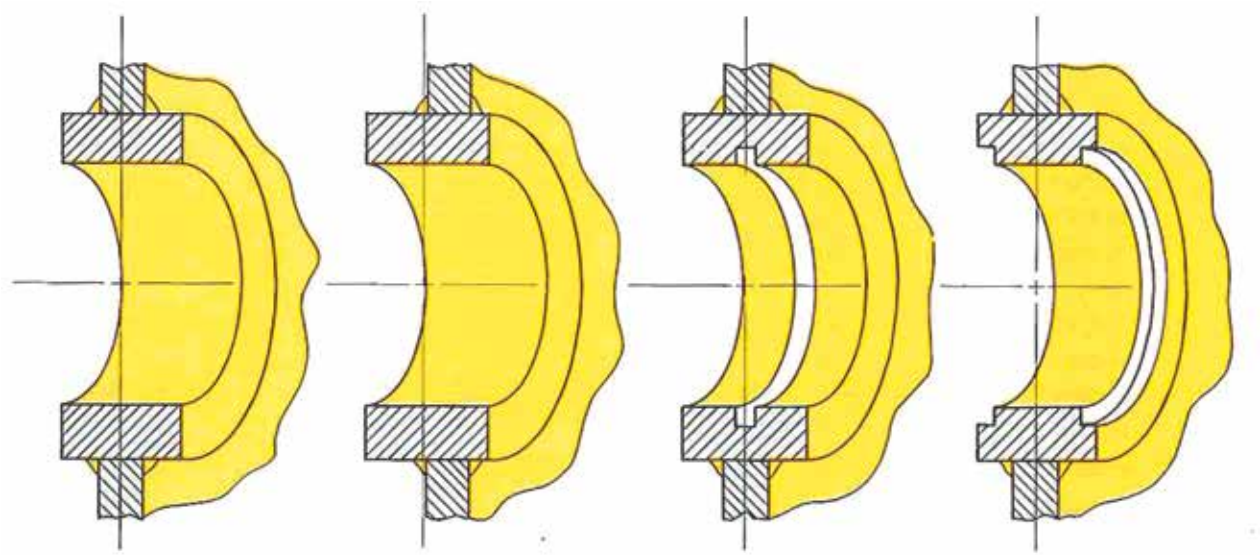
Forgefab will furnish sheaves to specified wire rope size within the minimum and maximum wire rope size indicated, at no additional charge.

Tapered Roller Bearing Sheaves

A Nominal O.D.	Model Number	Material *	Weight lbs	Wire Rope Size Minimum	Wire Rope Size Maximum	E Shaft Size	G Hub Width	T Hub O.D.	Web Thickness
10	10-25T	C.S.	22.0	9/32	1	2.1250	2.166	4.500	-
12	12-25T	C.S.	28.0	3/8	1	2.1250	2.166	4.500	-
14	14-25T	C.S.	40.0	1/2	1-3/8	2.1250	2.166	4.500	-
16	16-25T	F.F.	50.0	1/2	7/8	2.1250	2.166	4.750	.750
18	18-25T	F.F.	61.0	1/2	7/8	2.1250	2.166	4.750	.750
18	18-25TM	F.F.	67.0	9/16	1-1/8	2.6250	2.942	5.500	.750
18	18-250T	F.F.	85.0	1/2	1	4.2500	3.411	8.530	.750
20	20-25T	F.F.	75.0	3/8	3/4	2.1250	2.166	4.750	.750
20	20-25TM	F.F.	79.0	1/2	1-1/8	2.6250	2.942	5.500	.750
20	20-250T	F.F.	98.0	5/8	1-1/8	4.2500	3.411	8.530	.750
24	24-25T	F.F.	104.0	9/16	7/8	2.1250	2.166	4.750	.750
24	24-25TM	F.F.	102.0	9/16	1-1/8	2.6250	2.942	5.500	.750
24	24-240T	F.F.	128.0	9/16		4.2500	3.510	8.530	.750
24	24-250T	F.F.	128.0	9/16	1-1/8	4.2500	3.411	8.530	.750
26	26-250T	F.F.	141.0	5/8	1	4.2500	3.411	8.530	.750
28	28-240T	F.F.	158.0	5/8	1	4.2500	3.510	8.500	.750
30	30-250T	F.F.	228.0	3/4	1-1/4	4.2500	3.411	8.500	1.000
30	30-350T	F.F.	304.0	7/8	1-3/4	6.5000	3.811	11.500	1.250
34	34-250T	F.F.	264.0	1	1-1/4	4.2500	3.411	8.500	1.000
36	36-350T	F.F.	440.0	15/32	1-5/8	6.5000	3.811	11.500	1.250
42	42-340T	F.F.	593.0	1 1/4	1-7/8	6.5000	3.780	11.500	1.500
42	42-350T	F.F.	594.0	1 3/8	1-3/4	6.5000	3.811	11.500	1.500
48	48-350T	F.F.	613.0	1 3/8	2	6.5000	3.811	11.500	1.500
52	52-550T	F.F.	903.0	1 3/4	1-3/4	8.0000	3.780	14.000	1.500
52	52-560T	F.F.	1004.0	1 1/2	1-1/2	9.2500	4.655	17.000	1.500
52	52-560TA	F.F.	962.0	1 5/8	2	9.9990	4.030	17.000	1.500

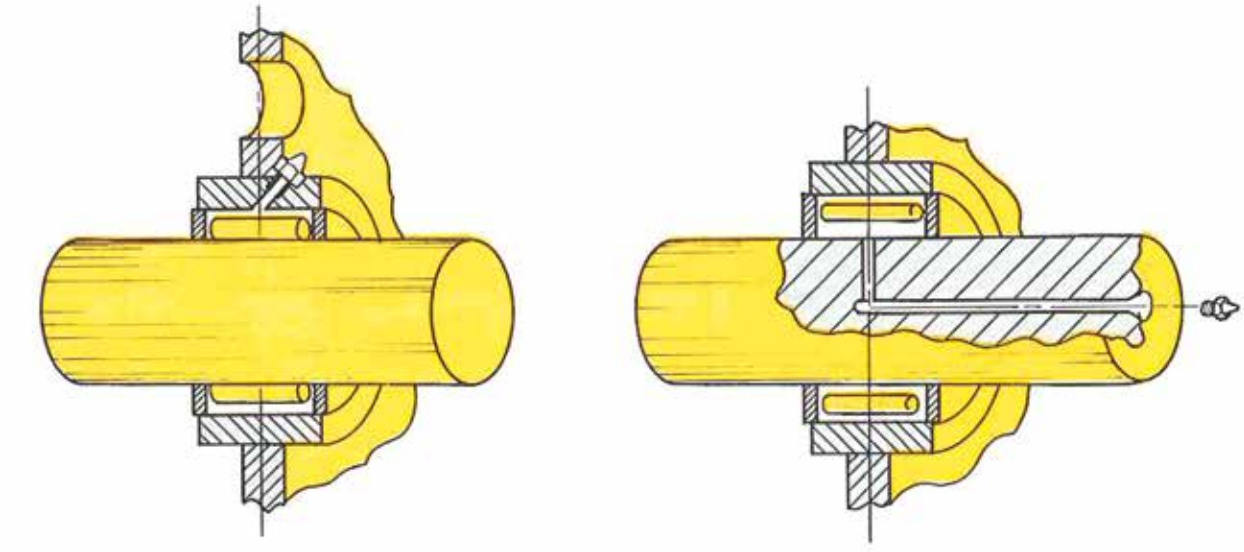
Wire Rope Sheaves

Hub Types Available



Standard | Offset | Grooved | Counter bored

Lubrication Types Available



Hub zerk | Center pin zerk

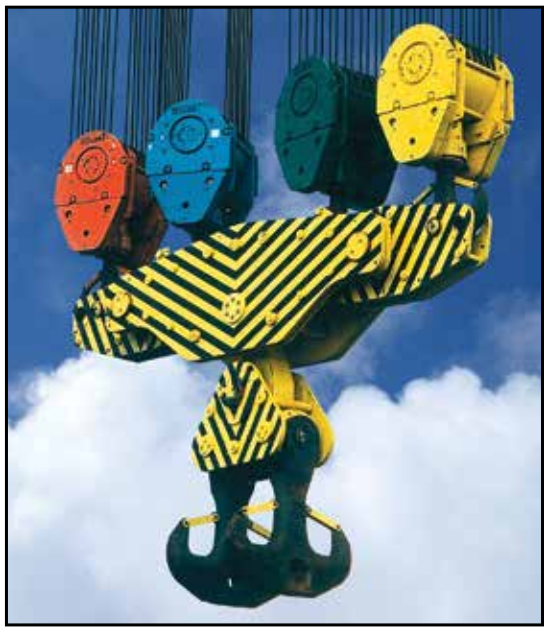
Specially Engineered Products

At Gunnebo Johnson, education doesn't stop with and Engineering Degree. You'll find that the balanced mixture of youth and experience that make up our Engineering Department is still being crammed with knowledge — taking college-level courses on such subjects as "Corrosion," "Weld Quality and Inspection," and "Elements of Metallurgy," as sponsored by the Metals Engineering Institute. It's all part of a continuing education culture that began more than 60 years ago, and which helps to keep us abreast of the special needs of our customers.

Gunnebo Johnson can design and fabricate to capacities of 2,000 tons and above. Your particular requirements may call for a block with 16 or more sheaves, sheave diameters of 76 inches and larger, or a coating with the corrosion protection of Carbozinc 11. Gunnebo Johnson knows how to meet such requirements because we've done it before. Just as we have engineered to ultra-compact dimensions, severe military specifications, and design factors of 6 to 1 or better.

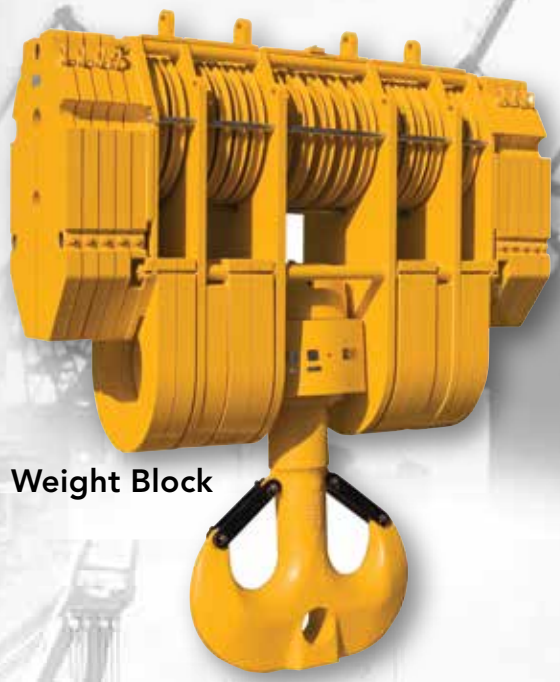
Special load fitting requirements can also be met. One of the largest swivels ever built had a capacity of more than 1,200 tons. In keeping with our customer's needs, we designed it with jaw top and bottom eye. We could just as easily have incorporated a swivel jaw and duplex hook, or almost any other combination of fittings. The Gunnebo Johnson list of other fitting options includes large and small tonnage hooks (single barb or duplex), top hangers, and fixed or swivel shackles.

Proof Testing and Certification are available up to 1 million pounds. In addition to its own Proof Test capabilities, Gunnebo Johnson has access to highly qualified resources outside its immediate shop. All that is necessary is for the customer to indicate to what specification the product is to be tested, and we can take it from there — seeing to X-ray, radiograph, magnetic particle, or other form of non-destructive testing. Price on application.



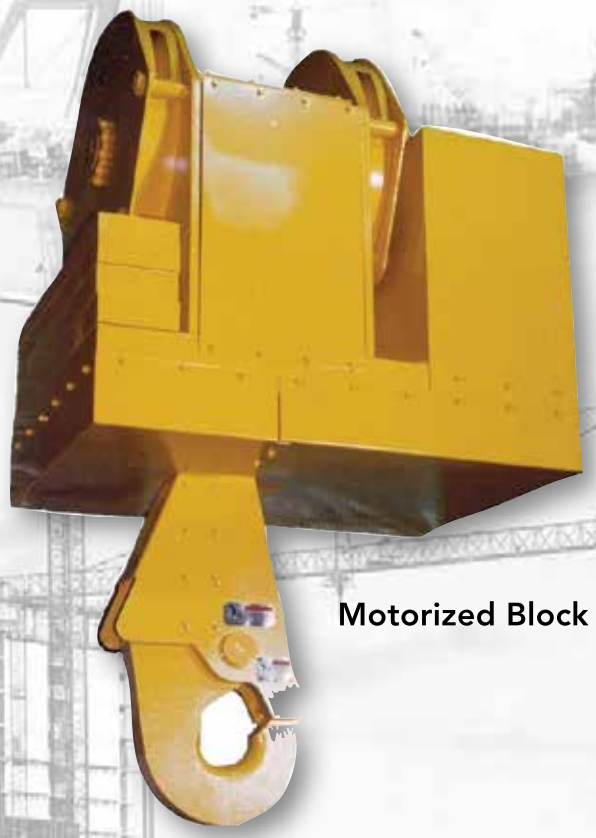
Mega Lift

300 Ton Block



Flexi Weight Block

Fairleader



Motorized Block

250T Equalizer

650T Eye and Eye Swivel

Divided Block 15Ton

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