



INTRODUCTION

FORTWALL ARABIA INDUSTRIAL COMPANY

We are a leading supplier of high-quality lifting equipment and accessories in the SAUDI ARABIA. Established in 2023, our company has been providing top-of-the-line lifting solutions to customers from various industries.

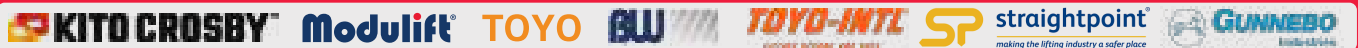
At Fortwall Arabia Industrial Company, we believe that our success is built on our commitment to quality, safety, and customer satisfaction. Our team of experienced professionals is dedicated to providing the highest level of service to our clients, and we work closely with them to ensure that their lifting equipment needs are met.

We take pride in our extensive range of products, which includes chain blocks, lever hoists, wire ropes, slings, and many other lifting equipment and accessories. Our products are sourced from trusted manufacturers who adhere to international

safety standards and are recognized for their quality and reliability.

We understand that the lifting industry can be complex, and that's why we offer comprehensive support to our clients, including technical assistance and after-sales service. Our goal is to help our clients improve their lifting operations and achieve optimal efficiency and safety.

We are committed to continuous improvement, and we invest in the latest technology and equipment to ensure that our products and services meet the evolving needs of our clients. Our vision is to be the preferred supplier of lifting equipment and accessories in the SAUDI ARABIA, and we strive to achieve this by delivering exceptional value to our customers.



Buiding No. 3500, Custodian of the two holy mosques road, Al Aqrabiyah District,
Al Khobar 34446, Kingdom of Saudi Arabia



OUR SUBSIDIARY COMPANIES





Engineered for strength
industrial lifting solutions
for demanding environments

 **FORTWALL**[®]
L I F T I N G

CONTENTS

Steel Wire Rope Slings	06
Grade 80 Chain Sling	07
Webbing Sling	08
Round Sling	09

KITO CROSBY

Shackles	11
Radiolink Plus	13
Snatch Block With Shackle Fitting, Single Sheave, 2-12	14
Snatch Block With Shackle Fitting, Single Sheave, 15-60	15
Tower Derrick Hoist Blocks	16
Closed Spelter Socket	17
Hooks & Swivels	19

Modulift®

Modulift Hook & the Load	24
Modulift Spreader Beams	25

TOYO

Chain Block	29
Lever Block	30
Electric Chain Hoist	31
Electric Hoist with Trolley	32
Screw pin Bawshackle	33
Bolt & Nut Anchoer Bawshackle	34
Wire Rope Pulling Hoist	36
Cargo Lashing Belts	36
Geared Trolley	37
Manual Push Trolley	37
Manual Gear Trolley	38
Plain Trolley	39
Lifting Clamp	39
Beam Clamp	40
Forged Ratchet Load Binder	40
Vertical Plate Lifting Clamp	41
Horizonatl Lifting Clamp YCH	42
D Ring with Wrap	42
Master Link	43
Master Link Assembly	43
Alloy Steel Safety Hooks	44
Santch Pully (Shackle Type)	46
Hydraulic Hand Pallet Truck	46
Alloy Steel Connection Link	47
Drum Lifter	47
Swivel Hoist Rings	48
Eye Bolt	49
Hydraulic Bottle Jack	50
TOYO Turnbuckle	51
Wire Rope Clip G450	52
Permanent Magnet Lifter	53
PP Ropes & Nylon Ropes	54

CUSCO COLUMBUS McKINNON CORPORATION

Container Lifting Lug	56
Bottom Lifting Lug	56
Top Lifting Lug	56





STEEL WIRE ROPE SLINGS



Dia		SWL Vertical (t)	SWL Choker (t)	Standard Soft Eye Dimensions		2 Legs	3 & 4 Legs
				L Min (mm)	W (mm)	SWL (0-4 5°) Sling angle to vertical (t)	SWL (0-4 5°) Sling angle to vertical (t)
mm	inch						
6	1/4	0.5	0.4	90	45	0.7	1.0
8	5/16	0.8	0.6	120	60	1.1	1.7
10	3/8	1.3	1.04	150	75	1.8	2.7
12	15/32	1.8	1.6	180	90	2.5	3.8
13	1/2	2.1	1.68	195	97.5	2.9	4.4
14	35/64	2.5	2	210	105	3.5	5.2
16	5/8	3.3	2.64	240	120	4.6	6.9
18	45/64	4.1	3.2	270	135	5.7	8.6
19	3/4	4.6	3.68	285	142.5	6.4	9.7
20	25/32	5.1	4	300	150	7.1	10.7
22	7/8	6.2	4.96	330	165	8.7	13.0
24	15/16	7.4	5.84	360	180	10.3	15.5
26	1	8.6	6.88	390	195	12.0	18.0
28	1.1/8	10	8	420	210	14.0	21.0
32	1.1/4	13.1	10.48	480	240	18.3	27.5
36	1.3/8	16.6	12.56	540	270	23.2	34.8
38	1.1/2	18.5	14.8	570	285	25.9	38.9
40	1.7/12	20.6	16.48	600	300	28.9	43.2
44	1.3/4	25	20	660	330	34.7	52.0
52	2	35	27.76	780	390	48.6	72.9
56	2.1/4	40.1	32.08	840	420	56.1	84.2
60	2.23/64	46	36.8	900	450	64.4	96.6
64	2.1/2	54.2	43.36	960	480	75.9	113.8
71	2.51/64	64.8	51.84	1065	532.5	90.7	136.1
76	3	76.5	61.2	1155	577.5	107.1	160.0
89	3.1/2	103.3	82.64	1335	667.5	144.6	216.9



GRADE 80 CHAIN SLING





Single leg chain sling with clevis sling hook



Single leg chain sling with clevis self locking hook



2 leg chain sling with clevis sling hook with safety latch



2 leg chain sling with clevis self locking hook



4 leg chain sling with clevis self locking hook



4 leg chain sling with clevis sling hook

Dia		1 Leg		2 Legs		3 & 4 Legs	
		SWL Vertical (t)	SWL Choker (t)	SWL (0-45°) Sling angle to vertical (t)	SWL (0-30°) Sling angle to vertical (t)	SWL (0-45°) Sling angle to vertical (t)	SWL (0-30°) Sling angle to vertical (t)
mm	inch						
7	9/32	1.5	1.2	2.12	2.60	3.18	3.90
8	5/16	2	1.6	2.83	3.46	4.24	5.20
10	3/8	3.15	2.52	4.45	5.46	6.68	8.18
13	1/2	5.3	4.24	7.50	9.18	11.24	13.77
16	5/8	8	6.4	11.31	13.86	16.97	20.78
20	3/4	12.5	10	17.68	21.65	26.52	32.48
22	7/8	15	12	21.21	25.98	31.82	38.97
26	1	21.2	16.96	29.98	36.72	44.97	55.08
32	1. 1/4	31.5	25.2	44.55	54.56	66.82	81.84



POLYESTER FLAT WEBBING SLING

TOYO & Toyo -INTL slings are made with high tenacity polyester webbing. and designed to lift heavy loads.

- Slings are flexible, lightweight, have wide bearing surface & reinforced lifting eyes.
- Slings are manufactured in accordance with applicable standard ASME B309.9
- We offering Sling in Inch & MM system. with safety factor 7:1



1 & 2 PLY FLAT POLYESTER SLING CAPACITY CHART

COLOR	WIDTH		 Straight-100%		 Choker-80%		 Basket -200%		 0°-45°-140%		 45°-60°-100%	
			1-PLY	2-PLY	1-PLY	2-PLY	1-PLY	2-PLY	1-PLY	2-PLY	1-PLY	2-PLY
	INCH	MM	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON
Violet	1	30	0.5	1	0.4	0.8	1	2	0.7	1.4	0.5	1
Green	2	60	1	2	0.8	1.6	2	4	1.4	2.8	1	2
Yellow	3	90	1.5	3	1.2	2.4	3	6	2.1	4.2	1.5	3
Grey	4	120	2	4	1.6	3.2	4	8	2.8	5.6	2	4
Red	5	150	2.5	5	2	4	5	10	3.5	7	2.5	5
Brown	6	180	3	6	2.4	4.8	6	12	4.2	8.4	3	6
Blue	8	240	4	8	3.2	6.4	8	16	5.6	11.2	4	8
Orange	10	300	5	10	4	8	10	20	7	14	5	10
Orange	12	360	6	12	4.8	9.6	12	24	8.4	16.8	6	12

3 & 4 PLY FLAT POLYESTER SLING CAPACITY CHART

COL OR	WID TH		 Straight-100%		 Choker-80%		 Basket -200%		 0°-45°-140%		 45°-60°-100%	
			3-PLY	4-PLY	3-PLY	4-PLY	3-PLY	4-PLY	3-PLY	4PLY	3PLY	4-PLY
	INCH	MM	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON
Violet	1	30	1.5	2	1.2	1.6	3	4	2.1	2.8	1.5	2
Green	2	60	3	4	2.4	3.2	6	8	4.2	5.6	3	4
Yellow	3	90	4.5	6	3.6	4.8	9	12	6.3	8.4	4.5	6
Grey	4	120	6	8	4.8	6.4	12	16	8.4	11.2	6	8
Red	5	150	7.5	10	6	8	15	20	10.5	14	7.5	10
Brown	6	180	9	12	7.2	9.6	18	24	12.6	16.8	9	12
Blue	8	240	12	16	9.6	12.8	24	32	16.8	22.4	12	16
Orange	10	300	15	20	12	16	30	40	21	28	15	20
Orange	12	360	18	24	14.4	19.2	36	48	25.2	33.6	18	24



ROUND SLING

- Round sling has the maximum load upto 3000T, effective length upto 100m, safety factor adopted is normally 7 :1
- Round sling is made of high tension industrial yarn (100% PES), the strands inside areas a form of endless cycle. The outside sleeve is also made of 100% PFS, not for the loading, but to protect the strands inside
- Slings are manufactured in accordance with applicable standard ASME B30.9



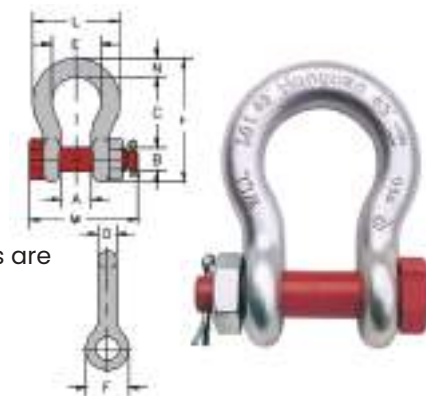
EA Round Sling's lifting method and maximum Safety Working Load parameter.

Approx DIA	WLL (T)	Color	Working Load Limit (KG)					Multi-set (KG)	
									
			100%	80%	200%	140%	100%	140%	112%
18	1	Violet	1000	800	2000	1400	1000	1400	1120
20	2	Green	2000	1600	4000	2800	2000	2800	2240
22	3	Yellow	3000	2400	6000	4200	3000	4200	3360
25	4	Grey	4000	3200	8000	5600	4000	5600	4480
28	5	Red	5000	4000	10000	7000	5000	7000	5600
32	6	Brown	6000	4800	12000	8400	6000	8400	6720
38	8	Blue	8000	6400	16000	11200	8000	11200	8960
46	10	Orange	10000	8000	20000	14000	10000	14000	11200
58	12	Orange	12000	9600	24000	16800	12000	16800	13440
70	15	Orange	15000	12000	30000	21000	15000	21000	16800
78	20	Orange	20000	16000	40000	28000	20000	28000	22400
90	25	Orange	25000	20000	50000	35000	25000	35000	28000
100	30	Orange	30000	24000	60000	42000	30000	42000	33600
115	36	Orange	36000	28800	72000	50400	36000	50400	40320
180	50	Orange	50000	40000	100000	70000	50000	70000	56000
200	75	Orange	75000	60000	150000	105000	75000	105000	84000
250	100	Orange	100000	80000	200000	140000	100000	140000	112000



**Crosby®**

SHACKLE G2130



- Working Load Limit and Grade 6 permanently shown on every shackle.
- Forged, Quenched & Tempered, with alloy bolts.
- Hot-dip galvanized (G) or self colored (S). 85, 120, and 150-metric ton shackles are all hot-dip galvanized bows and the bolts are Dimetcoated and painted red
- Sizes 3/8 and below are mechanically galvanized.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit (1/3t -55t)
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- Meets or exceeds all requirements of ASME B30.26.
- Shackles 85 metric tons and larger are individually proof tested to 2.0 times the working load limit.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules ABS Guide for Certification of Lifting Appliances available. Certificates available when requested at time of order and may include additional charges.
- 3.1 Certification as standard available for charpy and statistical proof test from 3.25t up to 25 tons to DNV 2.7-1 and EN13889.
- Crosby 3.25t through 25t G-2130OC anchor shackles are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby shackles are statistical proof and impact tested to 42 Joules (31 ft-lb) min. avg. at -20° C (-4° F). The tests are conducted by Crosby and 3.1 test certification is available upon
- All other 2130 shackles can meet charpy requirements of 42 Joules (31 ft-lb) avg at -20° C (-4° F) when requested at time of order.
- Meets the performance requirements of Federal Specification RR-C-271H, Type IVA, Grade A, Class 3, except for those provisions required of the contractor.
- Look for the Red Pin® ... the mark of genuine Crosby quality.

G-2130 / S-2130 Bolt Type Anchor Shackles

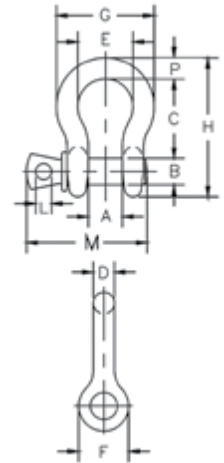
Nominal Size (in)	Working Load Limit (t)	Stock No.			Weight Each (kg)	Dimensions (mm)											Tolerance (+ / - mm)	
		G-2130	S-2130	G-2130OC		A	B	C	D	E	F	H	L	M	N	C	A	
3/16	0.33 ‡	1019464	-	-	0.03	9.7	6.4	22.4	4.9	15.2	14.2	37.3	24.9	32.8	4.85		1.50	
1/4	0.5	1019466	-	-	0.05	11.9	7.9	28.7	6.4	19.8	15.5	46.7	32.5	39.6	6.35	1.50	1.50	
5/16	0.75	1019468	-	-	0.10	13.5	9.7	31.0	7.9	21.3	19.1	53.0	37.3	46.2	7.85	1.50	1.50	
3/8	1	1019470	-	-	0.15	16.8	11.2	36.6	9.7	26.2	23.1	63.0	45.2	55.1	9.65	1.50	1.50	
7/16	1.5	1019471	-	-	0.22	19.1	12.7	42.9	11.2	29.5	26.9	74.0	51.5	63.8	11.2	3.30	1.50	
1/2	2	1019472	1019481	-	0.36	20.6	16.0	47.8	12.7	33.3	30.2	83.5	58.5	71.1	12.7	3.30	1.50	
5/8	3.25	1019490	1019506	1262013	0.62	26.9	19.1	60.5	16.0	42.9	38.1	106	74.5	90.4	17.5	3.30	1.50	
3/4	4.75	1019515	1019524	1262022	1.23	31.8	22.4	71.5	19.1	51.0	46.0	126	89.0	105	20.6	3.30	1.50	
7/8	6.5	1019533	1019542	1262031	1.79	36.6	25.4	84.0	22.4	58.0	53.0	148	102	122	24.6	6.35	1.50	
1	8.5	1019551	1019560	1262040	2.28	42.9	28.7	95.5	25.4	68.5	60.5	167	119	137	26.9	6.35	1.50	
1-1/8	9.5	1019579	1019588	1262059	3.75	46.0	31.8	108	28.7	74.0	68.5	190	131	150	31.8	6.35	1.50	
1-1/4	12	1019597	1019604	1262068	5.31	51.5	35.1	119	31.8	82.5	76.0	210	146	170	35.1	6.35	1.50	
1-3/8	13.5	1019613	1019622	1262077	7.18	57.0	38.1	133	35.1	92.0	84.0	233	162	183	38.1	6.35	3.30	
1-1/2	17	1019631	1019640	1262086	8.62	60.5	41.4	146	38.1	98.5	92.0	254	175	196	41.1	6.35	3.30	
1-3/4	25	1019659	1019668	1262095	15.4	73.0	51.0	178	44.5	127	106	313	225	246	57.0	6.35	3.30	
2	35	1019677	1019686	-	23.7	82.5	57.0	197	51.0	146	122	348	253	275	61.0	6.35	3.30	
2-1/2	55	1019695	1019702	-	44.6	105	70.0	267	66.5	184	145	453	327	345	79.5	6.35	6.35	
3	† 85	1019711	-	-	70	127	82.5	330	76.0	200	165	546	365	384	92.0	6.35	6.35	
3-1/2	† 120 ‡	1019739	-	-	120	133	95.5	372	92.0	229	203	626	419	432	105	6.35	6.35	
4	† 150 ‡	1019757	-	-	153	140	108	368	104	254	229	653	468	451	116	6.35	6.35	


Crosby®

SHACKLE G209

Meets performance requirements of Grade 6 shackles.

- Forged, Quenched & Tempered, with alloy pins.
- Working Load Limit and Grade 6 permanently shown on every shackle.
- Hot-dip galvanized (G) or self colored (S).
- Sizes 3/8 inch and below are mechanically galvanized.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certifications. Proof testing and certification available when requested at the time of order, charges will apply.
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- All 209 and 210 shackles can meet charpy requirements of 42 Joules (31 ft-lb) avg. at -20° C (-4° F) upon special request.
- Meets or exceeds all requirements of ASME B30.26.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules and ABS Guide for Certification of Lifting Appliances available. Certificates available when requested at time of order and may include additional charges.
- G-209 Screw pin anchor shackles meet the performance requirements of Federal Specification RR-C- 271H, Type IVA, Grade A, Class 2, except for those provisions required of the contractor.
- Look for the Red Pin®... the mark of genuine Crosby quality.



G-209 / S-209 Screw Pin Anchor Shackles

Nominal Size (in)	Working Load Limit (t)	Stock No.		Weight Each (kg)	Dimensions (mm)													Tolerance (+ / - mm)	
		G-209	S-209		A	B	C	D	E	F	G	H	L	M	P	C	A		
3/16	0.33	1018357	—	.03	9.7	6.4	22.4	4.8	15.2	14.2	24.9	37.3	4.1	29.0	4.8	1.50	1.50		
1/4	0.5	1018375	1018384	.05	11.9	7.9	28.7	6.4	19.8	15.7	32.5	46.7	4.8	36.3	6.4	1.50	1.50		
5/16	0.75	1018393	1018400	.09	13.5	9.7	30.7	7.9	21.3	19.1	37.1	53.1	5.6	43.4	7.9	3.30	1.50		
3/8	1	1018419	1018428	.14	16.8	11.2	36.8	9.7	26.2	23.4	45.5	63.5	6.4	52.3	9.7	3.30	1.50		
7/16	1.5	1018437	1018446	.17	19.1	12.7	42.9	11.2	29.5	26.9	51.8	73.9	7.9	60.2	11.2	3.30	1.50		
1/2	2	1018455	1018464	.33	20.6	15.7	47.8	12.7	33.3	30.0	58.7	83.3	9.7	68.3	12.7	3.30	1.50		
5/8	3.25	1018473	1018482	.62	26.9	19.1	60.5	15.7	42.9	38.1	74.4	106	11.2	84.8	17.5	6.35	1.50		
3/4	4.75	1018491	1018507	1.07	31.8	22.4	71.4	19.1	50.8	46.0	88.9	126	12.7	101	20.6	6.35	1.50		
7/8	6.5	1018516	1018525	1.64	36.6	25.4	84.1	22.4	57.9	53.3	103	148	12.7	114	24.6	6.35	1.50		
1	8.5	1018534	1018543	2.28	42.9	28.4	95.5	25.4	68.3	60.5	119	167	14.2	130	26.9	6.35	1.50		
1-1/8	9.5	1018552	1018561	3.36	46.0	31.8	108	29.5	73.9	68.1	131	190	16.0	152	31.8	6.35	1.50		
1-1/4	12	1018570	1018589	4.31	51.6	35.1	119	32.8	82.8	76.2	146	210	17.5	165	35.1	6.35	1.50		
1-3/8	13.5	1018598	1018605	6.14	57.2	38.9	133	36.1	91.9	84.1	162	233	19.1	176	38.1	6.35	3.30		
1-1/2	17	1018614	1018623	7.80	60.5	41.4	146	38.9	98.6	91.9	176	254	20.6	189	41.1	6.35	3.30		
1-3/4	25	1018632	1018641	12.6	73.2	50.8	178	46.7	127	106	224	313	25.4	233	57.2	6.35	3.30		
2	35	1018650	1018669	20.4	82.6	57.2	197	52.8	146	122	258	347	28.7	263	61.0	6.35	3.30		
2-1/2	55	1018678	1018687	38.9	105	69.9	267	69.1	184	148	324	455	35.1	335	79.5	6.35	6.35		

6:1 Design Factor. Maximum Proof Load is 2 times the Working Load Limit. For Working Load Limit reduction due to side loading applications, see Warnings & Applications.



**Crosby®**

RADIOLINK PLUS

- Capable of weighing and dynamic load monitoring in capacities from 1t to 500t.
- Constructed of lightweight, aerospace grade aluminum.
- Environmentally sealed to IP67 or NEMA6.
- Proprietary 2.4 GHz wireless.
- Update rate of 3Hz and can be easily configured to run at industry-leading speeds of up to 200Hz.
- Remote on/off from handheld display or software.
- ATEX Zones 0, 1 & 2 available.
- Design validated by FEA.
- 2-year warranty. DNV-GL Type Approval.
- Complies with ASME B30.26.
- Bluetooth option is available and is supplied with a free HHP app for iOS and Android.



Part Number SP	RLP1T	RLP2T5	RLP6T5	RLP12T	RLP25T	RLP35T	RLP55T	RLP75T	RLP100T	RLP150T	RLP200T	RLP250T	RLP300T	RLP500T
Crosby	2789084	2789089	2789094	2789082	2789088	2789091	2789093	2789095	2789081	2789083	2789085	2789087	2789090	2789092
Capacity (te)	1,000 kg	2.5	6.5	12	25	35	55	75	100	150	200	250	300	500
(lb)	2,200	5,500	14,300	26,000	55,000	77,000	120,000	165,000	220,000	330,000	440,000	550,000	660,000	1,100,000
Resolution (te)	0.5 kg	0.001	0.001	0.002	0.005	0.005	0.01	0.01	0.05	0.05	0.1	0.1	0.1	0.1
(lb)	1	2	2	5	10	10	20	20	100	100	200	200	200	200
Units (metric)	kg	metric tons												
(imperial)		pounds												
Weight (kg)	1.5	1.5	2.4	3.7	5	8.6	13	16	34	46	82	82	118	193
(lb)	3.3	3.3	5.3	8.2	11	19	28.7	35.3	75	104.1	180.8	180.8	260	425.5
Design Factor	12:1	7:1	7:1	7:1	5:1	5:1	5:1	5:1	5:1	4:1	5:1	4:1	5:1	5:1
Battery Type	Handheld 2 x AA / Loadcell 4 x AA													
Battery Life	Handheld - 40 hours / Loadcell 1200 hours continuous (Loadcell 500 hours if Bluetooth)													
Display Type	240 x 128 pixel Multi-line dot matrix with backlight													
Operating Temp.	-10°C to +50°C / 14°F to 122°F													
Accuracy	±0.1% of full scale													
Frequency	2.4 GHz													
System Range (max)	1000 meters / 3280 feet (100 meters / 328 feet if Bluetooth) (500 meters / 1640 feet if ATEX/IECEx)													
Data Rate	3 Hz - up to 200 Hz can be ordered for dynamic load monitoring applications													
Protection	IP67 / NEMA6													
Dimension A (mm)	204	204	249	305	340	393	424	470	608	670	700	700	806	930
(in)	8.03	8.03	9.80	12.01	13.39	15.47	16.69	18.50	23.94	26.38	27.56	27.56	31.73	36.61
Dimension B (mm)	43	43	43	47	60	75	75	75	99	99	144	144	150	150
(in)	1.69	1.69	1.69	1.85	2.36	2.95	2.95	2.95	3.90	3.90	5.67	5.67	5.91	5.91
Dimension C (mm)	104	104	113	113	115	126	180	202	255	303	350	350	426	570
(in)	4.09	4.09	4.45	4.45	4.53	4.96	7.09	7.95	10.04	11.93	13.78	13.78	16.77	22.44
Dimension D (mm)	146	146	165	193	215	225	230	260	320	360	350	350	350	450
(in)	5.75	5.75	6.50	7.60	8.46	8.86	9.06	10.24	12.60	14.17	13.78	13.78	13.78	17.72
Dimension ØE (mm)	24.5	24.5	38	47.5	55	60	76	76	109	109	145	145	160	200
(in)	0.96	0.96	1.50	1.87	2.17	2.36	2.99	2.99	4.29	4.29	5.71	5.71	6.30	7.87
Dimension F (mm)	48	48	65	NOT RELEVANT IN THIS CAPACITY										
(in)	1.89	1.89	2.60											
Dimension G (mm)	19	19	32											
(in)	0.75	0.75	1.26											
Crosby Shackle	G2130						G2140							G2160
Loading Pin Ø (mm)	19	19	25	35	51	57	57	70	83	95	121	127	152	180
(in)	3/4	3/4	1	1 3/8	2	2 1/4	2 1/4	2 3/4	3 1/4	3 3/4	4 3/4	5	6	7 1/8



Crosby®

SNATCH BLOCK

With Shackle Fitting,
Single Sheave, 2-12 t

McKISSICK®

14



- Opening feature permits easy insertion of rope without reeving, or while the block is suspended.
 - Bolt for opening feature is retained, to ensure no lost bolts.
 - Forged steel swivel tees, yokes and shackles.
 - Can be furnished with bronze bushings or roller bearings.
 - Center pin equipped with pressure lube fitting.
 - All sizes feature sheave grooves suited for a range of wireline diameters.
 - Meets or exceeds all requirements of ASME B30.26.
- Importantly, these blocks meet other critical performance requirements including fatigue life and

material traceability, not addressed by ASME B30.26.

- 417 alloy snatch blocks feature a significant reduction in weight compared to snatch blocks made of non-alloy materials.
- L-170 snatch blocks (with shackle or hook) feature an easy-to-open bolt design. The retaining bolt is released by rotating the fitting assembly, no tools required.
- Crosby's Engineered Solutions Group is ready to discuss your requirements and help select or develop the ideal block for your application.
- Visit thecrosbygroup.com/engineeredolutions for more information.

Working Load Limit (t)	Wire Rope Diameter (mm)	Sheave Diameter (mm)	Bearing Code	Weight Each (kg)	Catalog No.	Stock No.	Dimensions (mm)							
							A	B	C	D	E	F	G	H
2 metric tons														
2	8-10	76	BB	1.8	419 w/Eye	109037†	220	76	67	168	14	14	35	35
2	8-10	76	BB	2.3	419	109091	235	76	67	185	13	13	34	40
4 metric tons														
4	10-13	114	BB	5.4	419	109064	340	108	79	268	16	18	43	51
5 metric tons														
5	10-13‡	102	BB	5.0	L-170	599828	353	114	75	278	16	18	43	51
5	10-13‡	102	RB	5.0	L-170	599837	353	114	75	278	16	18	43	51
6 metric tons														
6*	10-13	127	BB	5.9	L-160	599524	351	130	94	268	16	18	43	51
6*	10-13	127	RB	5.9	L-160	599833	351	130	94	268	16	18	43	51
8 metric tons														
8	16-19	152	BB	12.7	419	109126	481	152	106	373	32	32	76	88
8	16-19	152	RB	12.7	419	109153	481	152	106	373	32	32	76	88
8	16-19	203	BB	15.0	419	109224	533	206	106	398	32	32	76	88
8	16-19	203	RB	15.0	419	109251	533	206	106	398	32	32	76	88
8	16-19	254	BB	19.5	419	109322	586	257	106	425	32	32	76	88
8	16-19	254	RB	19.5	419	109359	586	257	106	425	32	32	76	88
8	16-19	305	BB	24.9	419	109420	657	308	106	471	32	32	76	88
8	16-19	305	RB	24.9	419	109457	657	308	106	471	32	32	76	88
8	16-19	356	BB	30.4	419	109527	695	359	106	484	32	32	76	88
8	16-19	356	RB	30.4	419	109545	695	359	106	484	32	32	76	88
12 metric tons														
12*	16-19	146	BB	13.2	L-160	599588	483	152	106	375	32	32	76	88
12*	16-19	146	RB	13.2	L-160	599597	483	152	106	375	32	32	76	88
12*	19-22	152	BB	12.7	417	168972	481	152	106	373	32	32	76	88
12*	19-22	152	RB	12.7	417	193757	481	152	106	373	32	32	76	88
12*	19-22	203	BB	15.4	417	168990	533	206	106	398	32	32	76	88
12*	19-22	203	RB	15.4	417	193819	533	206	106	398	32	32	76	88
12*	19-22	254	BB	19.1	417	193882	586	257	106	425	32	32	76	88
12*	19-22	254	RB	19.1	417	193935	586	257	106	425	32	32	76	88

4:1 Design Factor. *3.5:1 Design Factor. † Fitted with 32mm ID Swivel Eye ‡ Special Dual Groove Sheave also accepts 32mm Manila Rope.



www.fortwalllifting.com



info.lifting@fortwallgroup.com



Crosby®

SNATCH BLOCK

With Shackle Fitting,
Single Sheave, 15-60 t

McKISSICK®

15



- Opening feature permits easy insertion of rope without reeving, or while the block is suspended.
 - Can be furnished with bronze bushings or roller bearings.
 - Center pin equipped with pressure lube fitting.
 - All sizes feature sheave grooves suited for a range of wireline diameters.
 - Meets or exceeds all requirements of ASME B30.26.
- Importantly, these blocks meet other critical performance requirements including fatigue life and

material traceability, not addressed by ASME B30.26.

- 435 alloy snatch blocks feature a significant reduction in weight compared to snatch blocks made of non-alloy materials.
- Crosby's Engineered Solutions Group is ready to discuss your requirements and help select or develop the ideal block for your application. Visit thecrosbygroup.com/engineeredolutions for more information.

Working Load Limit (t)	Wire Rope Diameter (mm)	Sheave Diameter (mm)	Bearing Code	Weight Each (kg)	Catalog No.	Stock No.	Dimensions (mm)							
							A	B	C	D	E	F	G	H
15 metric tons														
15	19-22	203	BB	26.8	421	108308	584	206	129	437	38	44	79	79
15	19-22	203	RB	26.8	421	108309	584	206	129	437	38	44	79	79
15	19-22	254	BB	30.8	421	108390	629	257	129	456	38	44	79	79
15	19-22	254	RB	30.8	421	108391	629	257	129	456	38	44	79	79
15	19-22	406	BB	59.0	419	109607	806	409	129	559	38	44	79	79
15	19-22	406	RB	59.0	419	109625	806	409	129	559	38	44	79	79
15	22-26	457	BB	72.1	419	109643	841	460	129	565	38	44	79	79
15	22-26	457	RB	72.1	419	109661	841	460	129	565	38	44	79	79
20 metric tons														
20	26-29	203	BB	41.7	431	121022	675	206	152	502	51	70	94	101
20	26-29	203	RB	41.7	431	121040	675	206	152	502	51	70	94	101
20	26-29	254	BB	50.8	431	121095	727	257	152	526	51	70	94	102
20	26-29	254	RB	50.8	431	121111	727	257	152	526	51	70	94	102
20	26-29	305	BB	59.0	431	121175	779	311	152	553	51	70	94	102
20	26-29	305	RB	59.0	431	121193	779	311	152	553	51	70	94	102
20	26-29	356	BB	72.6	431	121255	838	356	152	591	51	70	94	102
20	26-29	356	RB	72.6	431	121273	838	356	152	591	51	70	94	102
25 metric tons														
25	26-32	203	BB	46.7	435	208954	688	210	156	513	51	70	94	102
25	26-32	254	BB	53.1	435	208965	745	260	156	545	51	70	94	102
25	26-32	457	BB	122.5	431	119495	1051	464	181	740	51	79	89	122
25	26-32	457	RB	127.0	431	119496	1051	464	181	740	51	79	89	122
30 metric tons														
30	26-32	305	BB	94.3	435	208976	930	311	178	695	51	79	89	122
30	26-32	356	BB	104.3	435	208977	987	362	178	727	51	79	89	122
30	26-32	508	BB	228.2	431	119589	1331	514	211	974	64	100	143	179
30	26-32	508	RB	220.0	431	119598	1331	514	211	974	64	100	143	179
30	26-32	610	BB	263.5	431	119605	1422	616	211	1016	64	100	143	179
30	26-32	610	RB	260.8	431	119614	1422	616	211	1016	64	100	143	179
60 metric tons														
60	26-32	305	BB	142.9	435	8027291	1058	308	220	843	52	61	146	155



Crosby®

TOWER/ DERRICK HOIST BLOCKS

- New design provides the dependability of standard McKissick® Snatch Blocks, along with features that make it perfect for the challenging needs of Tugger Hoist and Tower Erection applications.
- Fully recessed sideplate design eliminates gap between sheave rim and sideplate, providing failsafe capture of the sheave in the case of center pin overloading.
- Sealed tapered roller bearings extend the life of the center pin and bearings, and allows for faster line speeds than recommended with standard snatch blocks.
- Holes through side plates are available for secondary block securement device.
- Suitable for hoisting personnel, contingent upon all employees, including the winch operator, being trained to follow applicable Federal, local and industry standards.
- Tugger/Derrick applications: API RP54
- Tower applications: OSHA directive CPL 2-1.36
- Blocks furnished with dual rated wireline sheaves.



- Forged steel swivels, tees, yokes and shackles are Quenched & Tempered.
- Sheave lubrication through center pin for easy maintenance.
- All blocks 356mm and larger are furnished with McKissick® Roll Forged sheaves with flame hardened grooves.
- Shackle fitting swivels for easy positioning.
- Manufactured by an API Q1 Certified facility.
- ABS Type Approval and Certification under 2019 Guide for Certification of Lifting Appliances and 2019 Guide for Classification of Drilling Systems.



M-491 / G-491 Tower/Derrick Hoist Blocks

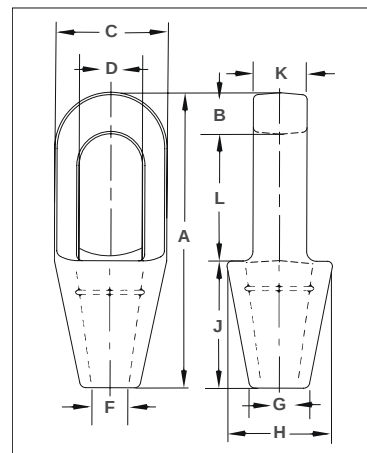
Working Load Limit (t)	Sheave Diameter (mm)	Wire Rope Diameter (mm)	M-491 Stock No. Painted	G-491 Stock No. Galvanized	Weight Each (Kg)
4	203	10-13	2020161	2020170	16
8	254	10-13	2020806	2020815	25
8	254	13-14	2020824	2020833	25
12	254	13-14	2021118	2021127	25
12	356	13-16	2021136	2021145	43
12	356	16-19	2021154	2021163	43
15	406	19-22	2021172	2021181	68
15	406	22-26	2021190	2021199	48
25	457	26-29	2032312	2032315	118
30	508	29-32	2032321	2032324	306



Crosby®

CLOSED SPELTER SOCKET

G-417 / S-417



- Forged steel sockets through 38mm, cast alloy steel 40mm through 102mm.
- Spelter socket terminations have an efficiency rating of 100%, based on the catalog strength of wire rope.
- Ratings are based on recommended use with 6 x 7, 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.
- Strand constructed with minimal number of wires (e.g. 1 x 7) requires special consideration that socket basket length be five (5) times the strand diameter or fifty (50) times the wire diameter, whichever is the greater.
- All cast steel sockets 40mm and larger are magnetic particle inspected and ultrasonic

inspected. Proof testing available on special order.

- Closed Grooved Sockets meet the performance requirements of Federal Specification RR-S-550F, Type B, except for those provisions required of the contractor.

G-417 / S-417 Closed Spelter Sockets

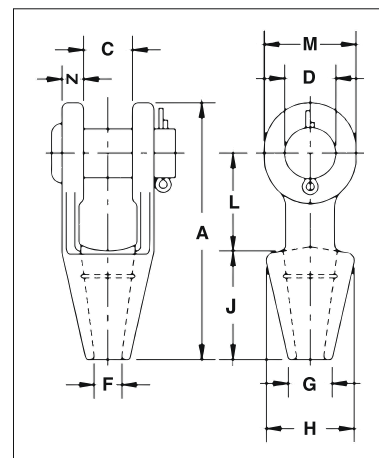
Rope Dia		Structural Strand Dia. (mm)	Ultimate Load (t)	Stock No.		Weight Each (kg)	Dimensions (mm)									
(in)	(mm)			G-417 Galv.	G-417 Galv.		A	B	C	D	E	F	G	H	J	K
5/16 - 3/8	8-10	-	12.0	1039913	1039922	0.34	125	15.8	42.9	24.6	12.7	20.6	42.9	57.2	17.5	52.3
7/16 - 1/2	11-13	-	20.0	1039931	1039940	0.68	140	17.5	51.0	29.5	14.2	23.9	51.0	63.5	22.4	58.7
9/16 - 5/8	14-16	12-13	30.8	1039959	1039968	1.13	162	20.6	67.0	35.8	17.5	30.2	67.0	76.2	25.4	65.0
3/4	18	14-16	43.5	1039977	1039986	1.92	194	26.9	76.2	42.2	22.4	33.3	70.0	89.0	31.8	77.7
7/8	20-22	18-19	65.3	1039995	1040000	3.28	226	33.3	92.0	49.3	25.4	38.1	82.5	102	38.1	90.5
1	24-26	20-22	81.6	1040019	1040028	4.76	254	36.6	105	58.5	28.7	44.5	95.5	114	44.5	103
1-1/8	28-30	24-26	100	1040037	1040046	6.46	283	39.6	114	65.0	31.8	51.0	105	127	51.0	116
1-1/4 - 1-3/8	32-35	28	136	1040055	1040064	8.95	309	41.4	127	71.0	38.1	58.5	119	138	56.5	129
1-1/2	38	30-32	170	1040073	1040082	13.24	355	49.3	137	81.0	41.4	70.5	132	151	62.5	155
† 1-5/8	† 40-42	33-35	188	1040091	1040108	16.32	390	54.0	146	82.5	44.5	76.2	140	165	70.0	171
† 1-3/4 - 1-7/8	† 44-48	36-40	268	1040117	1040126	25.96	445	55.5	171	95.5	51.0	79.5	162	191	76.2	198
† 2 - 2-1/8	† 50-54	42-45	309	1040135	1040144	35.83	505	62.0	194	111	57.2	95.5	187	216	82.5	224
† 2-1/4 - 2-3/8	† 56-60	46-48	360	1040153	1040162	47.62	546	70.0	216	127	66.8	105	210	229	92.0	248
† 2-1/2 - 2-5/8	† 64-67	50-54	424	1041759	1041768	63.50	597	79.5	241	140	74.5	114	235	248	102	270
† 2-3/4 - 2-7/8	† 70-73	56-62	549	1041777	1041786	99.79	645	79.5	273	159	79.5	124	259	279	124	286
† 3 - 3-1/8	† 75-80	64-67	656	1041795	1041802	125	689	85.6	292	171	86.0	133	292	305	133	298
† 3-1/4 - 3-3/8	† 82-86	70-73	750	1041811	1041820	142	743	102	311	184	92.0	146	311	330	146	311
† 3-1/2 - 3-5/8	† 88-92	76-80	820	1041839	1041848	181	787	102	330	197	98.5	160	330	356	159	330
† 3-1/2 - 3-5/8	† 88-92	76-80	820	1041839	1041848	181	787	102	330	197	98.5	160	330	356	159	330
† 3-3/4 - 4	† 94-102	-	1005	1041857	1041866	246	845	108	362	216	108	184	362	381	178	356



Crosby®

OPEN SPELTER SOCKET

G-416 / S-416



- Forged steel sockets through 38mm, cast alloy steel 40mm through 102mm.
- Spelter socket terminations have an efficiency rating of 100%, based on the catalog strength of wire rope.
- Ratings are based on recommended use with 6 x 7, 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC wire rope.
- Strand constructed with minimal number of wires (e.g. 1 x 7) requires special consideration that socket basket length be five (5) times the strand diameter or fifty (50) times the wire diameter, whichever is the greater.
- All cast steel sockets 40mm and larger are magnetic particle inspected and ultrasonic inspected. Proof testing available on special order.

- Available with bolt nut and cotter: G-416B.
- Open Grooved Sockets meet the performance requirements of Federal Specification RR-S-550F, Type A, except for those provisions required of the contractor.

G-416 / S-416 Open Spelter Sockets

Rope Dia		Structural Strand Dia. (mm)	Ultimate Load (t)	Stock No.		Weight Each (kg)	Dimensions (mm)										Tolerance +/- (mm)
(in)	(mm)			G-416 Galv.	G-416 S.C.		A	C	D	F	G	H	J	L	M	N	
5/16-3/8	8-10	-	12	1039637	1039646	0.59	123	20.6	20.6	12.7	20.6	42.9	57.0	44.5	38.1	11.2	1.52
7/16-1/2	11-13	-	20	1039655	1039664	1.02	141	25.4	25.4	14.2	23.9	47.8	63.5	51.0	47.8	12.7	1.52
9/16-5/8	14-16	12-13	27	1039673	1039682	1.63	171	31.8	30.2	17.5	28.7	57.0	76.0	63.5	57.0	14.2	1.52
3/4	18	14-16	43	1039691	1039708	2.64	202	38.1	35.1	20.6	31.8	66.5	89.0	76.0	66.5	15.7	1.52
7/8	20-22	18-19	55	1039717	1039726	4.38	235	44.5	41.4	23.9	38.1	82.5	102	89.0	79.5	20.3	1.52
1	24-26	20-22	78	1039735	1039744	7.03	268	51.0	51.0	28.7	44.5	95.5	114	102	95.5	22.4	1.52
1-1/8	28-30	24-26	92	1039753	1039762	9.75	300	57.0	57.0	31.8	51.0	105	127	117	105	25.4	3.05
1-1/4 - 1-3/8	32-35	28	136	1039771	1039780	14.1	335	63.5	63.5	38.1	57.0	121	140	127	121	28.7	3.05
1-1/2	38	30-32	170	1039799	1039806	21.4	384	76.0	70.0	41.4	70.0	133	152	152	137	30.2	3.05
* 1-5/8	*40-42	33-35	188	1039815	1039824	24.9	413	76.0	76.0	44.5	76.0	140	165	165	146	33.3	3.05
* 1-3/4 - 1-7/8	*44-48	36-40	268	1039833	1039842	37.2	464	89.0	89.0	51.0	79.5	162	191	178	165	39.6	3.05
* 2 - 2-1/8	*50-54	42-45	291	1039851	1039860	59	546	102	95.5	57.0	95.5	187	216	229	178	46.0	3.05
* 2-1/4 - 2-3/8	*56-60	46-48	360	1039879	1039888	76	597	114	108	63.5	102	210	229	254	197	54.0	3.05
* 2-1/2 - 2-5/8	*64-67	50-54	424	1041633	1041642	114	648	127	121	73.0	114	235	248	274	216	60.5	3.05
* 2-3/4 - 2-7/8	*70-73	56-62	511	1041651	1041660	143	692	133	127	79.0	124	267	279	279	229	73.0	6.35
* 3 - 3-1/8	*75-80	64-67	563	1041679	1041688	172	737	146	133	86.0	133	282	305	287	241	76.0	6.35
* 3-1/4 - 3-3/8	*82-86	70-73	722	1041697	1041704	197	784	159	140	92.0	146	302	330	300	254	79.0	6.35
* 3-1/2 - 3-5/8	*88-92	76-80	779	1041713	1041722	255	845	171	152	98.5	165	314	356	318	274	82.5	6.35
* 3-3/4 - 48/4	*94-102	-	875	1041731	1041740	355	921	191	178	108	184	346	381	343	318	89.0	6.35

* Cast alloy steel.



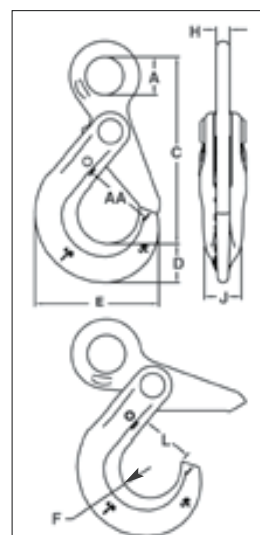


Crosby®

HOOKS & SWIVELS

- All SHUR-LOC hooks have the following features:
- Forged alloy steel, Quenched & Tempered.
- Recessed trigger design is flush with the hook body, protecting the trigger from potential damage.
- Easy to operate with enlarged thumb access.
- Positive lock latch is self-locking when the hook is loaded.
- The SHUR-LOC hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g)(1)(i)(A) and 1926.1501(g)(4)(iv)(B).
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- Contact Engineered Solutions for additional threading or Split-Nut options at thecrosbygroup.com/engineeredolutions.
- Eye Style incorporates these added features:
- Individually Proof Tested to 2-1/2 times the chain Working Load Limit with certification.
- S-1316 meets the performance requirements of EN1677-3.
- Suitable for use with Grade 100 and Grade 80 chain.
- Designed with 'engineered flat' to connect to S-1325 chain coupler.

S-1316



S-1316 SHUR-LOC® Eye Hook with Positive Locking Latch

Chain Size		Stock No.	Frame Code	Grade 10 Alloy Chain Working Load Limit (t) 4:1	Working Load Limit (t) 5:1	Weight Each (kg)	Dimensions (mm)								
(in)	(mm)						A	C	D	E	F	H	J	L	AA*
-	6	1022896	D	1.45	1.00	0.39	19.8	100	20.1	66.0	17.0	7.87	16.0	29.5	38.1
1/4-5/16	7-8	1022914	G	2.60	1.90	0.82	27.4	135	27.9	88.9	22.1	9.91	20.6	37.6	51.0
3/8	10	1022923	H	4.00	2.50	1.54	33.0	167	29.7	112	27.9	12.9	23.9	46.5	63.5
1/2	13	1022932	I	6.80	5.62	2.72	41.9	209	42.4	139	32.0	17.0	29.5	56.4	76.2
5/8	16	1022941	J	10.30	7.53	6.83	55.9	256	51.8	167	38.1	22.1	38.1	67.3	89.0
3/4	18-20	1022952	-	16.00	9.98	8.61	64.0	274	56.4	197	51.1	22.1	51.6	89.4	-
7/8	22	1022943	-	20.00	12.0	12.7	72.9	317	62.2	222	57.7	24.9	55.9	97.3	-
1	26	1022944	-	27.10	-	22.45	80.0	371	81.5	251	62.5	32.0	68.1	104	-

*Deformation indicators.





Crosby®

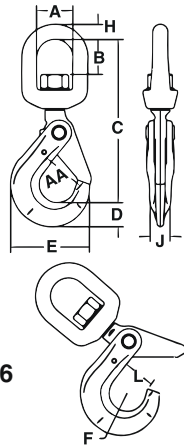
HOOKS & SWIVELS

- The S-1326 hook is a positioning device and is not intended to rotate under load. For swivel hook designed to rotate under load, use the S-13326.
- S-13326 Swivel Hook utilizes anti-friction bearing design which allows hook to rotate freely under load.
- Rated for both wire rope and for use with Grade 80/100 chain.
- Forged alloy steel, Quenched & Tempered.
- Individually Proof Tested at 2-1/2 times the chain Working Load Limit with certification.
- Recessed trigger design is flush with the hook body, protecting the trigger from potential damage.

- Easy to operate with enlarged thumb access.
- Positive lock latch is self-locking when hook is loaded.
- Trigger repair kit available (S-4316). Consists of spring, roll pin, and trigger.
- Fatigue rated to 20,000 cycles at 1-1/2 times the Working Load Limit.
- The SHUR-LOC® Hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g)(1)(i)(A) and 1926.1501(g)(4)(iv)(B). Suitable for positioning before lifting.



S-1326



S-1326 SHUR-LOC® Swivel Hooks

Chain Size		Stock No.	Frame Code	Grade 10 Alloy Chain Working Load Limit (t) 5:1 Design Factor	Working Load Limit (t) 5:1 Design Factor	Weight Each (kg)	Dimensions (mm)									
(in)	(mm)						A	B	C	D	E	F	H	J	L	AA*
-	6	1004304	D	1.45	1.16	0.57	38.1	33.5	156	20.1	66.0	17.0	12.7	16.0	28.7	38.1
1/4-5/16	7-8	1004313	G	2.60	2.1	1.18	44.5	40.4	193	27.9	88.9	22.1	16.0	20.6	35.1	51.0
3/8	10	1004322	H	4.00	3.2	2.13	50.8	43.9	224	29.7	112	27.9	19.1	23.9	44.5	63.5
1/2	13	1004331	I	6.80	5.4	3.92	63.5	60.5	284	42.4	139	32.0	25.4	29.5	53.6	76.2
5/8	16	1004340	-	10.30	8.2	7.71	69.9	64.3	328	51.8	167	38.1	28.7	38.1	63.2	89.0
3/4	18-20	1004349	-	16.00	12.8	10.9	71.9	64.0	358	56.4	197	51.1	27.9	51.6	89.4	127

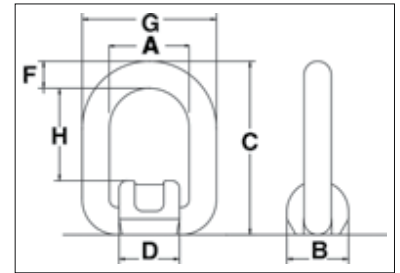




Crosby®

FORGED LINK S-265

- Widely used on farm machinery, trucks, steel hulled marine vessels and material handling equipment.
- Forged link and bracket – Quenched & Tempered.
- Excellent welding qualities.
- Reference American Welding Society specifications for proper welding procedures.



S-265 Forged Link

Working Load Limit (t)		Stock No.	Weight Each (kg)	Dimensions (mm)							Minimum Fillet Weld Size (mm)
Design Factor 5:1	Design Factor 4:1			A	B	C	D	F	G	H	
1.0	1.2	1290839	0.40	40	36	83	35	13	66	42	3
2.5	3.2	1290848	0.60	45	44	99	42	18	81	48	3
4.2	5.3	1290857	1.20	55	50	123	49	22	99	57	6
6.4	8	1290866	2.40	70	64	144	64	26	122	67	6
12.0	15	1290875	5.90	97	90	193	86	34	165	94	8

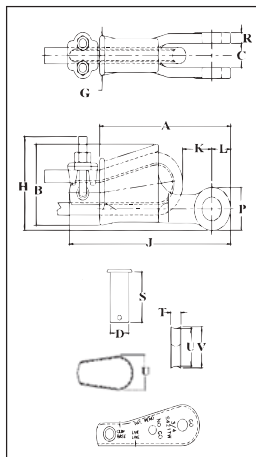


Crosby® S-421T WEDGE SOCKETS



S-421T

Wedge sockets meet the performance requirements of Federal Specification RR-S-550E, Type C, except those provisions required of the contractor. For additional information, see page 452.



- Wedge socket terminations have an efficiency rating of 80% based on the catalog strength of XXIP wire rope
- Meets or exceeds all requirements of ASME 830.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these sockets meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME 830.26.
- Type Approval and certification accordance with ABS2007SteelVessel Rules.1117.7, and ABS Guide certification of Crane
- Basket is cast steel and individually magnetic particle inspected.
- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.
- Secures the tail or "dead end" of the wire rope to the wedge, thus eliminates loss or "Punch out" of the wedge.
- Eliminates the need for an extra piece of rope, and is easily installed.

- (Assembly includes Socket, Wedge, Pin and Wire Rope Clip)

Wire Rope Dia.		S-421T Stock No.	API 2C S-421T Stock No.	Weight Each (kg.)	S-421TW Stock No. Wedge Only	Wedge Only Weight Each (kg.)	API 2C S-421TW Stock No. Wedge Only	Optional G-4082 API 2C Bolt, Nut & Cotter		Optional G-4082 Bolt, Nut & Cotter	
(mm)	(in.)							G-4082 API 2C Stock No.	Weight Each (kg)	G-4082 Stock No.	Weight Each (kg)
9-10	3/8	1035000	1035005	1.44	1035555	.23	1092230	1092230	.17	1092227	.17
11-13	1/2	1035009	1035014	2.79	1035564	.48	1092248	1092248	.31	1092236	.31
14-16	5/8	1035018	1035023	4.40	1035573	.81	1092257	1092257	.52	1092254	.52
18-19	3/4	1035027	1035032	6.58	1035582	1.18	1092293	1092293	.86	1092281	.86
20-22	7/8	1035036	1035041	9.75	1035591	1.82	1092319	1092319	1.46	1092307	1.46
24-26	1	1035045	1035050	13.9	1035600	2.44	1092337	1092337	2.44	1092325	2.44
28	1-1/8	1035054	1035059	20.5	1035609	3.56	1092364	1092364	3.40	1092343	3.40
30-32	1-1/4	1035063	1035068	29.4	1035618	4.80	1092375	1092375	4.70	1092372	4.70





Modulift[®]



modulift®

Spreader Beams, Lifting Beams & Spreader Frames



Modulift®

WORKING BETWEEN THE HOOK & THE LOAD



OUR VISION

To be renowned globally as specialist engineers operating in a niche market, concentrating on the provision of custom and complex lifting solutions and exceeding our customers expectations by providing an all-round service on the delivery of value for money and quality products.

OUR MISSION

To globally deliver our expertise through innovative design, quality of products and customer satisfaction whilst ensuring a safe lifting environment.

OUR VALUES

- Leadership • Passion • Accountability
- Innovation • Quality • Integrity

At Modulift, we pride ourselves on being able to offer you a complete lifting engineering service from start to finish. We are here to help you solve your lifting problems, advise on rig planning, design custom lifting equipment, or manufacture quality assured products to the highest specifications.

OFF-THE-SHELF RANGE

Modulift offer an extensive Off-the-Shelf range of Spreader Beams, below shows the SWL capacity and spans.

Details of Super Heavy Range (up to 5000t) capacity are available on request.

Modulift are there every step of the way to ensure your lift runs smoothly, on time and to budget.

STANDARD RANGE	
QJ2 Up to 2t at 1.2m/4ft	MOD 34 Up to 34t at 5m/17ft, up to 8m/26ft at a lower capacity
MOD 6 Up to 6t at 2.5m/8ft	MOD 50 Up to 50t at 7.5m/25ft, up to 11m/36ft at a lower capacity
MOD 12 Up to 12t at 4m/13ft	MOD 70 Up to 70t at 9m/29ft, up to 12m/40ft at a lower capacity
MOD 24 Up to 24t at 4.5m/14ft, up to 6m/20ft at a lower capacity	MOD 70H Up to 100t at 8m/25ft, up to 12m/40ft at a lower capacity

HEAVY RANGE		
MOD 110 Up to 110t at 11m/37ft, up to 16m/52ft at a lower capacity	MOD 250/300 Up to 300t at 12m/40ft, up to 20m/66ft at a lower capacity	MOD 400/600 Up to 600t at 12m/40ft, up to 23m/76ft at a lower capacity
MOD 110H Up to 170t at 8m/26ft, up to 16m/52ft at a lower capacity	MOD 250/400 Up to 400t at 8m/28ft, up to 20m/66ft at a lower capacity	MOD 600/600 Up to 600t at 21m/70ft, up to 26m/85ft at a lower capacity
MOD 110SH Up to 240t at 6m/20ft, up to 16m/52ft at a lower capacity	MOD 400/400 Up to 400t at 16m/55ft, up to 23m/76ft at a lower capacity	MOD 600/800 Up to 800t at 18m/60ft, up to 26m/85ft at a lower capacity
MOD 250/250 Up to 250t at 13m/45ft, up to 20m/66ft at a lower capacity	MOD 400/500 Up to 500t at 14m/47ft, up to 23m/76ft at a lower capacity	MOD 600/1000 Up to 1000t at 15m/51ft and up to 26m/85ft at a lower capacity





Modulift®

SPREADER BEAMS

Modulift offer a wide range of Modular Spreader Beam components, offering a variety of different spans for all your lifting needs.

The sizes range from 2 to 5,000t with spans available from 0.4m / 1'4" – 100m / 300'.

The flexibility of the modular configuration enables

our Spreader Beams to be reused time and time again, providing a cost-effective solution.

What Size Beam Do I Need?

Simple! First select the span you require, then select the SWL you need for that span.

PART OF THE MODULIFT STANDARD RANGE



PART OF THE MODULIFT HEAVYRANGE



Range	Modulift Sizes
Standard	6, 12, 24, 34, 50, 70, 70 H
Heavy	110, 110H, 110SH, 250, 400, 600

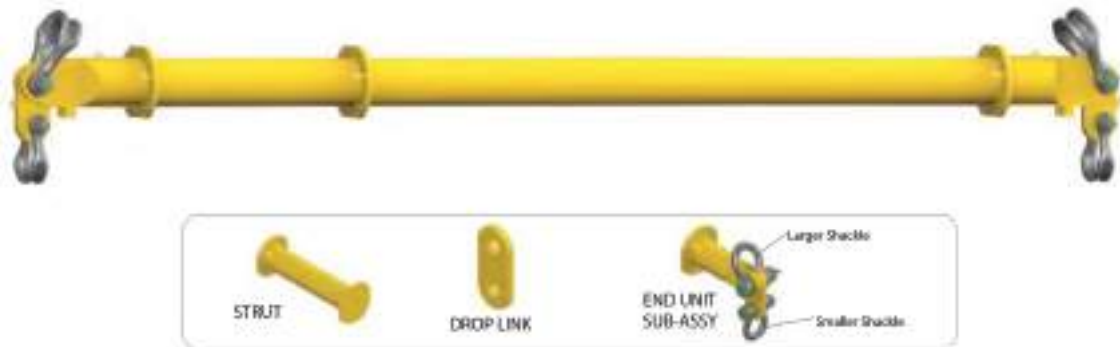


SPREADER BEAMS

Modular Spreader Beams provide the ideal solution for most lifting requirements – versatile and cost-effective, the Modulift range has capacity from 2 to 5000t with spans up to 100m/330'. The modular configuration and interchangeable components enable Modulift Spreaders to be reused over many lifts. Designed by our engineering experts and manufactured in our own specialist facilities; the Modulift range are the leading Modular Spreader Beams on the market.

Spreader Beams for up to 400t are in stock and available worldwide for distribution – please contact Modulift for an immediate quote or further details.

Every Modulift Modular Spreader Beam consists of a pair of End Units and a pair of Drop Links, with interchangeable struts that can be bolted into the assembly between the End Units to either lengthen or shorten the beam to suit the requirements of the lift, making them reusable at different spans.

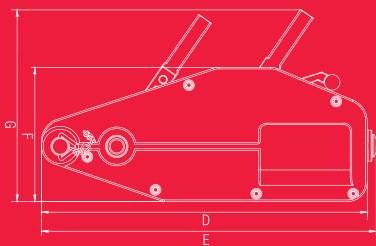


WHY MODULIFT IS THE LEADING SPREADER BEAM ON THE MARKET?

Feature	Description
Quality Engineering	Modulift are a team of specialist engineers designing innovative products to optimum specification to ensure a safe lifting environment around the world.
Interchangeable	The modular struts allow for multiple lengths to be configured for a variety of lifts. Mix and match End Units with struts when long length, yet lightweight lifts are required.
Economical	One Modulift Spreader Beam can be used over and over again for years.
Portable	Our heaviest and longest strut is only 6m/20' – small enough for the back of a truck! Many of our Spreader Beam components can be handled by one person. Our QJ2 even comes in a handy carrying case complete with Shackles!
Lightweight	Our Spreader Beams are specially designed to provide you with a lightweight solution so your cranes can work at maximum capacity without the weight of heavy lifting gear.
Easy to Store and Transport	For improved inventory control, organized components, quick retrieval and mobilization, ask about our storage systems, including logistics cradles and stillages.
Adaptability	Drop Links provide plus or minus 6° of rotation to allow for lower sling misalignment.
Quick Ship	Call us today – we have most standard sizes in stock and ready to ship!
Custom Applications	Have one of our engineers custom design a Spreader Beam for virtually any lift. Please ask a member of our team about this service.



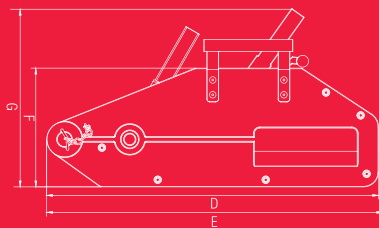
TOYO



TWP008 (0.8t)



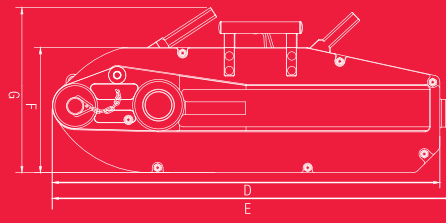
TWP016 (1.6t)



TWP032 (3.2t)



TWP054 (5.4t)



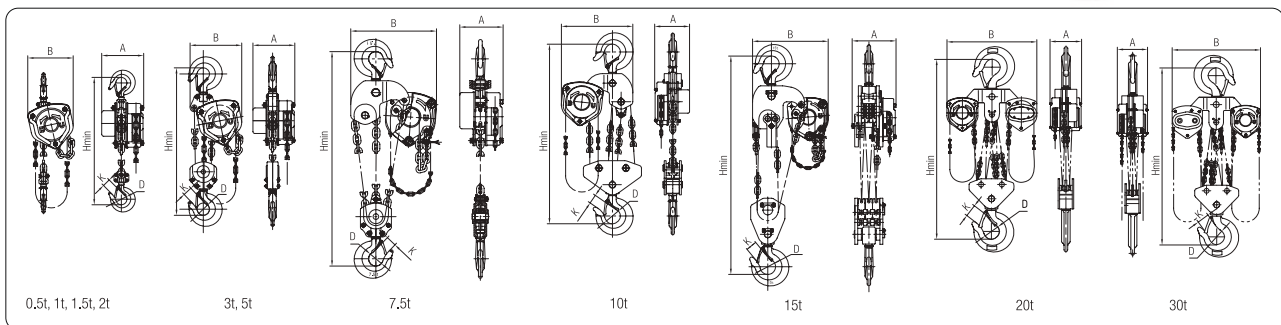


TOYO

Japanese Design & Technology
is a leading supplier of rigging hardware
and material handling equipment.

**TOYO****CHAIN BLOCK**

- Light weight robust construction & Low effort to lift maximum load.
- Double pawl mechanism enhances brake safety.
- Double brake sprocket cover protection.
- High strength alloy steel gears & Extra thick asbestos free friction discs.
- Fully forged alloy steel hooks with batch Number.
- Anti-Corrosion Grade 80 Load chain with TOYO Mark.
- Galvanized hand chain as standard.
- Capacity ranges from 0.5T to 50T
- The Product Proof Tested & Inspected Complies with EC Machinery Directive 2006/42/EC, BS EN 13157 and in accordance with ASME B30.16 requirements.

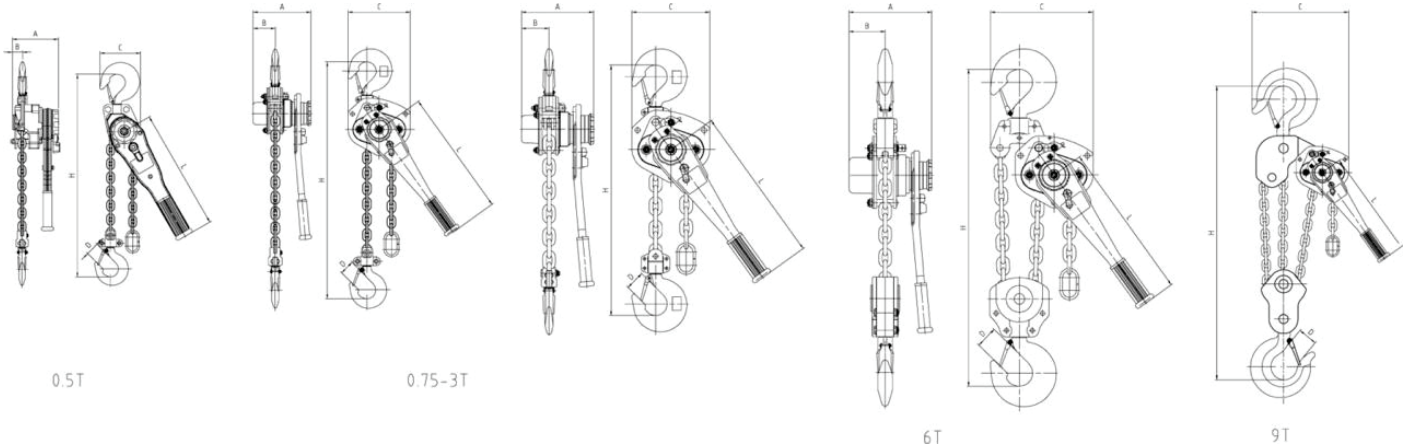


Model	Capacity (t)	Standard Lift (m)	Effort Required to lift max. load (n)	No. of falls of Load Chain	Load Chain diameter (mm)	Dimensions (mm)				Net Weight (kg)	Packing (L*W*H)(cm)
						A	B	D	H		
VS-0.5T	0.5	2.5	350	1	6	126	145	28	285	8.4	22*14*15
VS-1T	1	2.5	330	1	6	151	159	32	315	12	25*19*16
VS-1.5T	1.5	2.5	348	1	7.1	151	178	36	340	16.2	33*24*16
VS-2T	2	3	365	1	0	183	205	36	380	20	33*24*19
VS-3T	3	3	360	2	0	151	208	46	475	24	34.5*24*16
VS-5T	5	3	410	2	0	183	264	46	600	41	40*30*19
VS-10T	10	3	410	4	0	188	398	57	720	79	48*42*18.5
VS-15T	15	3	435	6	0	190	580	75	870	120	69*56*20
VS-20T	20	3	435*2	8	0	192	630	82	890	193	78*68*20
VS-30T	30	3	435*2	12	0	330	670	106	1000	220	85*67*30
VS-50T	50	3	435*2	22	0	410	900	130	1950	1092	110*100*130

**TOYO****LEVER BLOCK**

TOYO lever hoist universal, manual hoist for lifting, tensioning and lashing in any direction

- The ratchet lever hoist features compact design and robust, deep drawn, stamped steel construction
- High quality materials ensure light weight without infringing reliability
- Low own weight, small mounting sizes and small lever forces at full load
- Asbestos free brake, holding load at any desired height
- Lifting & suspension hooks are fully forged alloy steel with safety latch & Batch Number.
- Free-wheeling mechanism for quick chain adjustment
- Heat treated body, shafts & gears for enchanted strength
- The load chain can be pulled freely & easily throw the hoist in both direction to attach the load or to tension chain, for safety reason, free chain can not to be done when hoist is under load
- Short hand lever with rubber grip
- Anti-Corrosion grade 80 alloy load chain with TOYO Mark.
- Complies with EC council directive 2006/42/EC, BS EN 13157 and in accordance with ASME B30.21 requirements.



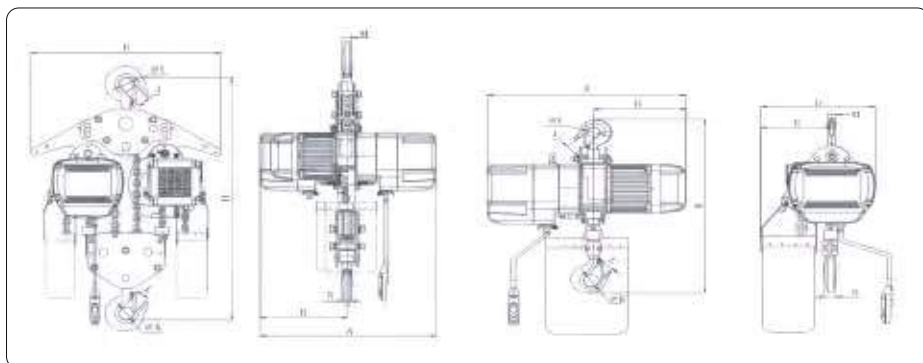
MODEL	CAPACITY (t)	STANDARD LIFT (m)	RUNNING TEST (T)	EFFORT REQUIRED TO LIFT MAX LOAD (N)	NO. OF FALLS OF LOAD CHAIN	LOAD CHAIN DIAMETER (mm)	DIMENSIONS (mm)						NET WEIGHT (kg)	PACKING L*W*H (cm)
							A	B	C	D	L	H		
VA-0.5	0.5	1.5	0.75	140		5x15	102	80	95				3.5	33.5*12.5*9
VA-0.75	0.75	1.5	1.125	140		6x18	148	88	135	32	290	320	7	37*14*17
VA-01	1	1.5	1.5	140		6x18	148	88	135	32	290	320	7.5	37*14*17
VA-1.5	1.5	1.5	2.25	240		8x24	175	102	155	36	415	380	11	52*14*18
VA-02	2	1.5	3	240		8x24	176	102	155	36	415	380	11.5	52*14*18
VA-03	3	1.5	4.5	320		10x30	195	109	211	45	415	480	19	55*16*21
VA-06	6	1.5	9	340		10x30	195	109	254	45	415	600	32	55*16*21
VA-09	9	3	13.50	360		10x30	195	109	319	57	415	700	47	62*48.5*26



TOYO

ELECTRIC CHAIN HOIST

31



TECHNICAL SPECIFICATION Model ELECTRIC HOIST KD

Load Capacity (t)	Lifting Height (m)	Load Chain		Lifting Speed (m/min)	Travelling Speed (m/min)	Lifting Motoer						Running Motoer					I-Steel Track (mm)	Net Weight (kg)	Gross Weight (kg)
		Diameter (m)	Chain Fall Number			Power (kw)	E.D Rating (%)	Rotary Speed (m/min)	Phase	Voltage (v)	Frequency (Hz/s)	Power (kw)	Rotary Speed (m/min)	Phase	Voltage (v)	Frequency (Hz/s)			
0.5T	6	6.3	1	6.8	11	0.75	40	1440	3 P	380V	50	0.4	1440	3 P	380V	50	85-125	44	51
0.5T	12	6.3	1	6.8	11	0.75	40	1440	3 P	380V	50	0.4	1440	3 P	380V	50	85-125	50	57
1T	6	7.1	1	6.6	11	1.5	40	1440	3 P	380V	50	0.4	1440	3 P	380V	50	68-153	56	65
1T	12	7.1	1	6.6	11	1.5	40	1440	3 P	380V	50	0.75	1440	3 P	380V	50	68-153	62	71
2T	6	10	1	5.4	11	3	40	1440	3 P	380V	50	0.75	1440	3 P	380V	50	82-178	106	72
2T	12	10	1	5.4	11	3	40	1440	3 P	380V	50	0.75	1440	3 P	380V	50	82-178	118	84
3T	6	11.2	1	5.4	11	3	40	1440	3 P	380V	50	0.75	1440	3 P	380V	50	100-178	114	127
3T	12	11.2	1	5.4	11	3	40	1440	3 P	380V	50	0.75	1440	3 P	380V	50	100-178	132	145
5T	6	11.2	2	2.7	11	3	40	1440	3 P	380V	50	0.75	1440	3 P	380V	50	112-178	145	159
5T	12	11.2	2	2.7	11	3	40	1440	3 P	380V	50	0.75	1440	3 P	380V	50	112-178	181	195
10T	6	11.2	4	2.7	11	3.0*2	40	1440	3 P	380V	50	0.75	1440	3 P	380V	50	150-220	335	338
10T	12	11.2	4	2.7	11	3.0*2	40	1440	3 P	380V	50	0.75	1440	3 P	380V	50	150-220	407	434

DIMENSION SPECIFICATION

Model	Load Capacity (t)	Dimesnions (mm)											Net Weight (kg)	Gross Weight (kg)
		H	A	B	D	E	I	J	K	L	M	N		
ELECTRIC HOIST KD	0.5T	455	566	266	285	165	26	27	34	25	17	17	19	22
	1T	520	627	302	300	176	26	32	41	32	24	24	36	44
	2T	640	733	343	430	265	31	38	49	40	28	28	47	52
	3T	685	733	343	430	265	36	48	59	48	34	34	57	63
	5T	870	733	343	430	325	43	48	60	48	42	42	76	83
	10T	1270	780	890	-	890	85	70	85	70	104	60	124	135

**TOYO**

ELECTRIC HOIST WITH TROLLEY

INVERTER ADVANTAGE:

Good protection for the motor , could extend the motor life, start smooth, so that the motor heat and noise are less than before.

DOUBLE SPEED ADVANTAGE:

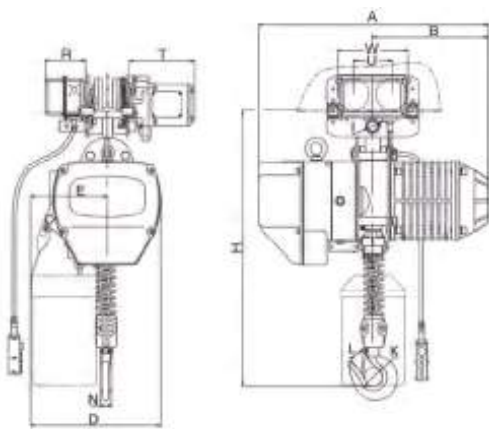
1.With double speed is the last test generation setting, for slow speed could be control the speed based on the actual use of customer requirements.

2.The hoist with double speed is mainly used in the precise controlling the lifting height, to ensure accurate positioning of the lifting objects.

SIDE MAGNETIC BRAKING DEVICE:

This device shall realize the instant brake in case of the power dump.

CHAIN BAG: It shall be light, handsome and durable.



TECHNICAL PARAMETERS

Product Code	Capacity (t)	Lifting Height (m)	Lifting Speed (m/min)	Power (kw)	Rotation Speed (r/min)	Phases	Lifting Motor Voltage(v)	Frequency (hz)	Power (kw)	Operating Rotation Speed (r/min)	Motor Operating Speed (m/min)	Phases	Voltage (v)	Frequency (hz)	I-Beam (mm)
HHBD 0101	1	3/9	6.6	1.5	1440	3	220-440	50/60	0.4	1440	11/21	3	220-440	50/60	58-153
HHBD 0151	1.5	3/9	8.8	3.0	1440	3	220-440	50/60	0.4	1440	11/21	3	220-440	50/60	82-178
HHBD 0201	2	3/9	6.6	3.0	1440	3	220-440	50/60	0.4	1440	11/21	3	220-440	50/60	82-178
HHBD 0202	2	3/9	3.3	1.5	1440	3	220-440	50/60	0.4	1440	11/21	3	220-440	50/60	82-178
HHBD 0251	2.5	3/9	5.4	3.0	1440	3	220-440	50/60	0.75	1440	11/21	3	220-440	50/60	100-178
HHBD 0301	3	3/9	5.4	3.0	1440	3	220-440	50/60	0.75	1440	11/21	3	220-440	50/60	100-178
HHBD 0302	3	3/9	4.4	3.0	1440	3	220-440	50/60	0.75	1440	11/21	3	220-440	50/60	100-178
HHBD 0303	3	3/9	2.2	1.5	1440	3	220-440	50/60	0.75	1440	11/21	3	220-440	50/60	100-178
HHBD 0502	5	3/9	2.7	3.0	1440	3	220-440	50/60	0.75	1440	11/21	3	220-440	50/60	100-178
HHBD 1004	10	3/9	2.7	3.0	1440	3	220-440	50/60	0.75	1440	11/21	3	220-440	50/60	150-220





TOYO

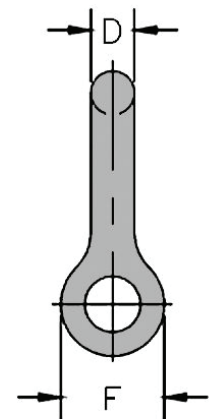
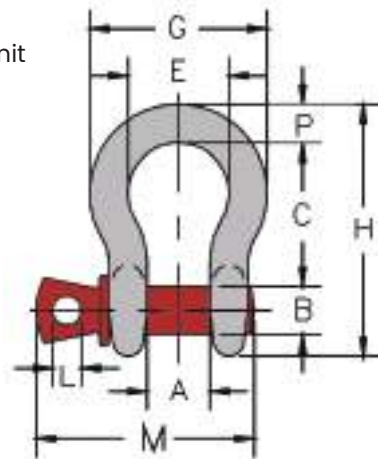
G-209 SCREW PIN BOW SHACKLE

Forged, Quenched & Tempered, with alloy pins.

- Working Load Limit, CE, Traceability Code, Grade, Size and Name are permanently shown on every shackle.
- G-209 Screw pin Anchor Shackles meet the performance requirements of federal specification RR-C-271D
- Complies with EC council 98/37/EC, EN 13889
- Body : Forged Carbon Steel, Pin: Alloy Steel
- Finish : Hot dip Galvanized, Pin: Powder Coated
- Minimum breaking load is 6 times of W.L.L
- Maximum Proof Load is 2 Times the Working Load Limit
- Suitable for Overhead lifting



G-209



SCREW PIN TYPE ANCHOR BOW SHACKLE G209

Nominal Size (in.)	Working Load Limit (t)	Weight Each (lbs.)	Dimensions (in.)											Tolerance +/-	
			A	B	C	D	E	F	G	H	L	M	P	C	A
3/16	1/3	0.06	0.38	0.25	0.88	0.19	0.60	0.56	0.98	1.47	0.16	1.12	0.19	0.06	0.06
1/4	1/2	0.10	0.47	0.31	1.13	0.25	0.78	0.61	1.28	1.84	0.19	1.38	0.26	0.06	0.06
5/16	3/4	0.19	0.53	0.38	1.22	0.31	0.84	0.75	1.47	2.09	0.22	1.66	0.31	0.06	0.06
3/8	1	0.31	0.66	0.44	1.44	0.38	1.03	0.91	1.78	2.49	0.25	2.03	0.38	0.13	0.06
7/16	1-1/2	0.38	0.75	0.50	1.69	0.44	1.16	1.06	2.03	2.91	0.31	2.38	0.44	0.13	0.06
1/2	2	0.72	0.81	0.63	1.88	0.50	1.31	1.19	2.31	3.28	0.38	2.69	0.50	0.13	0.06
5/8	3-1/4	1.37	1.06	0.75	2.38	0.63	1.69	1.50	2.94	4.19	0.44	3.34	0.69	0.13	0.06
3/4	4-3/4	2.35	1.25	0.88	2.81	0.75	2.00	1.81	3.50	4.97	0.50	3.97	0.81	0.25	0.06
7/8	6-1/2	3.62	1.44	1.00	3.31	0.88	2.28	2.09	4.03	5.83	0.50	4.50	0.97	0.25	0.06
1	8-1/2	5.03	1.69	1.13	3.75	1.00	2.69	2.38	4.69	6.56	0.56	5.07	1.06	0.25	0.06
1-1/8	9-1/2	7.41	1.81	1.25	4.25	1.16	2.91	2.69	5.16	7.47	0.63	5.59	1.25	0.25	0.06
1-1/4	12	9.50	2.03	1.38	4.69	1.29	3.25	3.00	5.75	8.25	0.69	6.16	1.38	0.25	0.06
1-3/4	13-1/2	13.53	2.25	1.50	5.25	1.42	3.63	3.31	6.38	9.16	0.75	6.84	1.50	0.25	0.13
1-1/2	17	17.20	2.38	1.63	5.75	1.54	3.88	3.63	6.88	10.00	0.81	7.35	1.62	0.25	0.13
1-3/4	25	27.78	2.88	2.00	7.00	1.84	5.00	4.19	8.86	12.34	1.00	9.08	2.25	0.25	0.13
2	35	45.00	3.25	2.25	7.75	2.08	5.75	4.81	9.97	13.68	1.22	10.34	2.40	0.25	0.13
2-1/2	55	85.75	4.13	2.75	10.50	2.71	7.25	5.69	12.87	17.84	1.38	13.00	3.13	0.25	0.25

**TOYO**

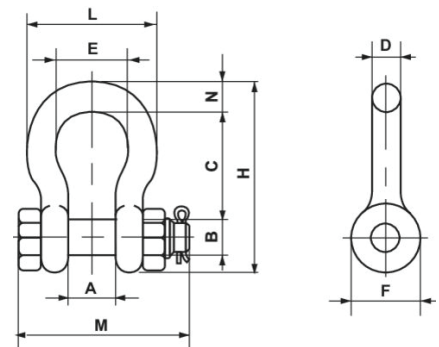
G-2130 BOLT AND NUT TYPE ANCHOR BOW SHACKLE

Forged, Quenched & Tempered, with alloy pins.

- Working Load Limit, CE, Traceability Code, Grade, Size and Name are permanently shown on every shackle.
- Meet the performance requirements of federal specification RR-C-271D
- Complies with EC council 98/37/EC , EN 13889
- Body : Forged Carbon Steel, Pin: Alloy Steel
- Finish : Hot dip Galvanized, Pin: Powder Coated

Enhanced safety with nut and cotter pin

- Minimum breaking load is 6 times of W.L.L
- Maximum Proof Load is 2 Times the Working Load Limit
- Recommended for long term and permanent application

**G-2130**

BOLT AND NUT TYPE ANCHOR BOW SHACKLE G2130

Nominal Size (in.)	Working Load Limit (t)	Weight Each (lbs.)	Dimensions (in.)									Tolerance +/-	
			A	B	C	D	E	F	H	I	N	C	A
3/16	1/3	0.06	0.38	0.25	0.88	0.19	0.60	0.56	1.47	0.98	0.19	0.06	0.06
1/4	1/2	0.11	0.47	0.31	1.13	0.25	0.78	0.61	1.84	1.28	0.25	0.06	0.06
5/16	3/4	0.22	0.53	0.38	1.22	0.31	0.84	0.75	2.09	1.47	0.31	0.06	0.06
3/8	1	0.33	0.66	0.44	1.44	0.38	1.03	0.91	2.49	1.78	0.38	0.13	0.06
7/16	1-1/2	0.49	0.75	0.50	1.69	0.44	1.16	1.06	2.91	2.03	0.44	0.13	0.06
1/2	2	0.79	0.81	0.64	1.88	0.50	1.31	1.19	3.28	2.31	0.50	0.13	0.06
5/8	3-1/4	1.68	1.06	0.77	2.38	0.63	1.69	1.50	4.19	2.94	0.69	0.13	0.06
3/4	4-3/4	2.72	1.25	0.89	2.81	0.75	2.00	1.81	4.97	3.50	0.81	0.25	0.06
7/8	6-1/2	3.95	1.44	1.02	3.31	0.88	2.28	2.09	5.83	4.03	0.97	0.25	0.06
1	8-1/2	5.66	1.69	1.15	3.75	1.00	2.69	2.38	6.56	4.69	1.06	0.25	0.06
1-1/8	9-1/2	8.27	1.81	1.25	4.25	1.13	2.91	2.69	7.47	5.16	1.25	0.25	0.06
1-1/4	12	11.71	2.03	1.40	4.69	1.29	3.25	3.00	8.25	5.75	1.38	0.25	0.06
1-3/8	13-1/2	15.83	2.25	1.53	5.25	1.42	3.63	3.31	9.16	6.38	1.50	0.25	0.13
1-1/2	17	20.80	2.38	1.66	5.75	1.53	3.88	3.63	10.00	6.88	1.62	0.25	0.13
1-3/4	26	33.91	2.88	2.04	7.00	1.84	5.00	4.19	12.34	8.80	2.25	0.25	0.13
2	35	52.25	3.25	2.30	7.75	2.08	5.75	4.81	13.68	10.15	2.40	0.25	0.13
2-1/2	55	98.25	4.13	2.80	10.50	2.71	7.25	5.69	17.90	12.75	3.13	0.25	0.25
3	85	154.00	5.00	3.30	13.00	3.12	7.88	6.50	21.50	14.62	3.62	0.25	0.25
3-1/2	120	265.00	5.25	3.76	14.63	3.62	9.00	8.00	24.88	17.02	4.38	0.25	0.25
4	150	338.00	5.50	4.26	14.50	4.00	10.00	9.00	25.68	18.00	4.56	0.25	0.25

**TOYO**

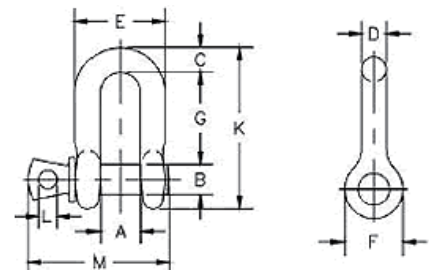
G-210 S210

US TYPE SCREW PIN

ANCHOR D SHACKLE

Forged, Quenched & Tempered, with alloy pins.

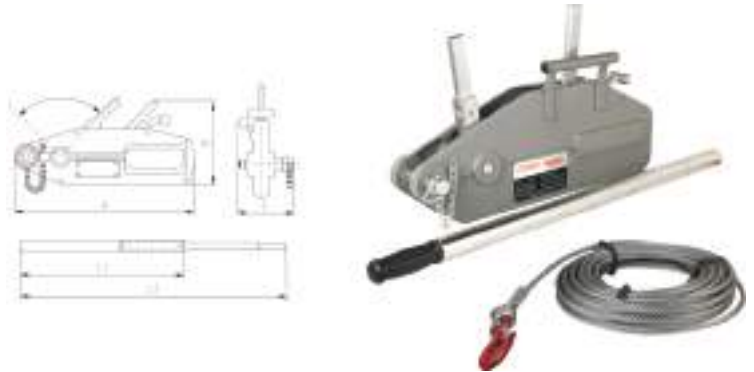
- Working Load Limit, CE, Traceability Code, Grade, Size and Name are permanently shown on every shackle.
- G-210 Screw pin D Shackles meet the performance requirements of federal specification RR-C-271D
- Complies with EC council 98/37/EC, EN 13889
- Body : Forged Carbon Steel, Pin: Alloy Steel
- Finish : Hot dip Galvanized, Pin: Powder Coated
- Minimum breaking load is 6 times of W.L.L
- Maximum Proof Load is 2 Times the Working Load Limit
- Suitable for Overhead lifting

**G-210****SCREW PIN TYPE ANCHOR D SHACKLE G210**

Nominal Size (in.)	Working Load Limit (t)	Weight Each (lbs.)	Dimensions (in.)										Tolerance +/-	
			A	B	C	D	E	F	G	K	L	M	G	A
1/4	1/2	0.11	0.47	0.31	0.25	0.25	0.97	0.62	0.97	1.59	0.19	1.43	0.06	0.06
5/16	3/4	0.17	0.53	0.38	0.31	0.31	1.15	0.75	1.07	1.91	0.22	1.71	0.06	0.06
3/8	1	0.28	0.66	0.44	0.38	0.38	1.42	0.92	1.28	2.31	0.25	2.02	0.13	0.06
7/16	1-1/2	0.43	0.75	0.50	0.44	0.44	1.63	1.06	1.48	2.67	0.31	2.37	0.13	0.06
1/2	2	0.59	0.81	0.63	0.50	0.50	1.81	1.18	1.66	3.03	0.38	2.96	0.13	0.06
5/8	3-1/4	1.25	1.06	0.75	0.63	0.63	2.32	1.50	2.04	3.76	0.44	3.34	0.13	0.06
3/4	4-3/4	2.63	1.25	0.88	0.81	0.75	2.75	1.81	2.40	4.53	0.50	3.97	0.25	0.06
7/8	6-1/2	3.16	1.44	1.00	0.97	0.88	3.20	2.10	2.86	5.33	0.50	4.50	0.25	0.06
1	8-1/2	4.75	1.69	1.13	1.00	1.00	3.69	2.38	3.24	5.94	0.56	5.13	0.25	0.06
1-1/8	9-1/2	6.75	1.81	1.25	1.25	1.13	4.07	2.69	3.61	6.78	0.63	5.71	0.25	0.06
1-1/4	12	9.06	2.03	1.38	1.38	1.25	4.53	3.00	3.97	7.50	0.69	6.25	0.25	0.13
1-3/8	13-1/2	11.63	2.25	1.50	1.50	1.38	5.01	3.31	4.43	8.28	0.75	6.83	0.25	0.13
1-1/2	17	15.95	2.38	1.63	1.62	1.50	5.38	3.62	4.84	9.05	0.81	7.33	0.25	0.13
1-3/4	25	26.75	2.88	2.00	2.12	1.75	6.38	4.19	5.78	10.97	1.00	9.06	0.25	0.13
2	35	42.31	3.25	2.25	2.36	2.10	7.25	5.00	6.77	12.74	1.13	10.35	0.25	0.13
2-1/2	55	71.75	4.12	2.75	2.63	2.63	9.38	5.68	8.07	14.85	1.38	13.00	0.25	0.25

**TOYO**

WIRE ROPE PULLING HOIST (TIRFOR)

**WIRE ROPE PULLING HOIST**

Rated Capacity (T)	Standard Rope Length (M)	Rope Diameter	Effort required at capacity	Wire rope safety factor load capacity	Wire factor & sataticload capacity	Max Travelling Load	A (mm)	B (mm)	C (mm)	L1 (mm)	L2 (mm)	Net Weight (kg)
0.80	20.00	8.30	341.00	5.00	5.00	≥ 52	426.00	238.00	64.00	80.00	80.00	14.60
1.60	20.00	11.00	438.00	5.00	5.00	≥55	545.00	284.00	97.00	80.00	120.00	26.40
3.2	20.00	16.00	438.00	5.00	5.00	≥28	660.00	325.00	116.00	80.00	120.00	49.30
5.40	20.00	20	745	6	6	≥30	930	480.00	152.00	80.00	120.00	98.00



TOYO CARGO LASHING BELTS

- Our range of tie downs, are manufactured as well with Ultra high tenacity Yarns, either in Polyester or in Polypropylene.
- Our Polypropylene tie downs series, are guaranteed to a usage under UV light for 3 years. Our new series of tie downs include, edge cutting resistant tapes, and others as antisliding, properties up to a 100% over other's existent in the market, or in our catalog, also we

- include the New series of automatic Retractable ratchet 50 and 25. All our manufacturing is automated as possible, to avoid as minimum labor error, i.ex our stitching



4 inch Cargo Lashing



3 inch Cargo Lashing



2 inch Cargo Lashing



1 inch Cargo Lashing

Model	Explanation	Working Load (kg)	Working Length (m)	Webbing Width (mm)/(inch)
DL010	1 T,4~8m	1000	4~8	25 (1")
DL015	1.5 T,4~8m	1500	4~8	25 (1")
DL020	2 T,4~8m	2000	4~8	38 25 (1.5") / 50 (2")
DL030	3 T,4~12m	3000	4~12	38 25 (1.5") / 50 (2")
DL040	3 T,4~12m	3000	4~12	50 (2")
DL050	5 T,4~12m	5000	4~12	50 (2")
DL080	8 T,5~12m	8000	4~12	75 (3")
DL100	10 T,5~12m	10000	4~12	100 (4")

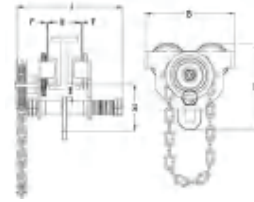




TOYO

GEARED TROLLEY

- High grade sealed ball bearings.. With anti-drop plates.
- Galvanized hand chain.
- All structural parts made of high quality steel.
- Adjustable to any beam width, simply by adjusting the number of collars.
- For geared trolley, the standard operating length is 3 meter, other length is available upon request.



Model :GCL-B

Capacity (t)	I-BEAM (mm)	Dimensions (mm)						Net Weight (kg)	Carton Size (mm)
	M	A	B	C	E	H	F		
1T*5M	75-125mm	258	250	214	11	118	1 5-3	13.2	305*160*175
2T*5M	100-150mm	284	270	227	14	125	1 5-3	17.8	330*170*205
3T*5M	100-150mm	312	315	304	8	165	1 5-3	26.1	390*200*235
5T*5M	125-175mm	365	358	334	21	183	1 5-3	39.4	440*235*270
10T*5M	110-200mm	458	430	434	36	250	1 5-3	75	590*310*400
20T*5M	110-300mm	595	518	524	45	324	1 5-3	190	610*415*525

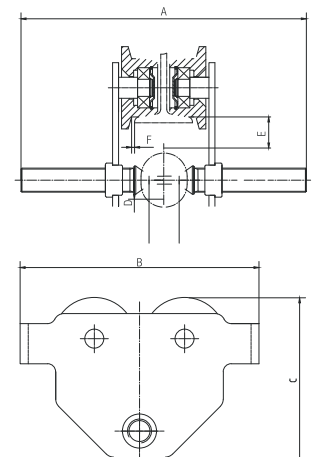


TOYO

MANUAL PUSH TROLLEY



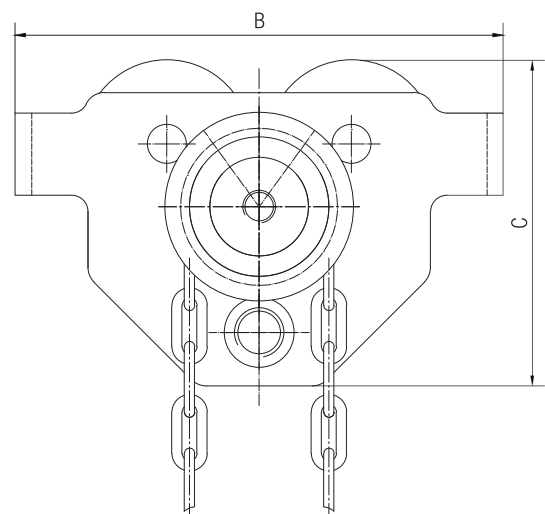
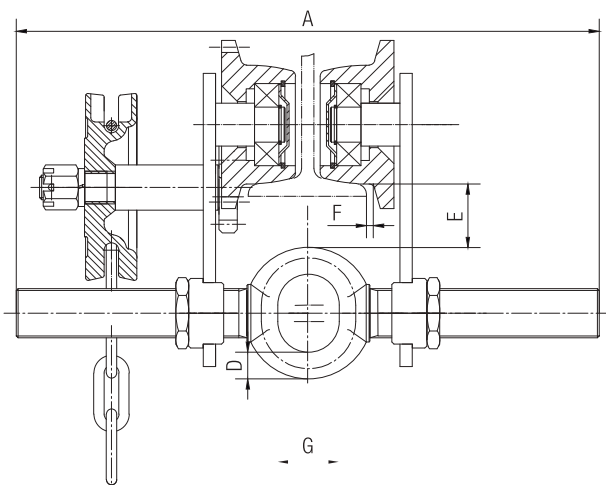
Model :GCT-C



Model		TPT-005	TPT-010	TPT-020	TPT-030	TPT-050
Capacity	t	0.5	1	2	3	5
Proof Load	t	0.75	1.5	3	4.5	7.5
I-Beam Width	mm	50-220	58-220	66-220	74-220	90-220
Dimensions	A	285	300	300	328	354
	B	198	238	277	324	373
	C	158	183	208	249	296.5
	D	12.5	17	20	26	28
	E	40	31	31	31	40
	F	≈3	≈3	≈3	≈3	≈5
	G	25	29	36	46	52
Net Weight	kg	5	8.8	14	23	40

**TOYO****MANUAL GEAR
TROLLEY**

Model :GCL-C

**MANUAL GEAR TROLLEY (MODEL: GCL-C)**

Model		TGT-005	TGT-010	TGT-020	TGT-030	TGT-050	TGT-100*	TGT-200*	TGT-300*
Capacity	t	0.5	1	2	3	5	10	20	30
Proof Load	t	0.75	1.5	3	4.5	7.5	12.5	25	37.5
I-Beam Width	mm	50-220	58-220	66-220	74-220	90-220	125-203	136-203	144-250
Dimensions (mm)	A	352.5	353.5	362	406.5	434.5	487.5	523	570
	B	198	238	277	324	373	455	642	642
	C	158	183	208	249	296.5	490	622	622
	D	12.5	17	20	26	28	82	110	110
	E	40	31	31	31	40	36.5	54	50
	F	≈3	≈3	≈3	≈3	≈5	≈5	≈5	≈5
Net Weight	G	25	29	36	46	52			
	kg	8.5	12.5	17	28	45	93	247.5	254

**TOYO****PLAIN TROLLEY**

- All structural parts made of high quality steel.
- Adjustable to any beam width, simply by adjusting the number of collars.
- High grade sealed ball bearings.
- With anti-drop plates.
- Galvanized hand chain.

**MOVEMENT MECHANISM**

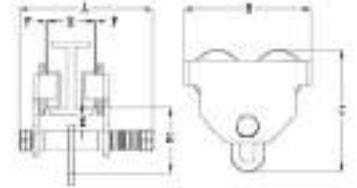
Trolley moves smoothly on cast iron flanged wheels equipped with sealed, lubed for life ball bearings.

**ADJUSTABLE WIDTH**

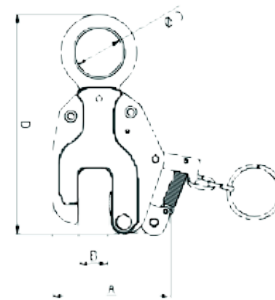
The wheels are made to fit any shape of a beam.



Model :GCT-B



Capacity (t)	I-BEAM (mm)	Dimensions (mm)						Net Weight (kg)	Carton Size (mm)
	M	A	B	C	E	H	F		
0.5T	75-125mm	198	204	188	23	113	1.5-3	6	295*75*185
1T	75-125mm	220	250	214	11	118	1.5-3	8	310*100*200
2T	100-150mm	243	270	227	14	125	1.5-3	11	340*130*210
3T	100-150mm	268	315	304	8	165	1.5-3	22	395*130*250
5T	125-75mm	305	358	334	21	183	1.5-3	30	440*150*300
10T	110-200mm	405	430	434	36	250	1.5-3	79	500*280*350

**TOYO****LIFTING CLAMP
PLATE VERTICAL**

Model	WLL (tonnes)	Jaw Opening (mm)	Weight (kg)
CDH-B 0.8	0.8	0-16	2.8
CDH-B 1	1	0-22	3.6
CDH-B 2	2	0-30	5.5
CDH-B 3.2	3.2	0-40	10
CDH-B 5	5	0-50	17
CDH-B 8	8	0-60	26
CDH-B 10	10	0-80	32
CDH-B 12	12	25-90	48
CDH-B 16	16	60-125	80
CDH-B 30	30	80-220	125

Model :CDH





TOYO BEAM CLAMP

- Provides a quick and versatile rigging point for hoisting equipment, pulley blocks or loads...
- Flexible application due to wide adjustment range. The central threaded spindle allows easy attachment and a safe and secure grip.
- The spindle can be secured against loosening.
- Fits wide range of beams and flange widths, low headroom design.
- Widely option for flange width.



CLAMP JAW DESIGN

Special Beam Clamp Jaw design applies loads away from flange edge.



SAFETY MOUNTING & CRANK

Easy and simple mechanism to increase safety.



Model	Capacity Load (t)	Test Load (kn)	I-Beam Width Range (mm)	A Max	B		C	E	F		G	Net Weight (kg)
					Min	Max			Min	Max		
JG-1	1	12.3	75-220	260	180	360	64	215	102	155	25	3.8
JG-2	2	24.5	75-220	260	180	360	74	215	102	155	25	4.6
JG-3	3	36.8	80-320	354	235	490	103	260	140	225	45	9
JG-5	5	61.3	80-320	354	235	490	110	260	140	225	45	11
JG-10	10	122.5	90-320	365	320	505	120	280	170	235	50	16



TOYO FORGED RATCHET LOAD BINDER



Model :RLB

Min-max Chain Size (in.)	WLL (lbs)	Proof Load (lbs)	Min Ultimate Load (lbs)	Weight (lbs)	Handle Length (in.)	Dimensions (in.)							
						L1	L2	L3	L4	L5	L6	L7	L8
1/4-5/16	2600	5200	7800	3.52	7.16	7.16	0.89	1.77	16.22	21.26	17.79	22.83	0.35
5/16-3/8	5400	10800	19000	10.50	13.42	13.92	1.30	2.60	22.64	30.64	25.25	33.24	0.51
3/8-1/2	9200	18400	33000	12.90	13.92	13.92	1.30	2.60	24.13	32.13	27.04	33.04	0.59
1/2-5/8	13000	26000	46000	14.38	13.92	13.92	1.30	2.60	26.45	34.45	30.07	38.07	0.74

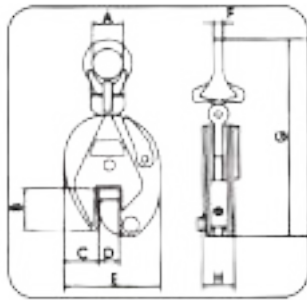




TOYO VERTICAL PLATE LIFTING CLAMP

Technical Specialities

- The universal vertical CD clamp is designed to ensure that the load can be lifted and turned (180°). Whilst at the same time ensuring that the load is positively retained.
- These clamps have a wide range of uses and are particularly suited for the lifting and turning of steel plates, ship sections and the extraction of pile sheets.



- The clamp is fitted with a safety latch which ensures the proper use by means of a double locking device, both in open as well as closed position.
- This also guarantees a pre-load on the material being lifted.



Model :CD



Model	WLL (tonnes)	Jaw Opening (mm)	Weight (kg)
CD0.8	0.8	0-15	2
CD1	1.0	0-15	4
CD1(B)	1.0	0-20	5
CD1.6	1.6	0-20	7
CD2	2.0	0-25	8
CD3.2	3.2	0-25	15
CD3.2(B)	3.2	0-30	15
CD5	5.0	0-30	21
CD5(B)	5.0	0-50	23
CD8	8.0	0-45	37
CD12	12.0	0-70	50
CD16	16.0	60-100	65
CD30	30.0	60-220	120



TOYO HORIZONTAL LIFTING CLAMPS YCH

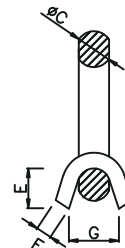
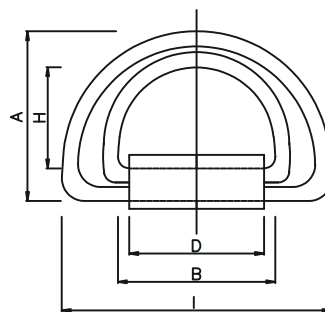


- Europe model
- CH horizontal lifting clamp consists of two clamps with a two-logged chain system
- It is especially suited for the transport of single plate with a minimum thickness of approx. 5 mm as well as for plate bundles
- The two-logged lifting clamps in conjunction with a spreader beam
- In the standard version, the lifting clamp is suitable for plates up to 1500mm width with a top angle of the chain up to a max.90°
- Clamps with longer chains (or large plate widths) are available upon request. The working load limit (WLL) applies to a pair of lifting clamps. Single clamps are also available, but with half working load limit.

Model	Capacity /pair	Test Load (kg)	Opening Size (mm)	Net Weight
YCH1	1000	2000	0-50	4
YCH2	2000	4000	5-32	5.5
YCH4	4000	8000	5-50	8.5
YCH6	6000	12000	5-75	23
YCH8	8000	12000	5-75	28.5
YCH10	10000	15000	5-100	6
YCH10	10000	15000	50-150	54



TOYO D RING WITH WRAP

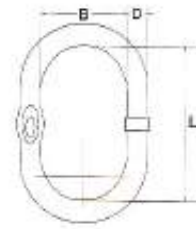


MBS	Dimensions(mm)									Weight (kg/pc)
	A	B	C	D	E	F	G	H	I	
10t	87	90	18	80	24	10	42	50	137	1.1 KG
20t	87	90	18	80	24	10	42	50	137	1.1 KG
25t	109	112	20	90	25	10	48	69	170	1.65KG
30t	102	88	21	80	24	10	42	58	144	1.5KG
36t small	112	100	24	92	30	12	47	66.5	165	2.3KG
36t big	124	130	23	115	29	12	45	76	208	2.8KG
41 t	137	143	26	115	48	12	50	87	225	3.9KG
50t small	128	130	25	115	48	12	50	76	208	3.2KG
50t	140	137	27	115	48	12	50	86	227	4KG
60t	144	123	27	110	43	14	72	90	220	4.5KG
67t	143	124	28	110	44	14	73	90	220	4.5KG



TOYO MASTER LINK

- Each link has a Product Identification Code (PIC) for material traceability, along with the size and the manufacture mark.
- Larger inside width and length for use with thimble.



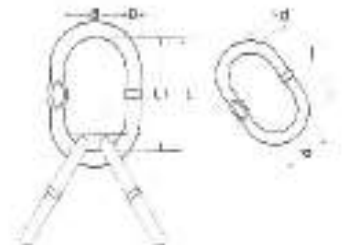
Model :MLW

Product Code	Size D (mm)	Dimensions (mm)		WLL 4:1 (t)	Weight (kg)
		L	B		
MLW-8-13	13	115	60	2.50	0.4
MLW-8-16	16	120	70	4.25	0.6
MLW-8-16A	16	170	100	4.25	0.80
MLW-8-20	20	170	90	6.70	1.30
MLW-8-22	22	170	90	8.20	1.60
MLW-8-22A	22	210	110	8.20	1.65
MLW-8-25	25	190	103	10.70	2.30
MLW-8-28	28	270	140	11.80	4.00
MLW-8-32	32	270	140	17.10	5.30
MLW-8-38	38	270	140	28.10	7.50
MLW-8-45	45	320	170	39.3	12.3



TOYO MASTER LINK ASSEMBLY

- High grade Alloy Steel (Quenched and Tempered) material
- Design Factor of 4: 1 for chain and 5: 1 for wire rope.
- Individually Proof Tested to 2.5 times the Working Load Limit(4: 1), unless otherwise noted, with certification.



Model :MLA

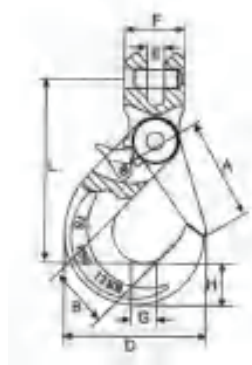
Product Code	Size D (mm)	Dimensions (mm)						WLL 4:1 (t)	Weight (kg)
		L	L1	B	d	b	l		
MLW-8-16	16	214	120	70	13	60	115	4.1	1.4
MLW-8-20	20	267	170	90	16	70	120	6.5	2.5
MLW-8-22	22	310	170	90	20	90	170	8.2	4.2
MLW-8-25	25	329	190	100	20	90	170	10.7	4.5
MLW-8-28	28	407	270	140	22	90	170	12.9	6.4
MLW-8-32	32	424	270	140	25	100	190	17.1	9.9
MLW-8-38	38	493	270	140	32	140	270	28.1	18.2
MLW-8-45	45	540	320	170	38	140	270	39.3	27.7



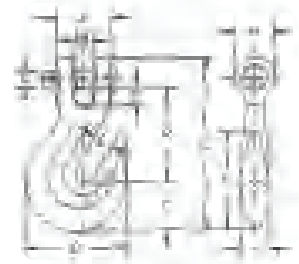


TOYO

ALLOY STEEL SAFETY HOOKS



Model :HSC
Clevis Self Locking Hook



Model :A-330
Clevis Grab Hook

CLEVIS SELF LOCKING HOOK

Item No.	Size (mm)	Dimensions (mm)									WLL 4:1 (t)	Weight (kg)
		L	A	B	C	D	E	F	G	H		
HSC006	6	95	31	26	7.8	70	8.5	32	16	22	1.2	0.45
HSC007	7	117	39	36	9.2	89	9	37	20	24	2.0	0.85
HSC010	10	140	52	44	13.2	107	12	47.5	26	30	3.2	1.45
HSC013	13	176	65	52	16.3	139	15	60	32	40	5.4	2.90
HSC016	16	210	75	63	20.2	168	18	73	40	51	8.2	5.60
HSC018	10	232	83	76	24.3	186	25	81	45	56	12.5	6.50
HSC022	22	265	88	80	28.2	204	25.5	98	52	65	15.0	16.00

CLEVIS GRAB HOOK

Chain Size (in.)	Stock No.	WLL (lbs)	Weight Each (lbs)	Dimensions (in.)											
				A	B	C	D	E	G	H	K	L	N	P	R
1/4	1123249	3500	0.36	1.00	0.32	0.31	1.81	0.34	0.88	0.72	0.47	3.05	1.75	0.31	1.64
5/16	1123267	4700	0.62	1.22	0.43	0.36	2.12	0.44	0.97	0.91	0.59	3.66	2.06	0.38	2.02
3/8	1123285	7100	1.00	1.42	0.48	0.49	2.53	0.50	1.17	1.00	0.72	4.42	2.34	0.44	2.41
7/16	1123301	8750	1.31	1.66	0.66	0.62	3.09	0.56	1.31	1.13	0.69	4.94	2.66	0.56	2.75
1/2	1123329	12000	2.22	1.88	0.57	0.51	3.56	0.66	1.53	1.25	0.78	5.72	2.97	0.63	3.19
5/8	1123347	15800	4.41	2.31	0.71	0.67	4.39	0.78	1.78	1.56	1.09	6.83	4.31	0.75	4.09
3/4	1123365	24700	6.50	2.62	0.94	0.94	5.22	0.94	2.13	1.88	1.31	8.13	5.09	0.88	4.63

**TOYO****ALLOY STEEL SAFETY HOOKS**

Model : ESH
Eye Sling Hook With Latch



Model : CSH
Clevis Sling Hook With Latch

EYE SLING HOOK WITH LATCH

Stock No.	Size (mm)	Dimensions (mm)					WLL (T)	Weight (kg)
		D	E	L	I	θ		
ESH01106	6	32.4	25.0	107.0	9.0	20.0	1.12	0.30
ESH01108	7/8	37.2	30.0	131.5	10.5	25.0	2.0	0.55
ESH01110	10	43.8	32.5	167.0	16.0	38.0	3.15	1.15
ESH01113	13	55.0	37.0	213.0	19.5	42.5	5.3	2.32
ESH01116	16	68.9	42.0	256.0	23.0	50.0	8.0	3.45
ESH01120	20	87.4	51.0	305.0	27.0	61.0	12.5	6.60
ESH01122	22	98.0	72.0	344.0	33.0	68.3	15.0	8.50
ESH01126	26	112.5	85.0	392.5	34.5	63.0	21.2	13.00
ESH01132	32	140.0	106.0	480.5	37.0	88.0	31.5	17.00

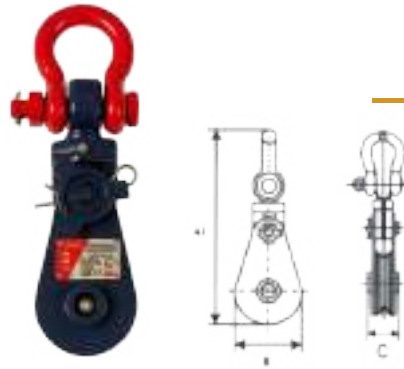
CLEVIS SLING HOOK WITH LATCH

Stock No.	Size (mm)	Dimensions (mm)						WLL (T)	Weight (lbs)
		A	B	θ	H	K	E		
CSH01006	6	9.0	35	27.0	20.5	74.0	21.0	1.12	0.17
CSH01008	7/8	9.3	36.8	37.5	26.5	86.5	26.0	2	0.25
CSH01010	10	12.4	46.6	44.5	33.5	104.0	30.0	3.15	0.65
CSH01013	13	16.9	54.6	56.3	41.0	128.0	43.0	5.3	1.39
CSH01016	16	21.5	70.5	63.5	49.5	157.0	47.0	8	2.20
CSH01020	20	24	88.5	75.5	56.5	186.5	52.0	12.5	4.60
CSH01022	22	28	90.0	98.0	63.0	205.0	68.0	15	8.20
CSH01026	26	31.1	116.0	114.0	75.0	245.4	85.0	21.2	9.80
CSH01032	32	35	150.0	140.0	88.0	317.0	106.0	31.5	19.40



TOYO

SBS CHAMPION SNATCH PULLEY (shackle Type)



46

Model	S.W.L (t)	Sheave Dia D(mm)	A1 (mm)	B (mm)	C (mm)	For Wire Dia (mm)	N.W. (gk)
SBS-3" x 1	2	75	286	82	70	7-9	4
SBS-4-1/2" x 1	4	115	345	120	70	10-12	6.1
SBS-6" x 1	4	150	399	160	70	16-18	13.8
SBS-6" x 1	8	150	475	160	93	20-22	144
SBS-8" x 1	8	200	528	210	93	20-22	16
SBS-8" x 1	15	200	663	230	102	22-24	24
SBS-10" x 1	10	250	679	260	115	24-26	37.5
SBS-10" x 1	12	250	679	260	115	24-26	42
SBS-12" x 1	12	300	767	310	133	24-26	56
SBS-12" x 1	15	300	884	310	133	26-26	65
SBS-14" x 1	22	355	952	365	140	28-32	90
SBS-16" x 1	22	400	1019	415	140	28-32	108
SBS-16" x 1	30	400	1126	415	155	32-35	135
SBS-20" x 1	30	500	1256	514	162	32-35	210
SBS-24" x 1	50	600	1525	625	240	46-50	408



TOYO

HYDRAULIC HAND PALLET TRUCK

AC SERIES

The Hand Pallet Truck is the ideal storage aid "and" handling partner for all manual transport tasks over short distances, excellently suitable for use on lorries in small warehouses and markets ect



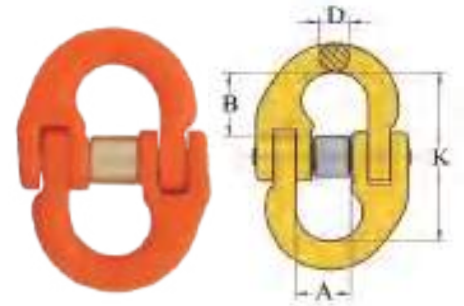
Model :AC

Model	CBY-AC 2.0	CBY-AC 2.5	CBY-AC 3.0	CBY-AC 5.0
Capacity (kg)	2000	2500	3000	5000
Min. fork height (mm)	85/75	85/75	85/75	85/75
Max. fork height (mm)	195/185	195/185	195/185	195/185
Lifting height (mm)	110	110	110	110
Fork length (mm)	1150/1220	1150/1220	1150/1220	1150/1220
Single fork width (mm)	160	160	160	160
Width overall forks (mm)	550/685	550/685	550/685	550/685
Fork wheel-single (mm)	80 x 93/74 x 93	80 x 93/74 x 93	80 x 93/74 x 93	80 x 93/74 x 93
Fork wheel-tandem (mm)	80 x 70	80 x 70	80 x 70	80 x 70
Steering wheel (mm)	180 x 50	180 x 50	180 x 50	180 x 50
Self weight (kg)	73-92	73-92	73-92	73-92
Qty/20 feet container (pcs)	180/144	180/144	180/144	180/144

**TOYO**

ALLOY STEEL CONNECTING LINK

- The C Link's simple design allows instant assembly, dismantling and reassembly of dependably safe slings.
- Assembly only one chain or fitting to each C link body half..
- When reassembly a C link we recommend you use a new pin and stud assembly. These are inexpensive and readily available



Item No.	Working load limit (t)	For grade 80 chain (mm)	Dimensions (mm)				N.W. (kg)
			K	A	D	B	
LTC006	1.12	6	44	15	7	17	0.1
LTC007	2.0	7,8	59	18	9	22	0.2
LTC010	3.15	10	68	25	13	26	0.3
LTC013	5.3	13	91	30	16	35	0.7
LTC016	8.0	16	100	36	19	38	1.1
LTC018	12.5	18,20	122	42	23	48	1.7
LTC022	15.0	22	152	49	24	60	3.0
LTC026	21.2	36	162	55	31	62	4.6
LTC032	31.5	32	202	69	38	79	8.6



DRUM LIFTER

- Provides a quick and versatile rigging point for hoisting equipment, pulley blocks or loads.
- Flexible application due to wide adjustment range.
- Widely option for flange width.



TECHNICAL SPECIFICATION

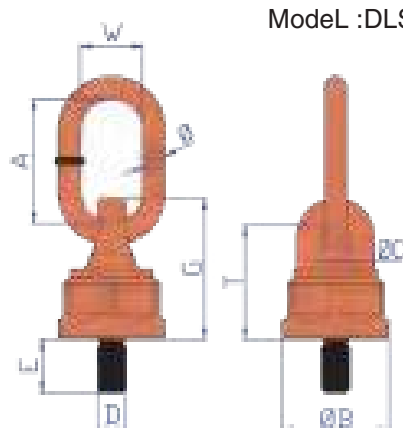
Capacity	Chain Size	Length of lift chain	Net weight / new
(kg)	(mm)	(mm)	(kg)
1000	6 x 18	500	3.6/5.38



TOYO

SWIVEL HOIST RINGS

48



MUTI -DIRECTIONAL USING LIFTING SWIVEL

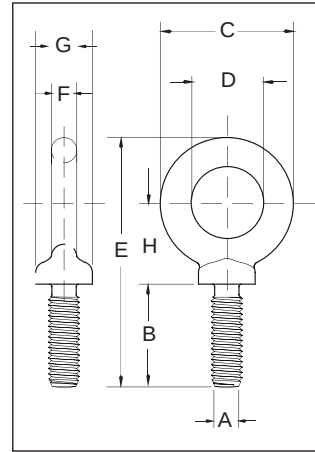
Stock No.	Size D x E	Dimensions (mm)							WLL (T)		Weight (kg)
		A	B	C	G	T	W	θ	90°	0°	
DLS50308	M 8 x 13	55.0	36.0	15.5	52.0	44.0	30.0	13.0	0.3	0.6	0.43
DLS50310	M 10 x 19	55.0	36.0	15.5	52.0	44.0	30.0	13.0	0.45	0.9	0.45
DLS50312	M 12 x 19	55.0	36.0	15.5	52.0	44.0	30.0	13.0	0.5	1	0.46
DLS50313	M 12 x 31.8	55.0	36.0	15.5	52.0	44.0	30.0	13.0	0.5	1	0.47
DLS50314	M 14 x 22	55.0	36.0	15.5	52.0	44.0	30.0	13.0	1.12	2	0.48
DLS50315	M 14 x 31.8	55.0	36.0	15.5	52.0	44.0	30.0	13.0	1.12	2	0.49
DLS50316	M 16 x 31.8	55.0	36.0	15.5	52.0	44.0	30.0	13.0	1.12	2	0.50
DLS50320	M 20 x 30	85.0	60.0	22.5	81.0	69.0	40.0	18.0	2	4	1.57
DLS50321	M 20 x 38.1	85.0	60.0	22.5	81.0	69.0	40.0	18.0	2	4	1.58
DLS50322	M 22 x 30	85.0	60.0	22.5	81.0	69.0	40.0	18.0	2	4	1.58
DLS50323	M 22 x 38.1	85.0	60.0	22.5	81.0	69.0	40.0	18.0	2	4	1.59
DLS50324	M 24 x 30	85.0	60.0	22.5	81.0	69.0	40.0	18.0	3.15	6.3	1.61
DLS50325	M 24 x 38.1	85.0	60.0	22.5	81.0	69.0	40.0	18.0	3.15	6.3	1.62
DLS50327	M 27 x 35	85.0	60.0	22.5	81.0	69.0	40.0	18.0	3.15	6.3	1.62
DLS50330	M 30 x 35	115.0	80.0	26.5	110.0	90.0	50.0	25.0	5.3	10.6	3.72
DLS50331	M 30 x 50	115.0	80.0	26.5	110.0	90.0	50.0	25.0	5.3	10.6	3.75
DLS50332	M 33 x 35	115.0	80.0	26.5	110.0	90.0	50.0	25.0	8	11.8	3.75
DLS50333	M 33 x 50	115.0	80.0	26.5	110.0	90.0	50.0	25.0	8	11.8	3.77
DLS50336	M 36 x 54	115.0	80.0	26.5	110.0	90.0	50.0	25.0	8	11.8	3.81
DLS50339	M 39 x 58	115.0	80.0	26.5	110.0	90.0	50.0	25.0	8	8	3.86



TOYO

EYE BOLT

- Forged Steel – Quenched & Tempered.
- Recommended for in-line pull.
- S-279 threaded UNC
- M-279 metric threaded.
- Meets or exceeds all requirements of ASME 830.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these bolts meet other critical performance requirements including fatigue life, impact properties and material.



S-279 / M-279
Shoulder Type
Machinery Eye Bolts

S-279 UNC Shoulder Type Machinery Eye Bolts

Size (mm)	Working Load Limit (t)*	Weight Each (kg)	Dimensions (mm)							
			A** Thread	B	C	D	E	F	G	H
6.35 x 25.4	.29	.02	1/4 - 20	25.9	28.7	19.1	58.0	4.85	13.5	19.6
7.94 x 28.6	.54	.04	5/16 - 18	29.2	35.1	22.4	69.5	6.35	15.0	24.1
9.53 x 31.8	.70	.06	3/8 - 16	32.3	41.1	25.4	78.0	7.85	17.5	26.7
12.7 x 38.1	1.18	.12	1/2 - 13	38.9	49.5	30.2	94.0	9.65	23.1	32.3
15.9 x 44.5	2.35	.24	5/8 - 11	45.5	60.5	35.1	113	12.7	28.7	38.9
19.1 x 51.0	3.26	.43	3/4 - 10	52.0	70.0	38.1	129	16.0	35.1	43.4
22.2 x 57.0	4.80	.70	7/8 - 9	58.5	82.5	44.5	149	19.1	39.6	50.8
25.4 x 63.5	6.03	1.1	1 - 8	65.5	95.5	51.0	169	22.4	46.0	58.4
28.5 x 70.0	6.80	1.5	1-1/8 - 7	69.8	107	57.1	183	24.6	52.3	59.7
31.8 x 76.0	9.52	1.8	1-1/4 - 7	78.5	114	63.5	202	25.4	58.0	69.3
38.1 x 89.0	10.8	3.2	1-1/2 - 6	91.5	140	76.0	241	31.8	70.0	83.3
44.5 x 95.0	15.4	4.7	1-3/4 - 5	95.2	159	88.9	266	35.0	76.2	91.4
51 x 102	19.0	8.6	2 - 4-1/2	102	194	101	313	46.0	85.9	114
63.5 x 127	29.5	14.5	2-1/2 - 4	127	223	114	378	53.8	108	140

M-279 Metric

Size (mm)	Working Load Limit (t)*	Weight Each (kg.)	Dimensions (mm)							
			A** Thread	B	C	D	E	F	G	H
M6 x 13	.20	.03	M6 x 1.0	13.0	28.7	19.1	47.0	4.9	13.5	19.6
M8 x 13	.40	.05	M8 x 1.25	13.0	35.1	22.4	54.6	6.4	15.0	24.1
M10 x 17	.64	.07	M10 x 1.5	17.0	41.1	25.4	64.3	7.9	17.5	26.5
M12 x 20.5	1.0	.11	M12 x 1.75	20.5	49.5	30.2	77.7	9.7	23.1	32.8
M16 x 27	1.8	.25	M16 x 2.0	27.0	60.5	35.1	96.0	12.7	28.7	38.9
M20 x 30	2.5	.42	M20 x 2.5	30.0	70.0	38.1	108	16.0	35.1	43.4
M24 x 36	4.0	1.05	M24 x 3.0	36.0	95.5	51.0	142	22.4	46.0	58.4
M27 x 69.8	5.0	1.42	M27 x 3.0	69.8	107	57.1	183	24.6	52.3	59.7
M30 x 45	6.0	1.77	M30 x 3.5	45.0	114	63.5	171	25.4	58.0	69.3
M36 x 54	8.5	3.12	M36 x 4.0	54.0	140	76.0	207	31.8	70.0	83.3
M42 x 95.2	14.0	4.58	M42 x 4.5	95.2	159	88.9	266	35.0	76.2	91.4
M48 x 102	17.3	8.71	M48 x 5.0	102	194	101	313	46.0	85.9	114
M64 x 127	29.5	14.74	M64 x 6.0	127	223	114	378	53.8	108	140

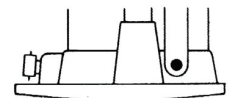
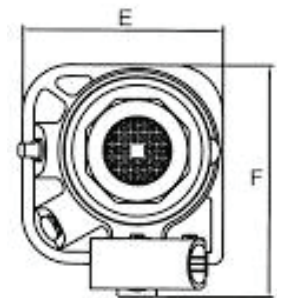
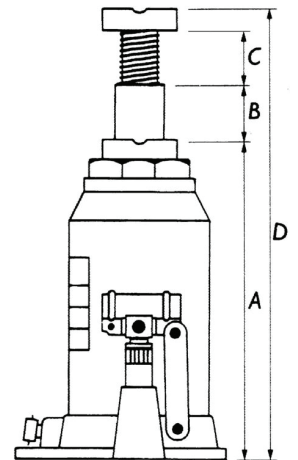


TOYO-INTL®
LIFTING STRONG AND SAFE

50

HYDRAULIC BOTTLE JACK

- Telescopic three piece zinc plated pump handle.
- Rotary pump socket. it can be operated from any position.
- Rotary carrying handle keeps retracted telescopic lever.
- Extension screw provides added lifting height.
- Safety overload valve which prevents the jack from being used beyond its rated capacity..
- Safety oil by pass system prevents the ram from being over extended and causing damage to the cylinder.
- Pump handle can be locked.
- Under demand, a gauge can be adapted to the jack.



● Rounded bottomplate

**FINE INTERNAL PROCESS, INTRENAL OIL CIRCUIT,
FINE PRODUCTION, SAFE AND RELIABLE**

PART NO.	MODEL	CAPACITY T	A MIN.H (MM)	B	C	D	NET WEIGHT (KG)
				LIFTING.H (MM)	ADJUST.H (MM)	MAX. WEIGHT (MM)	
HBJ205003	HBJ003	3	168	100	50	318	2.4
HBJ205005	HBJ005	5	179	110	60	349	2.9
HBJ205006	HBJ006	6	185	110	60	360	3.8
HBJ205008	HBJ008	8	200	125	60	360	4.8
HBJ205010	HBJ010	10	200	125	60	390	5.3
HBJ205015	HBJ015	15	225	140	60	390	6.5
HBJ205020	HBJ020	20	235	145	60	440	7.5
HBJ205025	HBJ025	25	235	145	60	440	9.3
HBJ205030	HBJ030	30	255	150	60	405	10.5
HBJ205050	HBJ050	50	225	120	60	405	18.5



TOYO

TURNBUCKLES



- Turnbuckle assembly combinations include: Eye and Eye, Hook and Hook, Hook and Eye, Jaw and Jaw & Jaw and Eye.
- End fittings are Quenched and Tempered or Normalized, bodies heat treated by normalizing.
- Hot Dip galvanized.
- Lock Nuts available for all sizes.

Size (dia.x take-up)	Average overall length with ends in closed position	Approx.unit weight(lbs)					W.L.L.(lbs)	
		eyes and /or hooks	jaw&eye	jaw&jaw	stub end	body only	hook&hook /hook&eye	E/E,J/E,J/J, stub end
1/4"X4"	8-1/4"	0.30	0.30	0.40	0.29	0.17	400	500
5/16"X4-1/2"	9-9/16"	0.50	0.35	0.58	0.46	0.25	700	800
3/8" X 6"	11-7/8"	0.75	0.82	0.93	0.75	0.3	1000	1200
1/2" X 6"	13-5/16"	1.50	1.62	1.68	1.36	0.55	1500	2200
1/2" X 9"	16-5/16"	1.75	1.82	1.85	1.69	0.74	1500	2200
1/2" x 12"	19-5/16"	2.18	2.19	2.20	2	0.93	1500	2200
5/8" X 6"	15-1/2"	2.63	2.59	2.82	2.15	0.91	2250	3500
5/8" X 9"	18-1/2"	3	3.01	3.25	2.7	1.2	2250	3500
5/8" X 12"	21-1/2"	3.25	3.50	3.75	3.22	1.5	2250	3500
3/4" X6"	17"	3.75	4.25	4.68	3.25	1.3	3000	5200
3/4" X 9"	20"	4.5	5	5.38	4	1.7	3000	5200
3/4" X 12"	23"	5.75	5.75	6.12	4.65	2.12	3000	5200
3/4" X 18"	29"	7	7.25	7.25	6.12	2.93	3000	5200
7/8" X 6"	18"	--	--	--	4.75	2	4000	7200
7/8" X 12"	24-5/8"	8.38	8.88	9.36	6.67	3	4000	7200
7/8" X 18"	30-5/8"	10.25	10.6	11.44	8.75	4.12	4000	7200
1" X 6"	20-5/8"	--	--	--	6.41	2.5	5000	10000
1" X 12"	26-5/8"	11.25	12	12.88	8.9	3.86	5000	10000
1" X 18"	32-5/8"	14	14.75	16.1	11.7	5.5	5000	10000
1" X 24"	38-5/8"	17	17.75	18.6	14.3	7	5000	10000
1-1/4" X 6"	20"	--	--	--	10.4	4	6500	15200
1-1/4" x 12"	29-7/8"	19	21.2	23.6	14.2	5.93	6500	15200
1-1/4" x 18"	35-7/8"	24.1	26	26.6	18	8	6500	15200
1-1/4" x 24"	41-7/8"	25	28.7	31.2	21.8	10	6500	15200
1-1/2" x 6"	22-1/2"	--	--	--	15.4	5.8	7500	21400
1-1/2" x 12"	32-3/8"	27	31.1	35.5	20.5	8.4	7500	21400
1-1/2" x 18"	38-3/8"	31.2	36.4	40.7	26.2	11.5	7500	21400
1-1/2" x 24"	44-3/8"	38.2	44.2	47.6	31.4	14.1	7500	21400
1-3/4" x 6"	--	--	--	--	22.7	8.75	--	28000
1-3/4" x 18"	41-3/4"	45	48.8	52.4	--	--	--	28000
1-3/4" x 24"	47-3/4"	58	60	64	43.9	19.5	--	28000
2" x 6"	--	--	--	--	31.5	12.5	--	37000
2" x 24"	51-3/4"	90	102	115	60.3	27.5	--	37000
2-1/2" x 6"	--	--	--	--	60.8	27	--	60000
2-1/2" x 24"	58-1/2"	183	180	200	110	54	--	60000
2-3/4" x 24"	61-1/2"	180	214	248	--	54	--	75000

All specifications herein are subject to change without notice



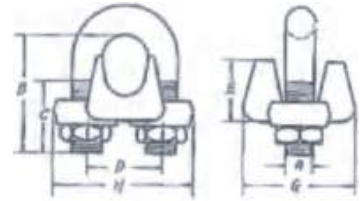


TOYO

WIRE ROPE CLIP G450

52

Model :G-450



FORGED WIRE ROPE CLIP U.S G-450 CLIP

Rope Size (in.)	Weight Per 100 (lbs)	Dimensions (mm)							
		A	B	C	D	E	F	G	H
*1/8	6	0.22	0.72	0.44	0.47	0.37	0.38	0.81	0.99
*3/16	10	0.25	0.97	0.56	0.59	0.50	0.44	0.94	1.18
1/4	19	0.31	1.03	0.50	0.75	0.66	0.56	1.19	1.43
5/16	28	0.38	1.38	0.75	0.88	0.73	0.69	1.31	1.66
3/8	48	0.44	1.50	0.75	1.00	0.91	0.75	1.63	1.94
7/16	78	0.50	1.88	1.00	1.19	1.13	0.88	1.91	2.28
1/2	80	0.50	1.88	1.00	1.19	1.13	0.88	1.91	2.28
9/16	109	0.56	2.25	1.25	1.31	1.34	0.94	2.06	2.50
5/8	110	0.56	2.25	1.25	1.31	1.34	0.94	2.06	2.50
3/4	142	0.62	2.75	1.44	1.50	1.39	1.06	2.25	2.84
7/8	212	0.75	3.12	1.62	1.75	1.58	1.25	2.44	3.16
1	252	0.75	3.50	1.81	1.88	1.77	1.25	2.63	3.47
1-1/8	283	0.75	3.88	2.00	2.00	1.91	1.25	2.81	3.59
1-1/4	438	0.88	4.44	2.22	2.31	2.17	1.44	3.13	4.13
1-3/8	442	0.88	4.44	2.22	2.38	2.31	1.44	3.13	4.19
1-1/2	544	0.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44
1-5/8	704	1.00	5.31	2.62	2.75	2.66	1.63	3.63	4.75
1-3/4	934	1.13	5.75	2.75	3.06	2.92	1.81	3.81	5.24
2	1300	1.25	6.44	3.00	3.38	3.28	2.00	4.44	5.88
2-1/4	1600	1.25	7.13	3.19	3.88	3.19	2.00	4.56	6.38
2-1/2	1900	1.25	7.69	3.44	4.13	3.69	2.00	4.05	6.63
**2-3/4	2300	1.25	8.31	3.56	4.38	4.88	2.00	5.00	6.88
3	3100	1.50	9.19	3.88	4.75	4.44	2.38	5.31	7.61
**3-1/2	4000	1.50	10.75	4.50	5.50	6.00	2.38	6.19	8.38

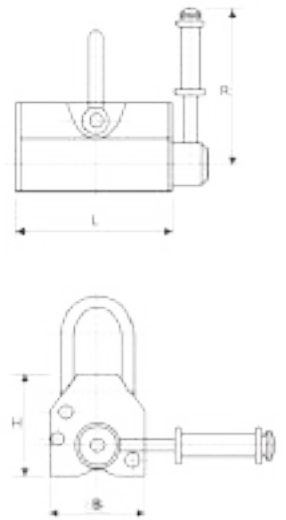
**TOYO**

PERMANENT MAGNET LIFTER

- The permanent magnet Lifter of PML Series is mainly used to magnetism plant shape or column ironware materials and workpiece.
- It is provided with the characteristics of light structure, easy operation and powerful magnetism.
- It has been widely used as the hoisting tool in factory tool In factory, dock storehouse and transportation.



Type	Rated Lifting Weight (KG)	Max pulling power (KG)	Dimensions (mm)				Net Weight (KG)
			L	B	H	R	
PML-100	100	300	135	63	75	160	3
PML-200	200	600	170	67	80	160	4
PML-300	300	900	190	92	94	215	10
PML-400	400	1200	190	92	94	215	10
PML-600	600	1800	240	120	115	240	20
PML-1000	1000	3000	300	136	138	270	35
PML-2000	2000	6000	390	160	168	368	65
PML-3000	3000	9000	480	160	168	368	82
PML-5000	5000	15000	570	230	220	490	200

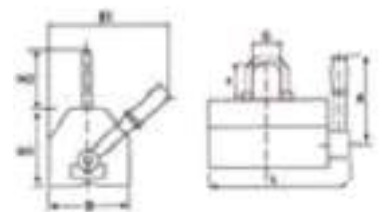


- Adopt the high performance permanent magnetic materials, strong holding force.
- The optimization of magnetic circuit design and the whole steel structure, smaller volume, lighter weight.
- The unique magnetic circuit design, the residual magnetism is almost zero.
- High safety coefficient, maximum pulled off force is 3.5 times of rated lifting force.



Model: PML-A

Model	Rated Lifting Capacity (kg)		Shape Size (mm)							Weight (KG)
	Steel Plate	Round Steel	L	B	H1	H2	R	F	G	
PML-A-100kg	100	50	137	62	66	45	119.5	31.5	21	4
PML-A-300kg	300	150	199	90	95	68	175	50	38	11
PML-A-600kg	600	300	263	115	107	78	224.5	58	42	22
PML-A-1000kg	1000	500	303	150	140	88	265.5	64	50	42
PML-A-1500kg	1500	700	348	166	156	102	335.5	76	56	64
PML-A-2000kg	2000	1000	394	175	170	102	342.5	76	56	80





PP ROPES AND NYLON ROPES



Dia (mm)	Polypropylene Rope		Polyester Rope		Polyamide (Nylon) Rope		PP + Polyester Mix Rope	
	Weight per Coil of 100 Mtrs (kg)	Minimum Breaking Strength (kgf)	Weight per Coil of 100 Mtrs (kg)	Minimum Breaking Strength (kgf)	Weight per Coil of 100 Mtrs (kg)	Minimum Breaking Strength (kgf)	Weight per Coil of 100 Mtrs (kg)	Minimum Breaking Strength (kgf)
	0.72	290	1.21	290	1.00	380	0.72	320
	1.63	610	2.73	610	2.22	820	1.63	690
	2.89	1020	4.85	1080	3.95	1430	2.90	1200
10	4.52	1530	7.58	1630	6.17	2160	4.53	1800
12	6.51	2160	10.90	2280	8.88	3060	6.52	2600
14	8.86	2850	14.90	3060	12.10	4080	8.88	3500
16	11.60	3820	19.40	4080	15.80	5100	11.60	4400
18	14.60	4590	24.60	5100	20.00	6420	14.70	5600
20	18.10	5710	30.30	6120	24.70	8160	18.10	6800
22	21.90	6830	36.70	7240	29.90	9680	21.90	8100
24	26.00	8160	43.70	8670	35.50	11420	26.10	9500
26	30.60	9170	51.20	10200	41.70	12740	30.60	10900
28	35.40	10810	59.40	12030	48.40	15290	35.50	12500
30	40.70	12000	68.20	13460	55.50	17330	40.80	14300
32	46.30	13500	77.60	15300	63.20	1370	46.40	16000
36	58.60	17300	98.20	19370	80.00	24060	58.70	19800
40	72.30	20400	121.00	24060	98.70	30580	72.50	23900
44	87.50	25500	147.00	28540	119.00	36190	87.70	28200
48	104.00	28500	175.00	34150	142.00	40780	104.00	33100
52	122.00	34150	205.00	38230	167.00	48420	122.00	38300
56	142.00	38200	238.00	43320	193.00	57090	142.00	43700
60	163.00	43300	273.00	50970	222.00	64220	163.00	49500
Production Standard	BS EN ISO 1346:2021		BS EN ISO 1141:2021		BS EN ISO 1140:2021		BS EN ISO 10572:2009	



PP ROPES AND NYLON ROPES



Dia (mm)	Circ (inches)	Polypropylene Rope		High Strength Polypropylene Rope (Danline)		Polyamide (Nylon) Rope		PP + Polyester Mix Rope	
		Weight per Coil of 100 Mtrs (kg)	Minimum Breaking Strength (kgf)	Weight per Coil of 100 Mtrs (kg)	Minimum Breaking Strength (kgf)	Weight per Coil of 100 Mtrs (kg)	Minimum Breaking Strength (kgf)	Weight per Coil of 100 Mtrs (kg)	Minimum Breaking Strength (kgf)
36	4.5	59	16300	59	22800	81	25500	72.00	23800
40	5	72	20400	72	27900	100	30600	88.50	29100
44	5.5	88	24100	88	33300	121	36200	107.00	35000
48	6	104	28500	104	39300	144	43300	127.00	41200
52	6.5	122	34200	122	45700	170	51000	150.00	48000
56	7	142	38200	142	52400	197	57100	173.00	55400
60	7.5	163	43300	163	59400	226	64200	199.00	63200
64	8	185	48400	186	67000	257	72400	227.00	71500
72	9	234	61200	235	83600	325	91700	287.00	89400
80	10	289	76500	290	101400	401	114200	354.00	109100
88	11	350	91700	351	121300	486	134600	428.00	131500
96	12	417	108100	417	142700	578	163100	510.00	155000
104	13	489	127400	490	165100	678	183500	600.00	180400
112	14	567	142700	568	191600	787	216100	690.00	208000
120	15	651	163100	652	217100	903	240600	796.00	237500
Production Standard		BS EN ISO 1346:2021		BS EN ISO 10572:2009		BS EN ISO 1140:2021		BS EN ISO 10556:2009	

- 120mm maximum length is 170 mtr. Weight are subject to $\pm$ 5% variation
- Above values are applicable only to new ropes
- Each coil is supplied with a test certificate issued by Lloyd's Register of Shipping

- Length measured under tension as per standard
- HSPP & Mix Rope as per MEG4 guidelines.



CONTAINER LIFTING LUG

Capacity 32000 - 56000 MT. The lugs serve as flexible attachment points for the transport of containers. Two types are available which can be fastened to either the "top" or to the "bottom" of the container. These container lifting lugs are offered in a set of 4 pieces.



BOTTOM LIFTING LUG



Model BOTTOM LIFTING LUG is laterlay mounted at the bottom fixing hole on the container and has a spring-loaded bolt to prevent an accidental release.



TOP LIFTING LUG



Model TOP LIFTING LUG is vertically mounted in the hole at the top of the container. Turning the LUG 90°, locks it securely in place. Transport is done with the use of a spreader beam in conjunction with wire rope, chain or textile slings making sure the load is suspended vertically.





ISO CERTIFICATES



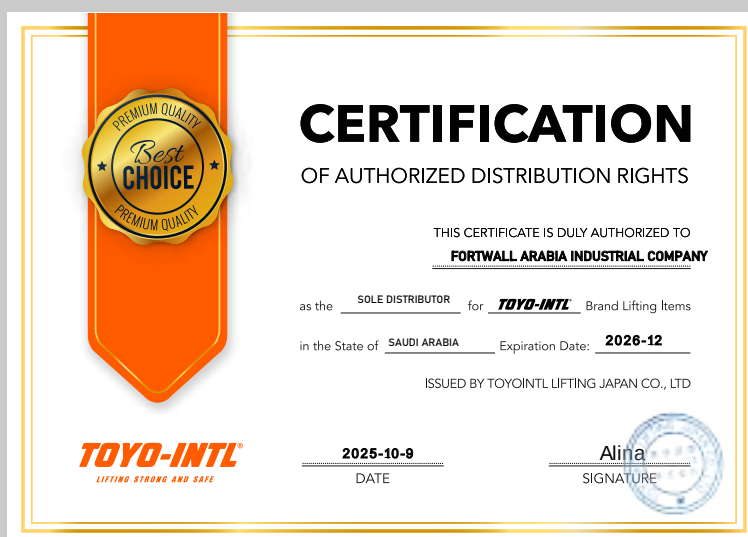


DISTRIBUTOR CERTIFICATES





DISTRIBUTOR CERTIFICATES





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