Johnson Products

Crane Blocks • Snatch Blocks • Oilfield Blocks • Swivels •
Custom Engineered Products

GUNNEBO
Industries

Please note:
In this chapter some products are rated in metric tonnes and some in short tons.

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

Johnson Blocks

With 50 years of excellence and industry leadership, Johnson Blocks has deep roots in the oilfield and the OEM crane industries. Our crane blocks are dominant in the North American lifting industry and the benefits of using Johnson blocks are many; with a proven record of engineering innovations and dependability, we have provided blocks all over the world for decades, always delivered with the highest quality, providing our customers a peace of mind.

Quick Reeve - Mobile Crane Block

Standard features

- Quick release, zinc plated, rope retention pin meets OSHA requirements for rope retention. Cannot be completely removed from block to avoid pin loss.
- J-Latch™ is standard equipment for blocks up to 250 short tons. Larger blocks are equipped with standard bar latches.
- Johnson J-Latch™ heavy duty, steel, lockable, spring loaded latch meets OSHA personnel lifting requirements.
- The Johnson J-Latch™ provides a fast hook deformation inspection point.
- Quick Reeve™ upright design rests on its own hook for a stable base while reeving.
- No bulky, drop down, trap door to handle or damage.
- Wire rope end fitting will pass through block without removal from wire rope.
- 5 – 330 short tons capacity
- 4:1 design factor
- 1, 2, 3, 5 or 7 sheaves
- 250 mm - 760 mm sheave diameters
- Reeving pins for all models
- Roller bearing sheaves
- Direct-channel sheave bearing lubrication through center pin
- Flame hardened grooves on sheave sizes 400 mm - 610 mm in diameters
- Dual action (swing/swivel) roller thrust bearing hooks
- Forged steel hooks, up to 30 short tons
- Total disassembly possible
- Meet ASME 30.5 standard

Optional features

- Forged steel hooks, 35 - 300 short tons
- Duplex hooks available from 25 short tons
- Anti-rotation hook locking devices, all models
- Swivel safety anchor shackles, all models
- Center top dead end available for blocks with 3 sheaves or less
- Sheave shrouds, all models
- All weighted models have detachable cheek weights in cast iron or steel
- Proof test and certification, radiographic, magnetic particle, and other non-destructive testing to specification by customer
- Bronze bushings available
- Other sheave combinations available
- Can be manufactured to API, Lloyd's, DNV, ABS, CCS and CE

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Shorty "J" Crane Blocks

Shorty "J" represents the broadest line of standard crane blocks in the industry. In all, we manufacture more than 1500 standard models of crane blocks not including options.

Standard features

- 10 - 325 short tons capacity
- 4:1 design factor
- 1, 2, 3, 5 or 7 sheaves
- 300 mm - 610 mm in sheave diameters
- Roller bearing sheaves
- Direct-channel sheave bearing lubrication through centre pin
- Flame hardened grooves on sheave sizes 406 mm - 610 mm in diameters
- Dual action (swing/swivel) roller thrust bearing hooks
- Forged steel hooks, up to 30 short tons
- J-Latch™ is standard equipment for blocks up to 250 short tons. Larger blocks are equipped with standard bar latches
- Johnson J-Latch™ heavy duty, steel, lockable, spring loaded latch meets OSHA personnel lifting requirements.
- The Johnson J-Latch™ provides a fast hook deformation inspection point.
- Meet ASME 30.5 standard

Optional features

- Forged steel single barb hooks, 35 - 300 short tons
- Duplex hooks available from 25 short tons
- Anti-rotation hook locking devices, all models
- Swivel safety anchor shackles, all models
- Sheave shrouds, all models
- All weighted models have detachable cheek weights in cast iron or steel
- Bronze bushings available
- Other sheave combinations available
- Proof test and certification, radiographic, magnetic particle, and other non-destructive testing to specification by customer
- Can be manufactured to API, Lloyd's, DNV, ABS, CCS, CMAA and CE

6

Fixed Bail Construction and Marine Rigging Blocks

Beginning with 100 standard models, you are assured of selections that fit your every need. The lowest weight to capacity ratios, the quickest rigging and the easiest maintenance are a few additional benefits that prove once again that Johnson Blocks are consistent in quality and value.

Standard features

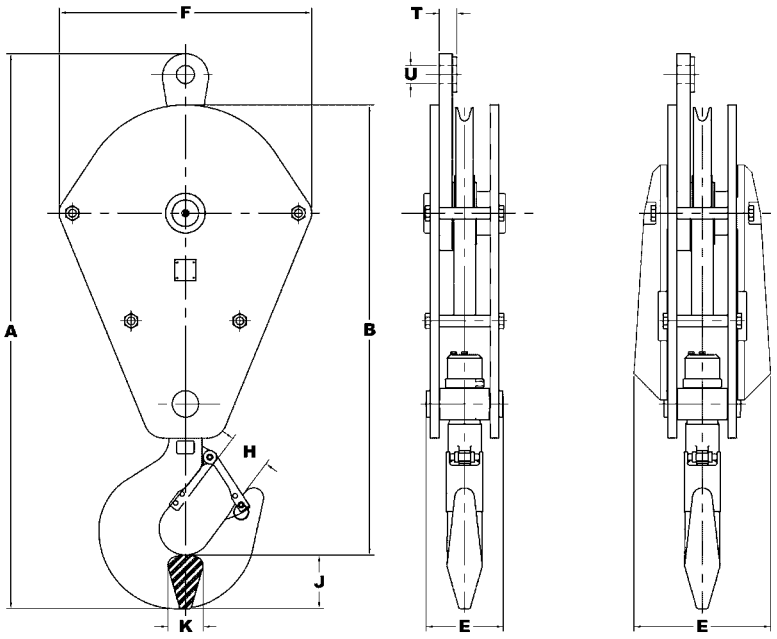
- 10 to 135 short tons
- 4:1 design factor
- 1 to 6 sheaves
- Full coverage side plates and center plates
- Top dead-end shackle
- Tapered roller bearings
- Oval pattern side plates

Optional features

- Bronze bushings
- Diamond pattern side plates
- Fully galvanized for corrosion resistance
- High capacity, custom engineered blocks available upon request

One Sheave Shorty "J" Crane Blocks

Design Factor 4:1
For crane block warnings and use limitations see pages: 6:42 and 6:43



12-inch 1-Sheave Shorty "J" Crane Blocks, 10-20 short tons, 3/8" to 9/16" or 10mm to 15mm

Model	WLL (short tons)	Wt. kg	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
J-10S12RTB	10	122	825	667	246	406	49	64	49
J-15S12RTB	15	119	825	667	246	406	49	64	49
J-20S12RTB	20	147	962	775	259	406	89	76	60

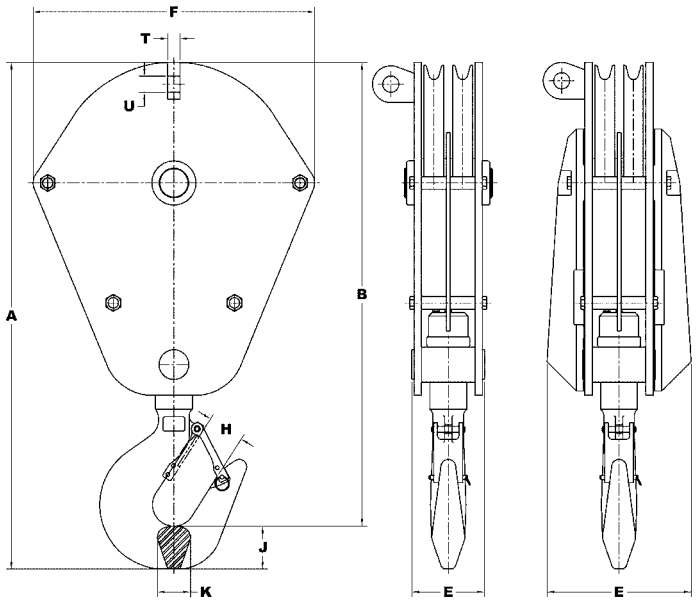
Model	WLL (short tons)	Wt. kg	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width	T Deadend Thick.	U Hole Dia.
16-inch 1-Sheave Shorty "J" Crane Blocks, 15-30 short tons, 5/8" to 3/4" or 16mm to 19mm											
J15S16RTB	15	168	949	768	243	511	49	67	49	35	42
J20S16RTB	20	197	1086	876	256	511	71	95	76	35	42
J20S16RTB	20	197	1086	876	256	511	71	95	76	35	42
J30S16RTB	30	203	1149	927	256	511	83	89	76	38	42
20-inch 1-Sheave Shorty "J" Crane Blocks, 25-40 short tons, 7/8" to 1" or 22mm to 26mm											
J25S20RTB	25	333	1264	1038	290	629	83	95	76	38	52
J30S20RTB	30	339	1276	1051	290	629	83	89	76	38	52
J40S20RTB	40	430	1499	1191	310	629	83	108	86	44	58
24-inch 1-Sheave Shorty "J" Crane Blocks, 30-55 short tons, 1-1/8" or 29mm											
J30S24RTB	30	567	1372	1146	373	730	83	89	76	38	52
J40S24RTB	40	668	1546	1292	395	730	83	108	86	44	58
J55S24RTB	55	706	1657	1353	395	730	118	156	102	51	64

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Two Sheave Shorty "J" Crane Blocks

Design Factor 4:1
For crane block warnings and use limitations see pages: 6:42 and 6:43



Model	WLL (short tons)	Wt. kg	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
12-inch 2-Sheave Shorty "J" Crane Blocks, 10-25 short tons, 3/8" to 9/16" or 10mm to 15mm									
J-10D12RTB	10	129	733	667	246	406	49	64	49
J-15D12RTB	15	132	733	667	246	406	49	64	49
J-20D12RTB	20	156	870	775	259	406	71	76	60
J-25D12RTB	25	156	870	775	259	406	71	76	60
16-inch 2-Sheave Shorty "J" Crane Blocks, 20-30 short tons, 5/8" to 3/4" or 16mm to 19mm									
J-20D16RTB	20	220	972	876	256	511	71	76	60
J-25D16RTB	25	220	972	876	256	511	71	76	60
J-30D16RTB	30	230	1022	876	256	511	83	89	76
20-inch 2-Sheave Shorty "J" Crane Blocks, 25-55 short tons, 7/8" to 1" or 22mm to 26mm									
J-25D20RTB	25	372	1133	1038	290	629	83	76	60
J-30D20RTB	30	378	1146	1051	290	629	83	89	76
J-40D20RTB	40	475	1299	1191	313	629	83	108	86
J-55D20RTB	55	509	1410	1254	313	629	118	156	102
24-inch 2-Sheave Shorty "J" Crane Blocks, 40-70 short tons, 1-1/8" or 29mm									
J40D24RTB	40	733	1400	1292	395	730	83	108	86
J55D24RTB	55	767	1508	1353	395	730	118	156	102
J70D24RTB	70	771	1514	1356	395	730	111	159	114

⚠ WARNING
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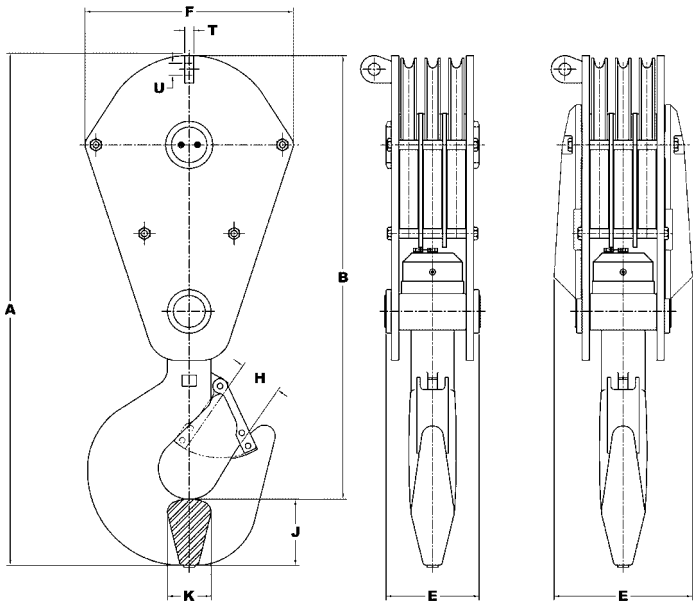
All dimensions in mm

Three Sheave Shorty "J" Crane Blocks

Design Factor 4:1

For crane block warnings and use limitations see pages: 6:42 and 6:43



Model	WLL (short tons)	Wt. kg	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
12-inch 3-Sheave Shorty "J" Crane Blocks, 15-30 short tons, 3/8" to 9/16" or 10mm to 15mm									
J-15T12RTB	15	147	695	629	305	406	49	64	49
J-20T12RTB	20	172	756	679	317	406	71	76	60
J-25T12RTB	25	172	756	679	317	406	71	76	60
J-30T12RTB	30	193	889	794	317	406	83	89	76
16-inch 3-Sheave Shorty "J" Crane Blocks, 25-40 short tons, 5/8" to 3/4" or 16mm to 19mm									
J25T16RTB	25	247	857	781	314	511	71	76	60
J30T16RTB	30	269	1016	921	314	511	83	89	76
J40T16RTB	40	300	1149	1041	314	511	83	108	86
20-inch 3-Sheave Shorty "J" Crane Blocks, 30-80 short tons, 7/8" to 1" or 22mm to 26mm									
J30T20RTB	30	443	1070	975	365	629	83	89	76
J40T20RTB	40	530	1299	1191	365	629	83	108	86
J55T20RTB	55	567	1410	1254	365	629	118	156	102
J60T20RTB	60	567	1410	1254	365	629	118	156	102
J70T20RTB	70	582	1416	1257	365	629	111	159	114
J80T20RTB	80	677	1524	1346	397	629	121	171	121
24-inch 3-Sheave Shorty "J" Crane Blocks, 55-100 short tons, 1-1/8" or 29mm									
J55T24RTB	55	840	1508	1353	460	730	118	156	102
J60T24RTB	60	840	1508	1353	460	730	118	156	102
J70T24RTB	70	855	1514	1356	460	730	111	159	114
J80T24RTB	80	942	1626	1448	479	730	121	171	121
J90T24RTB	90	1069	1654	1460	492	730	121	194	140
J100T24RTB	100	1069	1654	1460	492	730	121	194	140

⚠ WARNING
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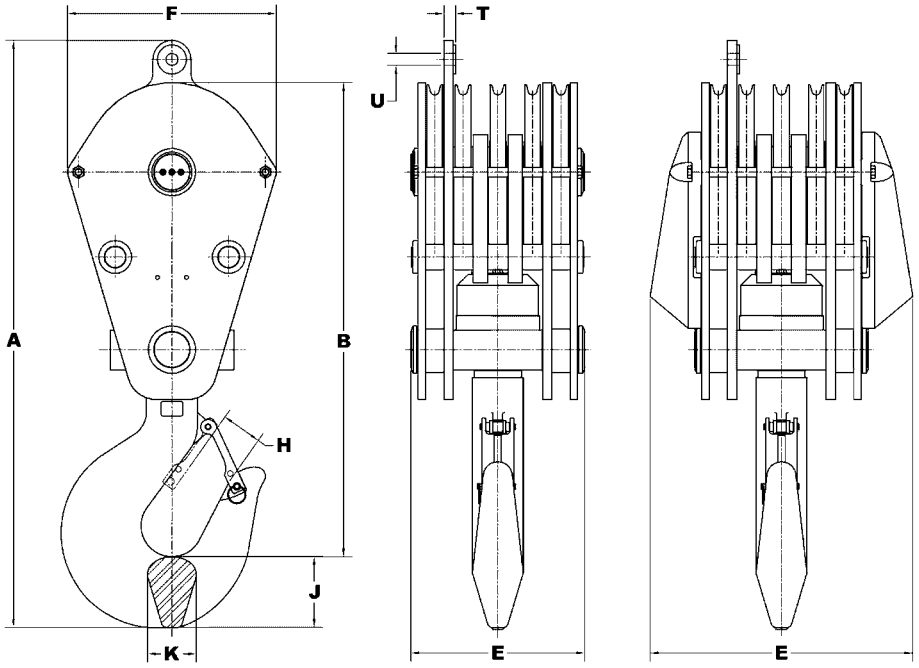
All dimensions in mm

Five Sheave Shorty "J" Crane Blocks

Design Factor 4:1

For crane block warnings and use limitations see pages: 6:42 and 6:43



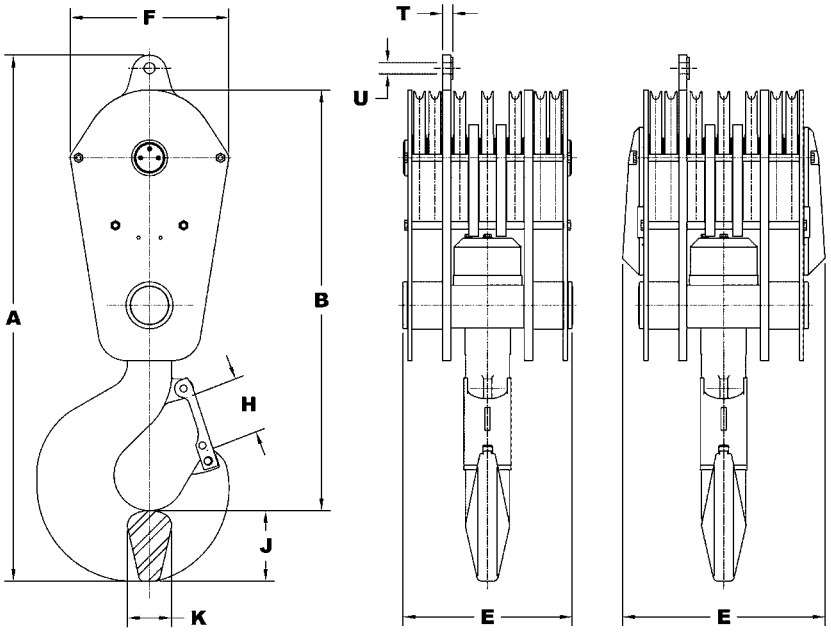
Model	WLL (short tons)	Wt. kg	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
12-inch 5-Sheave Shorty "J" Crane Blocks, 25-30 short tons, 3/8" to 9/16" or 10mm to 15mm									
J-25QN12RTB	25	211	883	705	433	406	71	76	61
J-30QN12RTB	30	225	994	794	433	406	83	89	76
16-inch 5-Sheave Shorty "J" Crane Blocks, 30-80 short tons, 5/8" to 3/4" or 16mm to 19mm									
J30QN16RTB	30	342	1124	921	430	511	83	89	76
J40QN16RTB	40	372	1238	1022	430	511	83	108	86
J50QN16RTB	50	453	1368	1108	446	511	118	156	102
J55QN16RTB	55	453	1368	1108	446	511	118	156	102
J70QN16RTB	70	474	1403	1102	557	511	111	159	114
J80QN16RTB	80	626	1575	1260	570	511	121	171	121
20-inch 5-Sheave Shorty "J" Crane Blocks, 55-100 short tons, 7/8" to 1" or 22mm to 26mm									
J55QN20RTB	55	788	1556	1260	557	629	118	156	102
J70QN20RTB	70	803	1562	1260	557	629	111	159	114
J80QN20RTB	80	810	1667	1346	576	629	121	171	121
J90QN20RTB	90	965	1689	1362	576	629	121	194	140
J100QN20RTB	100	965	1689	1362	576	629	121	194	140
24-inch 5-Sheave Shorty "J" Crane Blocks, 200 short tons, 1-1/8" or 29mm									
J-200QN24RTB	200	2495	2210	1803	792	730	229	257	152

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Seven Sheave Shorty "J" Crane Blocks

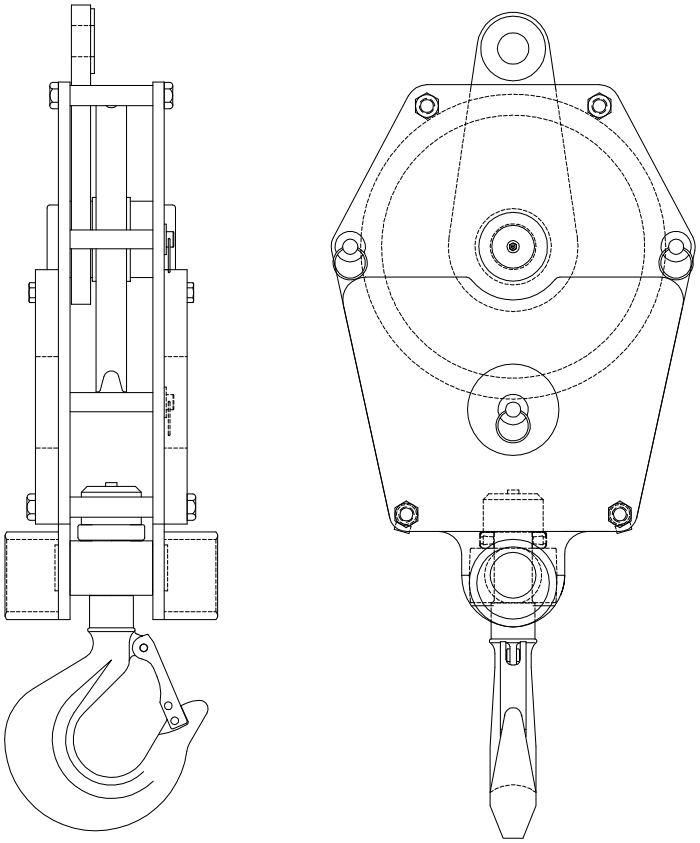
Design Factor 4:1
For crane block warnings and use limitations see pages: 6:42 and 6:43



Model	WLL (short ton)	Wt. kg	A Overall Length	B Net Length	E Thickness	F Width	H Throat Opening w/Latch	J Hook Thick.	K Hook Width
24-inch 7-Sheave Shorty "J" Crane Blocks, 250-325 short tons, 1-1/8" or 29mm									
J-250SV24RTB	250	2848	2423	1937	933	730	216	325	203
J-265SV24RTB	265	2848	2423	1937	933	730	216	325	203
J-300SV24RTB	300	3243	2419	1937	987	730	232	323	229
J-325SV24RTB	325	3243	2419	1937	987	730	232	323	229

Quick Reeve Crane Blocks™

Design Factor 4:1
For crane block warnings and use limitations see pages: 6:42 and 6:43



Model number	Working Load Limit (short tons)	Number of Sheaves	Sheave Diameter	Weight kg
12-inch 1-Sheave QRJ Blocks, 10-15 short tons, 3/8" to 9/16" or 10mm to 15mm				
QRJ10S12RTB	10	1	305	122
QRJ15S12RTB	15	1	305	119
16-inch 1-Sheave QRJ Blocks, 10-20 short tons 5/8" to 3/4" or 16mm to 19mm				
QRJ10S16RTB	10	1	406	214
QRJ20S16RTB	20	1	406	197
20-inch 1-Sheave QRJ Blocks, 20-30 short tons 7/8" to 1" or 22mm to 26mm				
QRJ20S20RTB	20	1	508	333
QRJ25S20RTB	25	1	508	333
QRJ30S20RTB	30	1	508	339
24-inch 1-Sheave QRJ Block, 30 short tons 1-1/8" or 29mm				
QRJ30S24RTB	30	1	610	594

⚠ WARNING
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All dimensions in mm

Quick Reeve Crane Blocks™

Design Factor 4:1
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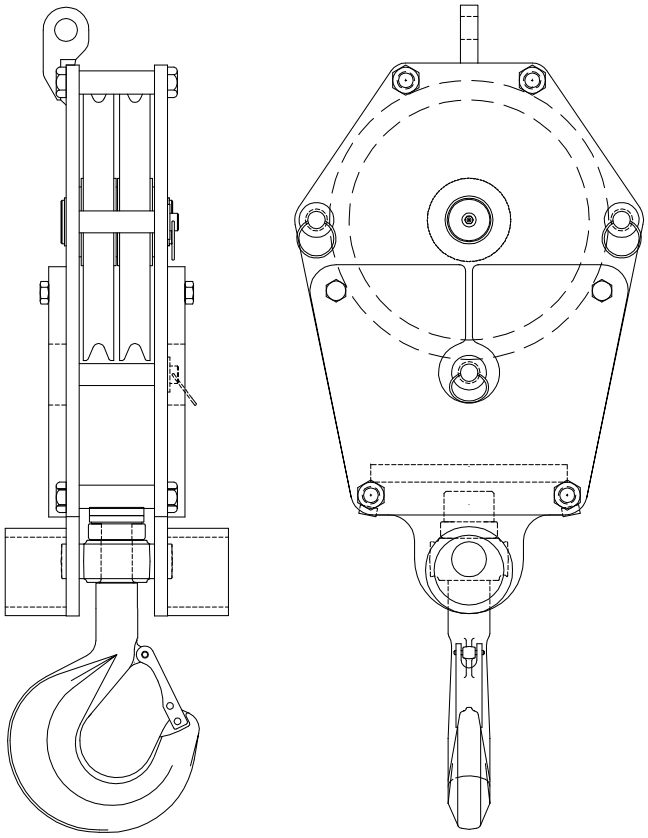
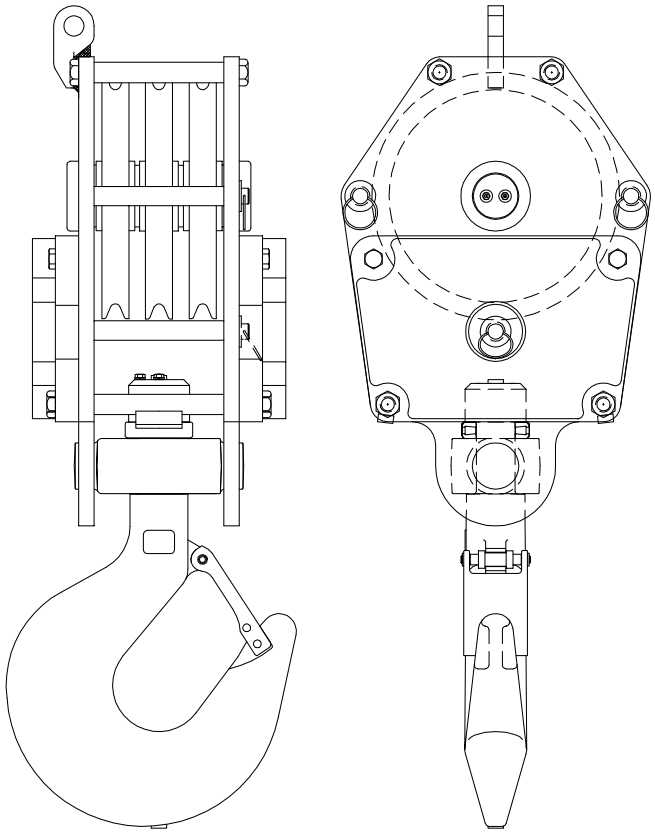


Model number	Working Load Limit (short tons)	Number of Sheaves	Sheave Diameter	Weight kg
12-inch 2-Sheave QRJ Blocks, 15-25 short tons 3/8" to 9/16" or 10mm to 15mm				
QRJ15D12RTB	15	2	305	132
QRJ20D12RTB	20	2	305	156
QRJ25D12RTB	25	2	305	156
16-inch 2-Sheave QRJ Blocks, 15-40 short tons 5/8" to 3/4" or 16mm to 19mm				
QRJ15D16RTB	15	2	406	186
QRJ20D16RTB	20	2	406	220
QRJ25D16RTB	25	2	406	220
QRJ30D16RTB	30	2	406	230
QRJ40D16RTB	40	2	406	264

Quick Reeve Crane Blocks™

Design Factor 4:1
For crane block warnings and use limitations see pages: 6:42 and 6:43



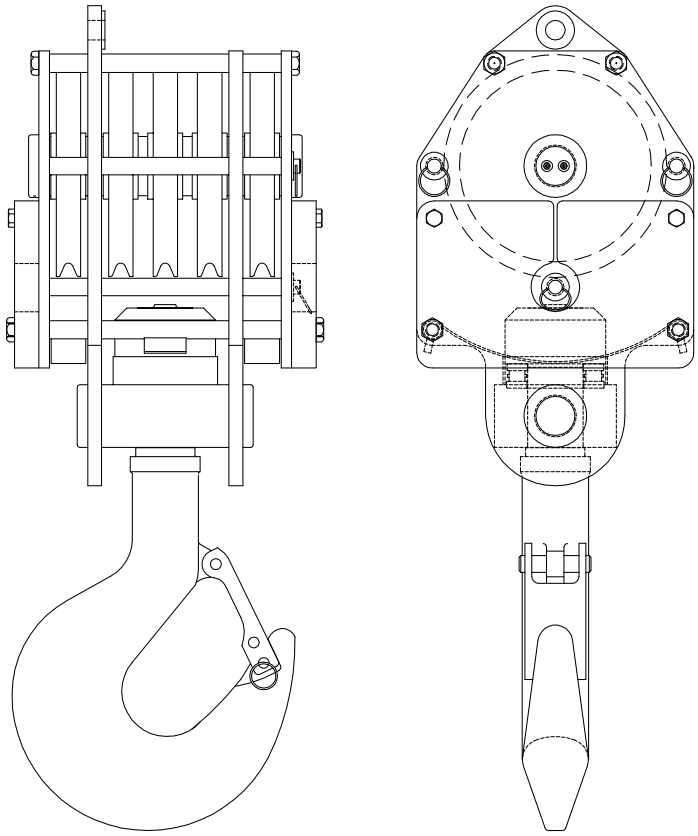
Model number	Working Load Limit (short tons)	Number of Sheaves	Sheave Diameter	Weight kg
12-inch 3-Sheave QRJ Blocks, 15-30 short tons, 3/8" to 9/16" or 10mm to 15mm				
QRJ15T12RTB	15	3	305	147
QRJ20T12RTB	20	3	305	172
QRJ25T12RTB	25	3	305	172
QRJ30T12RTB	30	3	305	193
16-inch 3-Sheave QRJ Blocks, 25-50 short tons, 5/8" to 3/4" or 16mm to 19mm				
QRJ25T16RTB	25	3	406	247
QRJ30T16RTB	30	3	406	269
QRJ40T16RTB	40	3	406	300
QRJ50T16RTB	50	3	406	333
20-inch 3-Sheave QRJ Block, 50 short tons, 7/8" to 1" or 22mm to 26mm				
QRJ50T20RTB	50	3	508	567

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Quick Reeve Crane Blocks™

Design Factor 4:1
For crane block warnings and use limitations see pages: 6:42 and 6:43



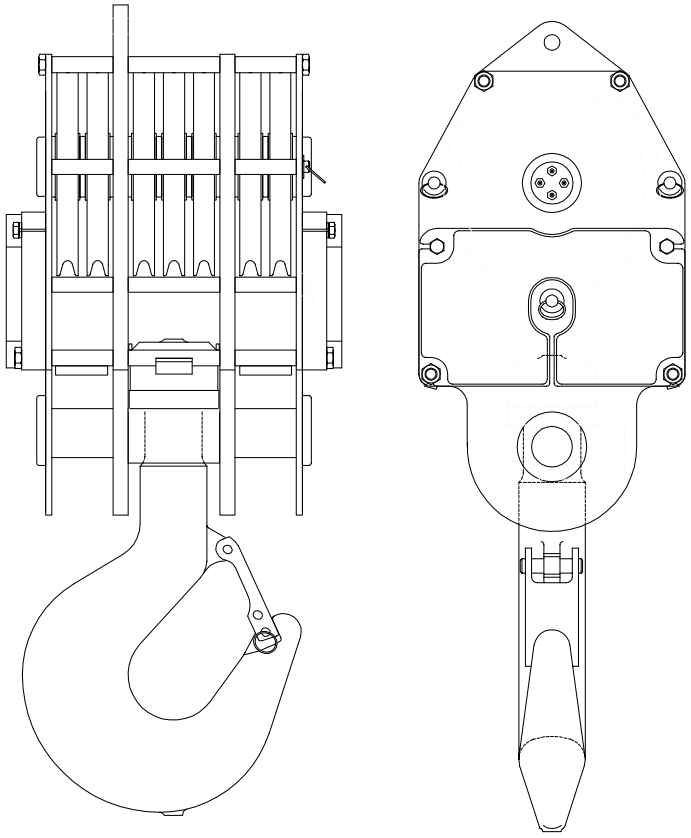
Model number	Working Load Limit (short tons)	Number of Sheaves	Sheave Diameter	Weight kg
16-inch 5-Sheave QRJ Blocks, 40-80 short tons, 5/8" to 3/4" or 16mm to 19mm				
QRJ40QN16RTB	40	5	406	372
QRJ50QN16RTB	50	5	406	453
QRJ70QN16RTB	70	5	406	474
QRJ80QN16RTB	80	5	406	626
20-inch 5-Sheave QRJ Blocks, 70-100 short tons, 7/8" to 1" or 22mm to 26mm				
QRJ70QN20RTB	70	5	508	803
QRJ80QN20RTB	80	5	508	810
QRJ90QN20RTB	90	5	508	965
QRJ100QN20RTB	100	5	508	965
24-inch 5-Sheave QRJ Blocks, 90-100 short tons, 1-1/8" or 29mm				
QRJ90QN24RTB	90	5	610	1312
QRJ100QN24RTB	100	5	610	1312

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Quick Reeve Crane Blocks™

Design Factor 4:1
For crane block warnings and use limitations see pages: 6:42 and 6:43



Model number	Working Load Limit (short tons)	Number of Sheaves	Sheave Diameter	Weight kg
20-inch 7-Sheave QRJ Blocks, 100-140 short tons, 7/8" to 1" or 22mm to 26mm				
QRJ100SV20RTB	100	7	508	1179
QRJ140SV20RTB	140	7	508	1405

⚠ WARNING
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All dimensions in mm

Overhaul Balls

Provide the overhaul weight necessary to counter bearing friction and winch-to-boom-tip line weight. Because these units must meet a wide range of field applications, we offer an equally wide range of unit sizes. It is in fact, one of the widest ranges available. Over 240 models; 3 - 25 metric tonnes WLL. Non-swivel balls are also available.

Standard features

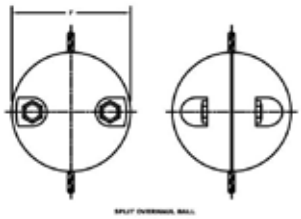
- 3 to 25 metric tonnes
- 4:1 design factor
- Heavy duty J-Latch standard

Optional features

- High capacity, custom engineered balls available upon request.

Split Overhaul Ball

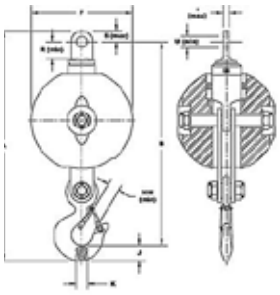
Design Factor 4:1



Art.no.	Model No.	Weight kg	Wire Rope Size	F Ball Dia.
452245	OB 50 SPLIT	22.7	Suits 13 - 22 mm wire rope	184
452179	OB 100 SPLIT	45.4	Suits 16-22 mm wire rope	235

Top Swivel Overhaul Ball 3 - 25 metric tonnes

Design Factor 4:1



Key to Top Swivel Overhaul Ball Model Numbers:

OB - Overhaul Ball
4EE - Swivel Model
85 - Ball Weight (lb)
4 - Type

To order please specify the model number.

Art. no.	Model No.	WLL metric tonnes	Weight of Assembly kg	A Overall Length	B Net Length	F Ball Dia.	H 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.
471995	OB3JEM28-4	2.7	17.2	342	271	202	28	37	28	31	31	23	28
471538	OB4EE35-4	3.6	26.8	599	510	191	28	37	28	39	34	26	34
471539	OB7EE35-4	6.4	28.6	622	545	191	35	46	37	39	34	26	34

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

471541	OB7EE85-4	6.4	46.3	625	545	241	35	46	37	39	34	26	34
471545	OB7EE150-4	6.4	77.6	692	612	286	35	46	37	39	34	26	34
471550	OB12EE200-4	10.9	112.5	864	747	305	46	66	49	57	52	33	45
471861	OB12EE285-4	10.9	163.3	864	747	353	46	66	49	57	52	33	46
471552	OB12EE350-4	10.9	183.3	864	747	368	46	66	49	57	52	33	46
473734	OB19EE350-4	17.2	197.3	953	825	368	71	76	61	62	52	33	46
473735	OB19EE650-4	17.2	332.5	1004	876	456	71	76	61	62	52	33	46
473738	OB25EE650 - 4	22.7	346.5	1042	903	456	71	76	61	71	64	42	53
473739	OB25EE1150-4	22.7	568.4	1042	903	549	71	76	61	71	64	42	53

Model no.	Working Load Limit (short tons)	Weight of Assembly kg	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
Type 4 Overhaul Ball, 7 short tons												
OB 7EE 35-4	7	28.6	625	545	190	35	46	37	39	34	26	33
OB 7EE 85-4	7	45.4	625	545	241	35	46	37	39	34	26	33
OB 7EE 150-4	7	77.6	692	612	286	35	46	37	39	34	26	33
OB 7EE 200-4	7	95.3	692	612	305	35	46	37	39	34	26	33
OB 7EE 220-4	7	113	692	612	324	35	46	37	39	34	26	33
OB 7EE 285-4	7	144	692	612	353	35	46	37	39	34	26	33
Type 4 Overhaul Ball, 12 short tons												
OB 12EE 85-4	12	63.0	801	684	241	46	66	49	57	52	33	45
OB 12EE 150-4	12	94.8	864	747	286	46	66	49	57	52	33	45
OB 12EE 200-4	12	112	864	747	305	46	66	49	57	52	33	45
OB 12EE 220-4	12	131	864	747	324	46	66	49	57	52	33	45
OB 12EE 285-4	12	163	864	747	353	46	66	49	57	52	33	45
OB 12EE 350-4	12	180	864	747	368	46	66	49	57	52	33	45
OB 12EE 500-4	12	265	915	798	433	46	66	49	57	52	33	45
OB 12EE 650-4	12	319	915	798	456	46	66	49	57	52	33	45
OB 12EE1150-4	12	531	915	798	549	46	66	49	57	52	33	45
Type 4 Overhaul Ball, 19 short tons												
OB 19EE 85-4	19	77.1	889	761	241	71	76	60	62	52	33	45
OB 19EE 150-4	19	109	953	825	286	71	76	60	62	52	33	45
OB 19EE 200-4	19	127	953	825	305	71	76	60	62	52	33	45
OB 19EE 350-4	19	197	953	825	368	71	76	60	62	52	33	45
OB 19EE 500-4	19	267	1004	876	433	71	76	60	62	52	33	45
OB 19EE 650-4	19	332	1004	876	456	71	76	60	62	52	33	45
OB 19EE1150-4	19	545	1004	876	549	71	76	60	62	52	33	45
Type 4 Overhaul Ball, 25 short tons												
OB 25EE 350-4	25	209	992	852	368	71	76	60	71	64	42	53
OB 25EE 500-4	25	289	1042	903	433	71	76	60	71	64	42	53
OB 25EE 650-4	25	356	1042	903	456	71	76	60	71	64	42	53
OB 25EE1150-4	25	568	1042	903	549	71	76	60	71	64	42	53
Type 4 Overhaul Ball, 30 short tons												
OB 30EE 650-4	30	396	1250	1061	456	76	116	95	71	73	41	58
OB 30EE1150-4	30	609	1250	1061	549	76	116	95	71	73	41	58

Bottom Swivel Overhaul Balls available upon request

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

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

For overhaul ball warnings and use limitations see pages 6:45 – 6:46.

Design Factor 4:1

Top-Swivel with BK Hook

Overhaul ball assembly

Non-Swivel Overhaul Balls

With BK-13-10 Hook

Model Number	Working Load Limit (short tons)	Weight kg
OBK4EE35-4	4	27.7
OBK4EE85-4	4	45.8
OBK4EE150-4	4	76.7
OBK4EE200-4	4	94.3

With BK-16-10 Hook

OBK7EE35-4	7	29.5
OBK7EE85-4	7	47.2
OBK7EE150-4	7	78
OBK7EE200-4	7	96.2

With BK-18/22-10 Hook

OBK12EE85-4	12	64
OBK12EE150-4	12	95.3
OBK12EE200-4	12	113
OBK12EE285-4	12	163
OBK12EE350-4	12	183
OBK12EE650-4	12	330
OBK12EE1150-4	12	532

Model Number	Working Load Limit (short tons)	Weight kg
OB4NS35-2	4	29.5
OB4NS85-2	4	53.1
OB4NS150-2	4	83.9
OB4NS200-2	4	107
OB7NS35-2	7	31.3
OB7NS85-2	7	54.9
OB7NS150-2	7	85.7
OB7NS200-2	7	108
OB12NS85-2	12	65.8
OB12NS150-2	12	97.5
OB12NS200-2	12	120
OB12NS285-2	12	158
OB12NS350-2	12	190
OB12NS650-2	12	322
OB12NS1150-2	12	553
OB19NS85-2	19	81.2
OB19NS150-2	19	113
OB19NS200-2	19	136
OB19NS350-2	19	205
OB19NS650-2	19	337
OB19NS1150-2	19	567
OB25NS350-2	25	218
OB25NS650-2	25	352
OB25NS1150-2	25	573
OB30NS650-2	30	368
OB30NS1150-2	30	651

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Swivels

Our 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 metric tonnes 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.

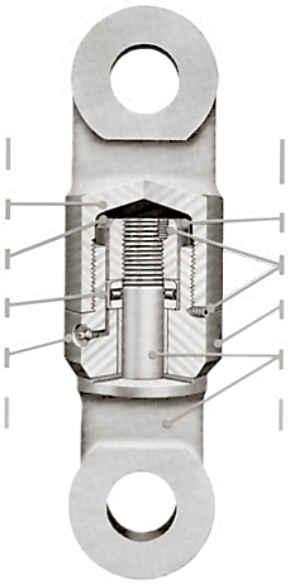
Standard equipment

- Forged hook with latch
- Roller thrust bearing
- Large bronze thrust bushing
- Recessed lubrication fitting
- Large lubricant reservoir
- Proof load test

Optional equipment

- Custom end fitting sizes
- Custom sizes above 30 metric tonnes WLL
- Anti-corrosion coatings
- CE compliant upon request.

The simple and compact design of a Johnson Swivel

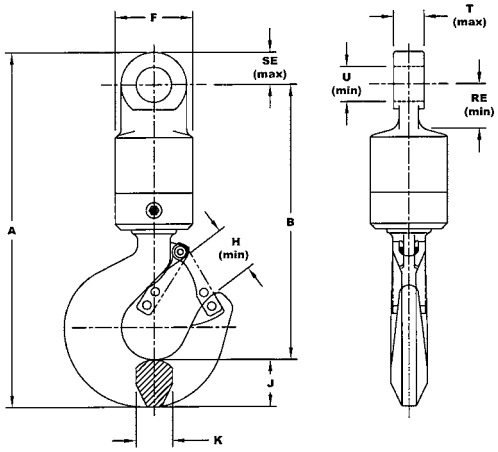


⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Swivel Eye/Hook, 3 - 30 metric tonnes

Design Factor - see table



Key to Eye/Hook Swivel Model Numbers:

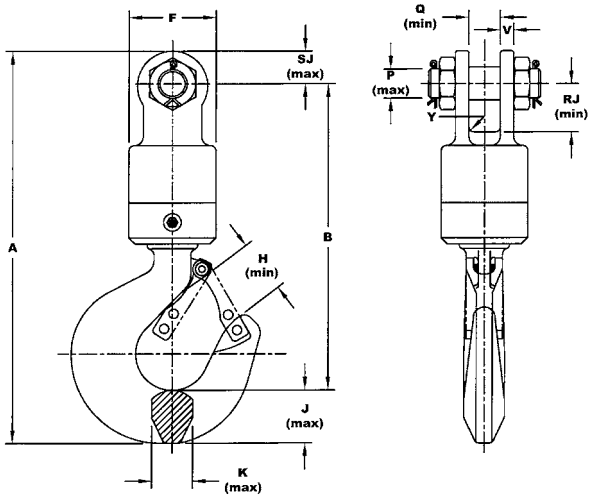
3 - Working Load Limit (metric metric tonnes)
E - Top Fitting (E = Eye)
H - Bottom Fitting (H = Hook)
M - Midget Swivel

To order please specify the model number.

Art.no.	Model No.	WLL metric tonnes	A Overall Length	B Net Length	F Swivel Dia.	H Throat Opening with Latch	J Hook Thickness	K Hook Width	RE Hole to Obstruction Min	SE Hole to End of Fitting Max	T Thickness of Eye Max	U Hole Dia. Min	Weight kg	Design Factor
471266	3EHM	3.0	269	201	67	28	38	28	31	31	23	26	3.5	5
471268	3EH	3.0	342	273	83	28	38	28	39	34	26	33	6.8	5
471270	5EH	5.0	350	281	83	28	38	28	39	34	26	33	6.8	4
471272	7EH	7.0	37	299	83	35	46	35	39	34	26	33	7.3	4
471274	9EH	9.0	471	356	102	49	64	49	57	52	33	45	15.4	4
471276	12EH	12.0	480	365	113	49	64	49	62	52	33	45	17.7	4
471278	15EH	15.0	480	365	113	49	64	49	62	52	33	45	17.7	4
471280	20EH	20.0	580	443	133	71	76	61	71	64	42	53	31.3	4
471281	25EH	25.0	629	480	133	83	89	76	71	64	42	53	41.0	5
471282	30EH	30.0	674	515	165	83	89	76	71	73	41	59	53.0	4

Swivel Jaw/Hook, 3 - 15 metric tonnes

Design Factor - see table



Key to Jaw/Hook Swivel Model Numbers:

3 - Working Load Limit (metric metric tonnes)
J - Top Fitting (J = Jaw)
H - Bottom Fitting (H = Hook)
M - Midget Swivel

To order please specify the model number.

Art.no.	Model No.	WLL metric tonnes	A Overall Length	B Net Length	F Swivel Dia.	H Throat Opening with Latch	J Hook Thickness	K Hook Width	P Pin Dia. Max	Q Width Between Ears Min	RJ Pin to Obstruc -tion Min	SJ Pin to End of Fitting Max	V Thickness of Ear	Y Jaw Radius	Weight kg	Design Factor
471267	3JHM	3.0	267	201	67	28	38	28	25	25	27	31	13	2	3.9	5
471269	3JH	3.0	348	276	83	28	38	28	32	37	53	36	14	6	8.2	5
471271	5JH	5.0	357	284	83	28	38	28	32	37	53	36	14	6	8.6	4
471273	7JH	6.4	383	302	83	35	46	35	32	37	53	36	14	6	9.0	4
471275	9JH	9.0	473	358	102	49	64	49	45	43	68	52	19	6	18.1	5
471277	12JH	12.0	486	371	113	49	64	49	45	49	75	52	19	6	20.4	4
471279	15JH	15.0	486	371	113	49	64	49	45	49	75	52	19	6	20.4	4

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

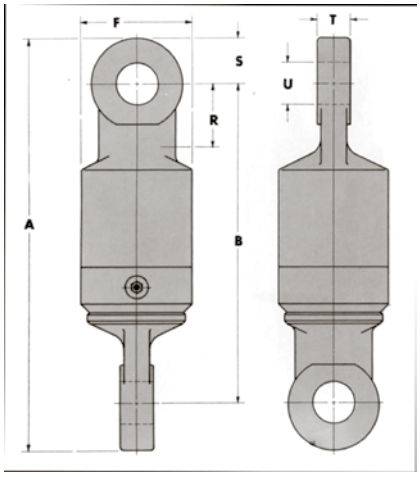
Swivel Eye/Eye, 3 - 30 metric tonnes

Design Factor 5:1, CE marked

Key to Eye/Eye Swivel Model Numbers:

3 - Working Load Limit (metric metric tonnes)
E - Top Fitting (E = Eye)
E - Bottom Fitting (E = Eye)
M - Midget Swivel

To order please specify the model number.



CE

Art.no.	Model No.	WLL metric tonnes	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	Weight kg
471430	3EEM	3.0	204	144	67	32	32	23	26	2.7
471769	4EE	4.0	306	241	83	39	34	26	33	6.3
471434	7EE	7.0	302	237	83	39	34	26	33	6.2
471438	12EE	12.0	388	287	102	62	52	33	45	12.0
471442	19EE	19.0	404	302	113	63	52	33	45	14.3
471446	25EE	25.0	450	329	133	71	61	42	53	22.8
471447	30EE	30.0	513	374	165	66	71	41	59	38.5

Swivel Jaw/Jaw, 3 - 19 metric tonnes

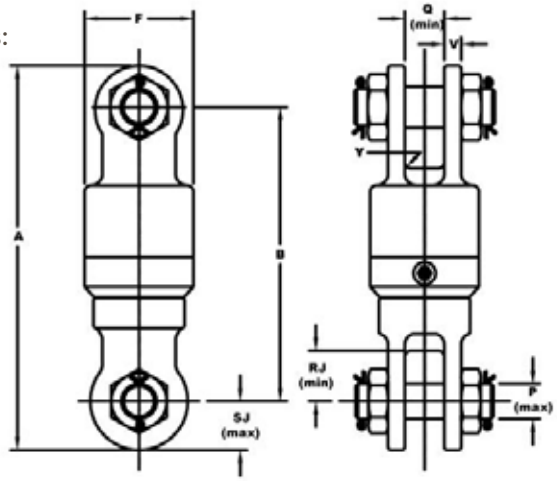
Design Factor 5:1, CE marked

6

Key to Jaw/Jaw Swivel Model Numbers:

3 - Working Load Limit (metric tonnes)
J - Top Fitting (J = Jaw)
J - Bottom Fitting (J = Jaw)
M - Midget Swivel.

To order please specify the model number.



CE

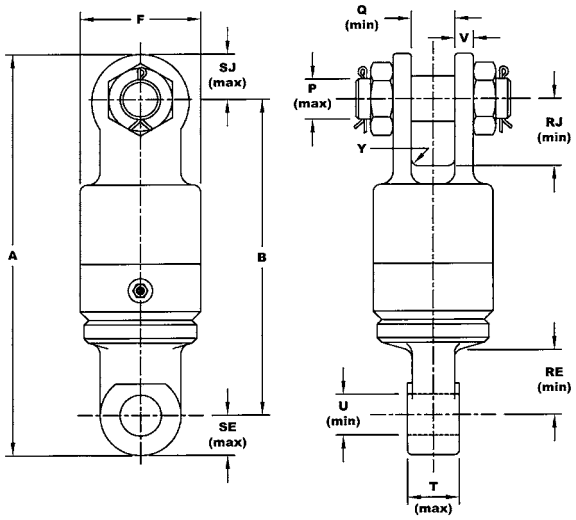
Art.no.	Model No.	WLL metric tonnes	A Overall Length	B Net Length	F Swivel Dia.	P Pin Dia. Max	Q Width Between Ears Min	R Pin to Obstruction Min	S Pin to End of Fitting Max	V Thickness of Ear	Y Jaw Radius	Weight kg
471433	3JJM	3.00	209	150	67	25	25	34	32	13	2	3.8
471772	4JJ	4.00	317	247	82	32	37	53	37	14	6	9.9
471437	7JJ	7.00	317	247	82	32	37	53	37	14	6	9.9
471441	12JJ	12.00	397	295	102	44	43	68	52	19	6	19.1
471445	19JJ	19.00	423	321	113	44	49	75	52	19	6	21.5

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Swivel Jaw/Eye, 3 - 19 metric tonnes

Design Factor 5:1, CE marked



Key to Jaw/Eye Swivel Model Numbers:

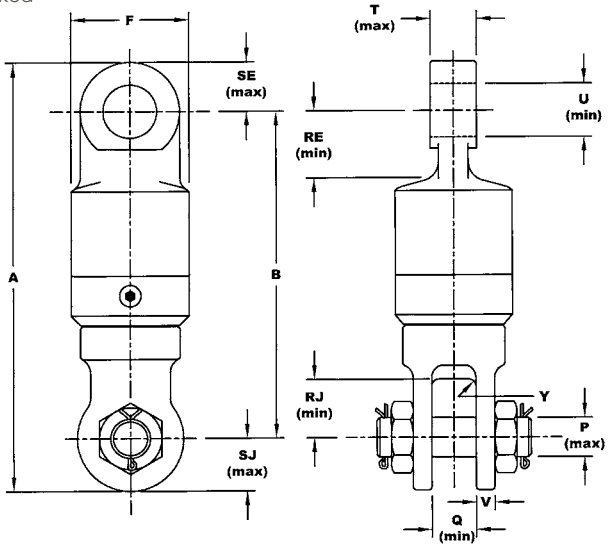
3 - Working Load Limit (metric tonnes)
J - Top Fitting (J = Jaw)
E - Bottom Fitting (E = Eye)
M - Midget Swivel

To order please specify the model number.

Art.no.	Model No.	WLL metric tonnes	A Overall Length	B Net Length	F Swivel Dia.	P Pin Dia. Max.	Q Width Between Ears Min.	RE Hole to Obstruc -tion Min.	RJ Pin to Obstruc -tion Min.	SE Hole to End of Fitting Max.	SJ Pin to End of Fitting Max.	T Thickness of Eye Max.	U Hole Dia. of Fitting Min	V Thick- ness of Ear	Y Jaw Radius	Weight kg
471432	3JEM	3.0	202	144	67	25	24	34	34	32	31	24	26	13	2	3.2
471771	4JE	4.0	309	240	83	32	37	39	53	36	35	24	33	14	6	7.7
471436	7JE	7.0	312	241	83	32	37	39	54	35	35	25	32	14	6	7.7
471440	12JE	12.0	395	293	102	45	44	62	69	52	52	33	45	19	6	15.0
471444	19JE	19.0	404	302	113	45	50	62	75	52	52	33	45	19	6	17.2

Swivel Eye/Jaw, 3 - 19 metric tonnes

Design Factor 5:1, CE marked



Key to Eye/Jaw Swivel Model Numbers:

3 - Working Load Limit (metric tonnes)
E - Top Fitting (E = Eye)
J - Bottom Fitting (J = Jaw)
M - Midget Swivel

To order please specify the model number.

Art.no.	Model No.	WLL metric tonnes	A Overall Length	B Net Length	F Swivel Dia.	P Pin Dia. Max	Q Width Between Ears Min	RE Hole to Obstruc -tion Min	RJ Pin to Obstruc -tion 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 Thick- ness of Ear	Y Jaw Radius	Weight kg
471431	3EJM	3.0	210	150	67	25	25	32	34	31	31	23	26	13	2	3
471770	4EJ	4.0	311	244	82	32	37	41	53	33	37	26	33	14	6	8
471435	7EJ	7.0	311	244	82	32	37	41	53	33	37	26	33	14	6	8
471439	12EJ	12.0	397	295	102	44	43	64	68	52	52	33	45	19	6	16
471443	19EJ	19.0	416	315	113	44	49	62	75	52	52	33	45	19	6	19

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Open Wedge Sockets

Open Wedge Sockets combine positive attachment with optimum versatility. Easy-to-change Johnson Wedge Sockets are a high strength cast alloy steel with charpy value of 34J (25ft-lb) at -20C (-4F). Each socket accepts at least two different ductile iron wedges. This allows the socket to be used with more than one rope size. Together, wedge and body act as a vise which grips the wire rope and locks it into place.

Key to Open Wedge Socket Model Numbers:

WS - Wedge Socket
FS - Federal Specification
6 - Body Number
19 mm - Wire Rope Wedge Size

To order please specify the model number.

Open Wedge Socket 9.5 mm to 38 mm

Design Factor 4:1

Art.no.	Model No.	Wire Rope mm	Weight kg	A Overall Length	B Net Length	E Total Thickness	P Pin Dia.	Q Width Between Ears Min	R Pin to End of Fitting	S Pin to End of Fitting	V Thickness of Ear
472371	WS-4 3/8"	10	1.5	165	137	66	26	24	31	29	11
472372	WS-4 7/16"	11	1.5	165	137	66	26	24	31	29	11
472373	WS-4 1/2"	13	1.5	165	137	66	26	24	31	29	11
472374	WS-5 1/2"	13	4.0	222	184	90	32	35	46	37	17
472375	WS-5 9/16"	14	4.0	222	184	90	32	35	51	37	17
472376	WS-5 5/8"	16	4.0	222	184	90	32	35	51	37	17
472377	WS-6 5/8"	16	4.2	224	186	90	32	38	48	38	16
472378	WS-8A 5/8"	16	7.3	286	232	106	42	43	66	54	13
472379	WS-6 3/4"	19	4.2	224	186	90	32	38	36	38.	16
472380	WS-8A 3/4"	19	7.3	286	232	106	42	43	61	54	13
472381	WS-7 7/8"	22	7.3	283	241	90	32	33	58	41	18
472382	WS-8 7/8"	22	8.2	289	241	106	42	43	53	48	21
472383	WS-7 1"	26	7.3	283	241	90	32	33	64	41	18
472384	WS-8 1"	26	8.2	289	241	106	42	43	56	48	21
472385	WS-10 1 1/8"	28	20.9	392	337	106	42	45	79	56	21
472386	WS-11 1 1/8"	28	24.5	406	343	132	64	62	112	64	22
472387	WS-10 1 1/4"	32	20.9	392	337	106	42	45	79	56	21
472388	WS-11 1 1/4"	32	24.5	406	343	132	64	62	109	64	22
474271	FS-26 1 3/8"	35	43.1	467	381	162	77	67	107	86	33
472389	FS-26 1 1/2"	38	43.1	467	381	162	77	67	107	86	33

Provides a termination efficiency 80%, based on the catalog minimum breaking force of 6x19, 6x25, and 6x36, IWRC wire rope.

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Snatch Blocks

Johnson Snatch Blocks have the convenient side opening feature. This is true even of our heavy duty top dead-end models, and makes it easy to reeve the block without removing any fitting from the end of the wire rope. Other features include choice of swivel hook, shackle, eye fittings or Tailboard Blocks which have no fittings at all.

Standard features

- Rugged and reliable
- 4:1 design factor
- Easy-open side plates
- Metric rated
- Large hand nuts
- Retainer on latch pin
- Bow shackle with retainer pin
- Bronze bushing

Optional features

- Proof load
- Roller bearings
- Marine epoxy paint
- Heavy duty J-latch
- Larger sizes
- Customized blocks
- CE compliant upon request

Wide range

We offer over 250 models and sizes, from 2 to 30 metric tonnes. Sheave sizes from 76 mm to 610 mm in diameter. Multiple rope sizes and end fittings available.

Rugged

Johnson's famous durability is well established in the industry. These blocks stand up to the toughest applications, whether in blistering sun or under icy blizzard conditions.

Reliable

From built-in strength comes the reliability long associated with the Johnson name. These blocks are performers, day after day and year after year.

Many choices

Singles, doubles, top dead end, towing, oilfield, pipe laying and general construction. Sizes and specific models for all.

Convenient

Large, easy to grip hand nuts on all models, especially on the smallest models. Makes it easier to open and close under all conditions without removing gloves, and easy to tap with a hammer to loosen or lock down.

Secondary securement

All hand nuts and shackles are fitted with "R" pins as a secondary securement device, for example where inspection is limited or infrequent due to location or other factors.

Snatch Block - Tailboard

Single Sheave

Design Factor 4:1, CE marked

Art.no.	Model	WLL metric tonnes	Sheave Diameter	Wire Rope Size	Weight kg
474572012QR3	SB2S3BT	2	3" / 80 mm	5/16" – 3/8" / 8 - 10 mm	1.4
474562016QR3	SB4S4BT	4	4" / 100 mm	3/8" - 1/2" / 10 - 13 mm	4.5
474621016QR3	SB4S6BT	4	6" / 150 mm	3/8" - 1/2" / 10 - 13 mm	5.9
474624016QR3	SB4S8BT	4	8" / 200 mm	3/8" - 1/2" / 10 - 13 mm	7.7
474542024QR3	SB8S6BT	8	6" / 150 mm	5/8" - 3/4" / 16-20 mm	7.2
474369024QR3	SB8S8BT	8	8" / 200 mm	5/8" - 3/4" / 16-20 mm	11.3
474375024QR3	SB8S10BT	8	10" / 250 mm	5/8" - 3/4" / 16-20 mm	14.1
474381024QR3	SB8S12BT	8	12" / 300 mm	5/8" - 3/4" / 16-20 mm	15.4
474410028QR3	SB12S6BT	12	6" / 150 mm	3/4" - 7/8" / 20 - 22 mm	12.7
474416028QR3	SB12S8BT	12	8" / 200 mm	3/4" - 7/8" / 20 - 22 mm	19
474422028QR3	SB12S10BT	12	10" / 250 mm	3/4" - 7/8" / 20 - 22 mm	24.5
474733036QR3	SB20S8BT	20	8" / 200 mm	1" - 1 1/8" / 26 - 29 mm	20.9
474734036QR3	SB20S10BT	20	10" / 250 mm	1" - 1 1/8" / 26 - 29 mm	29.5
474742040QR3	SB30S20BT	30	20" / 500mm	1 1/8" - 1 1/4" / 29-32 mm	93

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Snatch Block with Shackle

Single Sheave

Design Factor 4:1, CE marked

Art.no.	Model	WLL metric tonnes	Sheave diameter	Wire Rope Size	Weight kg
474602012QR3	SB2S3BS	2	3" / 80 mm	5/16" – 3/8" / 8-10 mm	2.3
474603016QR3	SB4S4BS	4	4" / 100 mm	3/8" - 1/2" / 10-13 mm	7.7
474620016QR3	SB4S6BS	4	6" / 150 mm	3/8" - 1/2" / 10-13 mm	9.0
474623016QR3	SB4S8BS	4	8" / 200 mm	3/8" - 1/2" / 10-13 mm	10.8
474644016QR3	SB4S10BS	4	10" / 250 mm	3/8" - 1/2" / 10-13 mm	15.0
474365024QR3	SB8S6BS	8	6" / 150 mm	5/8" - 3/4" / 16-19 mm	12.7
474371024QR3	SB8S8BS	8	8" / 200 mm	5/8" - 3/4" / 16-19 mm	16.8
474377024QR3	SB8S10BS	8	10" / 250 mm	5/8" - 3/4" / 16-19 mm	19.5
474587024QR3	SB8S12BS	8	12" / 300 mm	5/8" - 3/4" / 16-19 mm	24.5
474412028QR3	SB12S6BS	12	6" / 150 mm	3/4" - 7/8" 20-22 mm	22.7
474418028QR3	SB12S8BS	12	8" / 200 mm	3/4" - 7/8" 20-22 mm	29.0
474424028QR3	SB12S10BS	12	10" / 250 mm	3/4" - 7/8" 20-22 mm	34.5
474582028QR3	SB12S12BS	12	12" / 300 mm	3/4" - 7/8" 20-22 mm	41.7
474436028QR3	SB12S14BS	12	14" / 350 mm	3/4" - 7/8" 20-22 mm	49.9
474455028QR3	SB15S8BS	15	8" / 200 mm	3/4" - 7/8" 20-22 mm	29.0
474461028QR3	SB1510BS	15	10" / 250 mm	3/4" - 7/8" (20-22 m	35.4
474647036QR3	SB20S8BS	20	8" / 200 mm	1" - 1 1/8" 26-29 mm	43.1
474728036QR3	SB20S10BS	20	10" / 250 mm	1" - 1 1/8" 26-29 mm	51.7
474729036QR3	SB20S12BS	20	12" / 300 mm	1" - 1 1/8" 26-29 mm	53.0
474730036QR3	SB20S14BS	20	14" / 350 mm	1" - 1 1/8" 26-29 mm	58.0
474731036QR3	SB20S16BS	20	16" / 400 mm	1" - 1 1/8" 26-29 mm	73.0
474740040QR3	SB30S20BS	30	20" / 500 mm	1 1/8" - 1 1/4" 29-32 mm	135.2

Snatch Block with Hook and Latch

Single Sheave

Design Factor 4:1, CE marked

Art.no.	Model	WLL metric tonnes	Sheave diameter	Wire Rope Size	Weight kg
475092012QR3	SB2S3BH	2	3" / 80 mm	5/16" – 3/8" / 8-10 mm	2.3
475090016QR3	SB4S6BH	4	6" / 150 mm	3/8" - 1/2" / 10-13 mm	8.6
475093016QR3	SB4S8BH	4	8" / 200 mm	3/8" - 1/2" / 10-13 mm	10.0
474655016QR3	SB4S4BH	4	4" / 100 mm	3/8" - 1/2" / 10-13 mm	7.3
474601024QR3	SB8S8BH	8	8" / 200 mm	5/8" - 3/4" / 16-19 mm	15.9
475104024QR3	SB8S10BH	8	10" / 250 mm	5/8" - 3/4" / 16-19 mm	19.0
474583024QR3	SB8S12BH	8	12" / 300 mm	5/8" - 3/4" / 16-19 mm	24.0
475109028QR3	SB12S6BH	12	6" / 150 mm	3/4" - 7/8" / 20-22 mm	20.9
474577028QR3	SB12S8BH	12	8" / 200 mm	3/4" - 7/8" 20-22 mm	27.2
474594028QR3	SB12S10BH	12	10" / 250 mm	3/4" - 7/8" 20-22 mm	32.6
474581028QR3	SB12S12BH	12	12" / 300 mm	3/4" - 7/8" / 20-22 mm	39.9
475119028QR3	SB15S8BH	15	8" / 200 mm	3/4" - 7/8" / 20-22 mm	29.9
475121028QR3	SB15S10BH	15	10" / 250 mm	3/4" - 7/8" / 20-22 mm	36.3
475123028QR3	SB15S12BH	15	12" / 300 mm	3/4" - 7/8" / 20-22 mm	44.0
475129036QR3	SB20S8BH	20	8" / 200 mm	1" - 1 1/8" / 26-29 mm	36.7
475131036QR3	SB20S10BH	20	10" / 250 mm	1" - 1 1/8" / 26-29 mm	45.3
475133036QR3	SB20S12BH	20	12" / 300 mm	1" - 1 1/8" / 26-29 mm	46.7
474823040QR3	SB30S20BH	30	20" / 500 mm	1 1/8" - 1 1/4" / 26-29 mm	125
475142040QR3	SB30S24BH	30	24"/ 610 mm	1 1/8" - 1 1/4" / 29-32 mm	155

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Top Deadend Snatch Block with Shackle and Latch

Single Sheave

Design Factor 4:1

Art.no.	Model	WLL metric tonnes	Sheave diameter	Wire Rope Size	Weight kg
474748016	TD4S6BS	4	6" / 150 mm	3/8" - 1/2" / 10-13 mm	10.4
474756024	TD8S8BS	8	8" / 200 mm	5/8" - 3/4" / 16-19 mm	18.1
474755024	TD8S6BS	8	6" / 150 mm	5/8" - 3/4" / 16-19 mm	15.9
474757024	TD8S10BS	8	10" / 250 mm	5/8" - 3/4" / 16-19 mm	21.3
474758024	TD8S12BS	8	12" / 300 mm	5/8" - 3/4" / 16-19 mm	26.8
474767028	TD12S10BS	12	10" / 250 mm	3/4" - 7/8" / 20-22 mm	35.8
474769028	TD12S14BS	12	14" / 350 mm	3/4" - 7/8" / 20-22 mm	50.8
475205028	TD15S10BS	15	10" / 250 mm	3/4" - 7/8" / 20-22 mm	34.9
475210028	TD15S12BS	15	12" / 300 mm	3/4" - 7/8" / 20-22 mm	43.5
474771036	TD20S14BS	20	14" / 350 mm	1" - 1 1/8" / 26-29 mm	66.2

Top Deadend Snatch Block with Shackle

Double Sheave

Design Factor 4:1

Art.no.	Model	WLL metric tonnes	Sheave diameter	Wire Rope Size	Weight kg
474774016	DB8S4BS	8	4" / 100 mm	3/8" - 1/2" / 10-13 mm	13.6
474781024	DB12D6BS	12	6" / 150 mm	5/8" - 3/4" / 16-19 mm	24.5
474792028	DB15D8BS	15	8" / 200 mm	3/4" - 7/8" / 20-22 mm	32.2
474801036	DB20D10BS	20	10" / 250 mm	1" - 1 1/8" / 26-29 mm	65.3

Top Deadend Snatch Block with Hook and Latch

Single Sheave

Design Factor 4:1

Art.no.	Model	WLL metric tonnes	Sheave diameter	Wire Rope Size	Weight kg
475253024	TD8S6BH	8	6" / 150 mm	5/8" - 3/4" / 16-19 mm	13.6
475257024	TD8S10BH	8	10" / 250 mm	5/8" - 3/4" / 16-19 mm	20.4
475249024	TD8S12BH	8	12" / 150 mm	5/8" - 3/4" / 16-19 mm	25.9
475261028	TD12S10BH	12	10" / 250 mm	3/4" - 7/8" / 20-22 mm	15.4
475263028	TD12S14BH	12	14" / 350 mm	3/4" - 7/8" / 20-22 mm	59.9
475270028	TD15S10BH	15	10" / 250 mm	3/4" - 7/8" / 20-22 mm	35.8
4752271028	TD15S12BH	15	12" / 150 mm	3/4" - 7/8" / 20-22 mm	44.5
475485036	TD20S14BH	20	14" / 350 mm	1" - 1 1/8" / 26-29 mm	59.9

Top Deadend Snatch Block with Hook and Latch

Double Sheave

Design Factor 4:1

Art.no.	Model	WLL metric tonnes	Sheave diameter	Wire Rope Size	Weight kg
475285016	DB8D6BH	8	6" / 150 mm	3/8" - 1/2" / 10-13 mm	16.8
475301024	DB12D10BH	12	10" / 250 mm	5/8" - 3/4" / 16-19 mm	35.4
475321028	DB15D10BH	15	10" / 250 mm	3/4" - 7/8" / 20-22 mm	38.1
475323028	DB15D12BH	15	12" / 350 mm	3/4" - 7/8" / 20-22 mm	48.5
475342036	DB20D14BH	20	14" / 350 mm	1" - 1 1/8" / 26-29 mm	83.9

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Tilt Wall Blocks – Shackle Models

Model Number	Working Load Limit (metric tonnes)	Wire Rope Size	Sheave O.D.	Wt. kg
		30 MT		
TW30S16TS	30	1" / 26 mm	16" / 406 mm	107 kg
TW30S16TS	30	1-1/8" / 29 mm	16" / 406 mm	107 kg
TW30S16TS	30	1-1/4" / 32 mm	16" / 406 mm	107 kg
TW30S16TS	30	1-3/8" / 35 mm	16" / 406 mm	107 kg
TW30S16TS	30	1-1/2" / 38 mm	16" / 406 mm	107 kg
TW30S20TS	30	1" / 26 mm	20" / 508 mm	113 kg
TW30S20TS	30	1-1/8" / 29 mm	20" / 508 mm	113 kg
TW30S20TS	30	1-1/4" / 32 mm	20" / 508 mm	113 kg
TW30S20TS	30	1-3/8" / 35 mm	20" / 508 mm	113 kg
TW30S20TS	30	1-1/2" / 38 mm	20" / 508 mm	113 kg
		40 MT		
TW40S18TS	40	1" / 26 mm	18" / 457 mm	150 kg
TW40S18TS	40	1-1/8" / 29 mm	18" / 457 mm	150 kg
TW40S18TS	40	1-1/4" / 32 mm	18" / 457 mm	150 kg
TW40S18TS	40	1-3/8" / 35 mm	18" / 457 mm	150 kg
TW40S18TS	40	1-1/2" / 38 mm	18" / 457 mm	150 kg
TW40S24TS	40	1" / 26 mm	24" / 609 mm	191 kg
TW40S24TS	40	1-1/8" / 29 mm	24" / 609 mm	191 kg
TW40S24TS	40	1-1/4" / 32 mm	24" / 609 mm	191 kg
TW40S24TS	40	1-3/8" / 35 mm	24" / 609 mm	191 kg
TW40S24TS	40	1-1/2" / 38 mm	24" / 609 mm	191 kg
TW40S24TS	40	1-5/8" / 41 mm	24" / 609 mm	191 kg
TW40S24TS	40	1-3/4" / 44 mm	24" / 609 mm	191 kg
TW40S24TS	40	1-7/8" / 48 mm	24" / 609 mm	191 kg
TW40S24TS	40	2" / 51 mm	24" / 609 mm	191 kg
		55 MT		
TW55S20TS	55	1" / 26 mm	20" / 508 mm	177 kg
TW55S20TS	55	1-1/8" / 29 mm	20" / 508 mm	177 kg
TW55S20TS	55	1-1/4" / 32 mm	20" / 508 mm	177 kg
TW55S20TS	55	1-3/8" / 35 mm	20" / 508 mm	177 kg
TW55S20TS	55	1-1/2" / 38 mm	20" / 508 mm	177 kg
TW55S24TS	55	1" / 26 mm	24" / 609 mm	204 kg
TW55S24TS	55	1-1/8" / 29 mm	24" / 609 mm	204 kg
TW55S24TS	55	1-1/4" / 32 mm	24" / 609 mm	204 kg
TW55S24TS	55	1-3/8" / 35 mm	24" / 609 mm	204 kg
TW55S24TS	55	1-1/2" / 38 mm	24" / 609 mm	204 kg
TW55S24TS	55	1-5/8" / 41 mm	24" / 609 mm	204 kg
TW55S24TS	55	1-3/4" / 44 mm	24" / 609 mm	204 kg
TW55S24TS	55	1-7/8" / 48 mm	24" / 609 mm	204 kg
TW55S24TS	55	2" / 51 mm	24" / 609 mm	204 kg
TW55S24TS	55	2-1/4" / 57 mm	24" / 609 mm	204 kg

Tailboard models available upon request

All dimensions in mm

Oilfield Tubing Blocks

Art.no.	Model No.	WLL (short tons)	Sheave diameter	Number of Sheaves	*Wire rope Size	Rod Hook Clevis Working Load Limit (short tons)	Weight (lb)	Weight (Kg)
475667028QR1	TB 75T 20TTA	75	20" / 508 mm	3	7/8" / 22 mm	25	1 685	764
475688028QR1	TB 75T 20TTB	75	20" / 508 mm	3	7/8" / 22 mm	25	2 140	971
475671032QR1	TB 100T 24TTA	100	24" / 609 mm	3	1" / 26 mm	35	2 252	1 022
475689032QR1	TB 100T 24TTB	100	24" / 609 mm	3	1" / 26 mm	35	2 950	1 338
475672032QR1	TB 100Q 24TTA	100	24" / 609 mm	4	1" / 26 mm	35	2 815	1 277
475690032QR1	TB 100Q 24TTB	100	24" / 609 mm	4	1" / 26 mm	35	3 514	1 594
475731032QR1	TB 125T 24TTA	125	24" / 609 mm	3	1" / 26 mm	35	2 252	1 022
475732032QR1	TB 125T 24TTB	125	24" / 609 mm	3	1" / 26 mm	35	2 950	1 338
475729032QR1	TB 125Q 24TTA	125	24" / 609 mm	4	1" / 26 mm	35	2 815	1 277
475730032QR1	TB 125Q 24TTB	125	24" / 609 mm	4	1" / 26 mm	35	3 514	1 594
475674036QR1	TB 150T 30TTA	150	30" / 762 mm	3	1 1/8" / 29 mm	35	3 560	1 615
475691036QR1	TB 150T 30TTB	150	30" / 762 mm	3	1 1/8" / 29 mm	35	4 702	2 133
475675036QR1	TB 150Q 30TTA	150	30"/ 762 mm	4	1 1/8" / 29 mm	35	3 965	1 799
475692036QR1	TB 150Q 30TTB	150	30"/ 762 mm	4	1 1/8" / 29 mm	35	5 106	2 316
475757036QR1	TB175T 30TTA	175	30"/ 762 mm	3	1 1/8" / 29 mm	35	3 560	1 615
475758036QR1	TB175T 30TTB	175	30"/ 762 mm	3	1 1/8" / 29 mm	35	4 702	2 133
475759036QR1	TB175Q 30TTA	175	30"/ 762 mm	4	1 1/8" / 29 mm	35	3 965	1 799
475760036QR1	TB175Q 30TTB	175	30"/ 762 mm	4	1 1/8" / 29 mm	35	5 106	2 316

* Note: Additional Wire Rope Sizes Upon Request

- API 8C PSL1 compliant
- Concurrent hardening™ on sheave grooves
- Equipped with tapered roller bearings
- Optional cheek weight kits available
- Non-spring loaded duplex hook
- Hook positioning locking device, 8 positions
- Includes rod hook clevis as standard
- Hook latches with self-retaining bolt

Tubing Block Rod Hook Clevis

Art.no.	WLL (short tons)	Weight (lb)	Weight (Kg)	Tubing Block Capacity (short tons)
475695	25	46	21	75
475696	35	71	32	100
475696	35	71	32	125
475697	35	111	50	150

- High capacity rating
- Life cycle tested
- API 8C PSL1 compliant

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

Manhandler Snatch Block

Design Factor 12:1, CE marked

Johnson's Manhandler Snatch Blocks (MHSB) are suitable for personnel hoisting when properly incorporated into a compliant personnel hoist system and maintained in good working order.

See the Manhandler Warnings and Use Limitations Brochure available from Gunnebo Industries and your distributor.

- Standard painted finish
- For lifting personnel
- Sealed roller bearings
- Interlocking internal design
- R-pins retainers
- Secondary tether attachment points

Art. no	Model	WLL kg	Wire rope mm	Sheave diameter mm	Weight kgs
687431014	MHSB1S8RS	680	10 - 11	200	10.4

Galvanized Derrick Block

Design Factor 4:1

- 4 - 20 metric tonnes WLL
- Standard galvanized finish
- Handling slots in the body
- Large knock-off handles
- Interlocking internal design
- For lifting materials
- R-Pin retainers

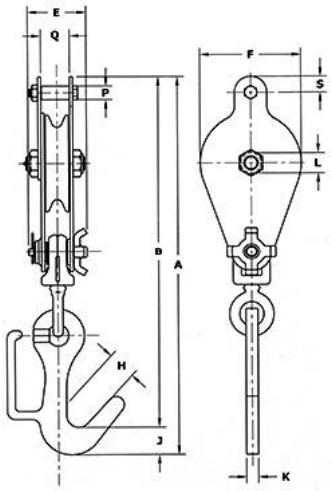
Art. no	Model	WLL metric tonnes	Wire rope mm	Sheave diameter mm	Weight kg
687710016	MHSB4S8TS	4	3/8"-1/2" / 10 - 13mm	200	15
687334018	MHSB12S10TS	12	1/2"-9/16" / 13 - 14mm	250	39.9
687853024	MHSB12S14TS	12	5/8"-3/4" / 16 -19mm	355	58.0
693030028	MHSB20S14TS	20	3/4" – 7/8" / 19 – 22 mm	355	81.2

Oilfield Blocks

We have produced Johnson oilfield equipment for over five decades. Because of our expertise in sheaves and blocks, Gunnebo Industries has become a respected manufacturer for the Petroleum industry. We know the needs and we have the know-how to fulfil them with quality lifting devices. High capacity, custom engineered oilfield blocks available upon request.

Laydown Block, 1 metric tonnes

Design Factor 4:1



Key to Laydown Block Model Numbers:

- LD – Laydown Block
- 1 – Working Load Limit
- S – Number of sheaves: S = 1
- 6 – Sheave diameter (In inches)
- B – Sheave Bearing: B = Bronze Bushed
- H – Type of fitting: H = Hook

To order please specify the model number

Art.no.	Model No.	Weight kg	A Overall Length	B Net Length	E Total Thick -ness	F Width	H Throat Opening	J Hook Thick -ness	K Hook Width	L Center Pin Dia.	P Pin Dia. Max	Q Width Between Ears Min	S Pin to End of Fitting Max
474812020	LD1S6BH	9.5	599	555	92	159	76	44	19	645	541	1135	683

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

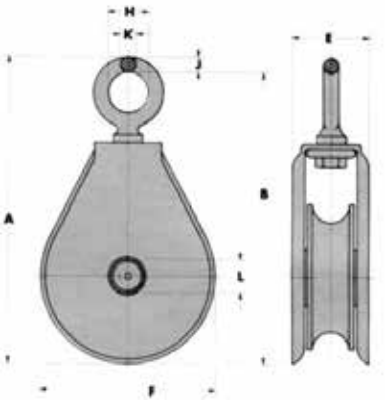
Tong Line Block

Design Factor 4:1

Art.no.	Model	WLL metric tonnes	Sheave diameter	Wire Rope Size	Weight kg
474805020	TL2.8S6RE	2.8	6" / 150 mm	Suits 13 - 16 mm wire rope	6.8
474807020	TL2.8S8RE	2.8	8" / 200 mm	Suits 13 - 16 mm wire rope	9.1

Hay Fork Pulley, 1 short ton

Design Factor 3.3:1



Key to Hay Fork Pulley Model Numbers:

HF - Hay Fork Pulley
1 - Working Load Limit (U.S. Tons)
S - Number of sheaves: S = 1
4 - Sheave Diameter
B - Sheave bearing: B = Bronze Bushed | R = Roller Bearing
E - Type of Fitting: E = Eye | H = Hook
MR - Rope Size: MR = 32mm Manilla Rope | WR = 13 mm Wire Rope

To order please specify the model number

Art.no.	Model No.	Manilla/ Wire Rope	A Overall Length	B Net Length	E Total Thickness	F Width	H Throat Opening	J Eye Thickness	K Eye Width	L Center Pin Dia.	Weight kg
453865040	HF1S4BE-MR	32	229	218	60	130	22	11	11	25	3.2
453866016	HF1S4BE-WR	32	229	218	60	130	22	11	11	25	3.2
453869040	HF1S4RE-MR	13	229	218	60	130	22	11	11	25	3.2
453870016	HF1S4RE-WR	13	229	218	60	130	22	11	11	25	3.2

Guyline Block

Design Factor 3:1

Art.no.	Model	WLL metric tonnes	Sheave diameter	Wire Rope Size	Weight kg
475541020	GL 15D6	15	6" / 150 mm	Suits 16 mm wire rope	19.1
475540020	GL 7.5S 6	7.5	6" / 150 mm	Suits 16 mm wire rope	11.3

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

All dimensions in mm

J-Latch Replacement Kit

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 330 short tons, all Johnson overhaul balls, and all swivels and snatch blocks with hooks.

Art.no.	J-Latch Kit no.	Crane Block WLL (short tons)	Weight (lb)	Weight (Kg)	Hook Part Numbers
471782	JL3-5	3-5	0.2	0.09	2590 / 10390 / 10153
471784	JL10-15	10-15	0.4	0.18	2217 / 10392
471786	JL30	30	1.5	0.68	2635
471787	JL35-45	35-45	2.1	0.95	2633
471788	JL50-70	50-70	5.0	2.3	2636 / 2637
471789	JL75-110	75-110	7.3	3.3	2638 / 2639
471790	JL115-175	115-175	8.5	3.9	2600 / 2630
474206	JL200-300	200-330	35	15.9	1096 / 4012 / 11363

Note: J-Latches fit only Johnson hooks with a lock pin hole drilled through hook tip.

*Safety factor 4:1

General Precautions

Stay within the Working Load Limits of all Gunnebo Industries products. The Working Load Limits assigned Gunnebo Industries 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 Industries Blocks hook latch attachments. Gunnebo Industries 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 Industries 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 Industries 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 Industries 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 Industries 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.

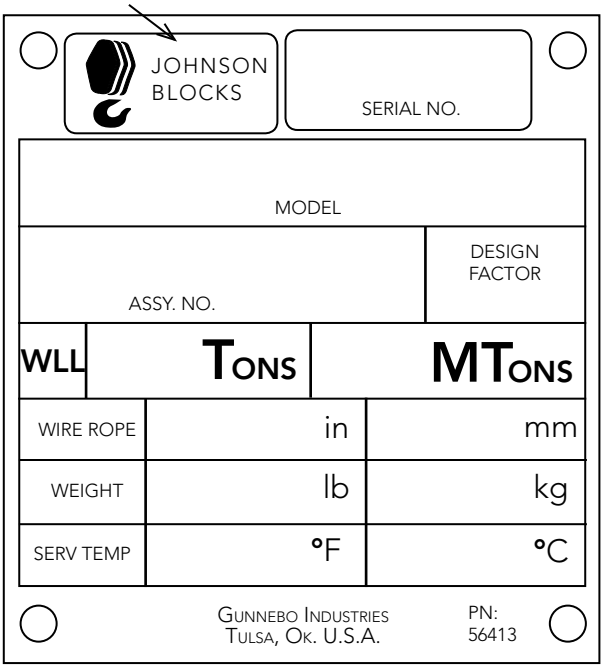
See website or user instructions for assembly instructions.

Meets listed current specifications and standards at time of publication of this catalogue.

Attention to the service temperature (ST) given on the WLL nameplate is required. Gunnebo Industries 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 (-40C), 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 10 tons.

Typical WLL nameplate



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

Typical safety caution plate

Inspection and Maintenance

Company policy Regarding Product Repair and Parts Replacement

1. Any claim arising from the use of Gunnebo Industries 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 Industries 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 Industries 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.

☑ 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.

☑ **Center Pin Retaining Nuts**

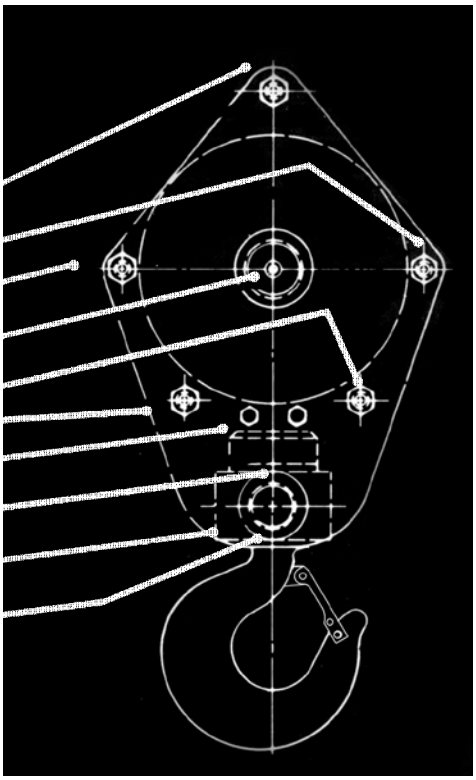
Check regularly for any signs of backing off due to high vibration or other causes. If the block has tapered roller bearings (as indicated by T on name plate), tighten the center pin retaining nut(s) until all side play has been eliminated from the sheaves and re-set the lock type set screws.

For other sheave bearing types (bronze bushing – B: roller bearing – R), a running clearance of 1/32 inches (0.79 mm) 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.



GUNNEBO Industries

Providing innovative, safe and reliable solutions since 1764

Inspection and Maintenance

☑ **Cheek Weight Cap Screws**
Cap screws should always be tightened down and locked 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. USAS B 30.5-1968 suggests that hooks should be tested at least once a year by magnafluxing. X-ray or other qualified method. Intermittent tests can be conducted, however, by the readily available, though less accurate, oil stain method. (Immerse hook in lube oil, wipe dry; whitewash surface; inspect for signs of fracture seepage.)
14 days Under Continuous Operating Conditions	**Swivels**	End Play or Gap of more than 1/16" (1.6 mm) 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.
30 days Under Intermittent Operating Conditions	**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.

INFORM A RIGGER – PASS THE WORD

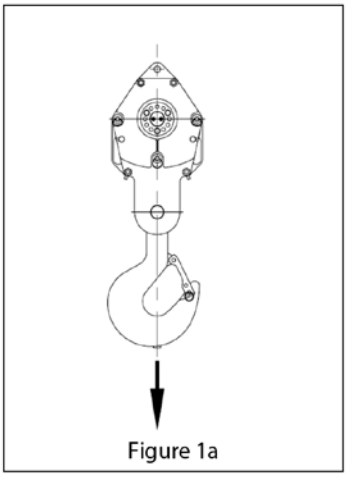


Figure 1a

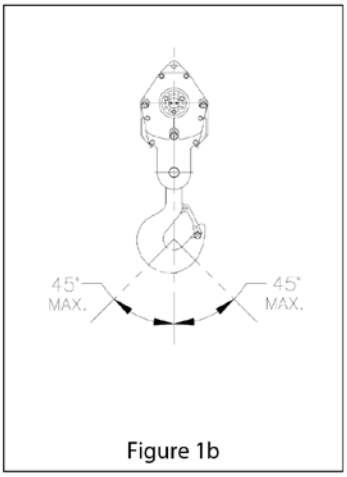


Figure 1b

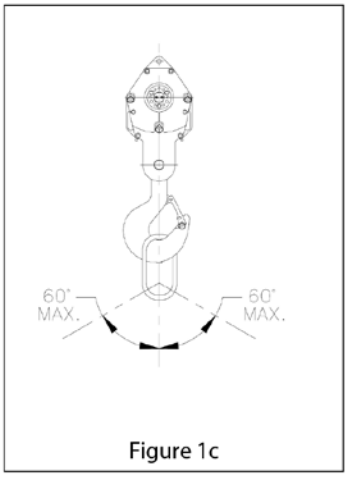


Figure 1c

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-lb 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 (82 °C). 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 temperature 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 (-40 °C), 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 Industries Crane Blocks shall not be used in alkaline or acidic conditions. Resulting metal embrittlement and accelerated corrosion can cause sudden failure.

01/10
P/N 63516 REV -

INFORM A RIGGER – PASS THE WORD

Crane Block Warnings and Use Limitations

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

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

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.

"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 Industries 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",
- unsymmetrically 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.

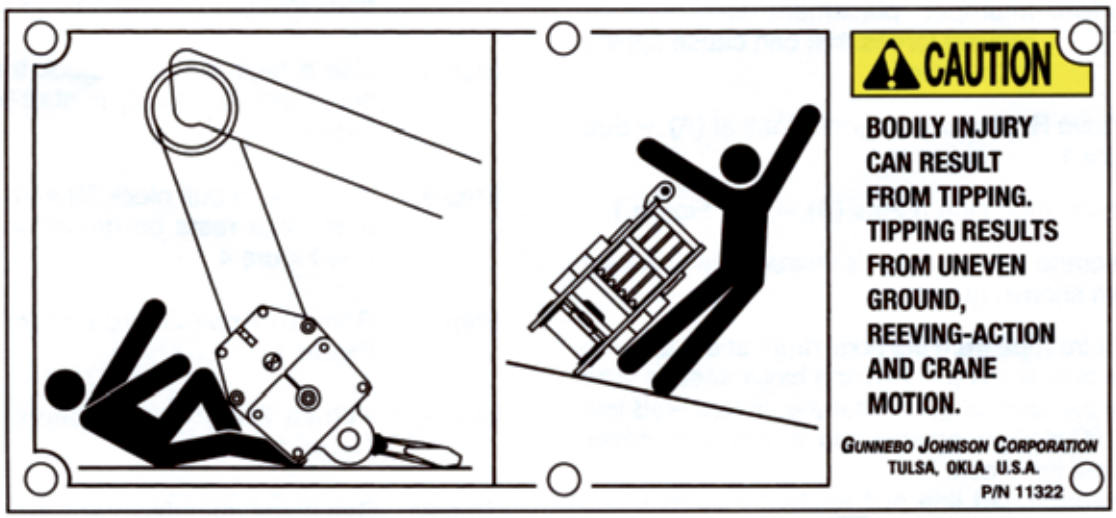
Hook load rigging shall be centered in the base (bowl/saddle) of the hook to avoid point loading of the hook and rigging disengagement. (See figure 1a, 1b, & 1c.).

01/10
P/N 63516 REV -

"Quick Reeve" Product Advisory

AVOID BODILY INJURY. Read and understand this safety advisory before attempting to install or remove wire rope from a Gunnebo Industries 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 Industries "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

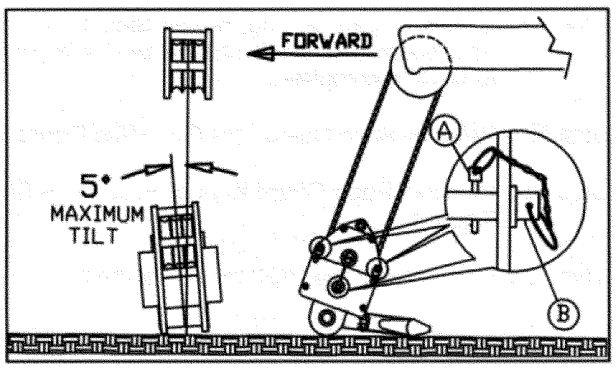


Figure 1

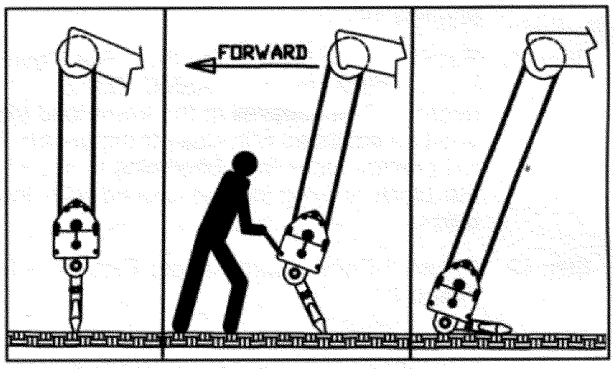


Figure 2 Figure 3 Figure 4

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

INFORM A RIGGER – PASS THE WORD

Overhaul Ball Warnings and Use Limitations

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

01/10
P/N 63517 REV -

INFORM A RIGGER – PASS THE WORD

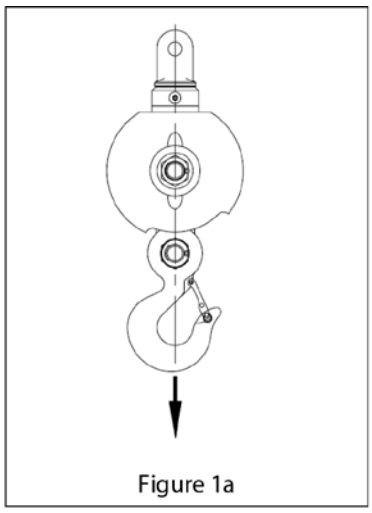


Figure 1a

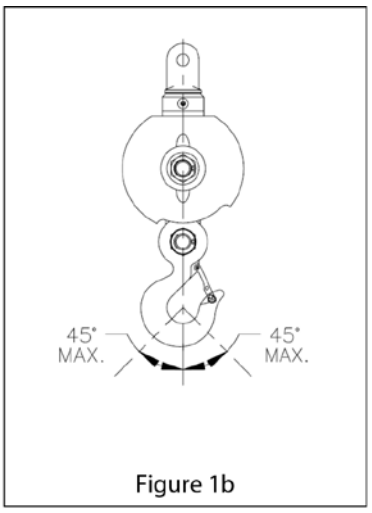


Figure 1b

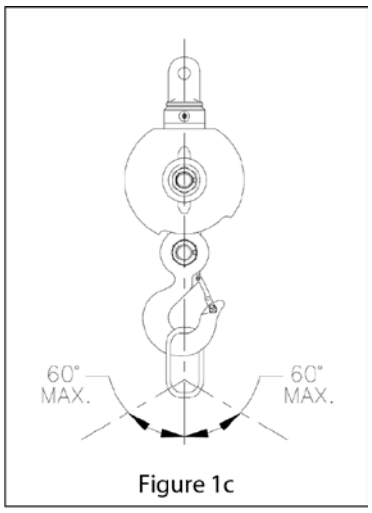


Figure 1c

- **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. (82 °C). 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 temperatures between the service temperature given on the identification tag and -40 degrees F (-40 °C), 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 -40 degrees F (-40 °C).

- **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.

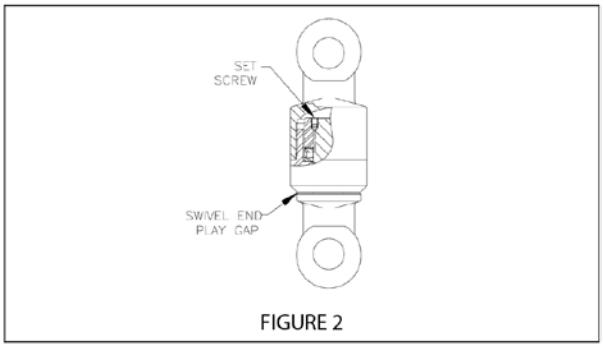


FIGURE 2

01/10
P/N 63517 REV

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

Wedge Sockets

Gunnebo Industries open wedge sockets combine positive attachment with optimum versatility. Easy-to-change Gunnebo Industries wedge sockets consist of a normalized and tempered steel body, a steel 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 Industries wedge sockets may be used with multiple sizes of wire rope. To switch from an overhaul ball application calling for a 7/8-inch (22 mm) wire rope to a block application calling for a 1-inch (25 mm) 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 Industries, 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 Industries 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 (14 mm) inches; black for 7/16 (11 mm) 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 (short tons)	Line S.W.L. With Wedge Socket (short tons)
3/8" (10 mm)	26 (12 kg)	1.6	1.3
1/2" (13 mm)	46 (21 kg)	2.9	2.3
9/16" (14 mm)	59 (27 kg)	3.6	2.9
5/8" (16 mm)	72 (33 kg)	4.5	3.6
3/4" (19 mm)	1.04 (0.47 kg)	6.4	5.1
7/8" (22 mm)	1.42 (0.64 kg)	8.7	7.0
1" (26 mm)	1.85 (0.84 kg)	11.2	9.0
1-1/8" (32 mm)	2.34 (1.1 kg)	14.1	11.3
1-1/4" (32 mm)	2.89 (1.3 kg)	17.4	13.9
1-1/2" (38 mm)	4.16 (1.9 kg)	24.7	19.8

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

INFORM A RIGGER – PASS THE WORD

Snatch Block Warnings and Use Limitations

This document contains warnings and use limitation information applicable to Gunnebo Industries Snatch Blocks and is furnished with all Gunnebo Industries shipments. Component distributors and lift system manufacturers must pass on this information in their warnings and use limitation literature where Gunnebo Industries 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 identifier.
- **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 Industries 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.

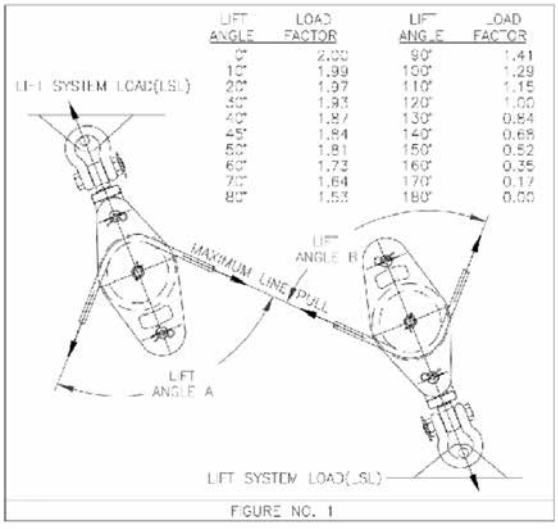


FIGURE NO. 1

- **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

⚠ WARNING
NEVER EXCEED RATED WORKING LOAD LIMIT

07/10 P/N 63988 REV-