

POWERFUL
MACHINERY 普丰机械

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POWERFUL
MACHINERY 普丰机械



Reliable

Competitive

Professional

Qingdao Powerful Machinery Co., Ltd. is located in Qingdao, one of the largest port cities in China. As China's leading manufacturer of rigging, lifting, and material handling applications, Powerful Machinery delivers a diverse portfolio of products engineered to exceed the toughest demands of any industry, construction, cargo handling, towing, marine, and transportation.

Our products include welded chains, G80 and G100 lifting chains & accessories, hooks, shackles, hoist rings, master links, chain slings, turnbuckles, snatch blocks, wire rope & fittings and a host of other custom-engineered solutions: the most comprehensive portfolio in the industry.

Powerful Machinery has 20 years of export experience, with customers in dozens of countries around the world. Our products are exported to Europe, America, Southeast Asia, the Middle East, Australia, and many other regions.

At Powerful Machinery, We have a team of professionals working together to provide our customers with the best products and services. When you choose Powerful Machinery, you are guaranteed more than superior products—you are guaranteed the quality assurance that comes with a customer service team committed to exceeding end-user expectations.

At Powerful Machinery, it's not just about lifting products; it's about working with a trusted partner who is invested in your success.

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MACHINERY 普丰机械

COMPANY PROFILE

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CHAINS



CHAIN SLINGS



SINGLE LEG CHAIN SLING

SPECTRUM 8 CHAIN SIZE	MASTER LINK	MASTER LINK ASSEMBLY	MASTER LINK WITH FLAT	MASTER LINK ASSEMBLY WITH FLAT	LOK-A-LOY LINK	CHAIN COUPLER	LATCHING CLEVIS CHAIN HOOK	LATCHING EYE HOOK	SHUR-LOC EYE HOOK	SHUR-LOC CLEVIS HOOK	SHUR-LOC SWIVEL HOOK	CLEVIS SLING HOOK	CLEVIS GRAB HOOK	EYE SLING HOOK	EYE GRAB HOOK	EYE FOUNDRY HOOK
1/4	1/2	-	7/16	-	1/4	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4	1/4	1/4	1/4	1/4
5/16	5/8	-	1/2	-	5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	-	-	-	-	-
3/8	3/4	-	11/16	-	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
1/2	7/8	-	3/4	-	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
5/8	1	-	1	-	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
3/4	1-1/4	-	1-1/4	-	3/4	-	-	-	-	-	-	3/4	3/4	3/4	3/4	3/4
7/8	1-1/2	-	1-1/4	-	7/8	-	-	-	-	-	-	7/8	7/8	7/8	7/8	7/8

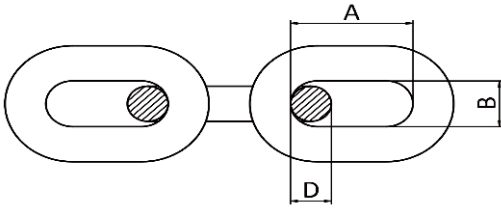
DOUBLE LEG CHAIN SLING

SPECTRUM 8 CHAIN SIZE	MASTER LINK	MASTER LINK ASSEMBLY	MASTER LINK WITH FLAT	MASTER LINK ASSEMBLY WITH FLAT	LOK-A-LOY LINK	CHAIN COUPLER	LATCHING CLEVIS CHAIN HOOK	LATCHING EYE HOOK	SHUR-LOC EYE HOOK	SHUR-LOC CLEVIS HOOK	SHUR-LOC SWIVEL HOOK	CLEVIS SLING HOOK	CLEVIS GRAB HOOK	EYE SLING HOOK	EYE GRAB HOOK	EYE FOUNDRY HOOK
1/4	1/2	-	1/2	-	1/4	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4	1/4	1/4	1/4	1/4
5/16	5/8	-	11/16	-	5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	-	-	-	-	-
3/8	3/4	-	3/4	-	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
1/2	7/8	-	7/8	-	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
5/8	1	-	1-1/8	-	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
3/4	1-1/4	-	1-1/4	-	3/4	-	-	-	-	-	-	3/4	3/4	3/4	3/4	3/4
7/8	1-1/2	-	-	-	7/8	-	-	-	-	-	-	7/8	7/8	7/8	7/8	7/8

TRIPLE AND QUADRUPLE LEG CHAIN SLING

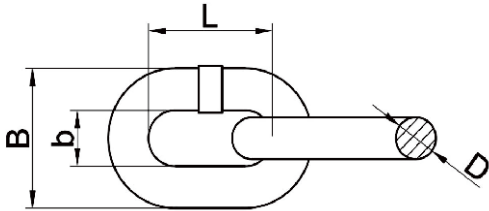
SPECTRUM 8 CHAIN SIZE	MASTER LINK	MASTER LINK ASSEMBLY	MASTER LINK WITH FLAT	MASTER LINK ASSEMBLY WITH FLAT	LOK-A-LOY LINK	CHAIN COUPLER	LATCHING CLEVIS CHAIN HOOK	LATCHING EYE HOOK	SHUR-LOC EYE HOOK	SHUR-LOC CLEVIS HOOK	SHUR-LOC SWIVEL HOOK	CLEVIS SLING HOOK	CLEVIS GRAB HOOK	EYE SLING HOOK	EYE GRAB HOOK	EYE FOUNDRY HOOK
1/4	-	3/4	-	3/4	1/4	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4	1/4	1/4	1/4	1/4
5/16	7/8	1	-	3/4	5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	1/4-5/16	-	-	-	-	-
3/8	-	1	-	7/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
1/2	-	1-1/4	-	1-1/8	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
5/8	-	1-1/2	-	1-1/4	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
3/4	-	1-3/4	-	-	3/4	-	-	-	-	-	-	3/4	3/4	3/4	3/4	3/4
7/8	-	2	-	-	7/8	-	-	-	-	-	-	7/8	7/8	7/8	7/8	7/8

DIN EN818-2 GRADE 80 LIFTING CHAINS



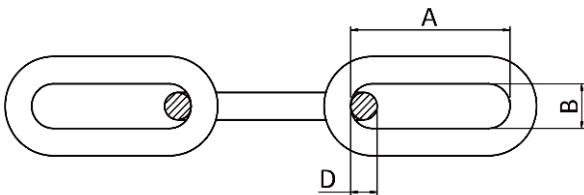
NOMINAL SIZE	INTERNAL LENGTH	INTERNAL WIDTH	WORKING LOAD LIMIT	MANUFACTURING PROOF FORCE	MIN. BREAKING FORCE	WEIGHT
D	A	B				
MM	MM	MM	TON	KN	KN	KG/M
6	18	9.0	1.1	28.3	45.2	0.802
7	21	10.0	1.5	38.5	61.6	1.083
8	24	11.5	2.0	50.3	80.4	1.416
10	30	14.5	3.2	78.5	126.0	2.216
13	39	19.0	5.3	133.0	212.0	3.749
16	48	23.5	8.0	201.0	322.0	5.571
18	54	25.0	10.0	254.0	407.0	7.154
19	57	26.0	11.2	284.0	454.0	7.773
20	60	28.0	12.5	314.0	503.0	8.641
22	66	29.5	15.0	380.0	608.0	10.391
26	78	37.0	21.2	531.0	849.0	14.640
32	96	48.0	31.5	804.0	1290.0	22.358

G100 SHORT LINK CHAIN FOR LIFTING PURPOSES



NOMINAL SIZE	INTERNAL LENGTH	EXTERNAL WIDTH	INTERNAL WIDTH	WORKING LOAD LIMIT	MANUFACTURING PROOF FORCE	MIN. BREAKING FORCE	WEIGHT
D	L	B	b				
MM	MM	MM	MM	TON	KN	KN	KG/M
5	15	16.5	6.5	1.0	24.5	39.3	0.55
6	18	21.0	9.0	1.4	35.3	56.5	0.86
7	21	24.0	10.0	1.9	48.1	77.0	1.16
8	24	27.5	11.5	2.5	62.8	101.0	1.49
10	30	34.5	14.5	4.0	98.1	157.0	2.31
13	39	45.0	19.0	6.7	166.0	265.0	3.87
16	48	55.5	23.5	10.0	251.0	402.0	5.72
18	54	61.0	25.0	12.5	318.0	509.0	7.15
19	57	64.0	26.0	14.0	354.0	567.0	7.94
20	60	68.0	28.0	16.0	393.0	628.0	8.82
22	66	73.5	29.5	19.0	475.0	760.0	10.39

G80 LONG LINK LASHING CHAINS

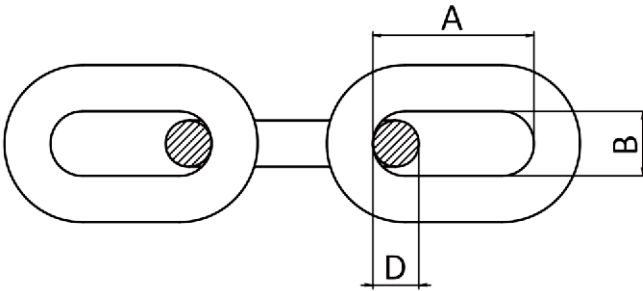


SIZE(D) (MM)	A (MM)	B (MM)	MBL TON	WEIGHT KG/M
9	57	16	10.2	1.5
11	66	18	15.4	2.1
13	80	23	21.4	3.0
16	100	26	32.0	4.4
19	100	28	45.0	6.5
20	100	30	50.0	7.3
22	120	32	60.0	8.5

US STANDARD LINK CHAINS

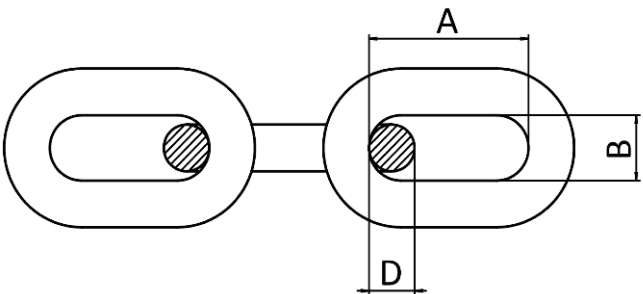


US TYPE NACM2010 PROOF COIL CHAIN (G30)



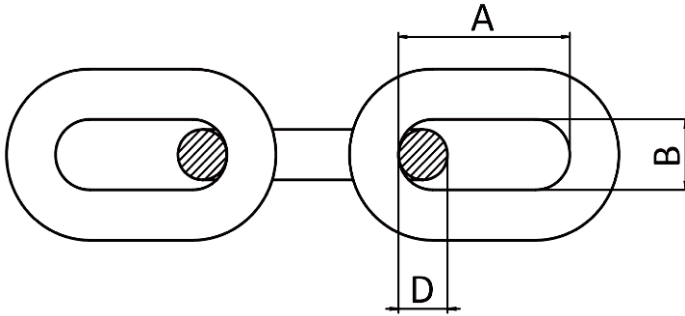
NOMINAL SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT		PROOF TEST (MIN)		BREAKING FORCE(MIN)		INSIDE LENGTH (A)		INSIDE WIDTH (B)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
4.0	1/8	4.0	0.156	180	400	3.6	800	7.2	1600	23.9	0.94	6.4	0.25
5.5	3/16	5.5	0.217	365	800	7.2	1600	14.4	3200	24.8	0.98	7.7	0.30
7.0	1/4	7.0	0.276	580	1300	11.6	2600	23.2	5200	31.5	1.24	9.8	0.38
8.0	5/16	8.4	0.331	860	1900	16.9	3800	33.8	7600	32.8	1.29	11.2	0.44
10.0	3/8	10.0	0.394	1200	2650	23.6	5300	47.2	10600	35.0	1.38	14.0	0.55
11.9	7/16	11.9	0.488	1680	3700	32.9	7400	65.8	14800	41.6	1.64	16.6	0.65
13.0	1/2	13.0	0.512	2030	4500	40.0	9000	80.0	18000	45.5	1.79	18.2	0.72
16.0	5/8	16.0	0.630	3130	6900	61.3	13800	122.6	27600	56.0	2.20	20.0	0.79
20.0	3/4	20.0	0.787	4800	10600	94.3	21200	188.6	42400	70.0	2.76	25.0	0.98
22.0	7/8	22.0	0.866	5810	12800	114.1	25600	228.2	51200	77.0	3.03	27.5	1.08
26.0	1	26.0	1.020	8140	17900	159.1	35800	318.2	71600	90.9	3.58	31.7	1.25

US TYPE NACM2010 HIGH TEST CHAIN (G43)



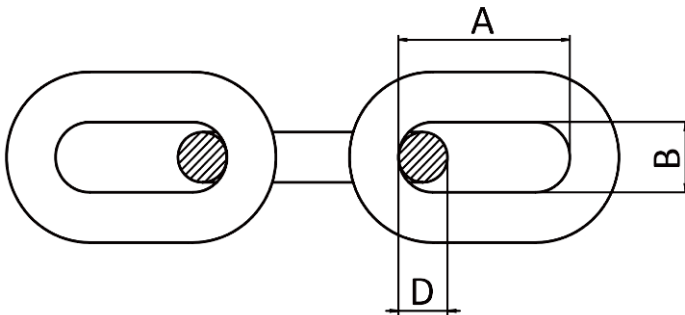
NOMINAL SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT		PROOF TEST (MIN)		BREAKING FORCE(MIN)		INSIDE LENGTH (A)		INSIDE WIDTH (B)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
7.0	1/4	7.0	0.276	1180	2600	17.3	3900	34.6	7800	31.5	1.24	9.8	0.38
8.7	5/16	8.7	0.343	1770	3900	26.0	5850	52.0	11700	32.8	1.29	11.2	0.44
10.0	3/8	10.3	0.406	2450	5400	36.0	8100	72.0	16200	35.0	1.38	14.0	0.55
11.9	7/16	11.9	0.468	3270	7200	48.0	10800	96.0	21600	41.6	1.64	16.6	0.65
13.0	1/2	13.5	0.531	4170	9200	61.3	13800	122.6	27600	45.5	1.79	18.2	0.72
16.0	5/8	16.0	0.630	5910	13000	86.5	19500	173.0	39000	56.0	2.2	20.0	0.79
20.0	3/4	20.0	0.787	9180	20200	134.7	30300	269.4	60600	70.0	2.76	25.0	0.98
22.0	7/8	22.0	0.866	11140	24500	163.3	36750	326.6	73500	77.0	3.03	27.5	1.08

US TYPE NACM2010 TRANSPORT CHAIN(G70)



NOMINAL SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT		PROOF TEST (MIN)		BREAKING FORCE MIN		INSIDE LENGTH (A)		INSIDE WIDTH (B)	
MM	IN	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
7	1/4	7.0	0.281	1430	3150	28.0	6300	56.0	12600	31.5	1.24	9.8	0.38
8.7	5/16	8.7	0.343	2130	4700	41.8	9400	83.6	18800	32.8	1.29	11.2	0.44
10	3/8	10.3	0.406	2990	6600	58.7	13200	117.4	26400	35.0	1.38	14.0	0.55
11.9	7/16	11.9	0.468	3970	8750	77.8	17500	155.4	35000	41.6	1.64	16.6	0.65
13	1/2	13.5	0.531	5130	11300	100.4	22600	200.8	45200	45.5	1.79	18.2	0.72
16	5/8	16.0	0.63	7170	15800	140.4	31600	280.8	63200	56.0	2.20	20.0	0.79
20	3/4	20.0	0.787	11200	24700	219.6	49400	439.2	98800	70.0	2.76	25.0	0.98

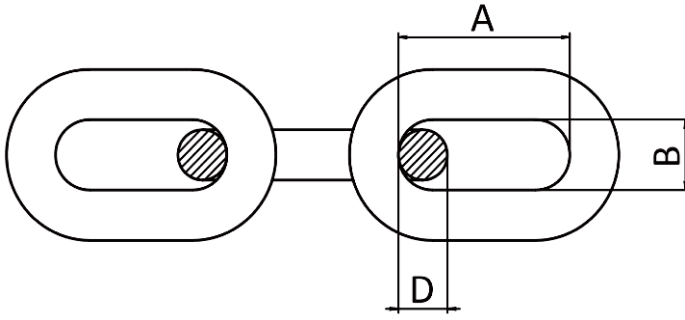
US TYPE NACM2010 ALLOY CHAIN(G80)



(FOR OVERHEAD LIFTING APPLICATIONS, ONLY ALLOY CHAIN SHOULD BE USED)

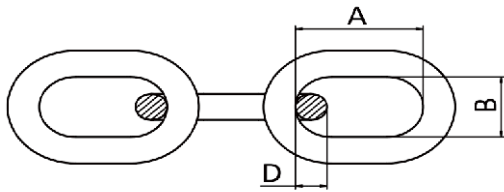
NOMINAL SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT (MAX.)		PROOF TEST (MIN)		MINIMUM BREAKING FORCE		INSIDE LENGTH(MAX) (A)		INSIDE WIDTH RANGE (B)	
IN	MM	IN	MM	LBS	KG	LBS	KN	LBS	KN	IN	MM	IN	MM
7/32	5.5	0.217	5.5	2,100	970	4,200	19.0	8,400	38.0	0.69	17.6	0.281-0.325	7.14-8.25
9/32	7.0	0.276	7.0	3,500	1,570	7,000	30.8	14,000	61.6	0.90	22.9	0.375-0.430	9.53-10.92
5/16	8.0	0.315	8.0	4,500	2,000	9,000	40.3	18,000	80.6	1.04	26.4	0.430-0.500	10.92-12.70
3/8	10.0	0.394	10.0	7,100	3,200	14,200	63.0	28,400	126.0	1.26	32.0	0.512-0.600	13.00-15.20
1/2	13.0	0.512	13.0	12,000	5,400	24,000	107.0	48,000	214.0	1.64	41.6	0.688-0.768	17.48-19.50
5/8	16.0	0.630	16.0	18,000	8,200	36,200	161.0	72,400	322.0	2.02	51.2	0.812-0.945	20.63-24.00
3/4	20.0	0.787	20.0	28,300	12,800	56,600	252.0	113,200	504.0	2.52	64.0	0.984-1.180	25.00-30.00
7/8	22.0	0.866	22.0	34,200	15,500	68,400	305.0	136,800	610.0	2.77	70.4	1.080-1.300	27.50-33.00
1	26.0	1.020	26.0	47,700	21,600	95,400	425.0	190,800	850.0	3.28	83.2	1.280-1.540	32.50-39.00
1-1/4	32.0	1.260	32.0	72,300	32,800	144,600	644.0	289,200	1288.0	4.03	102.4	1.580-1.890	40.00-48.00

US TYPE NACM2010 STAINLESS STEEL CHAIN



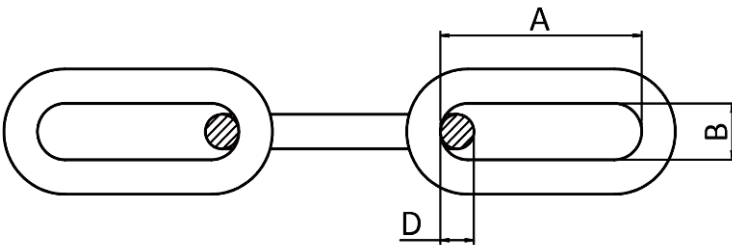
SIZE(D)		MATERIAL DIAMETER		WORKING LOAD LIMIT(MAX)		PROOF TEST(MIN)		MINIMUM BREAKING FORCE		INSIDE LENGTH (MAX)(A)		INSIDE WIDTH (MIN)(B)	
IN	MM	IN	MM	LBS	KG	LBS	KN	LBS	KN	IN	MM	IN	MM
5/32	4.0	0.156	4.0	500	230	1,000	4.5	2,000	9.0	0.94	23.9	0.25	6.4
3/16	5.0	0.197	5.0	930	420	1,860	8.3	3,720	16.6	0.98	24.8	0.30	7.7
7/32	5.5	0.218	5.5	1,200	540	2,400	10.7	4,800	21.4	0.98	24.8	0.25	6.4
1/4	6.5	0.250	6.5	1,570	710	3,140	14.0	6,280	28.0	1.24	31.5	0.30	7.7
9/32	7.0	0.276	7.0	2,000	910	4,000	17.8	8,000	35.6	1.24	31.5	0.34	8.6
5/16	8.0	0.315	8.0	2,400	1,090	4,800	21.4	9,600	42.8	1.29	32.8	0.38	9.8
3/8	10.0	0.394	10.0	3,550	1,610	7,100	31.6	14,200	63.2	1.38	35.0	0.55	14.0
7/16	12.0	0.472	12.0	5,400	2,450	10,800	48.1	21,600	96.2	1.64	41.6	0.65	16.6
1/2	13.0	0.512	13.0	6,500	2,950	13,000	58.0	26,000	116.0	1.79	45.5	0.62	15.8
5/8	16.0	0.630	16.0	9,800	4,450	19,600	87.0	39,200	174.0	2.20	56.0	0.79	20.0
3/4	20.0	0.750	20.0	15,000	6,820	30,000	134.0	60,000	268.0	2.85	72.4	0.98	55.0
1	26.0	1.000	26.0	23,250	10,570	46,500	207.0	93,000	414.0	3.58	90.0	1.25	31.7

US TYPE NACM2010 PASSING LINK CHAIN



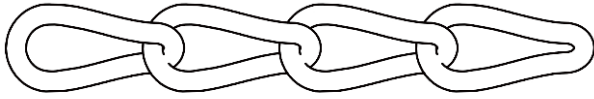
SIZE(D)		MATERIAL DIAMETER		WORKING LOAD		PROOF TEST		BREAKING LOAD		INSIDE LENGTH (A)		INSIDE WIDTH (B)	
MM	NO	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
4.9	2/0	4.9	0.192	204	450	4.00	900	8.01	1800	22.2	0.875	11.9	0.47
5.5	4/0	5.5	0.218	272	600	5.34	1200	10.68	2400	22.2	0.875	12.7	0.50

US TYPE NACM 2010 COIL STRAIGHT LINK CHAIN



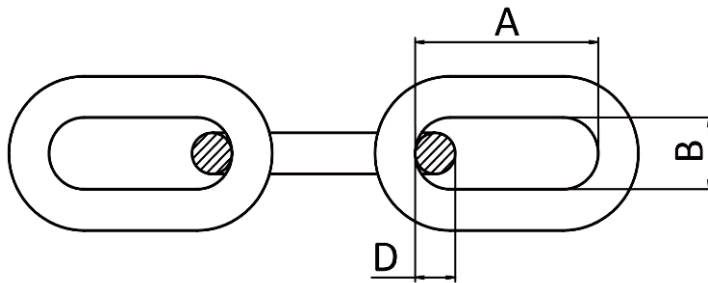
SIZE(D)		DIAMETER		WORKING LOAD		PROOF LOAD		BREAKING LOAD		INNER LENGTH (A)		INNER WIDTH (B)	
MM	NO.	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
3.0	4	3.0	0.120	93	205	1.82	410	3.64	820	28.1	1.11	5.32	0.21
3.4	3	3.4	0.135	116	255	2.27	510	4.53	1020	29.6	1.17	6.09	0.24
3.8	2	3.8	0.148	141	310	2.76	620	5.51	1240	29.9	1.18	6.59	0.26
4.1	1	4.1	0.162	168	370	3.29	740	6.58	1480	31.7	1.25	7.10	0.28
4.5	1/0	4.5	0.177	200	440	3.91	880	7.82	1760	31.7	1.25	7.86	0.31
4.9	2/0	4.9	0.192	236	520	4.63	1040	9.24	2080	31.9	1.26	8.62	0.34
5.3	3/0	5.3	0.207	274	605	5.38	1210	10.76	2420	32.9	1.30	9.13	0.36
5.5	4/0	5.5	0.218	304	670	5.96	1340	11.91	2680	35.2	1.39	9.64	0.38
6.4	5/0	6.4	0.250	399	880	7.83	1760	15.64	3520	38.5	1.52	11.2	0.44

US TYPE NACM2010 COIL TWIST LINK CHAIN



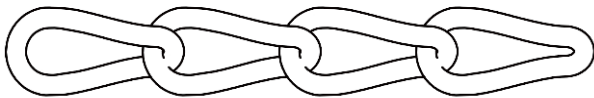
SIZE		DIAMETER		WORKING LOAD LIMIT		BREAKING LOAD		INNER LENGTH		INNER WIDTH	
MM	NO.	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN
3.0	4	3.0	0.12	88	195	3.47	780	27.6	1.09	4.56	0.18
3.4	3	3.4	0.135	109	240	4.31	970	28.9	1.14	5.32	0.21
3.8	2	3.8	0.148	134	295	5.25	1180	29.1	1.15	5.58	0.22
4.1	1	4.1	0.162	159	350	6.24	1405	30.9	1.22	6.34	0.25
4.5	1/0	4.5	0.177	188	415	7.43	1670	30.9	1.22	6.85	0.27
4.9	2/0	4.9	0.192	225	495	8.78	1975	31.4	1.24	7.36	0.29
5.3	3/0	5.3	0.207	261	575	10.23	2300	31.9	1.26	8.12	0.32
5.5	4/0	5.5	0.218	288	635	11.32	2545	34.0	1.34	8.32	0.33
6.4	5/0	6.4	0.25	379	835	14.86	3345	37.3	1.47	9.65	0.38

US TYPE NACM 2010 MACHINE STRAIGHT LINK CHAIN



SIZE(D)		DIAMETER		WORKING LOAD		PROOF LOAD		BREAKING LOAD		INNER LENGTH (A)		INNER WIDTH (B)	
MM	NO.	MM	IN	KG	LBS	KN	LBS	KN	LBS	MM	IN	MM	IN
3.0	4	3.0	0.120	98	215	1.91	430	3.82	860	14.0	0.55	5.3	0.21
3.4	3	3.4	0.135	122	270	2.40	540	4.80	1080	15.0	0.59	6.1	0.24
3.8	2	3.8	0.148	147	325	2.89	650	5.78	1300	15.5	0.61	6.6	0.26
4.1	1	4.1	0.162	177	390	3.47	780	6.93	1560	16.0	0.63	7.1	0.28
4.5	1/0	4.5	0.177	211	465	4.14	930	8.27	1860	18.8	0.74	7.9	0.31
4.9	2/0	4.9	0.192	247	545	4.85	1090	9.69	2180	19.8	0.78	8.6	0.34
5.3	3/0	5.3	0.207	288	635	5.65	1270	11.29	2540	21.6	0.85	9.1	0.36
5.5	4/0	5.5	0.218	318	700	6.23	1400	12.44	2800	25.1	0.99	9.6	0.38
6.4	5/0	6.4	0.250	420	925	8.23	1850	16.44	3700	27.2	1.07	11.2	0.44

US TYPE NACM2010 MACHINE TWIST LINK CHAIN

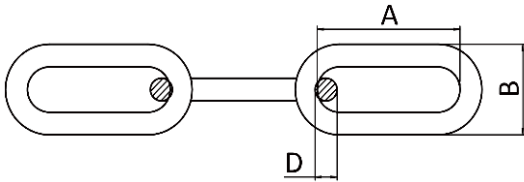


SIZE		DIAMETER		WORKING LOAD		BREAKING LOAD		INNER LENGTH		INNER WIDTH	
MM	NO.	MM	IN	KG	LBS	KN	LBS	MM	IN	MM	IN
3.0	4.0	3.0	0.120	93	205	3.64	820	13.1	0.52	4.3	0.17
3.4	3.0	3.4	0.135	116	255	4.53	1020	14.2	0.56	5.1	0.20
3.8	2.0	3.8	0.148	141	310	5.51	1240	14.7	0.58	5.3	0.21
4.1	1.0	4.1	0.162	168	370	6.58	1480	15.0	0.59	6.1	0.24
4.5	1/0	4.5	0.177	200	440	7.82	1760	17.2	0.68	6.6	0.26
4.9	2/0	4.9	0.192	236	520	9.24	2080	18.5	0.73	7.1	0.28
5.3	3/0	5.3	0.207	274	605	10.76	2420	20.3	0.8	7.9	0.31
5.5	4/0	5.5	0.218	304	670	11.91	2680	22.5	0.89	8.1	0.32
6.4	5/0	6.4	0.250	400	880	15.64	3520	25.3	1.00	9.4	0.37

DIN STANDARD LINK CHAINS

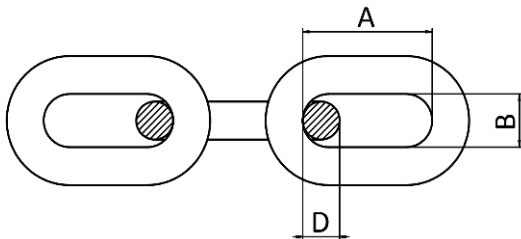


DIN 763 LINK CHAIN



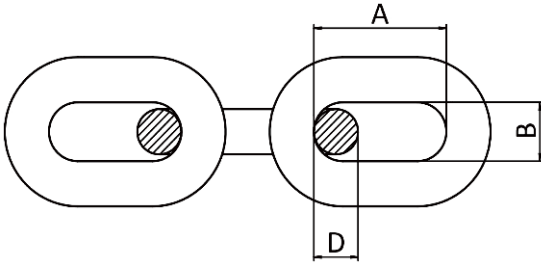
SIZE(D)		INSIDE LENGTH (A)		OUTSIDE WIDTH (B)		WORKING LOAD	TEST LOAD	BREAKING LOAD	WEIGHT PER M
MM	+ -MM	MM	+ -MM	MM	+ -MM	KG	N	N	KG
3	0.5	26	1.2	12	0.6	55	1050	3200	0.15
4		32	1.5	16	0.8	100	2000	6000	0.27
5		35	1.8	20	1.0	160	3150	10000	0.43
6		42	2.0	24	1.2	224	4500	14000	0.63
7		49	2.5	28	1.4	300	6000	18000	0.86
8		52	2.5	32	1.6	400	8000	25000	1.10
9		59	3.0	36	1.8	530	10500	32000	1.41
10	1	65	3.2	40	2.0	630	12500	40000	1.75
11		72	3.4	44	2.0	790	15800	47500	2.11
12		78	3.6	48	2.3	940	18800	56500	2.55
13		82	4.0	52	2.5	1000	21200	63000	2.95
16		100	5.0	64	3.2	1600	33000	100000	4.45
18		113	5.2	70	3.2	2120	42300	127000	5.65
19		119	5.6	72	3.4	2370	47300	142000	6.25
20		120	6.0	75	3.8	2500	50000	160000	7.00
22		127	6.0	82	4.0	3170	63300	190000	8.55
25		140	6.6	88	4.2	4090	81700	245000	10.90
28		152	7.0	96	4.7	6000	120000	300000	13.90
32		171	7.8	108	5.2	8000	160000	400000	18.20

DIN 764 LINK CHAIN



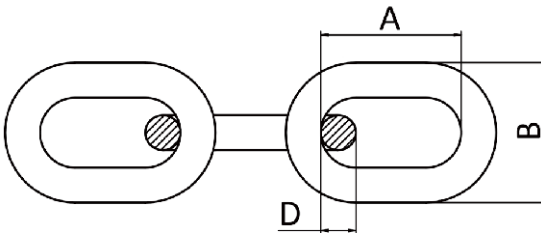
SIZE(D)		INSIDE LENGTH (A)		INSIDE WIDTH (B)	OUTSIDE WIDTH	LENGTH PER 11 LINKS		WEIGHT PER 100M	BREAKING LOAD	TEST LOAD
MM	+ -MM	MM	+ -MM	MM	MM	MM	+ -MM	KG	KN	KG
4	0.20	16	0.30 0.20	5	14.0	176	1.60 0.90	31.3	7.0	400
5	0.20	18	0.40 0.20	7	18.2	198	1.80 1.00	51.4	11.8	680
6	0.20	21	0.50 0.20	8	21.5	231	2.00 1.10	74.0	16.5	850
8	0.20	28	0.50 0.30	11	29.0	308	2.20 1.20	131.5	32.0	1680
10	0.30	35	0.60 0.30	14	36.0	385	2.70 1.50	200.0	50.0	2630
13	0.40	45	0.70 0.40	18	47.0	495	3.50 2.00	350.0	80.0	4200
16	0.50	56	0.90 0.50	22	58.0	616	4.30 2.50	520.0	125.0	6700
18	0.80	63	1.00 0.50	24	65.0	693	4.70 2.80	650.0	160.0	8400
20	1.00	70	1.10 0.60	27	72.0	770	5.40 3.20	820.0	200.0	10000
23	1.20	80	1.30 0.70	31	83.0	880	6.20 3.50	1100.0	250.0	13000
26	1.30	91	1.50 0.80	35	94.0	1001	7.00 4.00	1400.0	320.0	16000

DIN 766 LINK CHAIN



SIZE (D)		INSIDE LENGTH (A)			INSIDE WIDTH (B)	OUTSIDE WIDTH	LENGTH PER 11 LINKS			WEIGHT PER M
MM	+MM	MM	+MM	-MM	MM	MM	MM	+MM	-MM	KG
2	0.2	12.0	0.2	0.20	3.5	7.5	132	1.0	0.5	0.07
3	0.2	16.0	0.2	0.20	4.2	11.0	176	1.4	0.7	0.16
4	0.2	16.0	0.3	0.20	5.0	13.7	176	2.1	1.1	0.32
5	0.2	18.5	0.4	0.20	6.0	17.0	203.5	2.4	1.2	0.50
6	0.2	18.5	0.4	0.20	7.2	20.2	203.5	2.4	1.2	0.80
7	0.3	22.0	0.4	0.20	8.4	23.8	242	3.0	1.4	1.10
8	0.3	24.0	0.4	0.20	9.6	27.2	264	3.2	1.5	1.40
9	0.4	27.0	0.5	0.30	10.8	30.6	297	3.6	1.8	1.80
10	0.4	28.0	0.5	0.30	12.0	34.0	308	3.7	1.9	2.20
11	0.4	31.0	0.5	0.30	13.2	37.4	341	4.0	2.0	2.70
12	0.3	36.0	0.6	0.30	14.4	40.8	396	4.4	2.2	3.10
13	0.5	36.0	0.6	0.30	15.6	44.2	396	4.6	2.4	3.80
14	0.6	41.0	0.7	0.40	16.8	47.6	451	5.4	2.7	4.40
16	0.6	45.0	0.8	0.40	19.2	54.4	495	6.0	3.0	5.70
18	0.9	50.0	0.8	0.40	21.6	61.2	550	6.6	3.3	7.30
19	0.4	53.0	0.9	0.40	22.8	64.6	583	7.0	3.7	7.97
20	1.0	56.0	1.0	0.50	24.0	68.0	616	7.4	3.7	9.00
23	1.2	64.0	1.1	0.50	27.6	78.2	704	8.4	4.2	12.00
26	1.3	73.0	1.2	0.60	31.2	88.4	803	9.6	4.8	15.00
28	1.4	78.0	1.3	0.65	33.8	95.2	858	10.2	5.1	18.00
30	1.5	84.0	1.4	0.70	41.0	102.0	924	11.0	5.5	19.50
32	1.6	90.0	1.5	0.75	43.0	108.8	990	11.8	5.9	23.00

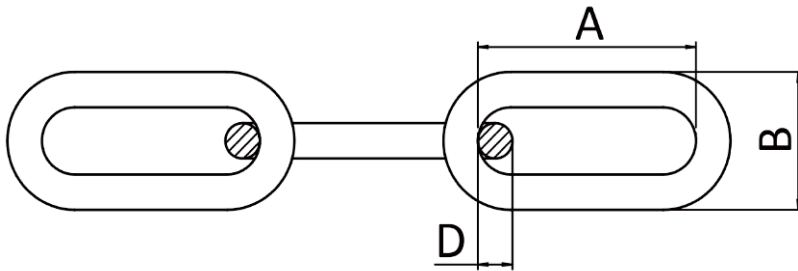
DIN 5685 A/C SHORT/LONG LINK CHAIN



SIZE (D)	INSIDE LENGTH (A)	OUTSIDE WIDTH (B)	WEIGHT PER 100M	WORKING LOAD	BREAKING LOAD	GRADE
MM	MM	MM	KG	N	N	
2.0	12	8	7	500	1250	A
	22		6			C
2.5	14	10	11	750	2000	A
	24		10			C
3.0	16	12	16.5	1120	2800	A
	26		15			C
4.0	19	16	30	2000	5000	A
	32		27			C
5.0	21	20	50	3150	7750	A
	35		43			C
6.0	24	24	73	4500	11500	A
	42		63			C
7.0	28	28	100	6000	15000	A
	49		86			C
8.0	32	32	130	8000	20000	A
	52		110			C
9.0	36	36	165	10000	25000	A
	59		141			C
10.0	40	40	205	12500	31000	A
	65		175			C
11.0	44	44	250	15000	38000	A
	72		211			C
12.0	48	48	290	18000	45000	A
	78		255			C
13.0	52	52	345	21200	53000	A
	82		295			C

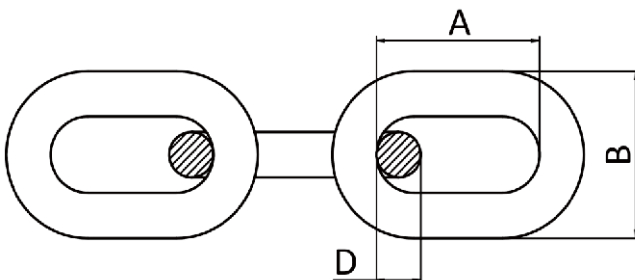


UK TYPE LONG LINK CHAIN



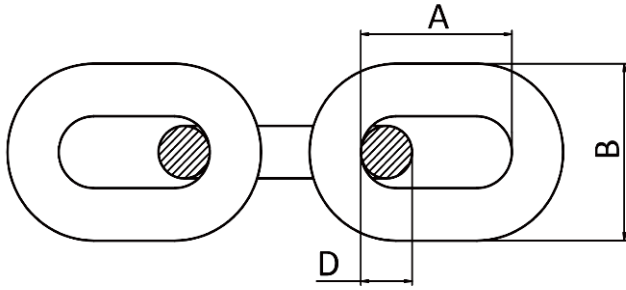
LINK SPECIFICATION				TEST LOAD	BREAKING LOAD	NET WT PER 200FT(KG)	
D		A	B				
IN	MM	MM	MM	KG	KG	B.F.	H.D.G.
1/8	3.20	23	12.0	200	400	10.40	10.70
5/32	4.00	27	15.0	300	600	16.60	17.50
3/16	4.70	31	17.0	400	800	22.40	23.30
7/32	5.50	32	19.0	550	1100	32.00	33.00
1/4	6.35	33	21.0	750	1500	43.50	44.80
5/16	7.94	48	31.0	1200	2400	68.00	70.00
3/8	9.50	60	37.0	1700	3400	96.00	99.00
7/16	11.11	71	41.0	2300	4600	126.00	129.00
1/2	12.70	85	48.5	3000	6000	167.00	172.00
5/8	15.80	114	61.5	4700	9400	256.00	264.00
3/4	19.00	125	75.0	6800	13600	381.00	392.00
7/8	22.20	140	88.0	9250	18500	527.00	543.00
1	25.40	155	100.0	12150	24300	696.00	716.00

UK TYPE MEDIUM LINK CHAIN



LINK SPECIFICATION				TEST LOAD	BREAKING LOAD	NET WT PER 200FT(KG)	
D		A	B				
IN	MM	MM	MM	KG	KG	B.F.	H.D.G.
1/8	3.20	20	12.0	200	400	10.40	11.00
5/32	4.00	23	15.0	300	600	17.40	18.00
3/16	4.70	25	18.0	400	800	24.40	25.00
7/32	5.50	26	19.0	550	1100	34.00	35.00
1/4	6.35	26	23.0	750	1500	48.80	50.00
5/16	7.94	32	29.0	1200	2400	76.00	78.00
3/8	9.50	35	35.0	1700	3400	111.00	114.00
7/16	11.11	38	38.0	2300	4600	154.00	158.00
1/2	12.70	50	45.5	3000	6000	194.00	200.00
5/8	15.80	60	56.7	4700	9400	303.00	312.00
3/4	19.00	76	69.0	6800	13600	432.00	445.00
7/8	22.20	90	80.0	9250	18500	586.00	603.00
1	25.40	105	95.0	12150	24300	770.00	792.00

UK TYPE SHORT LINK CHAIN

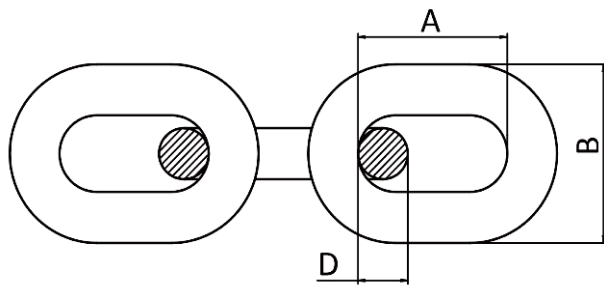


LINK SPECIFICATION				TEST LOAD	BREAKING LOAD	NET WT PER 200FT(KG)	
D	A	B					
IN	MM	MM	MM	KG	KG	B.F.	H.D.G.
1/8	3.20	16.0	12.0	200	400	11.40	11.74
5/32	4.00	18.5	14.5	300	600	18.60	19.00
3/16	4.70	19.0	17.0	400	800	26.20	27.00
7/32	5.50	20.0	19.0	550	1100	36.80	38.00
1/4	6.35	22.0	21.0	750	1500	50.00	51.50
5/16	7.94	26.0	26.0	1200	2400	80.00	82.40
3/8	9.50	28.0	32.0	1700	3400	122.00	125.70
7/16	11.11	33.0	36.0	2300	4600	164.00	169.00
1/2	12.70	39.0	43.0	3000	6000	210.00	216.00
5/8	15.80	45.0	53.0	4700	9400	334.00	344.00
3/4	19.00	55.0	63.0	6800	13600	485.00	499.00
7/8	22.20	64.0	74.0	9250	18500	656.00	675.00
1	25.40	73.0	84.0	12150	24300	870.00	896.00

AUSTRALIAN STANDARD LINK CHAINS

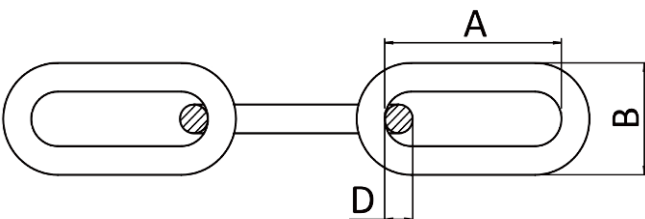


AUSTRALIAN STANDARD GRADE 70 CHAIN



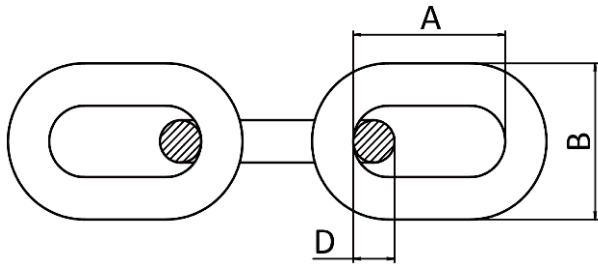
CHAIN SIZE	LINK DIMENSION			WEIGHT PER M	LENGTH PER 500KG	BREAKING STRENGTH
	D	A	B			
MM	MM	MM	MM	KG	KG	KN
6	6.3	18.9	22.05	0.88	568	44.1
7	7.1	21.3	24.85	1.12	446	55.9
7.3	7.3	24.0	26.6	1.16	430	58.9
8	8.0	24.0	28.0	1.43	350	73.6
10	10.0	30.0	35.0	2.23	224	118.0
13	13.0	39.0	45.5	3.75	133	176

AUSTRALIAN STANDARD LONG LINK CHAIN



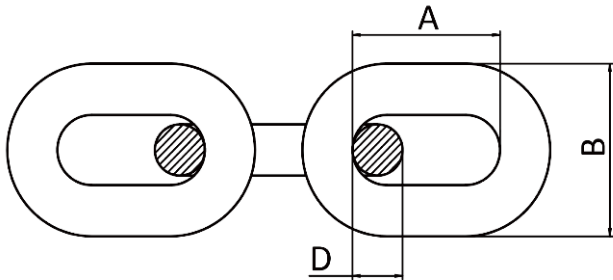
CHAIN SIZE	W.L.L	LINK DIMENSION			LENGTH PER 100KG	
		D	A	B	B.F.	H.D.G.
MM	MT	MM	MM	MM	M	M
5	0.190	5.00	29.3	21.8	217.0	206.0
6	0.320	6.30	34.5	26.1	135.0	128.0
8	0.530	8.00	41.2	31.9	82.2	78.1
10	0.830	10.00	49.0	38.7	52.9	50.2

AUSTRALIAN STANDARD MEDIUM LINK CHAIN



CHAIN SIZE	W.L.L	LINK DIMENSION			LENGTH PER 100KG	
		D	A	B	B.F.	H.D.G.
MM	MT	MM	MM	MM	M	M
3	0.06	3.15	15.7	13.1	511.0	498.0
4	0.11	4.00	18.6	16.0	320.0	305.0
5	0.19	5.00	22.0	19.4	203.0	193.0
6	0.32	6.30	26.1	23.5	129.0	120.0
8	0.53	8.00	32.2	29.5	77.8	74.1
10	0.83	10.0	39.1	36.2	48.5	47.1
12	1.35	12.0	46.0	44.0	34.0	33.3
13	1.50	13.0	49.1	46.1	29.7	27.7
16	2.31	16.0	59.6	56.5	20.2	18.2
20	3.67	20.0	73.3	70.0	12.3	11.6
24	5.31	24.0	87.0	83.6	8.5	8.04

AUSTRALIAN STANDARD SHORT LINK CHAIN

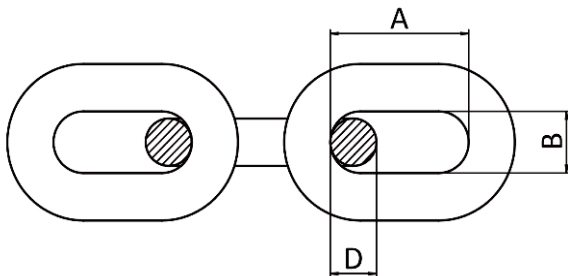


CHAIN SIZE	W.L.L	LINK DIMENSION			LENGTH PER 100KG	
		D	A	B	B.F.	H.D.G.
MM	MT	MM	MM	MM	M	M
6	0.32	6.3	18.9	21.5	114.0	108
8	0.53	8.0	24.0	27.5	70.5	67.0
10	0.83	10.0	29.5	33.5	45.2	42.9
12	1.50	12.5	37.5	40.6	29.5	28.0
16	2.31	16.0	47.0	54.0	17.6	16.7

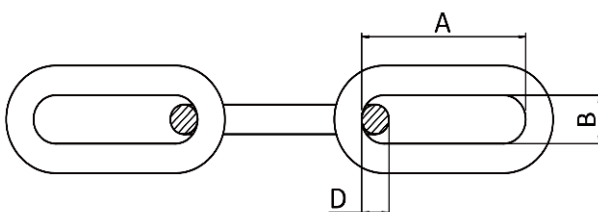
KOREAN STANDARD LINK CHAINS

KOREAN STANDARD LINK CHAIN

SHORT LINK



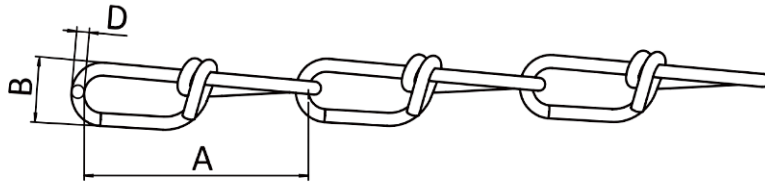
LONG LINK



NOMINAL SIZE(D)		MATERIAL SIZE	INSIDE LENGTH(A)	INSIDE WIDTH(B)	LENGTH PER PC	WEIGHT PER PC
MM		MM	MM	MM	M	KG
SHORT LINK	3	3.0	23.0	5.3	30	4.50
	4	4.0	22.0	7.5	30	9.00
	5	4.8	23.7	8.3	30	12.74
	6	5.8	27.3	10.0	30	18.86
	7	7.0	31.0	12.0	15	14.14
	8	7.8	35.0	13.7	15	17.23
	9	8.8	39.0	15.2	15	22.13
	12	12.0	38.0	18.0	15	45.00
	15	15.0	45.0	23.0	15	75.45
	16	16.0	53.0	23.0	15	76.41
LONG LINK	19	19.0	58.0	25.0	10	78.28
	4	3.9	34.3	6.2	30	7.26
	4.5	4.5	44.4	9.2	30	9.46
	5	4.8	45.0	11.0	30	11.31
	6	6.0	47.0	12.0	30	18.00
	7	6.8	50.0	11.4	15	11.19
	12	12.0	50.0	18.0	15	42.00
	15	14.8	64.0	23.0	15	61.44
19	19.0	75.0	25.0	10	71.00	

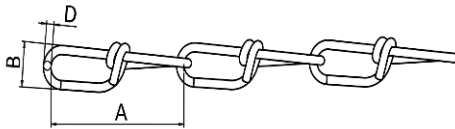
WELDLESS CHAINS

DIN5686 DOUBLE LOOP CHAIN



NO.	DIAMETER(D)	INSIDE LENGTH(A)	OUTSIDE WIDTH(B)	BREAKING LOAD	WEIGHT PER 100M
	MM	MM	MM	KG	KG
14	1.4	20.0	6.5	16	4.2
16	1.6	23.0	7.0	22	6.0
20	1.8	26.5	8.0	30	7.3
22	2.0	28.0	9.0	40	9.0
25	2.2	31.0	10.0	50	11.0
27	2.5	35.0	11.0	70	14.0
30	2.8	39.0	12.5	90	17.0
32	3.1	41.0	14.0	120	21.0
35	3.4	44.0	15.5	140	26.0
40	3.8	46.0	17.0	160	34.0
45	4.2	52.0	19.0	170	41.0
50	4.6	58.0	20.5	180	50.0
55	5.0	60.0	22.5	190	57.0

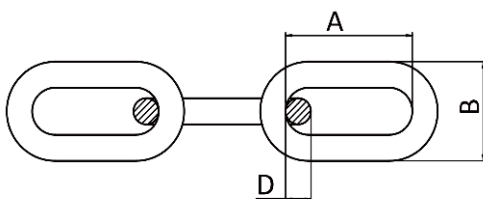
US TYPE NACM2010 DOUBLE LOOP CHAIN



ITEM NO	DIAMETER(D)	INSIDE LENGTH(A)	OUTSIDE WIDTH(B)	WEIGHT PER 100FT
	MM	MM	MM	KG
5	1.6	23.37	7.0	1.8
4	1.8	25.40	8.0	2.2
3	2.0	27.94	9.0	3.0
2	2.3	33.78	10.0	3.5
1	2.7	39.12	12.0	4.5
1L	2.7	51.56	12.0	4.2
1/0	3.0	45.21	14.0	5.7
1/0L	3.0	56.90	14.0	5.2
2/0	3.4	46.23	15.5	7.5
2/0L	3.4	56.90	15.5	7.0
3/0	3.8	55.12	17.0	9.4
4/0	4.1	55.63	19.0	11.0
6/0	4.9	73.78	21.0	15.7

PLASTIC CHAINS

PLASTIC CHAINS



SIZE D (MM)	INNER LENGTH A (MM)	OUTER WIDTH B (MM)	WEIGHT KG/M	SECTION
2	10	7	0.009	ROUND
3	13	11	0.020	ROUND
4	19	16	0.030	ROUND
6	25	22	0.065	ROUND
	27	20	0.060	FLAT
8	38	27	0.110	FLAT
	34	25	0.090	FLAT
10	50	38	0.200	ROUND
12	67	40	0.285	ROUND

ANCHOR CHAINS

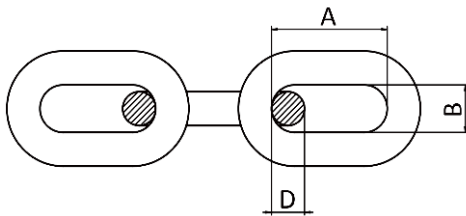


TESTING LOAD OF STUDLESS LINK ANCHOR CHAIN



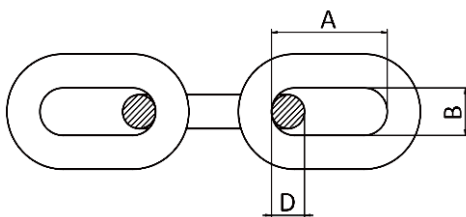
DIA.	BM1 (KN)		BM2 (KN)		BM3 (KN)		WEIGHT KG/M
	BREAKING LOAD	PROOF LOAD	BREAKING LOAD	PROOF LOAD	BREAKING LOAD	PROOF LOAD	
16.0	94.72	47.10	132.30	66.20	184.83	92.42	5.56
17.5	113.31	56.35	157.78	78.89	221.10	110.55	6.65
19.0	133.57	66.42	187.20	93.60	260.64	130.32	7.83
20.5	155.49	77.33	217.27	108.64	303.42	151.70	9.12
22.0	179.08	89.06	250.90	125.40	349.40	174.70	10.50
24.0	213.25	105.98	298.90	149.90	415.80	207.90	12.50
26.0	250.12	124.38	350.80	175.40	488.00	244.00	14.67
28.0	290.08	144.26	406.70	203.80	566.00	283.00	17.00
30.0	333.00	165.60	467.50	234.20	649.80	324.90	19.50
32.0	378.88	188.42	531.20	265.60	739.30	369.60	22.22
34.0	427.72	212.70	599.80	299.90	834.60	417.30	25.08
36.0	479.52	238.46	672.30	336.10	935.70	467.80	28.12
38.0	534.28	265.70	748.70	374.40	1042.50	521.30	31.33
40.0	592.00	294.40	829.10	414.50	1155.20	577.60	34.72
42.0	652.68	324.58	915.30	457.70	1273.60	636.80	38.28
44.0	716.32	356.22	999.60	502.70	1397.80	698.90	42.01
46.0	782.92	389.34	1097.60	548.80	1527.80	763.90	45.92
48.0	852.48	423.94	1195.60	597.80	1663.50	831.70	50.00
50.0	926.09	460.00	1293.60	648.80	1805.00	902.50	54.25

LOG BOOM CHAIN



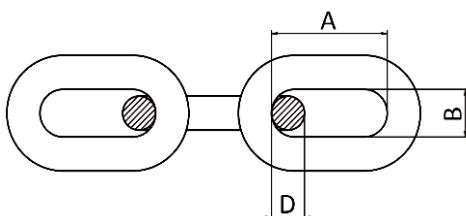
SIZE(D) INCH	A (MM)	B (MM)	MBL (LBS)	WEIGHT (KG/M)
3/4" x 7'	75.0	32	55000	19.68
3/4" x 7'	75.0	32	75000	19.68
3/4" x 9'	75.0	32	75000	25.10
7/8" x 7'	90.5	38	80000	23.21
1" x 7'	98.5	39	90000	29.29

BARGE CHAIN



SIZE(D) INCH	A (MM)	B (MM)	MBL (LBS)	WEIGHT (KG/PC)
1" x 6links	127	51	80000	9
1" x 8links	127	51	80000	12

DOCK FENDER CHAIN



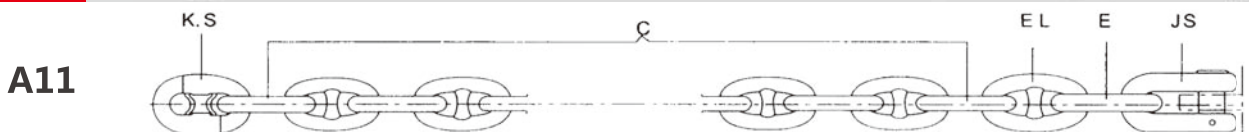
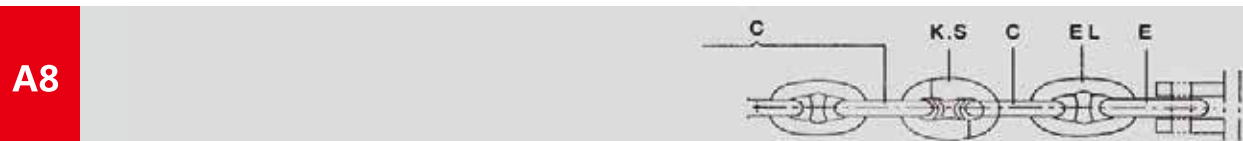
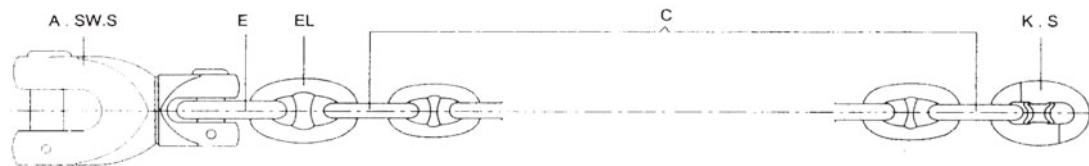
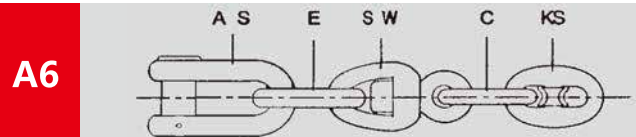
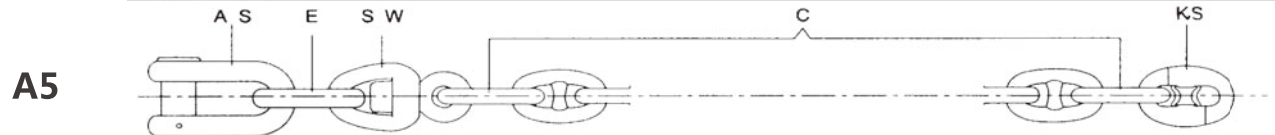
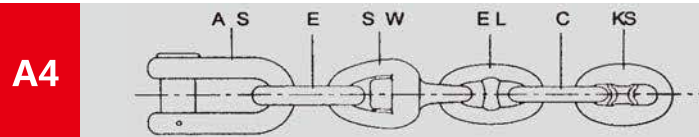
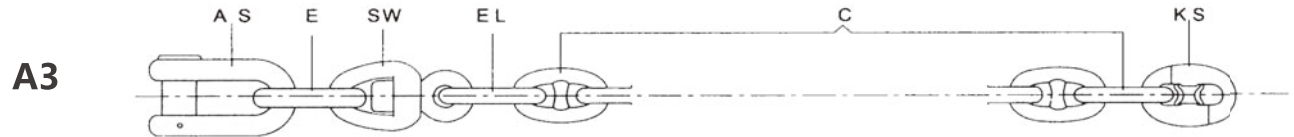
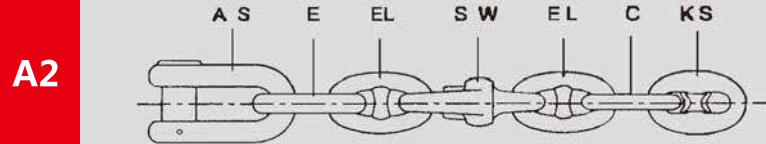
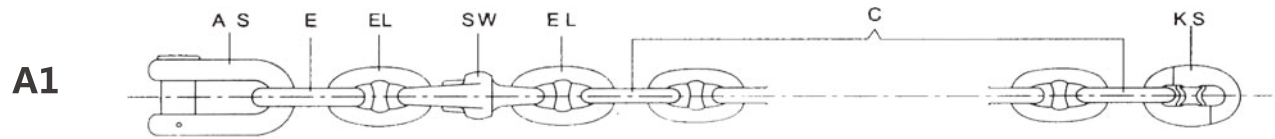
SIZE(D) INCH	A (MM)	B (MM)	MBL (LBS)	WEIGHT (KG/M)
1/2"	79.36	25.40	39000	3.0
5/8"	90.00	28.00	58000	4.6
3/4"	102.00	31.75	62000	6.6
1"	127.00	51.00	85000	11.8

TESTING LOAD OF STUD LINK ANCHOR CHAIN

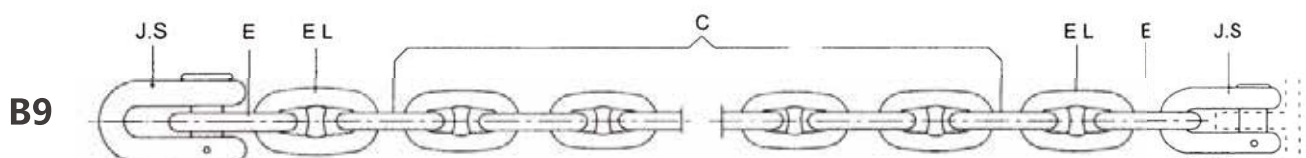
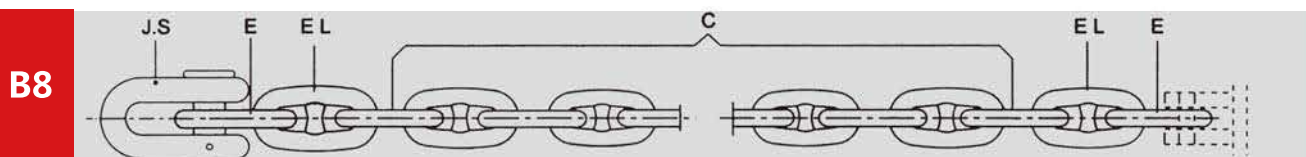
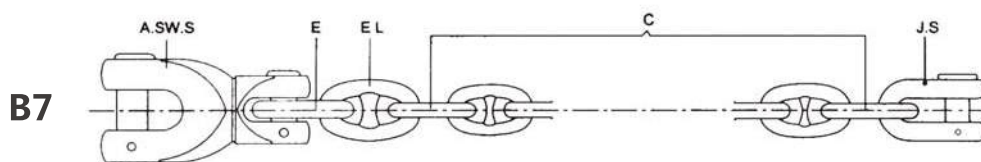
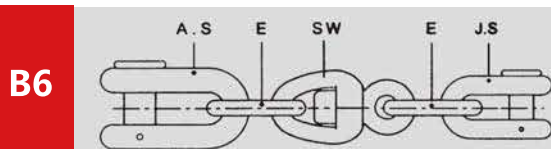
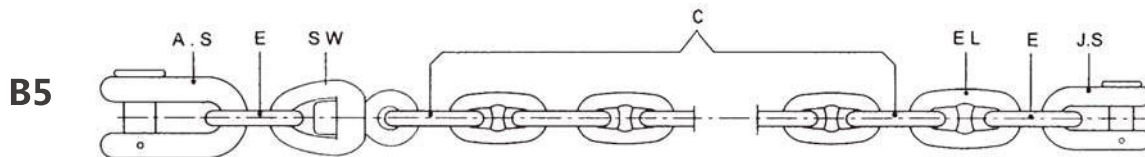
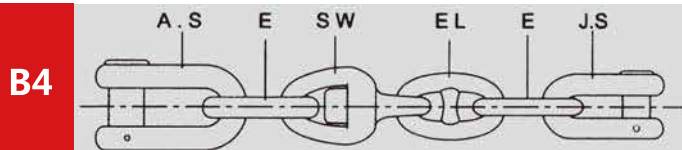
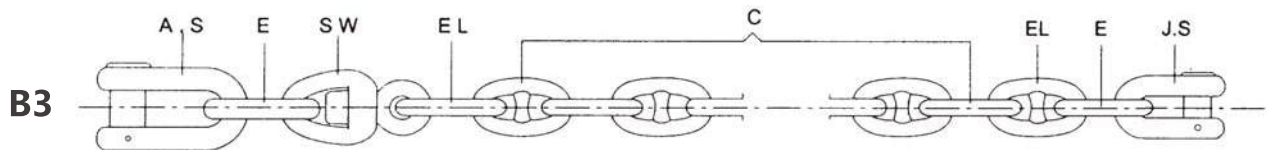
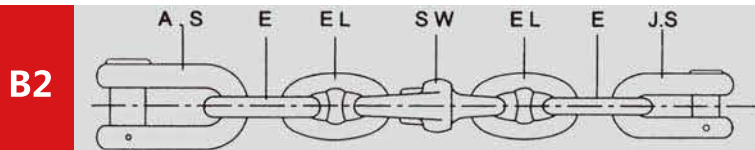
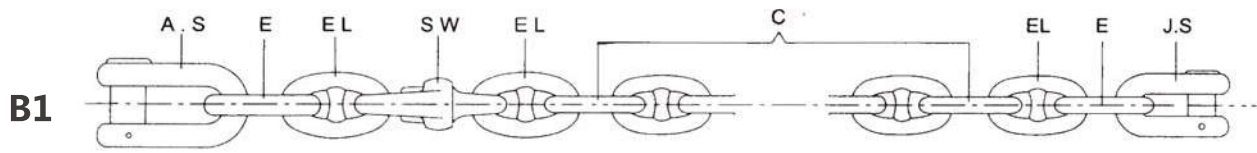


DIA. MM	PROOF LOAD (KN)			BREAKING LOAD (KN)			WEIGHT KG/27.5M
	AM1	AM2	AM3	AM1	AM2	AM3	
17.5	89	127	179	127	179	256	194
19.0	105	150	211	150	211	301	236
20.5	123	175	244	175	244	349	269
22.0	140	200	280	200	280	401	322
24.0	167	237	332	237	332	476	370
26.0	194	278	389	278	389	556	431
28.0	225	321	449	321	449	642	496
30.0	257	368	514	368	514	735	564
32.0	291	417	583	417	583	833	635
34.0	328	468	655	468	655	937	712
36.0	366	523	732	523	732	1050	800
38.0	406	581	812	581	812	1160	887
40.0	448	640	896	640	896	1280	1032
42.0	492	703	981	703	981	1400	1084
44.0	538	769	1080	769	1080	1540	1197
46.0	585	837	1170	837	1170	1680	1310
48.0	635	908	1270	908	1270	1810	1438
50.0	686	981	1370	981	1370	1960	1546
52.0	739	1060	1480	1060	1480	2110	1661
54.0	794	1140	1590	1140	1590	2270	1791
56.0	851	1220	1710	1220	1710	2430	1926
58.0	909	1290	1810	1290	1810	2600	2086
60.0	969	1380	1940	1380	1940	2770	2249
62.0	1030	1470	2060	1470	2060	2940	2361
64.0	1100	1560	2190	1560	2190	3130	2516
66.0	1160	1660	2310	1660	2312	3300	2676
68.0	1230	1750	2450	1750	2450	3500	2885
70.0	1290	1840	2580	1840	2580	3690	3010
73.0	1390	1990	2790	1990	2790	3990	3274
76.0	1500	2150	3010	2150	3010	4300	3548
78.0	1580	2260	3160	2260	3160	4500	3737
81.0	1690	2410	3380	2410	3380	4820	4030
84.0	1800	2580	3610	2580	3610	5160	4334
87.0	1920	2750	3850	2750	3850	5500	4650
90.0	2050	2920	4090	2920	4090	5840	4976
92.0	2130	3040	4260	3040	4260	6080	5199
95.0	2260	3230	4510	3230	4510	6440	5544
97.0	2340	3340	4680	3340	4680	6690	5780
100.0	2470	3530	4940	3530	4940	7060	6143
102.0	2560	3660	5120	3660	5120	7320	6398
105.0	2700	3850	5390	3850	5390	7700	6773
107.0	2790	3980	5570	3980	5570	7960	7033
111.0	2970	4250	5940	4250	5940	8480	7569
114.0	3110	4440	6230	4440	6230	8890	7983
117.0	3260	4650	6510	4650	6510	9300	8409
120.0	3400	4850	6810	4850	6810	9720	8863
122.0	3500	5000	7000	5000	7000	9990	9143
124.0	3600	5140	7200	5140	7200	10280	9598
127.0	3750	5350	7490	5350	7490	10710	9908
130.0	3900	5570	7800	5570	7800	11140	10382

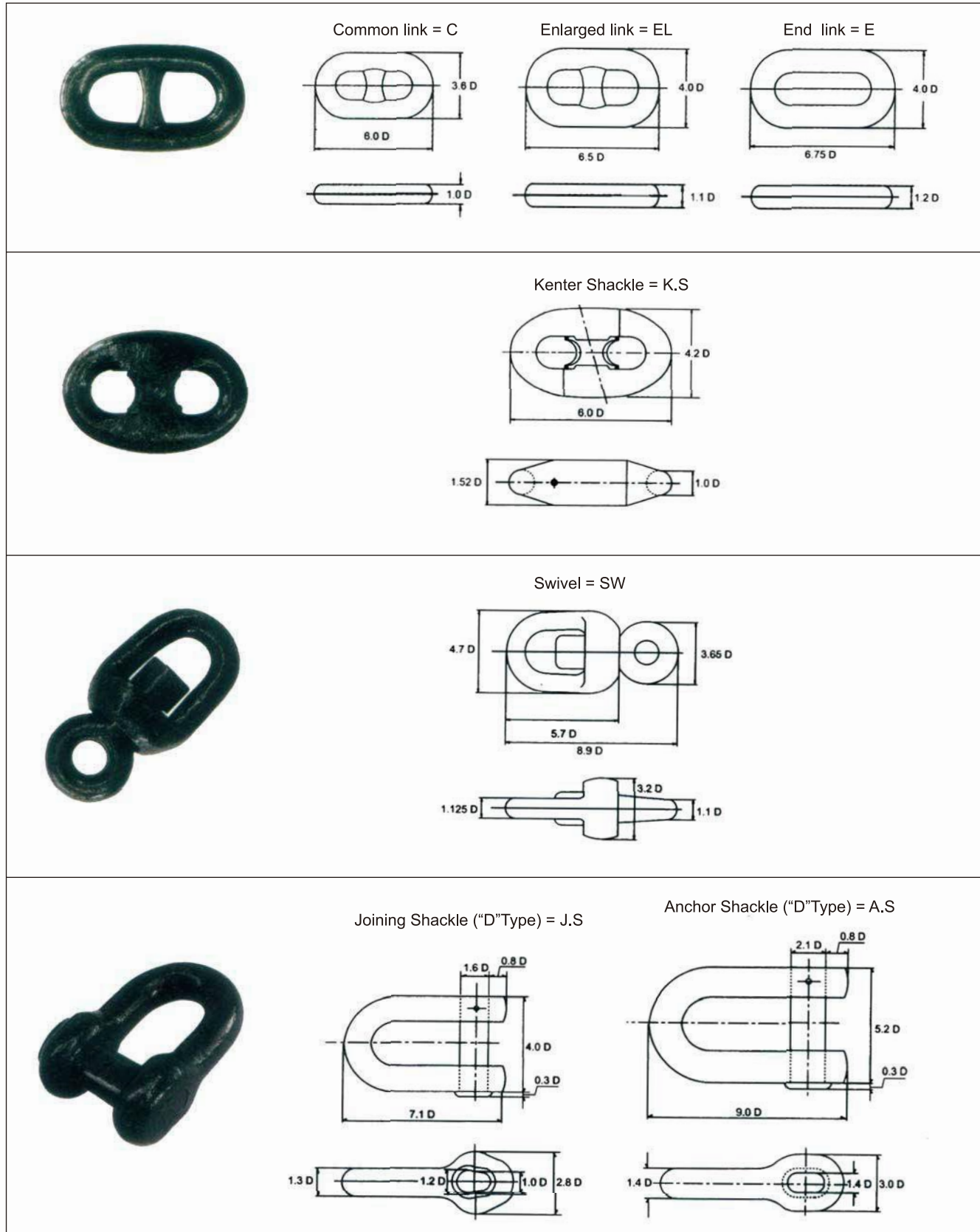
A. JOINING FORM FOR K.S



B. JOINING FORM FOR "D" J.S



DETAILS

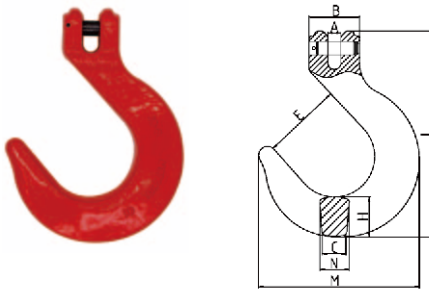


HARDWARE ACCESSORIES



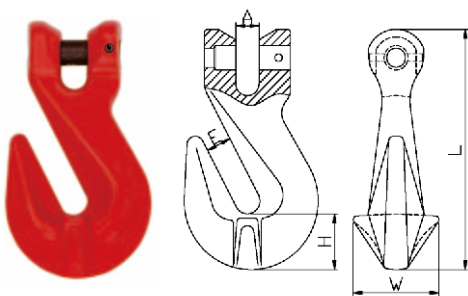


G80 CLEVIS FOUNDRY HOOK



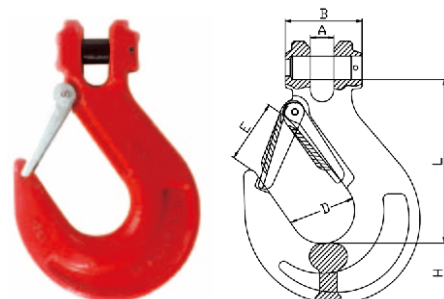
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)							
MM	KG/PC	TON	TON	A	B	M	E	C	N	H	L
7/8	1.1	2.0	8.0	9.5	37	128	63.4	18	18	31.5	161
10	2.5	3.15	12.6	13.0	49	156	76.9	23	32	38.0	199

G80 CLEVIS GRAB HOOK WITH WINGS



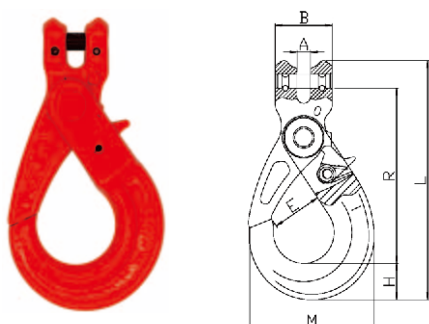
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)				
MM	KG/PC	TON	TON	E	A	H	W	L
6	0.25	1.12	4.48	8	8	18	22	77
7/8	0.32	2.00	8.00	11	10	19	34	89
10	0.73	3.15	12.60	13	13	29	46	126
13	1.60	5.30	21.20	17	15	43	58	164
16	2.80	8.00	32.00	19	19	45	74	184
20	5.00	12.50	50.00	24	23	56	74	219
22	6.30	15.00	60.00	27	27	69	90	254
26	14.50	21.20	84.80	30	30	77	102	309

G80 CLEVIS SLING HOOK WITH LATCH



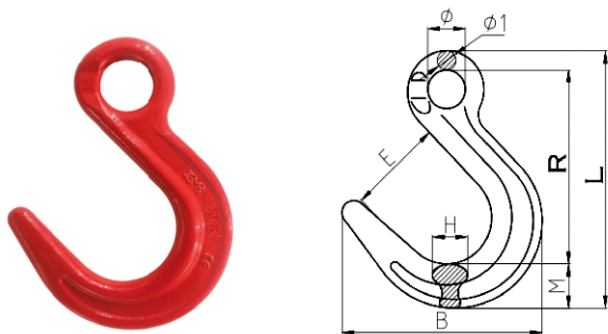
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)					
MM	KG/PC	TON	TON	A	B	D	H	L	E
6	0.32	1.12	4.48	8	32	35	23	76	26
7/8	0.48	2.00	8.00	10	37	37	25	86	29
10	0.95	3.15	12.60	13	49	46	31	104	39
13	1.80	5.30	21.20	17	56.5	56	43	128	48
16	3.40	8.00	32.00	22	71	60	54	150	56
20	6.00	12.50	50.00	24	77	79	58	180	59
22	10.40	15.00	60.00	26	91	101	62	213	72
26	14.50	21.20	84.80	30	117	115	75	250	101
32	27.00	31.50	126.00	35	150	140	88	317	124

G80 CLEVIS SELF-LOCKING HOOK



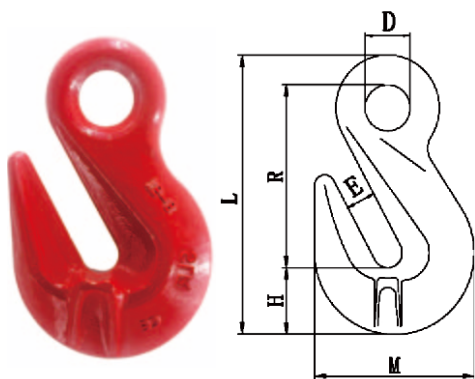
SIZE	WEIGHT	WLL	B.L	DIMENSIONS					
MM	KG/PC	TON	TON	A	B	K	H	L	Φ
6	0.5	1.12	4.48	7.5	28	96	20	131	34
7/8	0.8	2	8	9.5	35	118.5	24	160	46
10	1.42	3.15	12.6	12	45	144	28	194	58
13	3	5.3	21.2	15	54	181.5	41	251	69
16	5.8	8	32	17.5	60.5	216	50	302	86
18/20	8.75	12.5	50	25	74.5	239	62	342	92
22	12.3	15	60	25.5	80	276	65	391	98
26	20.6	21.2	84.8	30	99	312	74	448	110

G80 EYE FOUNDRY HOOK



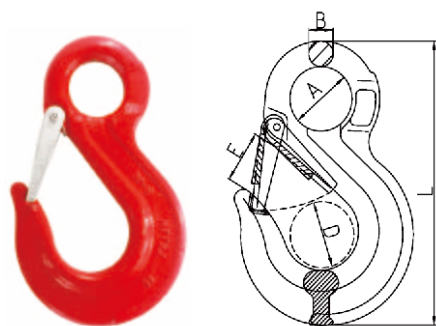
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)							
TON	KG/PC	TON	TON	Φ	L	B	R	E	Φ1	H	M
6	0.382	1.12	4.48	20	133	100	102.7	49	10	17	19
7/8	0.69	2	8	24	158.5	130	120.5	62	12	19	26
10	1.3	3.2	12.8	31.5	199	152.5	153	73	15	25	31
13	2.32	5.3	21.2	44	241.5	186	184	90	19	33	39
16	4	8	32	49	279	218	216	105	22	37	42
20	7.3	12.5	50	60	330	252	247	114	26	46	57
22	11.4	15	60	64	376	274	275	123	31	60	70

G80 EYE SHORTENING GRAB HOOK WITH WINGS



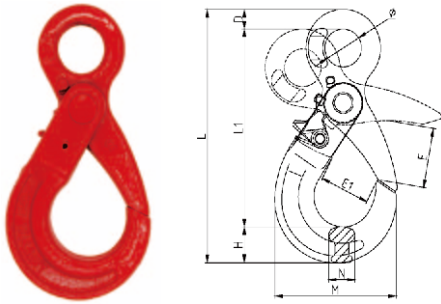
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)					
MM	KG/PC	TON	TON	E	D	H	R	L	
6	0.140	1.12	4.48	8.0	13.5	17.9	51.4	75.3	
7/8	0.245	2.00	8.00	10.8	18.0	20.0	61.5	91.2	
10	0.650	3.15	12.60	13.0	20.0	29.0	80.0	122.0	
13	1.390	5.30	21.20	16.5	26.0	42.8	99.7	158.0	
16	2.200	8.00	32.00	20.0	30.5	47.7	104.0	169.0	
20	4.600	12.5	50.00	25.0	37.5	56.0	140.0	219.0	
22	8.200	15.00	60.00	28.0	44.0	68.0	165.0	259.0	
26	9.800	21.20	84.80	30.0	44.0	77.0	188.8	298.0	
32	19.400	31.50	126.00	38.0	57.0	95.0	228.0	361.0	

G80 EYE SLING HOOK WITH LATCH



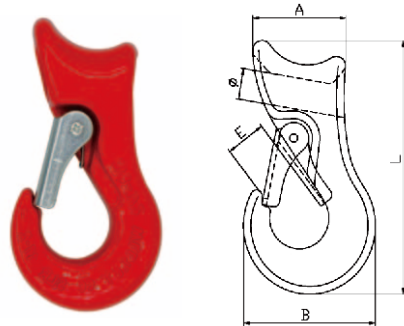
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)					
MM	KG/PC	TON	TON	B	E	D	A	L	
6	0.3	1.12	4.48	9	21.5	20	20	108	
7/8	0.4	2.00	8.00	11	27.5	24	25	133	
10	0.9	3.15	12.60	15	27.2	38	38	167	
13	2.2	5.30	21.20	19	38.5	51	43	213	
16	3.2	8.00	32.00	23	42.0	62	50	255	
20	5.8	12.50	50.00	24	44.6	75	63	305	
22	9.2	15.00	60.00	32	70.0	68	62	348	
26	13.0	21.20	84.80	35	84.0	84	64	394	
32	18.5	31.50	126.00	37	102.0	100	88	480	

G80 EYE TYPE SELF LOCKING SAFETY HOOK



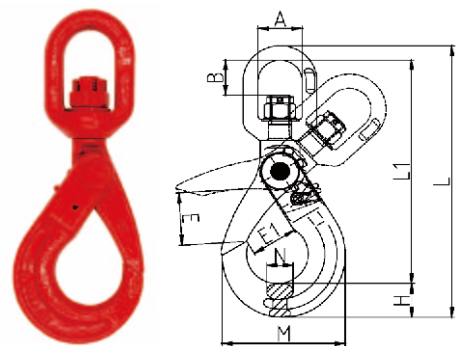
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)								
MM	KG/PC	TON	TON	Φ	E	E1	L1	L	H	D	N	M
6	0.50	1.12	4.48	21.0	32	28	110	140	20	11	15	73
7/8	0.85	2.00	8.00	25.0	40	35	136	175	26	13	20	91
10	1.42	3.15	12.60	34.5	48	45	168	213	30	15	26	108
13	2.86	5.30	21.20	39.5	27	53	207	267	40	21	33	142
16	5.90	8.00	32.00	50.0	65	63	254	332	51	27	38	169
20	8.50	12.50	50.00	64.5	82	82	278	360	55	27	50	185
22	11.60	15.00	60.00	70.0	80	76	319	415	67	32	52	202
26	18.00	21.20	84.80	80.0	109	96	362	472	75	34	60	239
32	46.00	31.50	126.00	105.0	131	131	470	614	97	45	80	329

G80 SLIDING EYE CHOKE HOOK



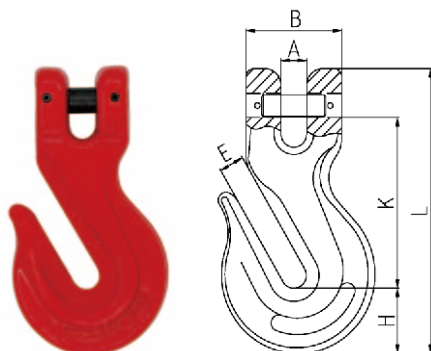
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)				
MM	KG/PC	TON	TON	D	A	B	E	L
3/8"-1/2"	0.68	1.6	8	17	50.0	71	18	132.0
5/8"	1.21	2.0	10	22	63.5	79	20	151.5
3/4"	1.99	3.0	15	28	69.0	103	26	170.0
1"	4.18	5.0	25	32.5	85.7	135	33	213.0

G80 SWIVEL TYPE SELF LOCKING SAFETY HOOK



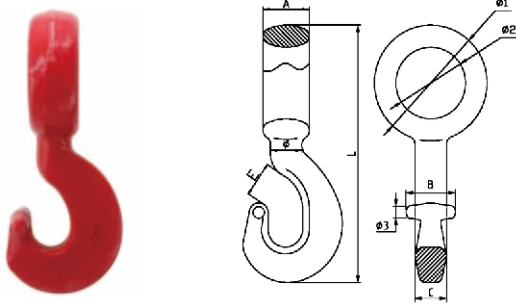
SIZE	WEIGHT	WLL	B.L	A	B	E	E1	L1	L	H	N	M
MM	KG/PC	TON	TON									
6	0.71	1.12	4.48	32	26	32	28	152	184	20	15	73
7/8	1.15	2.00	8.00	36	30	40	35	189	228	26	20	91
10	1.86	3.15	12.60	42	35	48	45	223	268	30	26	108
13	3.51	5.30	21.20	50	41	57	53	267	323	40	33	142
16	7.33	8.00	32.00	61	58	65	63	339	413	50	38	169
18/20	10.30	12.50	50.00	72	63	82	82	370	452	55	50	185
22	17.50	15.00	60.00	97	98	80	76	466	564	67	52	202
26	23.00	21.20	84.80	123	115	109	96	544	661	75	60	239
32	81.00	31.50	126.00	140	147	131	131	679	830	97	80	329

G80 U.S. TYPE CLEVIS GRAB HOOK



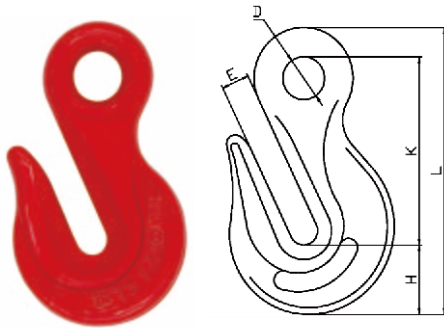
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)					
MM	KG/PC	TON	TON	A	B	E	H	K	L
1/4"	0.22	1.2	4.8	8	34	8	19.5	57	90.5
9/32"	0.31	2	8	9.5	41	9.5	23	65.3	106.5
3/8"	0.7	3.2	12.8	12.7	46	12.5	31	82	137
1/2"	1.8	5.4	21.6	16	61	16.7	43	113	184.5
5/8"	3.1	8.2	32.8	19.5	68.5	20	49	129.5	215
3/4"	4.1	12.8	51.2	24	88	24	58	152	254
7/8"	6.2	15.5	62	27	101	26	64.8	178	295

G80 TWIST EYE CHOKE HOOK



SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)								
MM	KG/PC	TON	TON	A	B	C	Ø	Ø1	Ø2	Ø3	E	L
7/8	0.36	2.0	8.0	19.0	28.0	16.5	17.0	52	30.5	7.5	16	123
10	0.72	3.2	12.8	26.0	40.0	17.5	20.0	68	39.0	8.0	20	157
13	1.40	5.4	21.6	34.0	43.0	21.0	25.0	85	52.0	9.5	27	196
16	3.17	8.2	32.8	51.0	45.5	31.0	30.0	108	64.0	10.5	30	246
18	3.80	10.0	40.0	49.5	53.0	33.5	33.5	121	75.0	12.0	37	268
20/22	8.95	15.3	61.2	70.0	80.0	44.0	52.0	146	84.0	14.0	47	367
26	16.65	21.2	84.8	80.0	80.0	44.0	60.0	180	100.0	24.3	44	417

G80 U.S. TYPE EYE GRAB HOOK

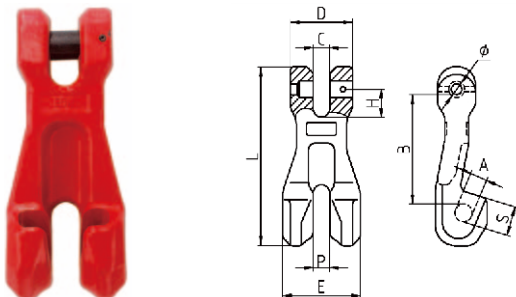


SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)				
IN	KG/PC	TON	TON	E	D	H	K	L
1/4"	0.13	1.2	4.8	8.0	13.0	19.0	54	81.0
9/32"	0.27	2.0	8.0	9.5	15.0	23.0	64	98.0
3/8"	0.55	3.2	12.8	12.5	20.0	30.0	82	125.0
1/2"	1.3	5.4	21.6	17.0	25.0	42.0	106	165.0
5/8"	2.48	8.2	32.8	20.0	30.0	49.0	127	196.5
3/4"	3.80	12.8	51.2	23.0	34.5	56.0	152	231.6
7/8"	5.80	15.5	62.0	28.6	40.5	65.5	175	267.6

G80 LINKS

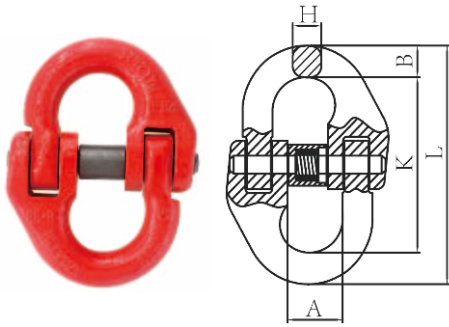


G80 CLEVIS CLUTCH



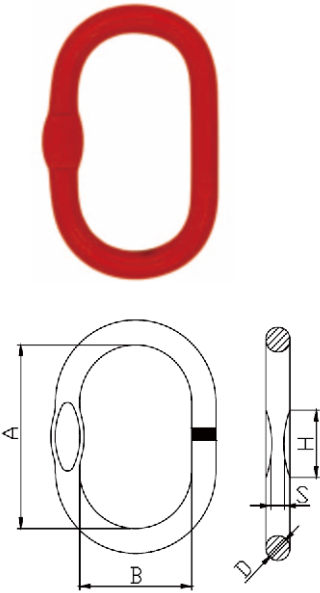
SIZE	WEIGHT	WLL	B.L	P	C	A	B	H	S	L	D
MM	KG/PC	TON	TON	MM	MM	MM	MM	MM	MM	MM	MM
6	0.18	1.12	4.48	7.5	7.5	8.0	44.0	11.8	12.0	73.5	7.8
7/8	0.45	2.00	8.00	9.5	9.5	10.5	61.7	15.7	17.0	101.0	9.2
10	0.93	3.15	12.60	13.0	13.0	12.4	92.0	20.0	28.0	138.0	13.2
13	1.88	5.30	21.20	16.5	16.5	16.0	115.0	24.5	34.5	177.0	16.2
16	3.50	8.00	32.00	21.0	21.0	19.5	143.0	30.5	40.0	220.0	20.0
18/20	4.43	12.5	50.00	23.5	23.5	23.0	152.0	36.0	46.0	238.0	24.3
22	8.05	15.0	60.00	25.5	25.5	26.0	195.0	42.0	57.5	295.0	28.1

G80 EUROPEAN TYPE CONNECTING LINK



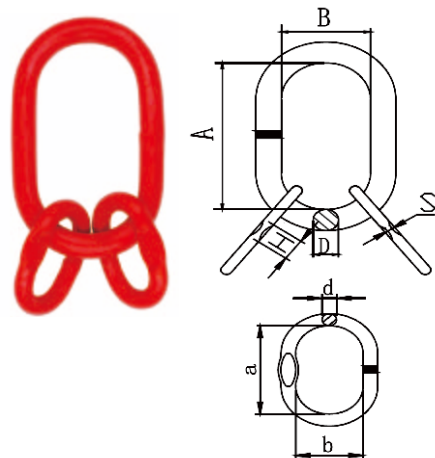
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)				
MM	KG/PC	TON	TON	A	B	L	K	H
6	0.080	1.12	4.48	15.0	7.5	58.0	42.0	7.0
7	0.145	1.50	6.00	20.0	8.5	73.0	54.8	8.5
7/8	0.146	2.00	8.00	20.5	9.5	79.5	60.5	8.5
8	0.160	2.00	8.00	20.5	9.5	79.5	60.5	8.5
10	0.300	3.15	12.60	26.0	12.0	90.5	68.0	11.5
13	0.650	5.30	21.20	30.0	15.0	117.0	87.0	15.0
16	1.150	8.00	32.00	35.0	19.8	148.0	108.4	19.8
18	1.840	10.00	40.00	38.0	21.0	154.0	112.0	21.0
20	2.100	12.50	50.00	41.0	24.0	169.5	121.5	24.0
22	2.870	15.00	60.00	49.5	26.0	193.5	141.5	26.0
26	4.500	21.20	84.80	57.5	31.0	220.0	158.0	30.0
32	8.210	31.50	126.00	67.5	38.0	281.0	205.0	37.0

G80 EUROPEAN TYPE MASTER LINK



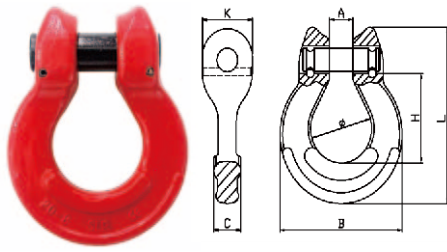
SIZE	WEIGHT	WLL	FOR G80 CHAIN		A	B	D
MM	KG/PC	TON	1 LEG	2 LEGS	MM	MM	MM
7-6	0.34	1.60	7	6	110	60	13
8-7	0.54	2.12	8	7	110	60	16
10-8	0.82	3.15	10	8	135	75	18
13-10	1.50	5.30	13	10	160	90	22
16-13	2.30	8.00	16	13	180	100	26
18-16	3.95	11.20	18	16	200	110	32
20-18	6.34	14.00	20	18	260	140	36
22-20	8.96	17.00	22	20	300	160	40
26-22	12.8	21.20	26	22	340	180	45
32-26	16.55	31.50	32	26	350	190	50
36-32	23.28	45.00	36	32	400	200	56
40-36	32.00	56.00	40	36	430	220	63
72	45.76	63.00	45	40	460	250	72
80	62.00	85.40	—	45	500	270	80

G80 EUROPEAN TYPE MASTER LINK ASSEMBLY



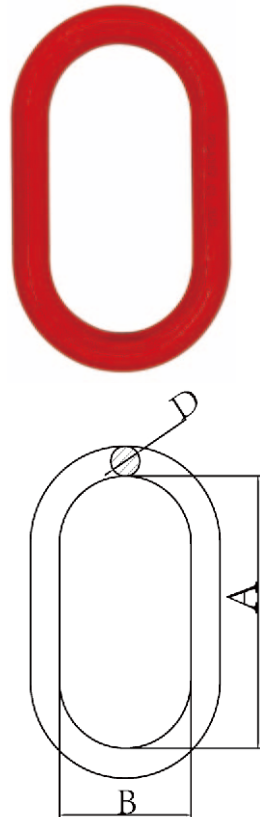
SIZE	WEIGHT	WLL	FOR 3 OR 4 LEG	A	B	D	a	b	d
MM	KG/PC	TON	MM	MM	MM	MM	MM	MM	MM
6	1.18	2.36	6	135	75	18	54	25	13
7	1.24	3.15	7	135	75	18	60	38	13
8	2.20	4.25	8	160	90	22	70	34	16
10	3.40	6.70	10	180	100	26	85	40	18
13	6.10	11.2	13	200	110	32	115	50	22
16	9.98	17.0	16	260	140	36	140	65	26
18	18.9	21.2	18	340	180	45	180	100	32
20	23.7	26.5	20	350	190	50	180	100	32
22	25.2	31.5	22	350	190	50	180	100	36
26	35.2	45.0	26	400	200	56	180	100	40
28	47.00	50.0	28	430	220	63	180	100	45
32	66.46	67.0	32	460	250	72	200	110	50

G80 OMEGA LINK



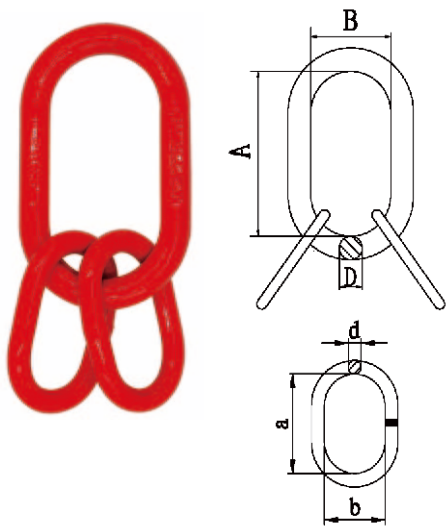
SIZE	WEIGHT	WLL	B.L	A	B	C	Φ	H	L	K
MM	KG/PC	TON	TON	MM	MM	MM	MM	MM	MM	MM
6	0.12	1.12	4.48	8	41	9	21.5	25	52	17
7/8	0.22	2	8	10	52	14	23.5	35	68.5	22
10	0.36	3.15	12.6	12.5	62	16	31	40.5	87	26
13	0.71	5.3	21.2	15	81	20	41	54	108	34
16	1.12	8	32	19	99	25.5	49.5	64	126	38.5
20	2.1	12.5	50	23	118	32	58	75.6	152	50

G80 U.S. TYPE A-342 FORGED MASTER LINK



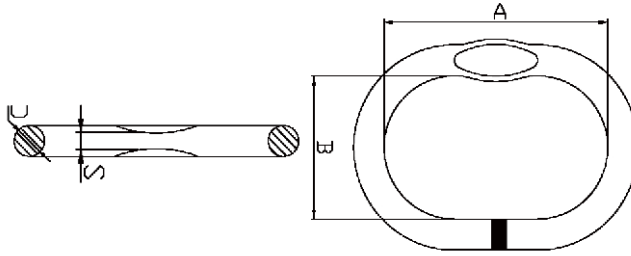
SIZE	CHAIN SIZE	1 LEG	2 LEG	FOR WOPE	A	B	D	WEIGHT
IN.	IN.	TON	TON	TON	MM	MM	MM	KG/PC
1/2"	1/4"	1.50	2.12	3.4	127	63.5	13.0	0.36
	5/16"	2.00	2.80					
5/8"	5/16"	2.00	2.80	4.0	152	76.0	16.0	0.70
	3/8"	3.15	—					
3/4"	3/8"	3.15	4.25	5.6	140	70.0	19.0	0.93
7/8"	3/8"	3.15	4.25	6.9	160	90.0	22.0	1.50
	1/2"	5.30	—					
1"	1/2"	5.30	7.50	11.8	178	89.0	25.0	2.10
	5/8"	8.00	11.20					
1-1/4"	5/8"	8.00	11.20	17.7	222	111	32.0	4.24
	3/4"	11.20	16.00					
1-1/2"	3/4"	11.20	16.00	27.7	267	135	38.0	7.17
	7/8"	15.00	21.20					
1-3/4"	7/8"	15.00	21.20	38.5	305	152	45.0	11.55
	1"	21.20	—					
2"	1"	21.20	30.00	46.5	355	178	51.0	17.20
	1-1/4"	31.50	—					
2-1/4"	1-1/4"	31.50	45.00	64.9	406	203	57.0	24.50
2-1/2"	—	—	—	72.6	406	203	63.5	30.90
2-3/4"	—	—	—	98.4	406	241	70.0	39.50
3"	—	—	—	103.0	457	228	76.0	50.34
3-1/4"	—	—	—	119.0	508	254	82.5	65.68
3-1/2"	—	—	—	126.0	508	254	89.0	90.24
3-3/4"	—	—	—	152.0	508	254	95.0	89.27
4"	—	—	—	169.0	508	254	102.0	103.43

G80 U.S. TYPE A-345 FORGED MASTER LINK ASSEMBLY



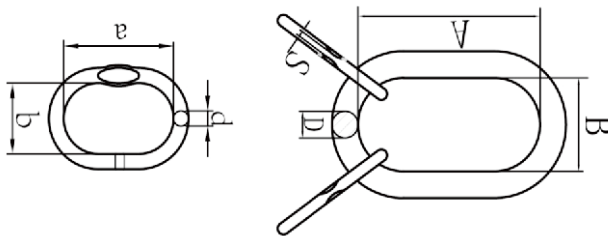
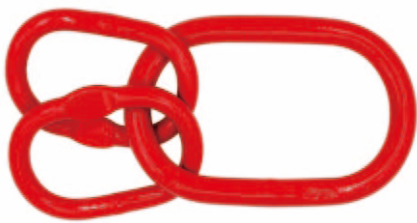
SIZE	WEIGHT	A	B	D	a	b	d	CHAIN SIZE	3 OR 4 LEG	FOR WOPE
MM	KG/PC	MM	MM	MM	MM	MM	MM	IN.	TON	TON
3/4"	1.55	140	70	20	85	40	14	1/4"	3.15	5.6
								5/16"	4.25	
7/8"	2.18	160	95	22	85	40	14	5/16"	4.25	6.9
								3/8"	6.7	
1"	3.29	178	89	25	100	60	18	3/8"	6.7	11.8
1-1/4"	7.18	220	110	32	100	60	22	1/2"	11.2	17.7
								5/8"	17.0	
1-1/2"	12.91	267	135	38	180	100	30	5/8"	17.0	27.7
								3/4"	23.6	
1-3/4"	21.25	305	152	45	180	100	32	3/4"	23.6	38.5
								7/8"	31.5	
2"	30.34	356	178	50	180	100	38	7/8"	31.5	46.5
2-1/2"	64.40	406	203	64	355	178	50	1"	45.0	72.6
2-3/4"	94.10	406	241	70	406	203	60	1-1/4"	67.0	98.4

G80 U.S. TYPE A-344 WELDED MASTER LINK



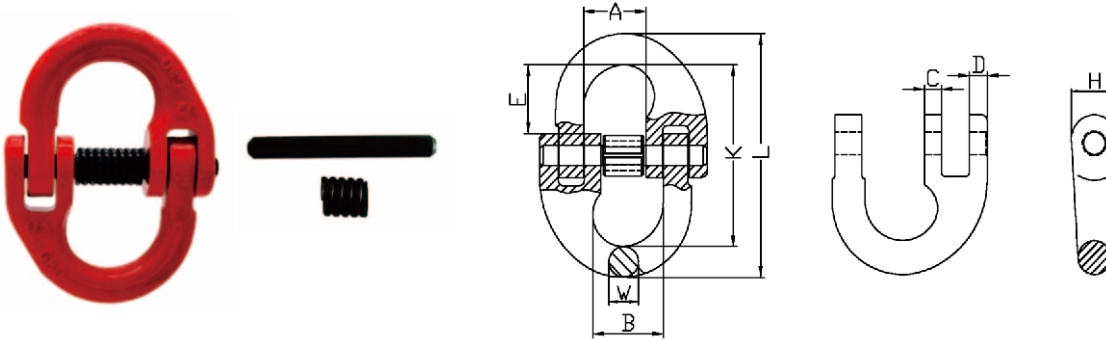
SIZE	WEIGHT	A	B	D	S	CHAIN SIZE	1 LEG	2 LEG (0°-45°)	FOR WOPE
IN.	KG/PC	MM	MM	MM	MM	IN.	WLL(TON)	WLL(TON)	WLL(TON)
7/16"	0.27	100	60	12	6.0	1/4"	1.12	1.60	1.6
1/2"	0.38	100	60	14	7.6	9/32"	1.5	—	2.5
						5/16"	2.0	—	
11/16"	0.85	160	90	18	8.4	5/16"	2.0	2.80	4.0
						3/8"	3.15	—	
3/4"	1.20	160	90	20	10.5	3/8"	3.15	4.25	6.5
						1/2"	5.30	—	
7/8"	1.63	180	100	22	13.5	1/2"	5.30	7.50	8.0
						5/8"	8.00	—	
1"	2.13	180	100	25	16.5	5/8"	8.00	11.20	11.5
						3/4"	11.20	—	
1-1/8"	3.81	270	140	28	19.0	3/4"	12.50	—	11.8
1-1/4"	5.05	270	140	32	19.0	3/4"	11.20	16.00	16.0
						7/8"	15.00	—	
1-3/8"	6.83	285	155	36	20.0	7/8"	15.00	21.20	24.0
						1"	21.20	—	
1-1/2"	8.90	300	160	40	26.0	1-1/8"	25.00	—	25.0
1-3/4"	12.80	340	180	45	26.0	1	21.20	30.00	31.5
						1-1/4"	31.50	—	
2"	17.30	390	215	51	32.0	1-1/4"	31.50	45.00	45.0

G80 U.S. TYPE A-347 WELDED MASTER LINK ASSEMBLY



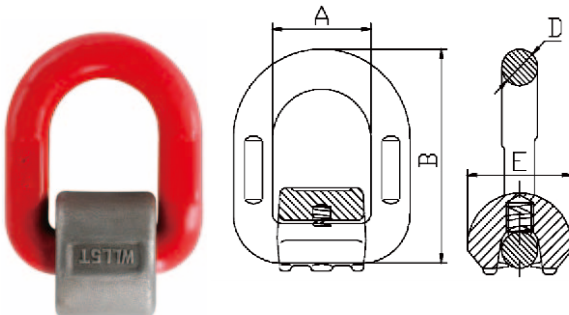
SIZE	WEIGHT	CHAIN SIZE	3 OR 4 LEG	FOR ROPE	A	B	D	a	b	d	S
MM	KG/PC	IN.	WLL(TON)	WLL(TON)	MM	MM	MM	MM	MM	MM	MM
1/2"	0.82	7/32"	2.36	2.4	100	60	14	85	40	12	6.0
11/16"	1.60	1/4"	3.15	3.2	160	90	18	100	60	14	7.6
5/8"	1.60	1/4"	3.15	3.2	160	90	18	100	60	14	7.6
3/4"	1.95	5/16"	4.25	4.2	160	90	20	100	60	14	7.6
7/8"	3.16	3/8"	6.70	8.0	180	100	22	150	70	18	8.4
1"	5.28	3/8"	10.00	10.0	270	140	25	155	80	20	11.0
1-1/8"	6.75	1/2"	11.20	12.0	270	140	28	160	90	22	13.5
1-1/4"	9.31	5/8"	17.00	17.0	270	140	32	180	100	25	16.5
1-1/2"	18.40	3/4"	23.60	25.0	300	160	40	270	140	31	19.0
1-3/4"	26.60	7/8"	31.50	31.5	340	180	45	285	155	36	22.0
2"	42.91	1"	45.00	45.0	350	190	51	340	180	45	25.0

G80 U.S. TYPE CONNECTING LINK



SIZE	WEIGHT	WLL	B.L	A	K	L	W	H	C	D
IN.	LBS/PC	LBS	LBS	MM	MM	MM	MM	MM	MM	MM
1/4"	0.286	3500	14000	16.5	51.0	67.0	8.0	13.0	4.0	4.0
5/16"	0.32	4500	18000	17.7	58.5	78.5	9.8	14.5	6.0	6.6
3/8"	0.73	7100	28400	22.0	63.6	87.6	12.0	17.0	6.2	8.1
1/2"	1.67	12000	48000	28.5	85.5	115.5	15.0	21.6	7.8	7.8
5/8"	2.86	18100	72400	33.0	106.0	143.0	18.5	26.0	9.5	10.0
3/4"	5.00	28300	113200	41.0	116.0	162.0	23.0	32.0	12.0	13.0
7/8"	7.50	34200	136800	50.5	136.5	188.5	26.0	38.0	13.0	15.5
1"	11.03	47700	190800	57.0	152.5	214.5	31.0	44.0	15.0	16.5
1-1/4"	20.38	72300	289200	65.0	188.7	265.0	38.0	54.0	20.0	20.0

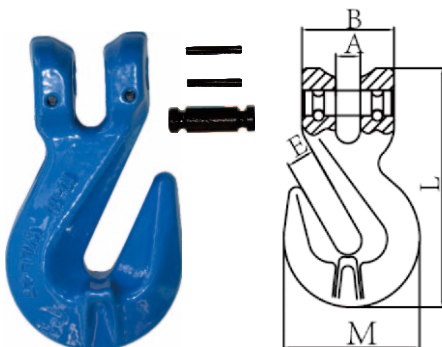
G80 WELD D RING



SIZE	WEIGHT	WLL	A	B	D	M	H
TON	KG/PC	TON	MM	MM	MM	MM	MM
1T	0.47	1.12	41	78.5	13.0	37.0	35
2T	0.51	2.00	42	88.0	14.0	40.0	37
3T	0.69	3.15	45	94.0	17.0	42.5	40
5T	1.46	5.30	55	118.0	22.0	61.0	52
8T	2.50	8.00	70	141.0	26.5	70.5	57
15T	5.79	15.00	97	188.0	34.0	90.0	77

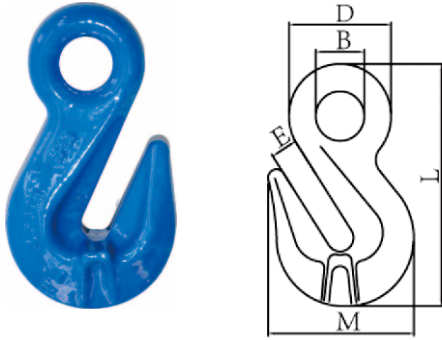
G100 HOOKS

G100 CLEVIS SHORTENING GRAB HOOK WITH WINGS



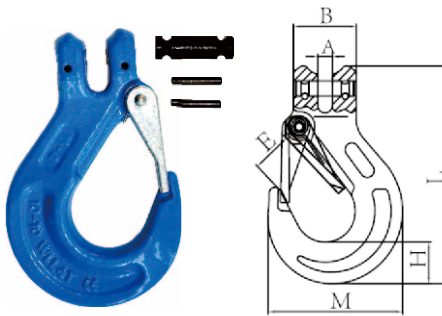
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)				
MM	KG/PC	TON	TON	A	B	E	M	L
6	0.22	1.4	5.6	7.5	32	8	43.5	75
8	0.34	2.5	10	9.5	36	10.8	53	91.5
10	0.82	4	16	12	46	13.5	72	126
13	1.75	6.7	26.8	15	59	16.5	96	163.5
16	2.88	10	40	17.5	70	19.2	112.5	183.5
20	4.84	16	64	24	85	24	143	224
22	8.3	19	76	27	100	27	160.5	262

G100 EYE SHORTENING GRAB HOOK WITH WINGS



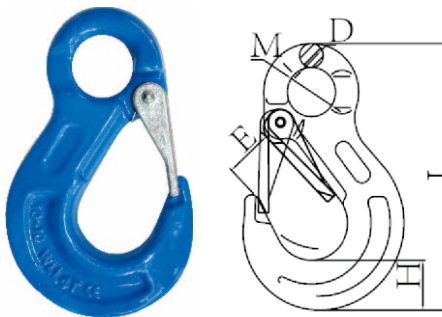
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)				
MM	KG/PC	TON	TON	E	B	D	M	L
6	0.15	1.4	5.6	8	14.5	30.5	43.5	71
8	0.3	2.5	10	10.8	18	37	53	91.5
10	0.79	4	16	13.5	22.5	48.5	72	127.5
13	1.67	6.7	26.8	16.5	28	59	96	163
16	2.74	10	40	19.2	36	74	112.5	183
20	4.72	16	64	24	43.5	89.5	143	227
22	8.2	19	76	27	48.5	100.5	160.5	260.5

G100 CLEVIS SLING HOOK WITH LATCH



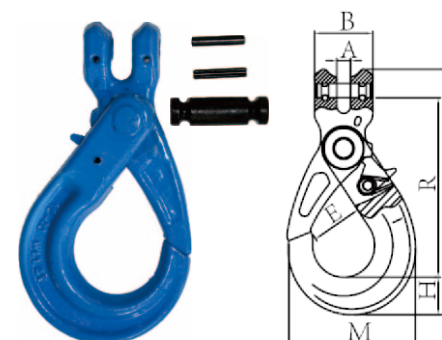
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)					
MM	KG/PC	TON	TON	A	B	E	H	M	L
6	0.33	1.4	5.6	7.5	32	18.5	21	68.5	109
8	0.7	2.5	10	9.5	37	25	27.5	88	134
10	1.3	4	16	12	48	28	33.5	105.5	161.5
13	2.3	6.7	26.8	15	59	38	42	134	203
16	3.6	10	40	18.5	70	44	50	160.5	248
20	7.3	16	64	25	85	52	56	190.5	297
22	12.1	19	76	27	100	66	62	214.5	326

G100 EYE SLING HOOK WITH LATCH



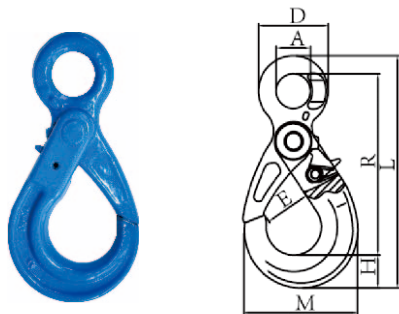
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)				
MM	KG/PC	TON	TON	D	E	H	M	L
6	0.32	1.4	5.6	10	18.5	21	20.5	111
8	0.6	2.5	10	11	25	27.5	25	137.5
10	1.2	4	16	16	29.5	32	35	171.5
13	2.2	6.7	26.8	19	38	43.5	43	219
16	3.5	10	40	24.5	46	50	51	260
20	6.2	16	64	27	52	56	55	298
22	11.5	19	76	29	66	62	60	330
26	12.2	26.5	106	35	73	75	70	376
32	17.5	39.3	157.2	39	87	89	81.5	458

G100 CLEVIS SELF LOCKING HOOK



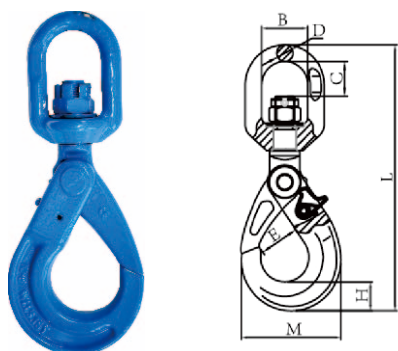
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)						
MM	KG/PC	TON	TON	A	B	E	H	R	M	L
6	0.5	1.4	5.6	8.0	32	28.0	20.0	96	70	131
8	0.9	2.5	10.0	9.5	36	35.5	26.0	123	90	166
10	1.6	4.0	16.0	12.0	46	45.0	30.0	144	109	196.5
13	2.9	6.7	26.8	15.0	59	53.5	40.5	182	138.5	251
16	5.8	10.0	40.0	18.5	70	62.0	50.5	217	170.5	303
20	8.6	16.0	64.0	25.0	85	76.5	62.0	235	192.5	337.5
22	12.1	19.0	76.0	25.5	98	80.0	66.0	276.5	205	391

G100 EYE SELF LOCKING HOOK



SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)					
MM	KG/PC	TON	TON	D	E	H	R	M	L
6	0.5	1.4	5.6	43	28	20	110	70	141
8	0.9	2.5	10	51	35.5	26	137	90	175
10	1.5	4	16	64.3	45	30	169	108	212.5
13	2.7	6.7	26.8	80	53.5	40.5	209	138.5	270
16	5.7	10	40	104	62	50.5	254	170.5	331
20	7.9	16	64	120	76.5	62	277	192.5	369
22	11.2	19	76	134	80	66	319.5	205	417

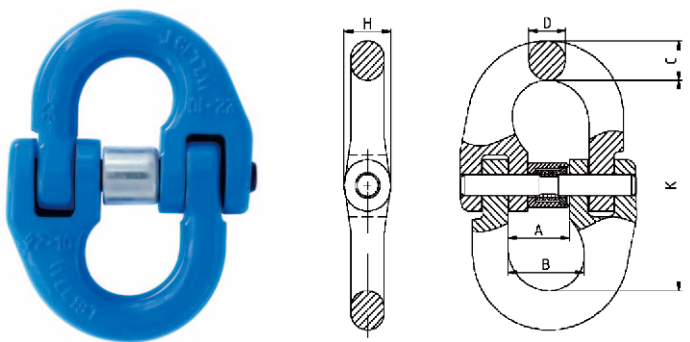
G100 SWIVEL SELF LOCKING HOOK



SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)						
MM	KG/PC	TON	TON	B	C	D	E	H	M	L
6	0.6	1.4	5.6	32.5	23	11.5	28	20	70	184
8	1.1	2.5	10	36	28	13	35.5	26	90	229
10	2	4	16	42	35	15.5	45	30	108	269
13	4	6.7	26.8	50	40	17	53.5	40.5	138.5	330
16	6.8	10	40	70	56	21.5	62	50.5	170.5	413
20	12.5	16	64	72	62	26	76.5	62	192.5	463
22	17.1	19	76	97	94	33	80	66	205	572

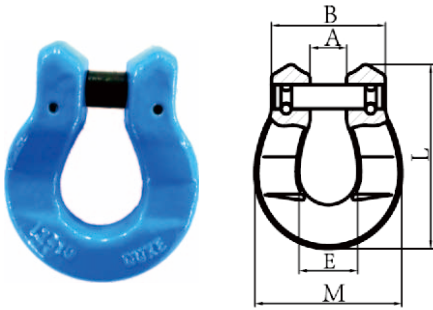
G100 LINKS

G100 EUROPEAN TYPE CONNECTING LINK



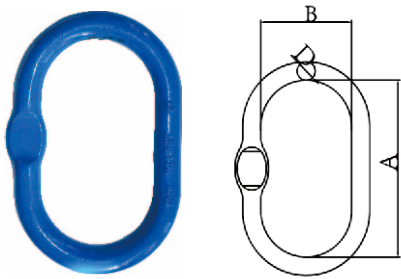
SIZE	WEIGHT	WLL	B.L	DIMENSIONS(MM)					
MM	KG/PC	TON	TON	A	B	C	D	K	H
6	0.08	1.4	5.6	14.0	16.9	8.5	7.0	44.5	11.0
7	0.16	1.9	7.6	18.5	22.5	10.0	8.2	59.0	12.5
7/8	0.17	2.5	10.0	18.5	22.0	11.0	8.5	59.0	13.0
8	0.18	2.5	10.0	18.5	22.7	10.5	10.0	63.0	14.0
10	0.34	4.0	16.0	23.0	27.7	12.6	12.6	71.0	18.0
13	0.68	6.7	26.8	28.0	33.2	16.5	16.5	92.5	23.0
16	1.22	10.0	40.0	33.5	39.0	21.0	20.0	106.5	29.5
20	2.13	16.0	64.0	42.0	47.3	25.0	25.0	123.0	35.5
22	3.00	19.0	76.0	48.0	55.0	27.0	27.0	137.5	39.0
26	5.22	26.5	106.0	61.0	68.0	32.0	32.0	163.0	45.0
32	9.55	39.3	157.2	80.0	87.0	40.0	40.0	197.0	54.0

G100 OMEGA LINK



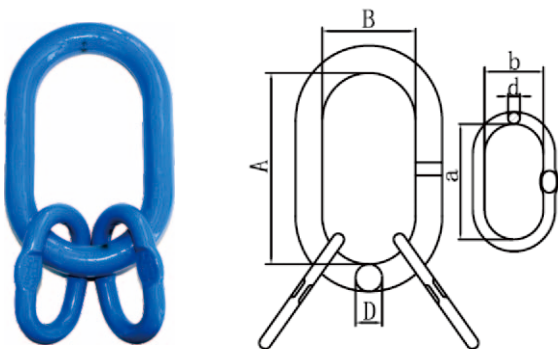
SIZE	WEIGHT	WLL	B.L	A	B	E	M	L
MM	KG/PC	TON	TON	MM	MM	MM	MM	MM
6	0.12	1.4	5.6	8.5	32.5	20	44	55
8	0.27	2.5	10	10.5	42	24	60	73.5
10	0.44	4	16	12.5	48.5	31	70	90
13	0.89	6.7	26.8	16	60	38.5	90	109
16	1.77	10	40	19	75.5	51	112	141.5

G100 FORGED MASTER LINK



ITEM NO.	WEIGHT	WLL	A	B	D	ø	
	KG	T	MM	MM	MM	1 LEG	2 LEGS
05	0.14	1.4	80	50	10	5	5
76	0.34	2.3	110	60	13	6-7	6
87	0.53	3.5	110	60	16	8	7
108	0.86	5	135	75	18	10	8
1310	1.60	7.6	160	90	23	13	10
1613	2.46	10	180	100	27	16	13
1916	4.14	14	200	110	33	19	16
2219	6.22	25.1	260	140	36	22	19
2622	12.85	30.8	340	180	45	26	22
3226	16.22	40	350	190	50	32	26
32	27.01	60	400	200	60	-	32
72MM	45	81.5	460	250	70	-	-

G100 MASTER LINK ASSEMBLY

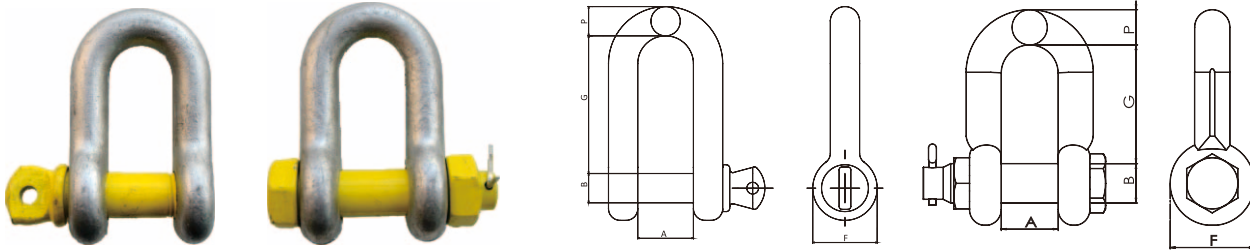


SIZE	WEIGHT	WLL	CHAIN SIZE(MM)	A	B	D	a	b	d
MM	KG/PC	TON	3 OR 4 LEG	MM	MM	MM	MM	MM	MM
6	1.3	3	6	135	75	19	54	25	13
8	2.33	5.3	8	160	90	23	70	35	16.5
10	3.7	8	10	180	100	27	85	40	19
13	6.5	14	13	200	110	33	115	50	23
16	10.1	21.2	16	260	140	36	140	65	27
20	22.8	33.6	20	350	190	50	180	90	33
22	26	39.9	22	350	190	50	180	100	36

SHACKLES

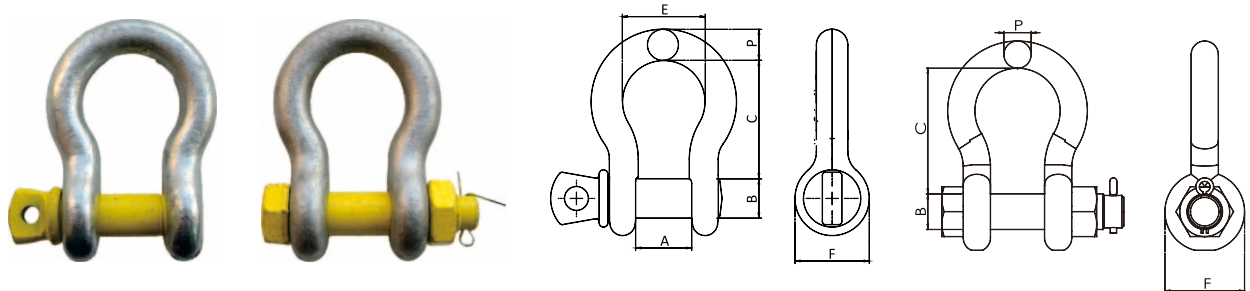


GRADE S DEE SHACKLES AS2741 STANDARD



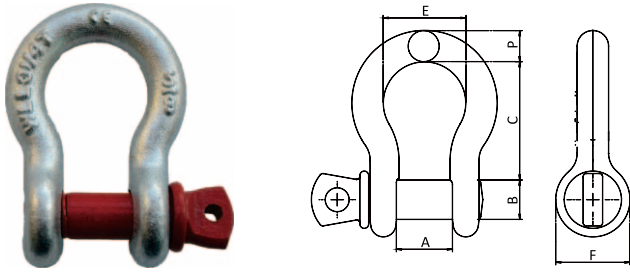
SIZE P (MM)	WLL(TON)	P(MM)	B(MM)	A(MM)
6.0	0.5	6.0	8	12
8.0	0.75	8.0	10	13
10.0	1	10.0	11	17
11.0	1.5	11.0	13	18
13.0	2	13.0	16	21
16.0	3.2	16.0	19	27
19.0	4.7	19.0	22	32
22.0	6.5	22.0	25	37
25.0	8.5	25.0	29.0	43.0
29.0	9.5	29.0	32.0	46.0
32.0	12	32.0	35.0	52.0
35.0	13.5	35.0	38.0	57.0
38.0	17	38.0	41.0	60.0
44.0	25	44.0	51.0	73.0
51.0	35	51.0	57.0	83.0

GRADE S BOW SHACKLES AS2741 STANDARD



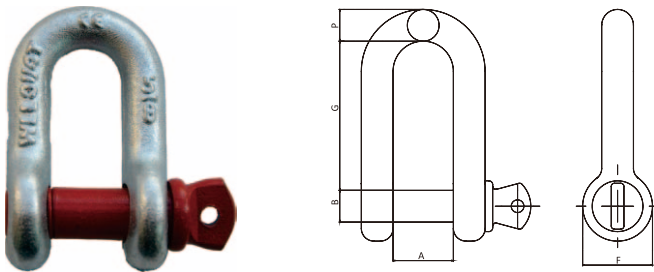
SIZE P (MM)	WLL(TON)	P(MM)	B(MM)	A(MM)
6.0	0.5	6.0	8	12
8.0	0.75	8.0	10	13
10.0	1	10.0	11	17
11.0	1.5	11.0	13	18
13.0	2	13.0	16	21
16.0	3.2	16.0	19	27
19.0	4.7	19.0	22	32
22.0	6.5	22.0	25	37
25.0	8.5	25.0	29.0	43.0
29.0	9.5	29.0	32.0	46.0
32.0	12	32.0	35.0	52.0
35.0	13.5	35.0	38.0	57.0
38.0	17	38.0	41.0	60.0
44.0	25	41.0	51.0	73.0
51.0	35	51.0	57.0	83.0
63.0	55	63.0	70.0	105.0

U.S. TYPE DROP FORGED G-209 SCREW PIN ANCHOR SHACKLE



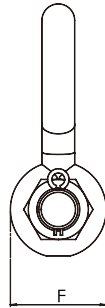
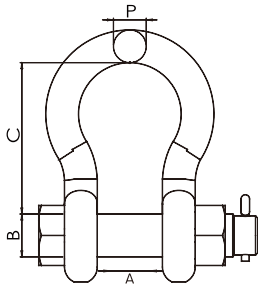
NOMINAL SIZE	WLL	WEIGHT	DIMENSIONS(IN.)					
IN.	TON	KG/PC	A	B	C	P	E	F
3/16"	1/3	0.02	3/8"	1/4"	7/8"	3/16"	11/16"	9/16"
1/4"	1/2	0.05	1/2"	5/16"	1-1/8"	1/4"	25/32"	11/16"
5/16"	3/4	0.09	17/32"	3/8"	1-7/32"	5/16"	27/32"	13/16"
3/8"	1	0.14	21/32"	7/16"	1-7/16"	3/8"	1-1/32"	31/32"
7/16"	1-1/2	0.17	23/32"	1/2"	1-11/16"	7/16"	1-5/32"	1-1/16"
1/2"	2	0.29	13/16"	5/8"	1-7/8"	1/2"	1-5/16"	1-3/16"
5/8"	3-1/4	0.63	1-1/16"	3/4"	2-3/8"	5/8"	1-11/16"	1-9/16"
3/4"	4-3/4	1.02	1-1/4"	7/8"	2-13/16"	3/4"	2"	1-7/8"
7/8"	6-1/2	1.53	1-7/16"	1"	3-5/16"	7/8"	2-9/32"	2-1/8"
1"	8-1/2	2.41	1-11/16"	1-1/8"	3-3/4"	1"	2-11/16"	2-3/8"
1-1/8"	9-1/2	3.09	1-13/16"	1-1/4"	4-1/4"	1-1/8"	2-29/32"	2-5/8"
1-1/4"	12	4.31	2-1/32"	1-3/8"	4-11/16"	1-1/4"	3-1/4"	3"
1-3/8"	13-1/2	6.01	2-1/4"	1-1/2"	5-3/16"	1-3/8"	3-1/2"	3-5/16"
1-1/2"	17	8.03	2-3/8"	1-5/8"	5-3/4"	1-1/2"	3-7/8"	3-5/8"
1-3/4"	25	13.78	2-7/8"	2"	7"	1-3/4"	5"	4-5/16"
2"	35	20.41	3-1/4"	2-1/4"	7-3/4"	2"	5-3/4"	5"
2-1/2"	55	38.90	4-1/8"	2-3/4"	10-1/2"	2-1/2"	7-1/4"	6"
3"	85	65	5"	3-1/4"	13"	3"	8"	7-7/8"

U.S. TYPE DROP FORGED G-210 SCREW PIN CHAIN SHACKLE



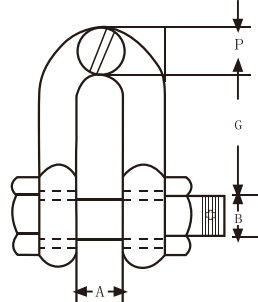
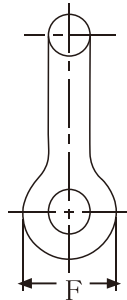
NOMINAL SIZE	WLL	WEIGHT	DIMENSIONS(IN.)				
IN.	TON	KG/PC	A	B	G	P	F
1/4	1/2	0.05	15/32"	5/16"	7/8"	1/4"	11/16"
5/16	3/4	0.08	17/32"	3/8"	1-1/32"	5/16"	13/16"
3/8	1	0.11	21/32"	7/16"	1-1/4"	3/8"	31/32"
7/16	1-1/2	0.17	23/32"	1/2"	1-7/16"	7/16"	1-1/16"
1/2	2	0.23	13/16"	5/8"	1-5/8"	1/2"	1-3/16"
5/8	3-1/4	0.55	1-1/16"	3/4"	2"	5/8"	1-9/16"
3/4	4-3/4	0.91	1-1/4"	7/8"	2-3/8"	3/4"	1-7/8"
7/8	6-1/2	1.49	1-7/16"	1"	2-13/16"	7/8"	2-1/8"
1	8-1/2	2.15	1-11/16"	1-1/8"	3-3/16"	1"	2-3/8"
1-1/8	9-1/2	2.86	1-13/16"	1-1/4"	3-9/16"	1-1/8"	2-5/8"
1-1/4	12	4.08	2-1/32"	1-3/8"	3-15/16"	1-1/4"	3"
1-3/8	13-1/2	5.44	2-1/4"	1-1/2"	4-3/8"	1-3/8"	3-5/16"
1-1/2	17	7.33	2-3/8"	1-5/8"	4-13/16"	1-1/2"	3-5/8"
1-3/4	25	13.59	2-7/8"	2"	5-3/4"	1-3/4"	4-1/8"
2	35	19.6	3-1/4"	2-1/4"	6-3/4"	2"	5"
2-1/2	55	33.2	4-1/8"	2-3/4"	8"	2-1/2"	6"
3	85	54	5"	3-1/4"	8-1/2"	3"	7-7/8"

U.S. TYPE DROP FORGED G-2130 SAFETY BOLT BOW SHACKLE



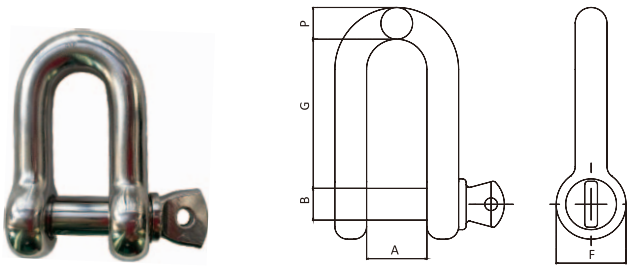
NOMINAL SIZE	WLL	WEIGHT	DIMENSIONS(IN.)				
IN.	TON	KG/PC	A	B	C	P	F
1/2"	2	0.36	13/16"	5/8"	1-7/8"	1/2"	1-3/16"
5/8"	3-1/4	0.76	1-1/16"	3/4"	2-3/8"	5/8"	1-9/16"
3/4"	4-3/4	1.23	1-1/4"	7/8"	2-13/16"	3/4"	1-7/8"
7/8"	6-1/2	1.79	1-7/16"	1"	3-5/16"	7/8"	2-1/8"
1"	8-1/2	2.78	1-11/16"	1-1/8"	3-3/4"	1"	2-3/8"
1-1/8"	9-1/2	3.75	1-13/16"	1-1/4"	4-1/4"	1-1/8"	2-5/8"
1-1/4"	12	5.31	2-1/32"	1-3/8"	4-11/16"	1-1/4"	3"
1-3/8"	13-1/2	6.98	2-1/4"	1-1/2"	5-3/16"	1-3/8"	3-5/16"
1-1/2"	17	9.43	2-3/8"	1-5/8"	5-3/4"	1-1/2"	3-5/8"
1-3/4"	25	15.38	2-7/8"	2"	7"	1-3/4"	4-1/8"
2"	35	23.7	3-1/4"	2-1/4"	7-3/4"	2"	5"
2-1/2"	55	44.57	4-1/8"	2-3/4"	10-1/2"	2-1/2"	6"
3"	85	69.85	5"	3-1/4"	13"	3"	6-1/2"
3-1/2"	120	120.20	5-1/4"	3-3/4"	14-5/8"	3-1/2"	8"
4"	150	153.32	5-1/2"	4-1/4"	15-1/2"	4"	9"

U.S. TYPE DROP FORGED G-2150 SAFETY BOLT DEE SHACKLE



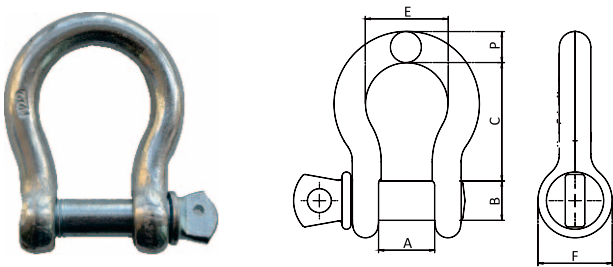
NOMINAL SIZE	WLL	WEIGHT	DIMENSIONS(IN.)				
IN.	TON	KG/PC	A	B	G	P	F
1/2"	2	0.34	13/16"	5/8"	1-5/8"	1/2"	1-3/16"
5/8"	3-1/4	0.67	1-1/16"	3/4"	2"	5/8"	1-9/16"
3/4"	4-3/4	1.14	1-1/4"	7/8"	2-3/8"	3/4"	1-7/8"
7/8"	6-1/2	1.75	1-7/16"	1"	2-13/16"	7/8"	2-1/8"
1"	8-1/2	2.52	1-11/16"	1-1/8"	3-3/16"	1"	2-3/8"
1-1/8"	9-1/2	3.45	1-13/16"	1-1/4"	3-9/16"	1-1/8"	2-5/8"
1-1/4"	12	4.90	2-1/32"	1-3/8"	3-15/16"	1-1/4"	3"
1-3/8"	13-1/2	6.24	2-1/4"	1-1/2"	4-3/8"	1-3/8"	3-5/16"
1-1/2"	17	8.39	2-3/8"	1-5/8"	4-13/16"	1-1/2"	3-5/8"
1-3/4"	25	14.24	2-7/8"	2"	5-3/4"	1-3/4"	4-1/8"
2"	35	21.21	3-1/4"	2-1/4"	6-3/4"	2"	5"
2-1/2"	55	38.56	4-1/8"	2-3/4"	8"	2-1/2"	6"
3"	85	56.36	5"	3-1/4"	8-1/2"	3"	6-1/2"
3-1/2"	120	—	5-1/4"	3-3/4"	—	3-1/2"	8"
4"	150	—	5-1/2"	4-1/4"	—	4"	9"

EUROPEAN TYPE LARGE DEE SHACKLE



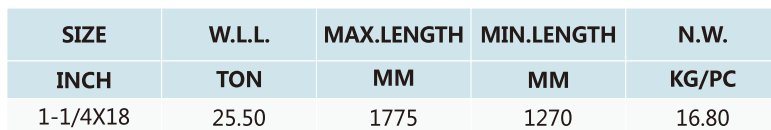
SIZE	A	G	B	P	WLL
MM	MM	MM	MM	MM	KG
5	10	20	5	5	80
6	12	24	6	6	100
8	16	32	8	8	200
10	20	40	10	10	320
12	24	48	12	12	520
16	32	64	16	16	800
20	40	80	20	20	1100
22	44	88	22	22	1500
25	50	100	25	25	2100
28	56	112	28	28	3000
32	64	118	32	32	3500
38	76	152	38	38	5000
45	90	180	45	45	7000
50	100	200	50	50	8000

EUROPEAN TYPE LARGE BOW SHACKLE

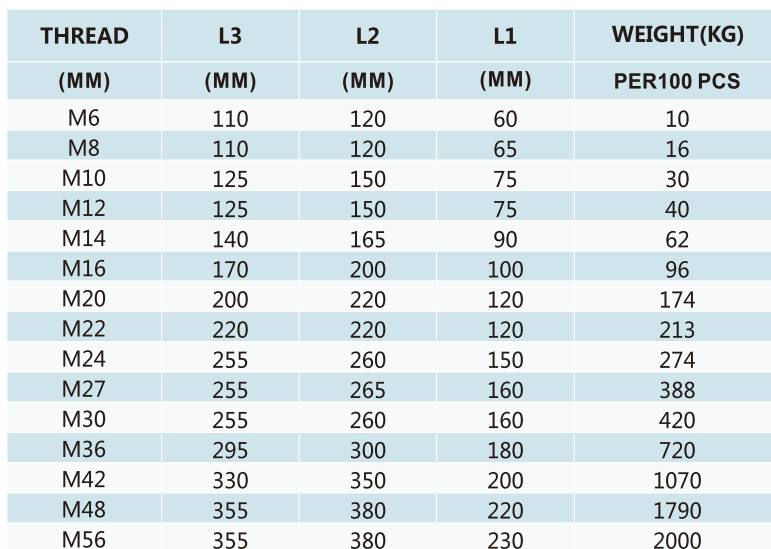
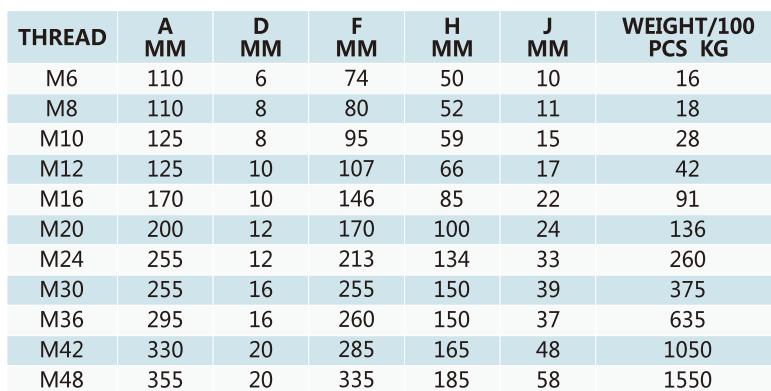


SIZE	A	C	B	P	E	WLL
MM	MM	MM	MM	MM	MM	KG
5	10	20	5	5	16	80
6	12	24	6	6	20	100
8	16	32	8	8	24	200
10	20	40	10	10	32	320
12	24	48	12	12	38	520
16	32	64	16	16	56	800
20	40	80	20	20	66	1100
22	44	88	22	22	74	1500
25	50	100	25	25	80	2100
28	56	112	28	28	94	3000
32	64	118	32	32	104	3500
38	76	152	38	38	126	5000
45	90	180	45	45	150	7000
50	100	200	50	50	156	8000

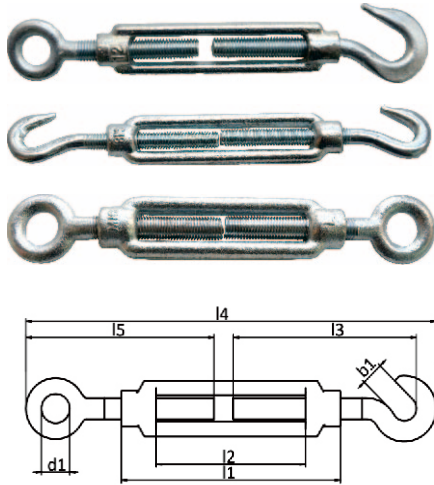
POWER-UP!
MACHINERY 晋丰机械



100

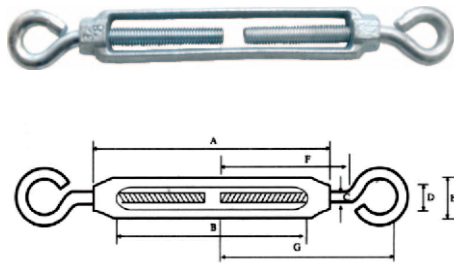


DIN1480 DROP FORGED TURNBUCKLE, HOOK&EYE, EYE&EYE, HOOK&HOOK



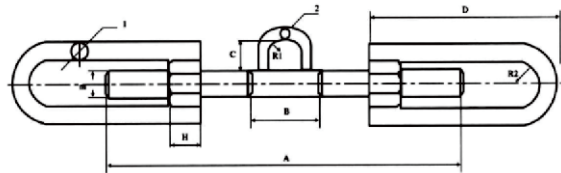
THREAD (MM)	L1 (MM)	L2 (MM)	L3 (MM)	B1 (MM)	L4 (MM)	D1 (MM)	L5 (MM)	WEIGHT (KG)PER 100 PCS.
M6	110	80	85	8.5	80	9	172	9.5
M8	110	75	85	11	84	10	182	16.5
M10	125	85	112	13.5	105	14	213	29
M12	125	80	117	15.5	115	16	238	43
M14	140	90	122	18.5	122	18	263	62
M16	170	110	138	19	165	22	320	92
M20	200	130	170	20.5	167	24	367	163
M22	220	145	185	26	167	27	398	220
M24	255	170	205	26	205	27	447	300
M30	255	160	225	33	255	31	512	460
M36	295	180	255	44	276	43	568	768
M42	330	200	340	48	260	49	683	1290
M48	355	195	360	58	300	58	755	2100

KOREAN TYPE MALLEABLE TURNBUCKLES



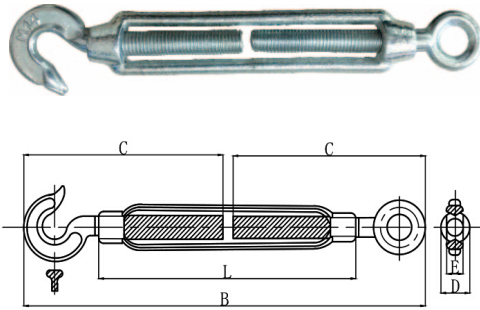
SIZE IN	A (MM)	B (MM)	C (MM)	D (MM)	E (MM)	F (MM)	G (MM)	WEIGHT KG/100 PCS
3/16"	57.4	41.2	41.5	18.4	15	36	54.6	30
5/16"	90	70	8	11	22	65	95	145
3/8"	160	130	9	17	30	85	130	345
1/2"	190	155	10	20	30	95	150	560
1/2" (Long)	255	215	10	30	35	140	190	790
5/8"	250	200	15	25	45	130	190	1120
5/8" (Long)	350	300	15	30	45	180	240	1540
3/4"	250	200	20	35	45	140	210	1670
3/4" (Long)	300	245	20	40	55	170	240	2050

DEE-DEE TURNBUCKLES (HAMBURG)



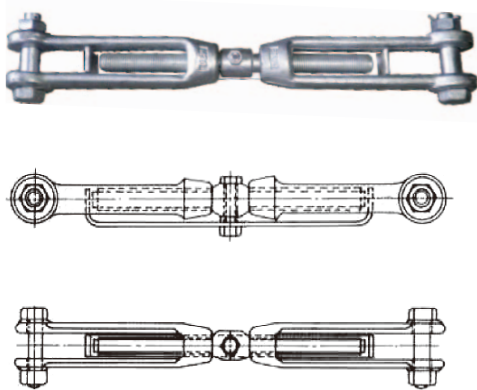
SIZE	A	B	C	D	H	1	2	R1	R2	BREAKING LOAD(T)	REMARK
24	400	75	35	210	22	16	12	15	20	13	THE FIGURES IN BRACKETS ARE ADJUSTABLE
		75	35	210	36	18	12	15	20	18	
24	500	75	35	260	22	16	12	15	20	13	
		75	35	260	36	18	12	15	20	18	
27	400	75	35	210	33	20	12	17.5	21.5	20	
		75	35	210	42	20	12	17.5	21.5	25	
27	500	75	35	260	33	20	12	17.5	21.5	20	
		75	35	260	42	20	12	17.5	21.5	25	
30	400	75	35	210	-	-	12	17.5	22.5	-	
		75	35	210	45	22	12	17.5	25.5	25	
30	500	75	35	260	-	-	12	17.5	25.5	-	
		75	35	260	45	22	12	17.5	25.5	25	
30	480	80	35	255	40	25	12	20	28	30	
		80	35	-	-	-	-	-	-	-	

MALLEABLE IRON COMMERCIAL TYPE TURNBUCKLE



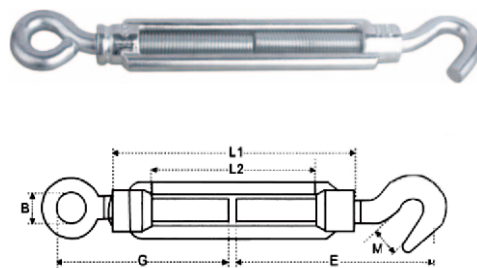
SIZE	WLL	L	C	WEIGHT EACH
MM	KG	MM	MM	KG
6X100	100	100	215	0.16
8X125	200	125	280	0.24
10X150	300	150	325	0.39
12X200	500	200	430	0.64
16X250	1000	250	540	1.44
20X300	1500	300	670	2.45
22X320	2200	325	740	3.60
24X350	3000	350	830	5.00
28X360	3500	360	790	3.66
30X385	3800	385	865	4.89
32X385	3800	385	865	4.89
38X490	5350	490	1125	11.26
40X490	5350	490	1125	11.26

JIS F-3403 RIGGING SCREW



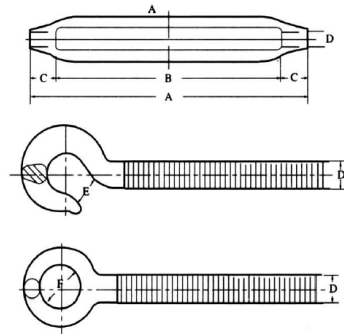
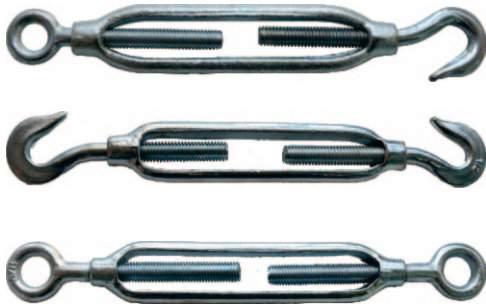
SIZE	DIA.OF WIRE	SWL	WEIGHT
MM	MM	TON	KG/PC
14	14	2.1	5.97
16	16	2.6	8.58
18	18	3.3	11.6
22	22/22.4	5.1	14.8
24	24	5.9	19.4
25	25	6.9	23.9
30	28/30	9.2	30.2
32	32	10.5	36.2
34	34	11.5	43.2
36	36	13	51.1
38	38	14.5	59.9
40	40	16.5	70.7
42	42.5	18.5	93.5
45	45	21	105
48	47.5	23	117
50	50	25.5	124

ZINC ALLOY DIECAST SERIES TURNBUCKLE



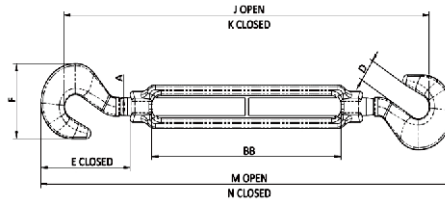
SIZE	L1	L2	B	G	E	M	N.W
	MM	MM	MM	MM	MM	MM	G/PC
M5X50	50	30	8	43	43	7	30
M5X70	70	50	9	50	50	7	37
M6X60	60	35	10	52	50	8	50
M6X100	100	70	10	70	70	10	67
M8X70	70	45	11	60	55	11	85
M8X110	110	80	11	80	75	11	125
M10X80	80	50	12	70	60	11	156
M10X120	120	80	15	100	95	16	195
M12X130	130	90	15	105	100	15	385

JIS FORGED STEEL FRAME TYPE TURNBUCKLES



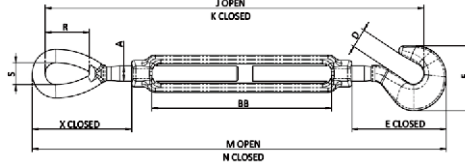
NOMINAL SIZE(D)		BODY ONLY						EYE&EYE			HOOK&EYE		HOOK & HOOK			WITH STUBS			
		A		B	C	T.L	W/PC	F	T.L	W/PC	T.L	W/PC	E	T.L	W/PC	H	I(A2)	G	W/PC
MM	IN	MM	IN	MM	MM	TON	KG	MM	TON	KG	TON	KG	MM	TON	KG	MM	MM	MM	KG
6	1/4	100	4	78	11	1	0.08	10	0.1	0.116	0.04	0.114	9	0.04	0.112	80	50	5.3	0.112
8	5/16	125	5	100	12.5	1.2	0.15	12	0.2	0.22	0.08	0.218	9	0.08	0.215	100	63	6.9	0.22
9	3/8	150	6	120	12.5	1.5	0.17	16	0.5	0.30	0.15	0.293	11	0.15	0.29	130	75	8.3	0.273
12	1/2	200	8	164	18	2	0.29	20	2	0.58	0.35	0.585	16	0.35	0.57	150	100	11.2	0.51
16	5/8	250	10	202	21.5	3	0.52	22	3	1.07	0.7	1.05	19	0.7	1.03	180	125	14.2	0.95
19	3/4	300	12	250	25	4	0.85	28	4	1.77	1.0	1.78	20	1.0	1.77	220	150	17.2	1.62
22	7/8	325	13	269	28	5	1.17	33	5	2.55	1.5	2.58	21	1.5	2.60	250	165	20.3	2.34
25	1	350	14	285	32.5	6	1.69	35	6	3.79	2.0	3.77	26	2.0	3.72	270	175	23.3	3.27
32	1-1/4	400	16	310	45	8	3.51	36X70	10	7.6	3.0	7.52	34	3.0	7.44	300	200	29	6.52
38	1-1/2	450	18	350	55	10	5.08	40X80	15	13.50	4.0	12.8	35	4.0	22	330	225	38	13
44	1-3/4	500	20	386	57	-	9.00	-	-	-	-	-	-	-	22	-	250	44	-
50	2	550	22	420	65	-	11.50	-	-	-	-	-	-	-	29	-	275	50	-

US TYPE DROP FORGED TURNBUCKLE HOOK & HOOK TYPE



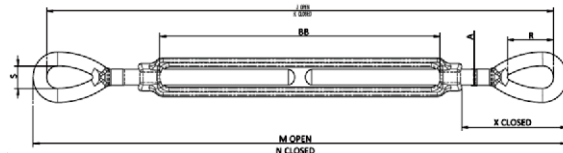
THREAD DIA & TAKE UP(IN)	WORKING LOAD LIMIT(LBS)	WEIGHT EACH (LBS)	DIMENSIONS (IN)								
			A	D	E CLOSED	F	J OPEN	K CLOSED	M OPEN	N CLOSED	BB
1/4X4	400	0.33	0.25	0.45	1.59	1.27	11.12	7.12	11.94	7.94	4.00
5/16X4-1/2	700	0.47	0.31	0.50	1.94	1.50	12.81	8.31	13.81	9.31	4.50
3/8X6	1000	0.78	0.38	0.56	2.30	1.77	16.50	10.50	17.72	11.72	6.00
1/2X6	1500	1.60	0.50	0.66	2.94	2.28	17.82	11.82	19.38	13.38	6.00
1/2X9	1500	1.83	0.50	0.66	2.94	2.28	23.82	14.82	25.35	16.38	9.00
1/2X12	1500	2.28	0.50	0.66	2.94	2.28	29.82	17.82	31.38	19.38	12.00
5/8X6	2250	2.75	0.63	0.84	3.69	2.81	19.25	13.25	21.25	15.25	6.00
5/8X9	2250	3.38	0.63	0.84	3.69	2.81	25.25	16.25	27.25	18.25	9.00
5/8X12	2250	3.50	0.75	0.84	3.69	2.81	31.25	19.25	33.25	21.25	12.00
3/4X6	3000	3.89	0.75	0.98	4.52	3.33	20.88	14.88	23.28	17.28	6.00
3/4X9	3000	5.28	0.75	0.98	4.52	3.33	26.88	17.88	29.28	20.28	9.00
3/4X12	3000	5.43	0.75	0.98	4.52	3.33	32.88	20.88	35.28	23.28	12.00
3/4X18	3000	6.33	0.88	0.98	4.52	3.33	44.88	26.88	47.28	29.28	18.00
7/8X12	4000	8.10	0.88	1.13	5.19	3.78	34.25	22.25	37.00	25.00	12.00
7/8X18	4000	9.95	1.00	1.13	5.19	3.78	46.25	28.25	49.00	31.00	18.00
1X6	5000	9.33	1.00	1.25	5.84	4.25	23.63	17.63	26.69	20.69	6.00
1X12	5000	11.93	1.00	1.25	5.84	4.25	35.63	23.63	38.69	26.69	12.00
1X18	5000	14.00	1.00	1.25	5.84	4.25	47.63	29.63	50.69	32.69	18.00
1X24	5000	17.25	1.25	1.25	5.84	4.25	59.63	35.63	62.69	38.69	24.00
1-1/4X12	6500	20.58	1.25	1.50	7.22	5.13	37.94	25.94	41.56	29.56	12.00
1-1/4X18	6500	23.00	1.25	1.50	7.22	5.13	49.94	31.94	53.56	35.56	18.00
1-1/4X24	6500	27.00	1.50	1.50	7.22	5.13	61.97	37.94	65.56	41.56	24.00
1-1/2X12	7500	27.50	1.50	1.88	8.34	5.75	40.94	28.94	44.44	32.44	12.00
1-1/2X18	7500	31.00	1.50	1.88	8.34	5.75	52.96	34.94	56.44	38.44	18.00
1-1/2X24	7500	37.50	1.50	1.88	8.34	5.75	64.94	40.94	68.44	44.44	24.00

US TYPE DROP FORGED TURNBUCKLE EYE & HOOK TYPE



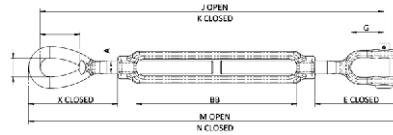
THREAD DIA & TAKE UP (IN)	WORKING LOAD LIMIT (LBS)	WEIGHT EACH (LBS)	DIMENSIONS (IN)											
			A	D	E CLOSED	F	J OPEN	K CLOSED	M OPEN	N CLOSED	R	S	X CLOSED	BB
1/4X4	400	0.29	0.25	0.45	1.59	1.27	11.46	7.46	12.09	8.09	0.78	0.34	1.75	4.00
5/16X4-1/2	700	0.49	0.31	0.50	1.94	1.50	13.19	8.69	13.47	9.47	0.94	0.44	2.09	4.50
3/8X6	1000	0.78	0.38	0.56	2.30	1.77	16.98	10.98	17.49	11.94	1.12	0.53	2.52	6.00
1/2X6	1500	1.61	0.50	0.66	2.94	2.28	18.45	12.45	19.67	13.67	1.44	0.72	3.23	6.00
1/2X9	1500	1.85	0.50	0.66	2.94	2.28	24.45	15.45	25.67	16.67	1.44	0.72	3.23	9.00
1/2X12	1500	2.26	0.50	0.66	2.94	2.28	30.45	18.45	31.67	19.67	1.44	0.72	3.23	12.00
5/8X6	2250	2.70	0.63	0.84	3.69	2.81	19.96	13.96	21.47	15.47	1.75	0.88	3.90	6.00
5/8X9	2250	3.13	0.63	0.84	3.69	2.81	25.96	16.96	27.47	18.47	1.75	0.88	3.90	9.00
5/8X12	2250	3.78	0.63	0.84	3.69	2.81	31.96	19.96	33.47	21.47	1.75	0.88	3.90	12.00
3/4X6	3000	3.89	0.75	0.98	4.52	3.33	21.63	15.63	23.45	17.45	2.09	1.00	4.69	6.00
3/4X9	3000	4.61	0.75	0.98	4.52	3.33	27.63	18.63	29.45	20.45	2.09	1.00	4.69	9.00
3/4X12	3000	5.83	0.75	0.98	4.52	3.33	33.63	21.63	35.45	23.45	2.09	1.00	4.69	12.00
3/4X18	3000	6.33	0.75	0.98	4.52	3.33	45.63	27.63	47.45	29.45	2.09	1.00	4.69	18.00
7/8X12	4000	8.10	0.88	1.13	5.19	3.78	34.78	22.78	36.91	24.91	2.38	1.25	5.10	12.00
7/8X18	4000	9.95	0.88	1.13	5.19	3.78	46.78	28.78	48.91	30.91	2.38	1.25	5.10	18.00
1X6	5000	9.33	1.00	1.25	5.84	4.25	24.80	18.80	27.20	21.20	3.00	1.44	6.36	6.00
1X12	5000	11.93	1.00	1.25	5.84	4.25	36.80	24.78	39.20	27.20	3.00	1.44	6.36	12.00
1X18	5000	14.00	1.00	1.25	5.84	4.25	48.80	30.80	51.20	33.20	3.00	1.44	6.36	18.00
1X24	5000	17.25	1.00	1.25	5.84	4.25	60.80	36.80	63.20	39.20	3.00	1.44	6.36	24.00
1-1/4X12	6500	19.00	1.25	1.50	7.22	5.13	39.13	27.13	42.06	30.06	3.56	1.81	7.72	12.00
1-1/4X18	6500	23.00	1.25	1.50	7.22	5.13	51.13	33.13	54.06	36.06	3.56	1.81	7.72	18.00
1-1/4X24	6500	24.00	1.25	1.50	7.22	5.13	63.13	39.13	66.06	42.06	3.56	1.81	7.72	24.00
1-1/2X12	7500	27.50	1.50	1.88	8.34	5.75	41.72	29.72	44.72	32.72	4.06	2.12	8.62	12.00
1-1/2X18	7500	31.00	1.50	1.88	8.34	5.75	53.72	35.72	56.72	38.72	4.06	2.12	8.62	18.00
1-1/2X24	7500	37.50	1.50	1.88	8.34	5.75	65.72	41.72	68.72	44.72	4.06	2.12	8.62	24.00

US TYPE DROP FORGED TURNBUCKLE EYE & EYE TYPE



THREAD DIA & TAKE UP (IN)	WORKING LOAD LIMIT (LBS)	WEIGHT EACH (LBS)	DIMENSIONS (IN)								
			A	J OPEN	K CLOSED	M OPEN	N CLOSED	R	S	X CLOSED	BB
1/4X4	500	0.29	0.25	11.94	7.94	12.38	8.38	0.81	0.34	1.76	4.07
5/16X4-1/2	800	0.48	0.31	13.92	9.42	14.48	9.98	0.95	0.44	2.20	4.58
3/8X6	1200	0.75	0.38	17.56	11.56	18.24	12.24	1.13	0.53	2.48	6.10
1/2X6	2200	1.72	0.50	19.94	13.94	20.82	14.82	1.41	0.71	3.56	6.03
1/2X12	2200	2.63	0.50	32.23	20.23	33.11	21.11	1.41	0.71	3.54	12.36
5/8X6	3500	2.75	0.63	21.72	15.72	22.72	16.72	1.80	0.88	4.35	6.03
5/8X12	3500	4.12	0.63	34.06	22.06	35.06	23.06	1.80	0.88	4.34	12.39
3/4X6	5200	4.22	0.75	23.24	17.24	24.50	18.50	2.09	1.00	5.12	6.13
3/4X12	5200	6.12	0.75	35.64	23.64	36.90	24.90	2.09	1.00	5.09	12.59
3/4X18	5200	7.83	0.75	47.64	29.64	48.90	30.90	2.09	1.00	5.12	18.53
7/8X12	7200	8.83	0.88	36.70	24.70	38.20	26.20	2.38	1.25	5.79	12.16
7/8X18	7200	11.50	0.88	49.17	31.17	50.67	32.67	2.38	1.25	5.79	18.63
1X6	10000	9.62	1.00	26.24	20.24	28.00	22.00	3.00	1.43	6.50	6.18
1X12	10000	13.00	1.00	38.24	26.24	40.00	28.00	3.00	1.43	6.50	12.18
1X18	10000	16.30	1.00	50.24	32.24	52.00	34.00	3.00	1.43	6.50	18.18
1X24	10000	20.20	1.00	62.84	38.84	64.60	40.60	3.00	1.43	6.47	24.84
1-1/4X12	15200	19.90	1.25	42.14	30.14	44.38	32.38	3.59	1.82	8.49	12.06
1-1/4X18	15200	23.80	1.25	54.14	36.14	56.38	38.38	3.59	1.82	8.49	18.06
1-1/4X24	15200	27.80	1.25	66.70	42.70	68.94	44.94	3.59	1.82	8.49	24.62
1-1/2X12	21400	28.70	1.50	44.24	32.24	46.74	34.74	4.09	2.12	9.46	12.32
1-1/2X18	21400	34.10	1.50	56.24	38.24	58.74	40.74	4.09	2.12	9.46	18.32
1-1/2X24	21400	39.60	1.50	68.86	44.86	71.36	47.36	4.09	2.12	9.46	24.94
1-3/4X18	28000	50.70	1.75	57.38	39.38	60.38	42.38	4.65	2.38	9.97	18.37
1-3/4X24	28000	58.20	1.75	69.38	45.38	72.38	48.38	4.65	2.38	9.97	24.37
2X24	37000	83.50	2.00	75.68	51.68	79.18	55.18	5.81	2.69	13.03	24.48
2-1/2X24	60000	149.00	2.50	79.18	55.18	83.18	59.18	6.49	3.12	13.76	24.60
2-3/4X24	75000	174.00	2.75	81.34	57.34	85.84	61.84	7.00	3.25	15.09	24.65

US TYPE DROP FORGED TURNBUCKLE EYE & JAW TYPE



THREAD DIA & TAKE UP (IN)	WORKING LOAD LIMIT (LBS)	WEIGHT EACH (LBS)	DIMENSIONS (IN)											
			A	B	E CLOSED	G	J OPEN	K CLOSED	M OPEN	N CLOSED	R	S	X CLOSED	BB
1/4X4	500	0.33	0.25	0.45	1.66	0.64	11.57	7.57	12.28	8.28	0.81	0.34	1.76	4.07
5/16X4-1/2	800	0.52	0.31	0.50	2.02	0.87	13.50	9.00	14.30	9.80	0.95	0.44	2.20	4.58
3/8X6	1200	0.80	0.38	0.53	2.11	0.85	16.91	10.91	17.87	11.87	1.13	0.53	2.48	6.10
1/2X6	2200	1.77	0.50	0.64	3.22	1.07	19.30	13.30	20.48	14.48	1.41	0.71	3.56	6.03
1/2X9	2200	2.25	0.50	0.64	3.20	1.07	25.59	16.59	26.77	17.77	1.41	0.71	3.54	9.36
1/2X12	2200	2.67	0.50	0.64	3.20	1.07	31.59	19.59	32.77	20.77	1.41	0.71	3.54	12.36
5/8X6	3500	2.98	0.63	0.79	3.90	1.32	20.73	14.73	22.27	16.27	1.80	0.88	4.35	6.03
5/8X9	3500	3.72	0.63	0.79	3.89	1.32	27.07	18.07	28.61	19.61	1.80	0.88	4.34	9.39
5/8X12	3500	4.35	0.63	0.79	3.89	1.32	33.07	21.07	34.61	22.61	1.80	0.88	4.34	12.39
3/4X6	5200	4.51	0.75	0.97	4.71	1.52	22.17	16.17	24.09	18.09	2.09	1.00	5.12	6.13
3/4X9	5200	5.56	0.75	0.97	4.68	1.52	28.57	19.57	30.49	21.49	2.09	1.00	5.09	9.59
3/4X12	5200	6.42	0.75	0.97	4.68	1.52	34.57	22.57	36.49	24.49	2.09	1.00	5.09	12.59
3/4X18	5200	8.14	0.75	0.97	4.71	1.52	46.57	28.57	48.49	30.49	2.09	1.00	5.12	18.53
7/8X12	7200	9.10	0.88	1.16	5.50	1.77	35.68	23.68	37.91	25.91	2.38	1.25	5.79	12.16
7/8X18	7200	11.6	0.88	1.16	5.50	1.77	48.15	30.15	50.38	32.38	2.38	1.25	5.79	18.63
1X6	10000	10.0	1.00	1.34	6.09	2.05	25.03	19.03	27.59	21.59	3.00	1.43	6.50	6.18
1X12	10000	13.4	1.00	1.34	6.09	2.05	37.03	25.03	39.59	27.59	3.00	1.43	6.50	12.18
1X18	10000	16.7	1.00	1.34	6.09	2.05	49.03	31.03	51.59	33.59	3.00	1.43	6.50	18.18
1X24	10000	20.6	1.00	1.34	6.06	2.05	61.63	37.63	64.19	40.19	3.00	1.43	6.47	24.84
1-1/4X12	15200	20.9	1.25	1.84	8.09	2.82	40.76	28.76	43.98	31.98	3.59	1.82	8.49	12.06
1-1/4X18	15200	24.8	1.25	1.84	8.09	2.82	52.76	34.76	55.98	37.98	3.59	1.82	8.49	18.06
1-1/4X24	15200	28.8	1.25	1.84	8.09	2.82	65.32	41.32	68.54	44.54	3.59	1.82	8.49	24.62
1-1/2X12	21400	30.6	1.50	2.06	8.93	2.81	42.50	30.50	46.21	34.21	4.09	2.12	9.46	12.32
1-1/2X18	21400	36.0	1.50	2.06	8.93	2.81	54.50	36.50	58.21	40.21	4.09	2.12	9.46	18.32
1-1/2X24	21400	41.5	1.50	2.06	8.93	2.81	67.12	43.12	70.83	46.83	4.09	2.12	9.46	24.94
1-3/4X18	28000	52.1	1.75	2.60	9.36	3.35	55.37	37.37	59.77	41.77	4.65	2.38	9.97	18.37
1-3/4X24	28000	59.7	1.75	2.60	9.36	3.35	67.37	43.37	71.77	47.77	4.65	2.38	9.97	24.37
2X24	37000	89.9	2.00	2.62	11.80	3.74	72.66	48.66	77.95	53.95	5.81	2.69	13.03	24.48
2-1/2X24	60000	158	2.50	3.06	13.26	4.44	76.08	52.08	82.68	58.68	6.49	3.12	13.76	24.60
2-3/4X24	75000	187	2.75	3.69	14.92	4.19	78.05	54.05	85.67	61.67	7.00	3.25	15.09	24.65

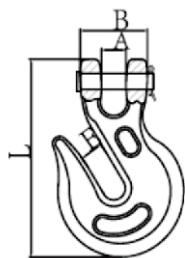
US TYPE DROP FORGED TURNBUCKLE JAW & JAW TYPE



THREAD DIA & TAKE UP (IN)	WORKING LOAD LIMIT (LBS)	WEIGHT EACH (LBS)	DIMENSIONS (IN)									
			A	B	E CLOSED	G	J OPEN	K CLOSED	M OPEN	N CLOSED	BB	
1/4X4	500	0.37	0.25	0.45	1.66	0.64	11.19	7.19	12.18	8.18	4.07	
5/16X4-1/2	800	0.56	0.31	0.50	2.02	0.87	13.07	8.57	14.12	9.62	4.58	
3/8X6	1200	0.85	0.38	0.53	2.11	0.85	16.25	10.25	17.50	11.50	6.10	
1/2X6	2200	1.82	0.50	0.64	3.22	1.07	18.65	12.65	20.14	14.14	6.03	
1/2X9	2200	2.29	0.50	0.64	3.20	1.07	24.94	15.94	26.43	17.43	9.36	
1/2X12	2200	2.71	0.50	0.64	3.20	1.07	30.94	18.94	32.43	20.43	12.36	
5/8X6	3500	3.21	0.63	0.79	3.90	1.32	19.74	13.74	21.82	15.82	6.03	
5/8X9	3500	3.95	0.63	0.79	3.89	1.32	26.08	17.08	28.16	19.16	9.39	
5/8X12	3500	4.58	0.63	0.79	3.89	1.32	32.08	20.08	34.16	22.16	12.39	
3/4X6	5200	4.80	0.75	0.97	4.71	1.52	21.09	15.09	23.68	17.68	6.13	
3/4X9	5200	5.85	0.75	0.97	4.68	1.52	27.49	18.49	30.08	21.08	9.59	
3/4X12	5200	6.72	0.75	0.97	4.68	1.52	33.49	21.49	36.08	24.08	12.59	
3/4X18	5200	8.45	0.75	0.97	4.71	1.52	45.49	27.49	48.08	30.08	18.53	
7/8X12	7200	9.37	0.88	1.16	5.50	1.77	34.65	22.65	37.62	25.62	12.16	
7/8X18	7200	11.8	0.88	1.16	5.50	1.77	47.12	29.12	50.09	32.09	18.63	
1X6	10000	10.4	1.00	1.34	6.09	2.05	23.82	17.82	27.18	21.18	6.18	
1X12	10000	13.8	1.00	1.34	6.09	2.05	35.82	23.82	39.18	27.18	12.18	
1X18	10000	17.1	1.00	1.34	6.09	2.05	47.82	29.82	51.18	33.18	18.18	
1X24	10000	21.0	1.00	1.34	6.06	2.05	60.42	36.42	63.78	39.78	24.84	
1-1/4X12	15200	21.9	1.25	1.84	8.09	2.82	39.37	27.37	43.58	31.58	12.06	
1-1/4X18	15200	25.9	1.25	1.84	8.09	2.82	51.37	33.37	55.58	37.58	18.06	
1-1/4X24	15200	29.8	1.25	1.84	8.09	2.82	63.93	39.93	68.14	44.14	24.62	
1-1/2X12	21400	32.6	1.50	2.06	8.93	2.81	40.76	28.76	45.68	33.68	12.32	
1-1/2X18	21400	38.0	1.50	2.06	8.93	2.81	52.76	34.76	57.68	39.68	18.32	
1-1/2X24	21400	43.5	1.50	2.06	8.93	2.81	65.38	41.38	70.30	46.30	24.94	
1-3/4X18	28000	53.5	1.75	2.60	9.36	3.35	53.35	35.35	59.16	41.16	18.37	
1-3/4X24	28000	61.1	1.75	2.60	9.36	3.35	65.35	41.35	71.16	47.16	24.37	
2X24	37000	96.3	2.00	2.62	11.80	3.74	69.64	45.64	76.72	52.72	24.48	
2-1/2X24	60000	167	2.50	3.06	13.26	4.44	72.97	48.97	82.18	58.18	24.60	
2-3/4X24	75000	199	2.75	3.69	14.92	4.19	74.75	50.75	85.50	61.50	24.65	

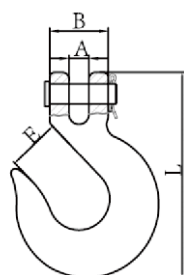


CLEVIS GRAB HOOK H330/A330



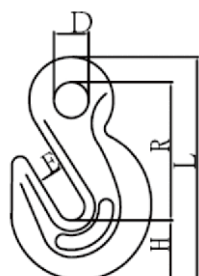
SIZE IN	WLL(LBS)		DIMENSIONS(MM)				WEIGHT LBS/PC
	CARBON	ALLOY	A	B	E	L	
1/4"	2600	3500	8.5	25	9.2	78.5	0.36
5/16"	3900	4700	10	30.5	11	93	0.62
3/8"	5400	7100	13	35	12.7	114.5	1
7/16"	7200	8750	17	42	14.5	126	1.31
1/2"	9200	12000	19	47	17	144	2.22
5/8"	13000	18100	23	56	20	177	4.41
3/4"	20200	24700	24	66.5	24	207.5	6.5

CLEVIS SLIP HOOK H331/A331



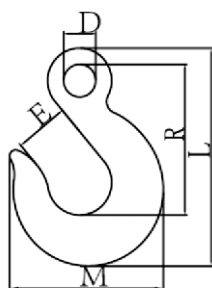
SIZE IN	WLL(LBS)		DIMENSIONS(MM)				WEIGHT LBS/PC
	CARBON	ALLOY	A	B	E	L	
1/4"	1950	2750	11	27	23.5	100	0.55
5/16"	2875	4300	12.5	33	25.5	114	0.79
3/8"	4000	5250	15	39	32	132	1.21
7/16"	5000	7000	17	44	40	147	2.06
1/2"	6500	9000	19	48	42.5	166	2.75
5/8"	9250	13500	18.5	58.7	51	200	4.75
3/4"	12500	19250	30	81	64.5	257	11.28

EYE GRAB HOOK H323/A323



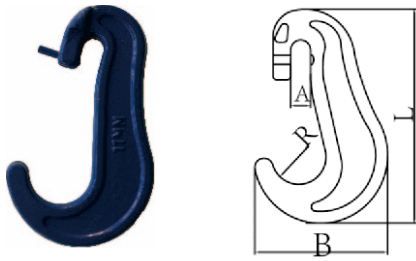
SIZE IN	WLL(LBS)		DIMENSIONS(MM)					WEIGHT LBS/PC
	CARBON	ALLOY	R	H	D	E	L	
1/4"	2600	3500	50.5	18.5	13	9	77	0.28
5/16"	3900	4700	56.8	22.7	14	11.5	89	0.45
3/8"	5400	7100	65.2	28.3	17	13	104	0.79
7/16"	7200	8750	77	33.5	20	15.5	122	1.26
1/2"	9200	12000	85.5	37.5	22	17	135	1.75
5/8"	13000	18100	116	45	30	21	180	3.25
3/4"	20200	24700	133.5	55	35	25	211	5.94

EYE SLIP HOOK H324/A324



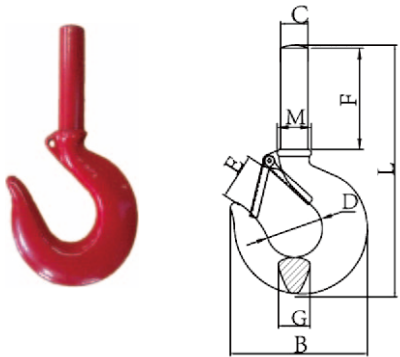
SIZE IN	WLL(LBS)		DIMENSIONS(MM)					WEIGHT LBS/PC
	CARBON	ALLOY	D	R	L	M	E	
1/4"	1950	2750	12.7	65	92	68.50	23	0.40
5/16"	2875	4300	16	72.5	106	76.00	26	0.64
3/8"	4000	5250	18	86.5	124	89.50	33	1.10
7/16"	5000	7000	20.5	98.5	142	108.00	40	1.56
1/2"	6500	9000	23	109.5	156	116.50	43	2.09
5/8"	9250	13500	28.8	132.5	195	143.00	52	3.90
3/4"	12500	19250	35	147.5	222	169.00	55	6.93

LASHING C HOOKS WITH PIN FOR CHAINS



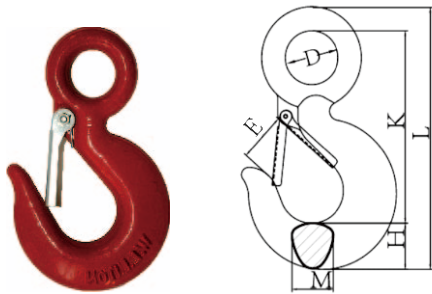
SIZE	WEIGHT	WLL	M.B.S.	DIMENSIONS(MM)			
MM	KG/PC	TON	TON	L	A	B	R
9	0.5	2.5	10	143	13.5	90.5	18.5
11	0.85	3.75	15	177	15.5	109.5	22
13	1.38	5.4	21.6	205	17.7	129	25.5

S-319 FORGED SHANK HOOKS



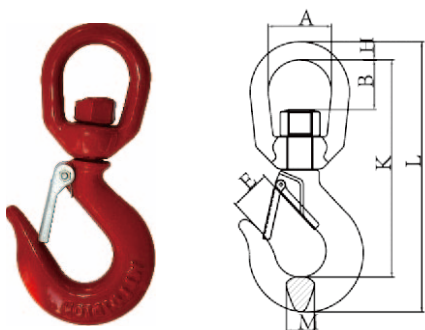
WLL(TON)		DIMENSIONS(MM)								WEIGHT
CARBON	ALLOY	B	E	C	M	G	F	D	L	KG/PC
3/4	1	73	25	15	18	16	51	32	127	0.23
1	1-1/2	80.3	25.5	16.7	20	18	58	35	147	0.34
1-1/2	2	92	30.4	18.4	23	22.5	67	38	165	0.45
2	3	105	32	22.4	26	24	69	41.4	177.5	0.84
3	5	126	38.5	29.5	32	29	82	51	216.5	1.75
5	7	167	47	35.8	40	36	95.5	64	262.5	3.29
7-1/2	11	192	61	46	51	47.7	111.2	76	323	6.1
10	15	214.6	66	50.8	55.6	55.5	114	82.5	342	8.2
15	22	262.5	89.5	65	68.8	68.5	141	108	426	16

S-320 LIFTING EYE HOOKS



WLL(TON)		DIMENSIONS(MM)						WEIGHT
CARBON	ALLOY	D	E	H	K	M	L	KG/PC
1/2	3/4	16.5	19	17	72	16	97	0.2
3/4	1	19	22	19	82	16	110	0.26
1	1-1/2	23	23	21	93.5	17.5	125	0.4
1-1/2	2	28	25	26	103	21	140.5	0.6
2	3	31	27.5	28	119	23	162	0.85
3	5	39	34.5	37	146	30	201	1.65
5	7	51	41	46	186.5	38	256	3.2
7-1/2	11	62	53	57	231.5	46	317	6.2
10	15	73	57	66	260	55	360	9.5
15	22	89	77	76	318	68.5	434	17.9
20	30	90	82	91	360	70	495.5	27.2

S-322 SWIVEL HOOK

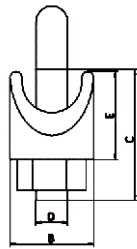
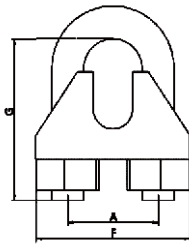


WLL(TON)		DIMENSIONS(MM)							WEIGHT
CARBON	ALLOY	A	E	B	H	K	L	M	KG/PC
1/2	3/4	31.5	17	22.5	9	110	137	15	0.3
3/4	1	32	17	22.5	9	108.3	137	16	0.4
1	1-1/2	37.5	22.5	29.5	12	133.5	163	16	0.6
1-1/2	2	42.5	26	33	15.8	150.5	192	17.5	1.05
2	3	42.5	26	33	15.8	163	209	23	1.25
3	5	48	32.5	39	18	191	246	31	2.4
5	7	64	43	53	25	243.5	313	34	4.6
7-1/2	11	70	49.5	53	28.5	277	364	41.5	7.3
10	15	79	54.5	62	32	332	431	55.7	12.77
15	22	105	81	108	40	427	543	70	24.5
20	30	105	100	96	40	465	596	76.2	34.5

WIRE ROPE CLIPS

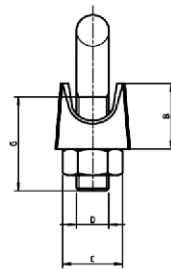
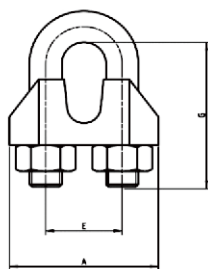


DIN 13411-5 TYPE MALLEABLE WIRE ROPE CLIP



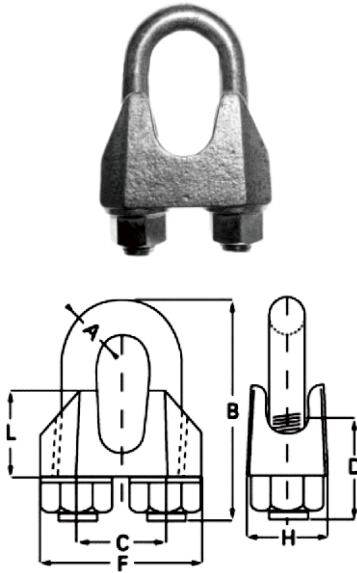
SIZE	A	B	C	D	E	F	G	W/100PCS
MM	MM	MM	MM	MM	MM	MM	MM	KGS
5	7	13	13	5	13	25	20	2.08
6.5	8	16	17	6	14	30	26	4
8	10	20	20	8	18	39	33	8.2
10	12	20	24	8	21	40	38	9.2
13	15	28	30	12	29	55	52	27.5
16	18	32	35	14	35	64	64	43
19	22	32	36	14	40	68	69	49
22	24	34	40	16	44	74	80	68
26	26	38	50	20	51	84	91	117
30	34	41	55	22	59	95	107	140
34	38	45	60	22	67	105	119	213
40	44	49	65	24	77	117	135	268

DIN741 TYPE MALLEABLE WIRE ROPE CLIP



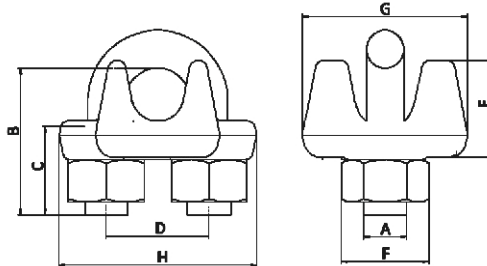
SIZE	A	B	C	D	E	F	G	W/100PCS
MM	MM	MM	MM	MM	MM	MM	MM	KGS
3	21	10	10	4	9	12	16.6	0.8
5	23	10	11	5	11	13	19.95	1.2
6	26	11	12	5	13	15	23.65	1.5
8	30	15	14	6	16	19	28.85	2.5
10	34	17	18	8	19	22	35	5.4
12	36	18	19	8	20	22	37	10.5
13	40	21	23	10	24	30	46.24	10.5
15	44	22	23	10	25	30	48.24	13.5
16	50	26	26	12	29	33	42.5	17
20	54	30	29	12	32	38	64.5	21.5
22	61	34	33	14	37	44	72.5	33
25	65	37	35	14	41	45	82.5	39
28	74	43	37	16	48	50	95.6	56
32	80	50	42	16	52	55	105.6	66
40	88	55	45	16	58	60	125.6	82

DIN1142 TYPE MALLEABLE WIRE ROPE CLIP



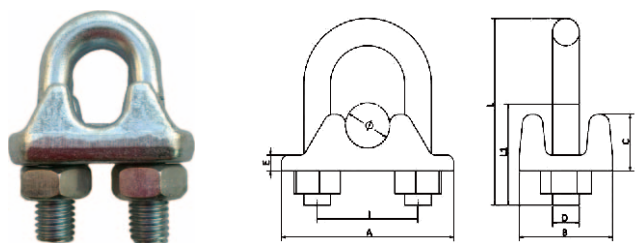
DIA.	A	B	C	D	F	H	L	WEIGHT
MM	MM	MM	MM	MM	MM	MM	MM	KGS/100PCS
5	5	25	12	13	25	13	13	2.1
6.5	6	32	14	17	30	16	14	4
8	8	41	18	20	39	20	18	8.2
10	8	46	20	24	40	20	21	9.2
12	10	56	24	28	50	24	25	25
13	12	64	27	30	55	28	29	27.5
14	12	66	28	31	59	28	30	35
16	14	76	32	35	64	32	35	43
19	14	83	36	36	68	32	40	49
22	16	96	40	40	74	34	44	68
26	20	111	46	50	84	38	51	117
30	20	127	54	55	95	41	59	140
34	22	141	60	60	105	45	67	213
40	24	159	68	65	117	49	77	268

U.S. TYPE G-450 DROP FORGED WIRE ROPE CLIP



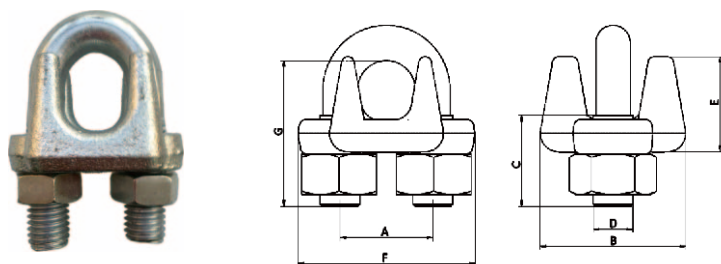
ROPE SIZE		WEIGHT PER 100PCS (LBS)	DIMENSIONS (IN.)							
(IN)	(MM)		A	B	C	D	E	F	G	H
1/8"	3-4	6	0.22	0.72	0.44	0.47	0.37	0.38	0.81	0.99
3/16"	5	10	0.25	0.97	0.56	0.59	0.50	0.44	0.94	1.18
1/4"	6-7	19	0.31	1.03	0.50	0.75	0.66	0.56	1.19	1.43
5/16"	8	28	0.38	1.38	0.75	0.88	0.73	0.69	1.31	1.66
3/8"	9-10	48	0.44	1.5	0.75	1.00	0.91	0.75	1.63	1.94
7/16"	11	78	0.50	1.88	1.00	1.19	1.13	0.88	1.91	2.28
1/2"	12-13	80	0.50	1.88	1.00	1.19	1.13	0.88	1.91	2.28
9/16"	14-15	109	0.56	2.25	1.25	1.31	1.34	0.94	2.06	2.50
5/8"	16	110	0.56	2.25	1.25	1.31	1.34	0.94	2.06	2.50
3/4"	18-20	142	0.62	2.75	1.44	1.50	1.39	1.06	2.25	2.84
7/8"	22	212	0.75	3.12	1.62	1.75	1.58	1.25	2.44	3.16
1"	24-26	252	0.75	3.50	1.81	1.88	1.77	1.25	2.63	3.47
1-1/8"	28-30	283	0.75	3.88	2.00	2	1.91	1.25	2.81	3.59
1-1/4"	32-34	438	0.88	4.44	2.22	2.34	2.17	1.44	3.13	4.13
1-3/8"	36	442	0.88	4.44	2.22	2.34	2.31	1.44	3.13	4.19
1-1/2"	38	544	0.88	4.94	2.38	2.59	2.44	1.44	3.41	4.44
1-5/8"	41-42	704	1.00	5.31	2.62	2.75	2.66	1.63	3.63	4.75
1-3/4"	44-46	934	1.13	5.75	2.75	3.06	2.92	1.81	3.81	5.24
2"	48-52	1300	1.25	6.44	3.00	3.38	3.03	2.00	4.44	5.88
2-1/4"	56-58	1600	1.25	7.13	3.19	3.88	3.19	2.00	4.56	6.38
2-1/2"	62-65	1900	1.25	7.69	3.44	4.13	3.69	2.00	4.69	6.63
2-3/4"	68-72	2300	1.25	8.31	3.56	4.38	4.88	2.00	5.00	6.88
3"	75-78	3100	1.50	9.19	3.88	4.75	4.44	2.38	5.31	7.61
3-1/2"	85-90	4000	1.50	10.75	4.50	5.50	6.00	2.38	6.19	8.38

ITALY TYPE FORGED WIRE ROPE CLIP



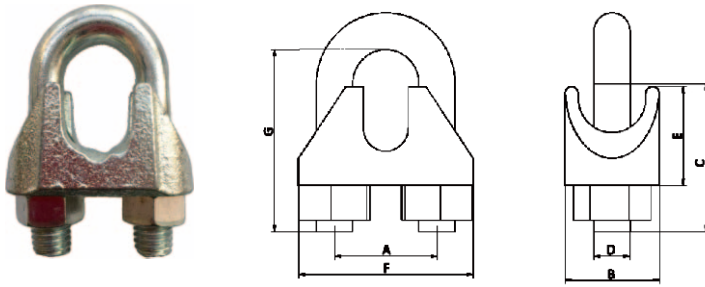
SIZE	A	B	C	D	E	I	L	L1
MM	MM	MM	MM	MM	MM	MM	MM	MM
3-4	21	14	9	4	4.5	9	20	11
5	25	17	10	5	4.5	11	24	13
6	30	19	11	6	5	14	33	18
8	34	20	12	6	5	16	35	18
10	38	22	14	8	6	18.5	44	22
11	41	24	14.3	8	7	22	44	22
12	45	25	16	10	7	24	55	33
14	46	27	17	10	7.5	24	55	33
16	53	31	18	10	8	30	65	33
18	59	33	20	12	8	30	78	38
20	60	34	22	12	8	34	78	38
22	66	35	23	12	8	36	81	45
24-25	70	40	24	12	9	39	86	45
26	72	40	26.5	14	12	42	95	50
28	80	43	30	14	12	43	110	55
30	80	44	33	14	10	47	110	50
32	92	45	34	16	14	49	115	60
34	90	48	37	16	11	53	120	55
38	95	51	39	16	16	57	130	63
40	100	55	40	16	14	59	140	60
45	116	60	47	16	17	70	158	83

TYPE A MALLEABLE WIRE ROPE CLIP



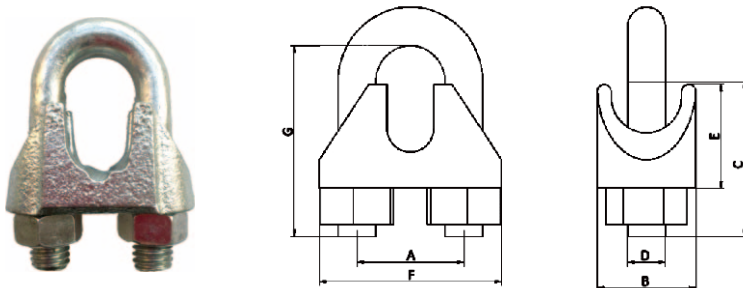
SIZE	A	B	C	D	E	F	G
MM	MM	MM	MM	MM	MM	MM	MM
6	12	17	14	5	14	23	24.8
8	15	21	16	6	17	28	30.66
10	19	28	20	8	21	38	37.95
12	24	34	25	10	27	45	47.15
15	20	40	30	12	32	52	57.73
20	36	47	36	14	38	62	71.73
22	40	52	39	16	43	69	78.23
25	43	56	44	18	50	76	90.4
28	48	62	48	20	57	85	96.9
32	55	67	51	22	61	93	110.4
40	64	81	62	24	73	111	122.5
45	72	88	70	27	86	123	139.5
50	80	95	80	30	95	135	156

TYPE B MALLEABLE WIRE ROPE CLIP



SIZE	A	B	C	D	E	F	G
IN	MM	MM	MM	MM	MM	MM	MM
1/8	9	12	12	4	9.5	19	20
3/16	11	13.5	14	5	10.8	22	26
1/4	12.5	15.5	14	6	11.5	25	26
5/16	15.5	18	16	6	16	31	31
3/8	21	22	20	8	20	40	37
1/2	25	25	24	10	26	47	46
5/8	30	28	28	12	31	55	57
11/16	33	28.5	30	12	35	58.5	64
3/4	36.5	31	34	16	36	65	71
7/8	40	36	38	16	43	72	77
1	45	40	44	20	48	80	88

U.S TYPE MALLEABLE WIRE ROPE CLIP

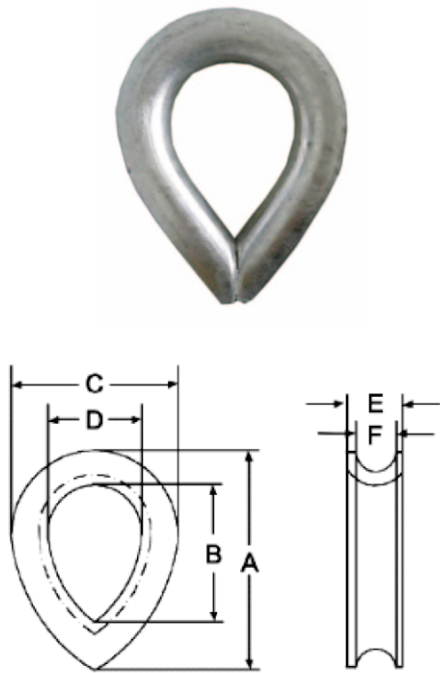


SIZE	A	B	C	D	E	F	G	W/100PCS KGS
IN	MM	MM	MM	IN	MM	MM	MM	MM
1/8	11	14	14	1/4	10.8	22	20	1.54
3/16	14.5	15	16	1/4	13	26	24	2.5
1/4	17	18.5	20	5/16	15	32	31	5.3
5/16	18.3	20	22	5/16	16	35	34	5.9
3/8	22.5	22	27	3/8	22	40.5	41	11
7/16	24	23	30	3/8	22	43	42	11
1/2	27	26	35	7/16	23.3	49	53	18.5
9/16	30	26.5	40	1/2	27	52.5	54	25
5/8	33	28	40	1/2	28	57.5	59	28
3/4	34.5	32	42	9/16	34	61	68	35
7/8	41	37	46	5/8	38	71	78	53
1	45.5	42	55	5/8	43	77.5	87	66.6

WIRE ROPE THIMBLES

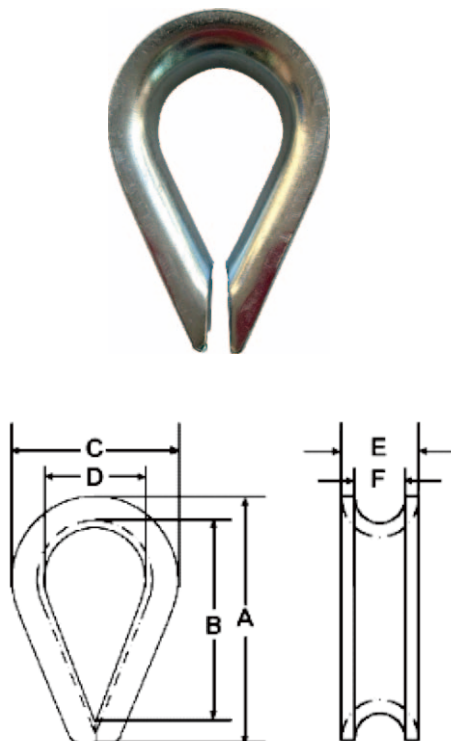


BS464 WIRE ROPE THIMBLE



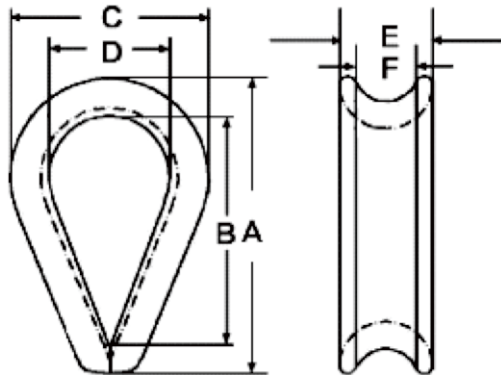
SIZE	DIMENSIONS IN						WT
IN.	A	B	C	D	E	F	KG/PC
5/16"	2-1/8"	1-5/16"	1-1/2"	7/8"	1/2"	5/16"	0.065
3/8"	2-1/2"	1-1/2"	1-7/8"	1"	9/16"	13/32"	0.091
7/16"	2-7/8"	1-1/2"	2-1/8"	1-1/8"	11/16"	1/2"	0.12
1/2"	3-1/8"	1-3/4"	2-5/16"	1-1/4"	13/16"	9/16"	0.16
9/16"	3-1/8"	1-3/4"	2-5/16"	1-1/4"	13/16"	9/16"	0.172
5/8"	3-7/8"	2-5/16"	2-15/16"	1-5/8"	7/8"	5/8"	0.26
11/16"	4-1/4"	2-5/8"	3-1/8"	1-3/4"	1-1/8"	3/4"	0.34
3/4"	4-7/8"	2-7/8"	3-5/8"	2"	1-1/8"	13/16"	0.45
7/8"	4-1/4"	3-1/4"	4"	2-1/4"	1-1/4"	7/8"	0.62
15/16"	5-3/4"	3-5/8"	4-11/16"	2-1/2"	1-5/16"	1"	0.8
1"	6-3/8"	4-1/4"	4-11/16"	2-3/4"	1-3/8"	1-1/16"	0.95
1 1/8"	7"	4-3/8"	5-1/4"	3"	1-1/8"	1-1/8"	1.27
1 1/4"	7-3/4"	5-1/4"	6"	3-3/4"	1-5/8"	1-5/16"	1.6
1 3/8"	9"	6"	6-7/8"	4-1/8"	1-7/8"	1-1/2"	2.35
1 1/2"	10"	6-1/2"	7-3/4"	4-1/2"	2-1/8"	1-5/8"	3.3
1 5/8"	10"	6-1/2"	7-3/4"	4-1/2"	2-3/16"	1-3/4"	3.35
1 3/4"	11-1/4"	7"	9"	5"	2-1/4"	2"	6.25
1 7/8"	12-1/4"	7-1/2"	9-3/4"	5-1/4"	2-5/8"	2-1/8"	7.7
2"	13"	8"	10-1/8"	5-1/2"	2-3/4"	2-3/8"	8.05
2 1/8"	13"	8"	10-1/8"	5-1/2"	2-3/4"	2-1/2"	8.3
2 1/4"	14"	8-1/2"	10-5/8"	5-3/4"	3"	2-5/8"	8.6
2 1/2"	16-1/4"	9-1/2"	12-1/4"	6-1/4"	3-3/4"	2-3/4"	17

DIN6899 A TYPE WIRE ROPE THIMBLE



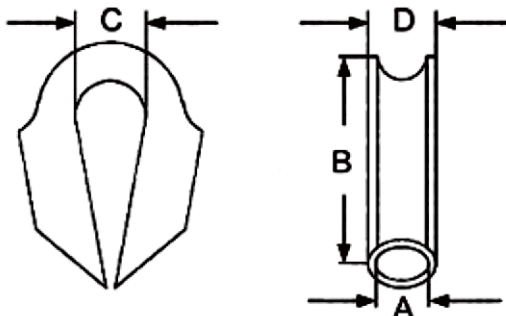
SIZE	DIMENSIONS MM						WT/ 100PCS
MM	A	B	C	D	E	F	
2.5	28	21.5	16	10	5	3	0.14
3	30	23.5	17	11	5.5	3.5	0.35
4	34	26.5	19	12	6	4	0.42
5	36	28	20	13	7	5	0.8
6	38	30	22	14	8	6	0.85
7	43	33	24	15	9	7	1.1
8	46	35	26	16	10	8	1.7
9	50	39	29	18	11	9	2.1
10	56	43	32	20	13	10	3.5
11	60	47.5	36	22	14	11	3.7
12	68	51.5	40	24	15	12	5.25
13	75	56.5	44	26	17	13	7.25
14	82	61	48	28	18	14	8.33
16	91	69.5	54	32	21	16.5	12.3
18	102	78	59	35	24	18	18.5
20	114	86.5	68	40	28	20	31.5
22	126	95	76	44	30	22	36.5
24	135	103.5	84	48	32	24	41.7
28	162	120.5	100	56	38	28	72.1

DIN6899 B TYPE WIRE ROPE THIMBLE



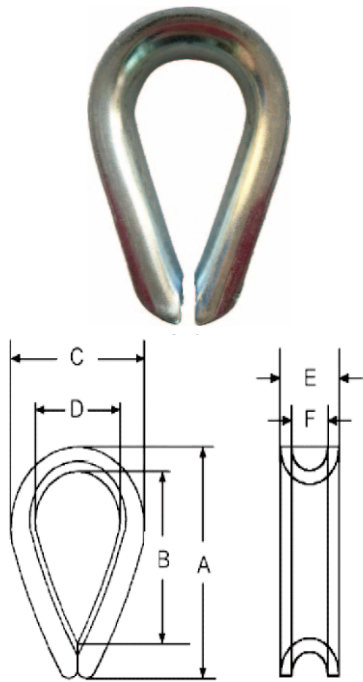
SIZE	DIMENSIONS MM						WT/ 100PCS
MM	A	B	C	D	E	F	KG/PC
3	28	19	18.5	12	6	3	0.6
4	30	21	20.5	13	7	4	0.7
5	33	23	22.5	14	8	5	1
6	39	26	27	16	10	6	1.6
7	43	30	30	18	11	7	2
8	48	32	33	20	12	8	2.4
10	58	38	39	24	14	10	3.5
12	69	45	47	28	17	12	6.3
13	73	48	50	30	18	13	7.8
14	77	51	53	32	19	14	8.6
16	88	58	60	36	22	16	12
17	95	61	65	38	25	17	18
18	100	64	68	40	26	18	20
20	113	72	75	45	28	20	25
22	123	80	82	50	30	22	29
24	135	90	92	56	34	24	35
26	145	99	100	62	36	26	56
28	162	112	110	70	38	28	68
30	175	120	120	75	42	30	90

TUBE ROPE THIMBLE



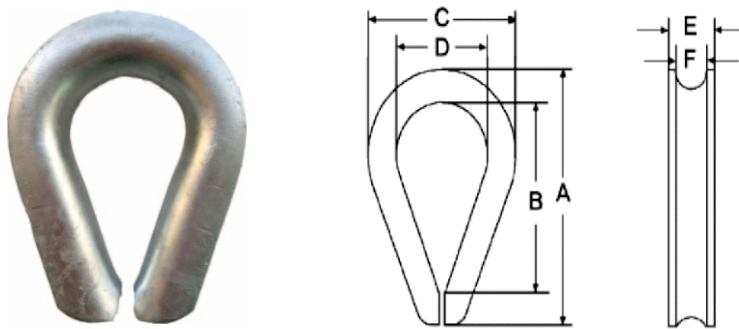
SIZE	DIMENSIONS MM				WEIGHT
MM	A	B	C	D	KG/PC
10	12	90	23	4	0.25
12	15	105	27	5	0.42
14	17	115	27	4	0.5
16	19	120	32	6	0.6
18	22	140	35	6	0.75
22	25	180	45	6.3	1.4
24	28	180	45	7	1.75
26	30	195	47	7	2
32	35	215	60	7	2.4
38	45	260	70	7	3.3
52	55	298	85	7	5.5

U.S. TYPE G-411 LIGHT DUTY WIRE ROPE THIMBLE



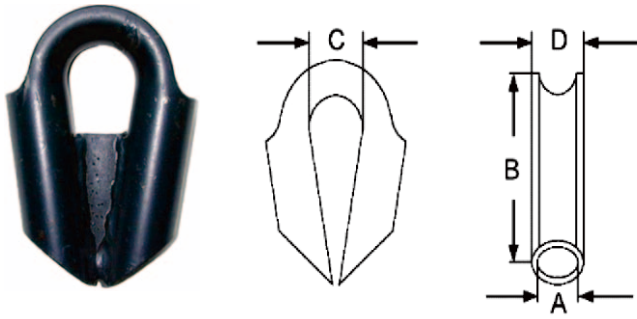
SIZE	DIMENSIONS MM						WEIGHT
IN	A	B	C	D	E	F	KG/PC
1/8"	49.28	33.27	27	17.5	6.35	4.1	0.016
3/16"	49.28	33.27	27	17.5	7.87	5.1	0.016
1/4"	49.28	33.27	27	17.5	9.65	7.1	0.016
5/16"	54	38	31.75	20.57	11.18	8.6	0.018
3/8"	60.5	41	37	23.88	13.46	10.4	0.023
1/2"	69.85	47.75	44.45	28.7	17.53	13.5	0.057
5/8"	89	57.15	60.45	35.05	23.11	16.8	0.156
3/4"	95.25	63.5	68.33	41.4	27.43	19.8	0.214
7/8"	127	88.9	81.03	47.75	32.26	23.88	0.38
1"	144.5	107.95	95.25	63.5	35.3	26.92	0.442
1-1/8"-1-1/4"	158.75	114.3	109.47	69.85	44.45	33.27	0.794
1-3/8"	207	191.5	145	90	48	36	1.36
1-1/2"	225	206	165	105	51.62	39.62	1.42
1-5/8"	248	230	176	110	59	43	1.64
1-3/4"	264	243.5	180	110	62	46	1.94
1-7/8"	283	264	186	114.3	68	52	2.14
2"	289	270	188	114.3	69	53	4.94
2-1/2"	316.3	295.3	252	152	84	64	7.4

U.S. TYPE G-414 HEAVY DUTY WIRE ROPE THIMBLE



SIZE	DIMENSIONS MM						WEIGHT
IN	A	B	C	D	E	F	KG/PC
1/8"	49.53	33.53	28.92	17.78	6.35	4	0.012
3/16"	49.53	33.53	28.92	17.78	6.35	4	0.012
1/4"	55.62	41.4	38.1	22.35	10.41	7.11	0.032
5/16"	63.5	47.75	45.97	26.92	12.7	8.64	0.064
3/8"	73.5	54.1	54.1	28.7	16	10.41	0.1
7/16"	82.55	60.45	60.45	31.75	18.29	11.94	0.167
1/2"	92.2	69.85	69.85	38.1	20.57	13.46	0.22
9/16"	92.2	69.85	68.33	38.1	22.35	15	0.22
5/8"	107.95	82.55	79.5	44.45	24.64	16.76	0.37
3/4"	127	92.25	99.77	50.8	31	19.81	0.71
7/8"	139.7	107.95	107.95	57.15	35.05	23.88	0.86
1"	155.7	114.3	125.48	63.5	39.62	26.92	1.27
1-1/8"-1-1/4"	177.8	130.3	149.35	73.15	45.97	33.27	1.54
1-3/8"	230.12	165.1	172.97	88.9	55.63	36.58	3.71
1-1/2"	228.6	158.75	181.1	88.9	65.02	39.62	4.2
1-5/8"	285.75	203.2	206.5	101.6	69.09	43.67	6.25
1-3/4"	309.63	228.6	215.9	114.3	72.14	46.74	8.43
2"	384.3	304.8	263.65	152.4	78.49	53.09	10.44
2-1/4"	435.1	355.6	301.75	177.8	92.2	60.45	18.44
2-1/2"	522	399.1	316.2	187.8	102.6	66.6	26.3

WIRE ROPE TUBULAR THIMBLE WITH GUSSET

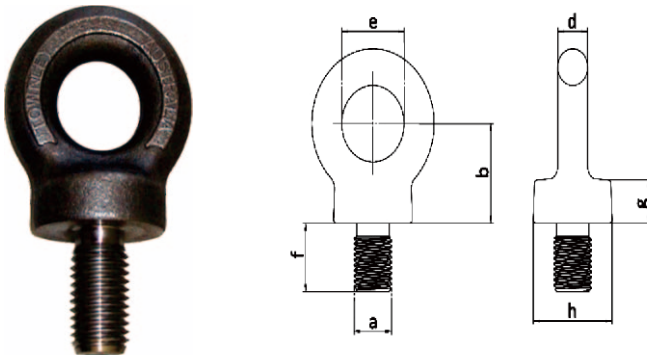


SIZE	DIMENSIONS MM				WEIGHT
MM	A	B	C	D	KG/PC
10	12	90	23	4	0.25
12	15	109	27	5	0.42
14	17	115	27	5	0.5
16	19	125	32	5	0.6
18	22	140	35	5	0.75
22	25	158	45	6.3	1.4
24	28	180	45	7	1.75
26	30	195	47	7	2
32	35	215	60	7	2.4
38	45	253	70	7	3.3
44	50	280	75	7	5.5

EYE BOLTS & EYE NUTS

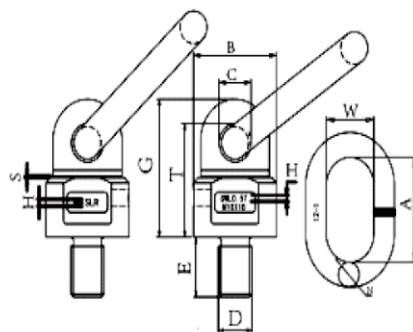


BS529 COLLARED EYE BOLTS



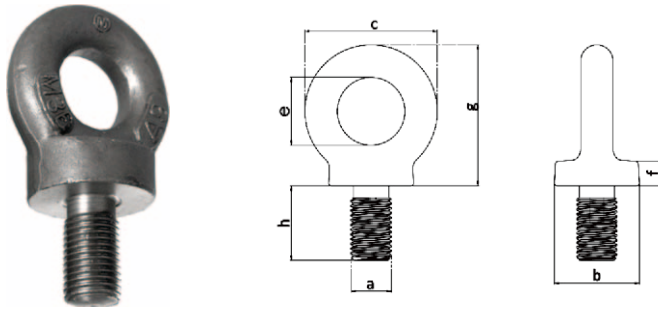
SIZE	b	d	e	f	g	h	SWL
IN	MM	MM	MM	MM	MM	MM	TON
3/8"	21	7	14	9	19	17	0.25
1/2"	28	10	19	11	25	22	0.5
5/8"	36	12	24	14	32	28	0.9
3/4"	43	14	28	17	38	33	1.4
7/8"	50	17	33	20	44	39	2
1"	57	19	38	22	51	44	2.75
1-1/8"	64	21	42	25	57	50	3.5
1-1/4"	71	24	48	28	64	55	4.5
1-1/2"	85	28	57	33	76	67	6.5
1-3/4"	101	33	67	39	89	77	9
2"	115	38	76	44	102	89	12
2-1/4"	128	42	85	50	115	101	15
2-1/2"	143	48	95	55	127	111	20
3"	172	57	115	67	152	133	30

G80 LIFTING SCREW POINT



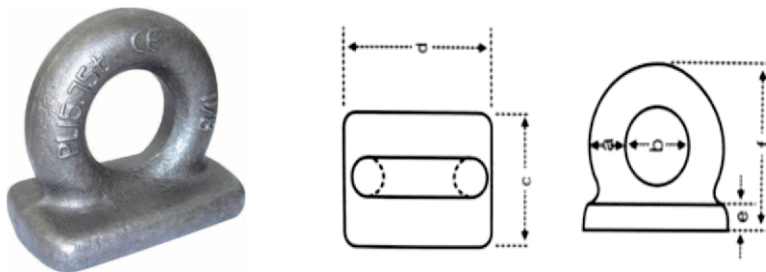
ITEM CODE	WEIGHT	WLL(T)(4:1)		DXE	B	C	G	T	A	W	N	H	S
	KG/PC	WLL 90°	WLL 0°	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM
M8	0.41	0.3	0.6	M8X13	36	16.5	51	41	55	30	14	3	1
M10	0.43	0.5	0.9	M10X18	36	16.5	51	41	55	30	14	3	1
M10X90	0.38	0.5	1	M10X90	36	16.5	51	41	55	30	14	3	1
M12	0.44	0.5	1	M12X18	36	16.5	51	41	55	30	14	3	1
M12X40	0.52	0.5	1	M12X40	36	16.5	51	41	55	30	14	3	1
M12X45	0.47	0.5	1	M12X45	36	16.5	51	41	55	30	14	3	1
M12X110	0.53	0.5	1	M12X110	36	16.5	51	41	55	30	14	3	1
M14	0.45	1.12	2	M14X20	36	16.5	51	41	55	30	14	3	1
M16	0.46	1.12	2	M16X35	36	16.5	52	42	55	30	14	3	1
M16X40	0.48	1.12	2	M16X40	36	16.5	52	42	55	30	14	3	1
M16X100	0.54	1.12	2	M16X100	36	16.5	52	42	55	30	14	3	1
M16X120	0.6	1.12	2	M16X120	36	16.5	52	42	55	30	14	3.5	1
M20	0.96	2	4	M20X30	49.5	19	68	56	70	35	16	3.5	1
M20X120	1.17	2	4	M20X120	49.5	19	68	56	70	35	16	3.5	1
M24	1.45	3.15	6.3	M24X40	57	22	78	65.5	85	40	18	3.5	1.5
M24X40	1.42	3.15	6.3	M24X90	57	22	78	65.5	85	40	18	3.5	1.5
M24X90	1.66	3.15	6.3	M24X90	57	22	78	65.5	85	40	18	3.5	1.5
M24X120	1.74	3.15	6.3	M24X120	57	22	78	65.5	85	40	18	3.5	1.5
M27	1.47	3.15	6.3	M27X35	57	22	78	65.5	85	40	20	3.5	1.5
M30(5T)	2.17	5.3	10.6	M30X35	66	23.5	96.5	80.5	85	40	20	4	1.5
M30X38	2.18	5.3	10.6	M30X38	66	23.5	96.5	80.5	85	40	20	4	1.5
M30X120	2.65	5.3	10.6	M30X120	66	23.5	96.5	80.5	85	40	22	4	1.5
M30(8T)	3.57	8	11.8	M30X35	80	28	112	92	115	50	22	6	2
M30X38	3.58	8	11.8	M30X38	80	28	112	92	115	50	22	6	2
M30X120	4.01	8	11.8	M30X120	80	28	112	92	115	50	22	6	2
M36X90	4.17	8	11.8	M36X90	80	27	109	89.5	115	50	22	6	2
M36X400	6.41	8	11.8	M36X400	80	27	109	89.5	115	50	22	6	2
M39	3.65	8	11.8	M39X50	80	27	109	89.5	115	50	22	6	2
M39X90	3.71	8	11.8	M39X90	80	27	109	89.5	115	50	22	6	2
M42	3.62	10	15	M42X50	80	27	109	89.5	115	50	25	6	2.5
M42X60	6.72	10	15	M42X60	80	27	109	89.5	115	50	25	6	2.5
M42X130	4.46	10	15	M42X130	80	27	109	89.5	115	50	25	6	2.5
M42X180	5	10	15	M42X180	80	27	109	89.5	115	50	25	6	2.5
M45X60	4.17	10	15	M45X60	80	27	109	89.5	115	50	25	6	2.5
M48	4.02	10	15	M48X50	80	27	109	89.5	115	50	25	6	2.5
M48X110	4.8	10	15	M48X110	80	27	109	89.5	115	50	25	6	2.5
M56X84	11.6	15	25	M56X84	117	42	310	280	152	70	32	7	2.5
M64X95	12.4	15	25	M64X95	117	42	310	280	152	70	32	7	2.5

BS4278 COLLARED EYE BOLTS



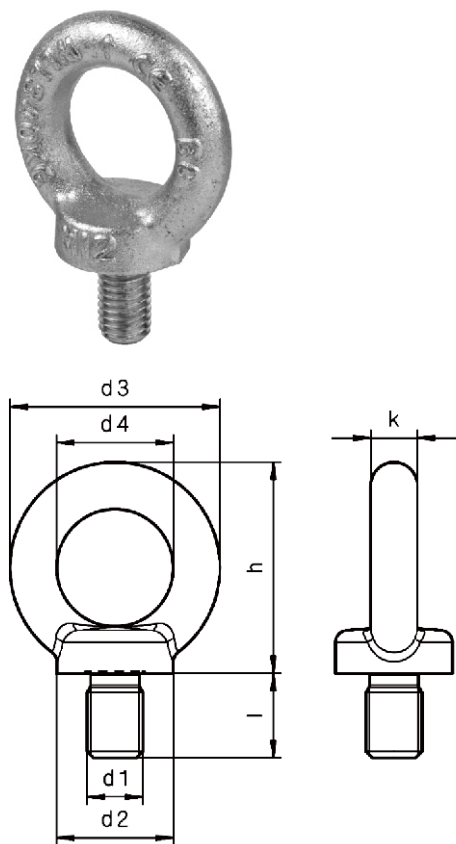
SIZE	b	c	e	f	g	h	SWL	WEIGHT
MM	MM	MM	MM	MM	MM	MM	TON	KG/PC
6	22	33	15	7	36	18	0.1	0.06
8	22	33	15	7	36	18	0.15	0.06
10	22	33	15	7	36	18	0.25	0.06
12	22	33	15	7	36	18	0.4	0.06
14	29	44	20	10	48	23	0.5	0.15
16	29	44	20	10	48	23	0.8	0.15
18	36	52	24	12	58	28	1	0.27
20	40	59	27	14	65	32	1.6	0.38
22	45	64	30	14	73	35	1.6	0.54
24	52	77	35	17	84	40	2.5	0.85
27	58	85	39	20	94	46	2.5	1.13
30	65	96	44	22	106	51	4	1.62
33	72	106	48	24	117	56	4	2.37
36	81	118	54	27	131	63	6.3	3.12
39	86	123	57	29	137	67	6.3	3.81
42	101	148	68	34	164	79	8	6.27
45	101	148	68	34	164	79	8	6.45
48	101	148	68	34	164	79	10	6.51
52	115	168	76	38	186	89	12.5	9.58
56	128	188	86	43	208	100	16	12.99
64	144	212	96	48	234	112	20	18.2

RECTANGULAR BASE EYE PLATES



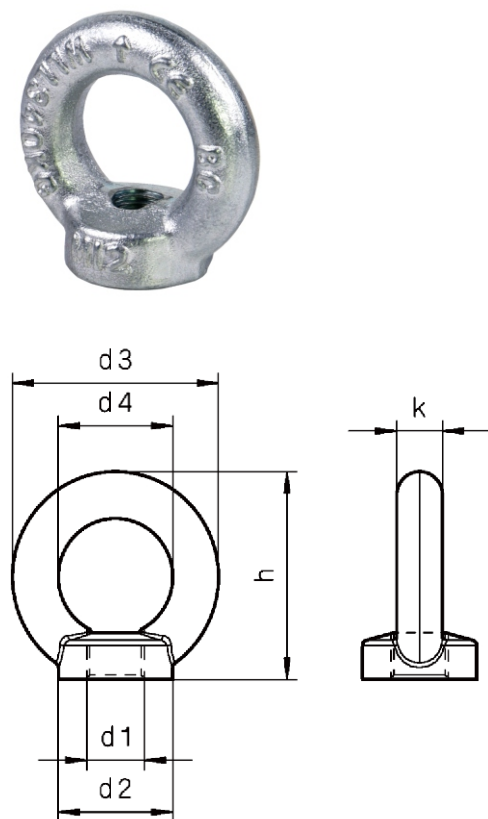
SIZE		b	c	d	e	f	PROOF LOAD	WEIGHT
IN	MM	MM	MM	MM	MM	MM	TON	KG/PC
3/8"	10	20	25	45	6	38	2	0.14
1/2"	12	25	35	60	8	50	3.5	0.33
5/8"	16	32	45	70	10	64	5.5	0.53
3/4"	19	38	50	85	12	76	7.5	0.77
7/8"	22	42	60	102	13	89	9.6	1.27
1"	25	50	70	115	16	100	13	2
1 1/8"	28	57	76	130	18	114	15.75	2.9
1 1/4"	32	64	85	145	19	128	20	3.44
1 3/8"	35	70	95	159	21	140	23.63	5.11
1 1/2"	38	76	100	170	22	152	29	6.58
1 3/4"	44	88	120	200	26	178	39	9.99
2"	50	100	140	230	30	203	50	14.98

DIN580 DROP FORGED EYE BOLTS



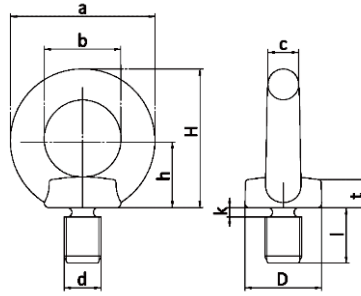
SIZE	d2 MM	d3 MM	d4 MM	h MM	k MM	l MM	UPRIGHT STRENGTH KG	DIAGONAL 45°STRENGTH KG	WEIGHT KG/100PC
M6	20	36	20	36	8	13	70	50	5
M8	20	36	20	36	8	13	140	100	6
M10	25	45	25	45	10	17	230	170	11
M12	30	54	30	53	12	20.5	340	240	18
M14	35	63	35	62	14	27	500	350	19
M16	35	63	35	62	14	27	700	500	28
M18	40	72	40	71	16	30	930	660	30
M20	40	72	40	71	16	30	1200	860	45
M22	50	90	50	90	20	36	1200	860	49
M24	50	90	50	90	20	36	1800	1290	74
M27	65	108	60	109	24	45	1800	1290	93
M30	65	108	60	109	24	45	3600	2500	166
M33	75	126	70	128	28	54	4200	3000	265
M36	75	126	70	128	28	54	4600	3300	265
M42	85	144	80	147	32	63	6300	4500	403
M48	100	166	90	168	38	68	8600	6100	638
M56	110	184	100	187	42	78	11500	8200	880
M64	120	206	110	208	48	90	16000	11000	1240
M72x6	150	260	140	260	60	100	20000	14000	2330
M80x6	170	296	160	298	68	112	28000	20000	3420
M100x6	190	330	180	330	75	130	40000	29000	4910

DIN582 DROP FORGED EYE NUT



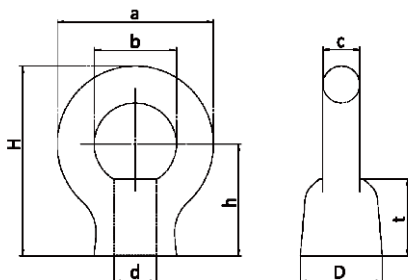
SIZE	d2 MM	d3 MM	d4 MM	h MM	k MM	UPRIGHT STRENGTH KG	DIAGONAL 45°STRENGTH KG	WEIGHT KG/100PC
M6	20	36	20	36	8	70	50	5
M8	20	36	20	36	8	140	100	5
M10	25	45	25	45	10	230	170	9
M12	30	54	30	53	12	340	240	16
M14	35	63	35	62	14	500	350	15
M16	35	63	35	62	14	700	500	24
M18	40	72	40	71	16	930	660	23
M20	40	72	40	71	16	1200	860	32.5
M22	50	90	50	90	20	1200	860	32
M24	50	90	50	90	20	1800	1290	72
M27	65	108	60	109	24	1800	1290	73
M30	65	108	60	109	24	3600	2500	132
M33	75	126	70	128	28	4200	3000	208
M36	75	126	70	128	28	4600	3300	208
M42	85	144	80	147	32	6300	4500	311
M48	100	166	90	168	38	8600	6100	502
M56	110	184	100	187	42	11500	8200	669
M64	120	206	110	208	48	16000	11000	930
M72x6	150	260	140	260	60	20000	14000	1850
M80x6	170	296	160	298	68	28000	20000	2730
M100x6	190	330	180	330	75	40000	29000	3640

JIS B 1168 TYPE EYE BOLTS



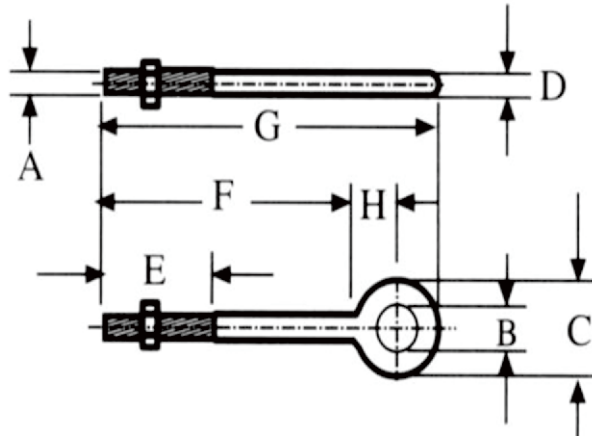
SIZE	a	b	c	D	t	h	H	l	k	SWL		WEIGHT
(d)	MM	MM	MM	MM	MM	MM	MM	MM	MM	KG	KN	KG/PC
M5	26	16	5	13	4.9	13.5	26.5	12.5	1	40	0.392	0.014
M6	26	16	5	13	4.9	13.5	26.5	12.5	1	60	0.588	0.015
M8	32.6	20	6.3	16	5	17	33.3	15	1.2	80	0.785	0.03
M10	41	25	8	20	7	21	41.5	18	1.5	150	1.47	0.06
M12	50	30	10	25	9	26	51	22	2	220	2.16	0.12
M14	60	35	12.5	30	11	30	60	27	2	330	3.23	0.2
M16	60	35	12.5	30	11	30	60	27	2	450	4.41	0.22
M18	72	40	16	35	13	35	71	30	2.5	540	5.29	0.37
M20	72	40	16	35	13	35	71	30	2.5	630	6.18	0.4
M22	81	45	18	40	15	40	80.5	35	2.5	790	7.74	0.57
M24	90	50	20	45	18	45	90	38	3	950	9.32	0.8
M27	110	60	25	60	22	55	110	45	3	1200	11.7	1.5
M30	110	60	25	60	22	55	110	45	3.5	1500	14.7	1.54
M33	110	60	25	60	22	55	110	45	4	1900	18.6	1.59
M36	133	70	31.5	70	26	65	131.5	55	4	2300	22.6	2.83
M39	133	70	31.5	70	26	65	131.5	55	4	2850	27.9	2.9
M42	151	80	35.5	80	30	75	150.5	65	4.5	3400	33.3	4.1
M45	151	80	35.5	80	30	75	150.5	65	4.5	3950	38.7	4.34
M48	170	90	40	90	35	85	170	70	5	4500	44.1	5.88
M52	170	90	40	90	35	85	170	70	5	5600	54.9	6.16
M56	210	110	50	110	42	105	210	80	5	6750	66.2	10.85
M64	210	110	50	110	42	105	210	90	6	9000	88.3	11.6
M80X6	266	140	63	130	50	130	263	105	6	15000	147	21.5
M90X6	340	180	80	170	60	165	335	130	6	18000	177	44
M100X6	340	180	80	170	60	165	335	130	6	20000	196	46.5

JIS B 1169 TYPE EYE NUT



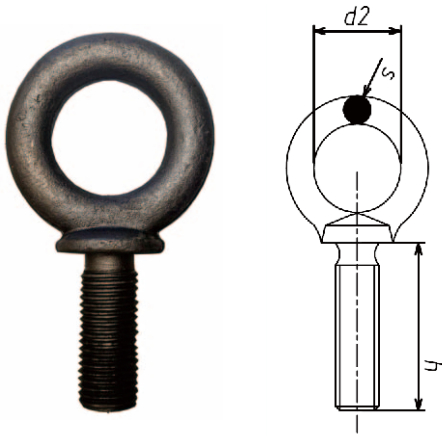
SIZE	a	b	c	D	t	h	H	SWL		WEIGHT
(d)	MM	MM	MM	MM	MM	MM	MM	KG	KN	KG/PC
M6	26	16	5	13	10	19	32.5	60	0.588	0.015
M8	32.6	20	6.3	16	12	23	39.3	80	0.785	0.03
M10	41	25	8	20	15	28	48.5	150	1.47	0.06
M12	50	30	10	25	19	36	61	220	2.16	0.125
M14	60	35	12.5	30	23	42	72	330	3.23	0.23
M16	60	35	12.5	30	23	42	72	450	4.41	0.22
M18	72	40	16	35	28	50	86	540	5.29	0.39
M20	72	40	16	35	28	50	86	630	6.18	0.38
M22	81	45	18	40	33	58	98.5	790	7.74	0.56
M24	90	50	20	45	38	66	111	950	9.32	0.8
M27	110	60	25	60	46	80	135	1200	11.7	1.62
M30	110	60	25	60	46	80	135	1500	14.7	1.58
M33	110	60	25	60	46	80	135	1900	18.6	1.51
M36	133	70	31.5	70	55	95	161.5	2300	22.6	2.75
M42	151	80	35.5	80	64	109	184.5	3400	33.3	4.1
M48	170	90	40	90	73	123	208	4500	44.1	5.9
M64	210	110	50	110	90	151	256	9000	88.3	10.5

G291 EYE BOLTS



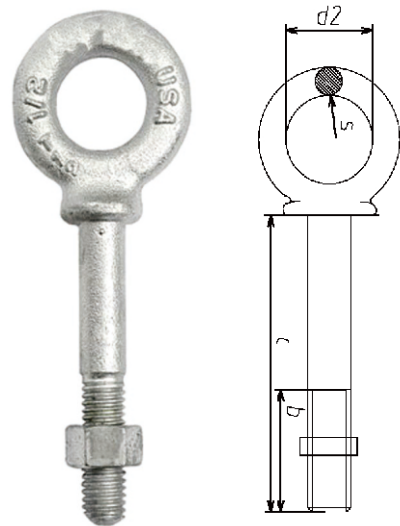
SIZE	WLL	WEIGHT	DIMENSIONS(IN.)							
IN.	LBS	LBS/100PCS	A	B	C	D	E	F	G	H
1/4" X 2"	650	8.2	0.25	0.5	1	0.25	1.5	2	3.06	0.56
1/4" X 4"	650	11.7	0.25	0.5	1	0.25	2.5	4	5.06	0.56
5/16" X 2 1/4"	1200	13.3	0.31	0.62	1.25	0.31	1.5	2.25	3.56	0.69
5/16" X 4 1/4"	1200	25	0.31	0.62	1.25	0.31	2.5	4.25	5.56	0.69
3/8" X 2 1/2"	1550	23.3	0.38	0.75	1.5	0.38	1.5	2.5	4.12	0.88
3/8" X 4 1/2"	1550	29.5	0.38	0.75	1.5	0.38	2.5	4.5	6.12	0.88
3/8" X 6"	1550	35.2	0.38	0.75	1.5	0.38	2.5	6	7.62	0.88
1/2" X 3 1/4"	2600	50.3	0.5	1	2	0.5	1.5	3.25	5.38	1.12
1/2" X 6"	2600	66.1	0.5	1	2	0.5	3	6	8.12	1.12
1/2" X 8"	2600	82	0.5	1	2	0.5	3	8	10.12	1.12
1/2" X 10"	2600	88	0.5	1	2	0.5	3	10	12.12	1.12
1/2" X 12"	2600	114.2	0.5	1	2	0.5	3	12	14.12	1.12
5/8" X 4"	5200	103.1	0.62	1.25	2.5	0.62	2	4	6.69	1.44
5/8" X 6"	5200	118.2	0.62	1.25	2.5	0.62	3	6	8.69	1.44
5/8" X 8"	5200	135.1	0.62	1.25	2.5	0.62	3	8	10.69	1.44
5/8" X 10"	5200	153.6	0.62	1.25	2.5	0.62	3	10	12.69	1.44
5/8" X 12"	5200	167.1	0.62	1.25	2.5	0.62	4	12	14.69	1.44
3/4" X 4 1/2"	7200	168.6	0.75	1.5	3	0.75	2	4.5	7.69	1.69
3/4" X 6"	7200	184.5	0.75	1.5	3	0.75	3	6	9.19	1.69
3/4" X 8"	7200	207.9	0.75	1.5	3	0.75	3	8	11.19	1.69
3/4" X 10"	7200	235	0.75	1.5	3	0.75	3	10	13.19	1.69
3/4" X 12"	7200	257.5	0.75	1.5	3	0.75	4	12	15.19	1.69
3/4" X 15"	7200	298	0.75	1.5	3	0.75	5	15	18.19	1.69
7/8" X 5"	10600	270	0.88	1.75	3.5	0.88	2.5	5	8.75	2
7/8" X 8"	10600	308	0.88	1.75	3.5	0.88	4	8	11.75	2
7/8" X 12"	10600	400	0.88	1.75	3.5	0.88	4	12	15.75	2
1" X 6"	13300	421	1	2	4	1	3	6	10.31	2.31
1" X 9"	13300	468.5	1	2	4	1	4	9	13.31	2.31
1" X 12"	13300	540	1	2	4	1	4	12	16.31	2.31
1" X 18"	13300	650	1	2	4	1	7	18	22.31	2.31
1 1/4" X 8"	21000	750	1.25	2.5	5	1.25	4	8	13.38	2.88
1 1/4" X 12"	21000	900	1.25	2.5	5	1.25	4	12	17.38	2.88
1 1/4" X 20"	21000	1210	1.25	2.5	5	1.25	6	20	25.38	2.88

SHOULDER TYPE MACHINERY EYE BOLT



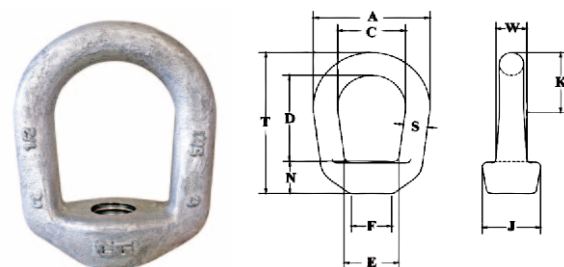
SIZE	WLL	WEIGHT	DIMENSIONS(IN)		
IN	LBS	LBS	H	D2	S
1/4X1	650	0.044	1.020	0.752	2.283
5/16X1-1/8	1200	0.088	1.150	0.882	2.736
3/8X1-1/4	1550	0.132	1.272	1.000	3.071
1/2X1-1/2	2600	0.264	1.531	1.189	3.701
5/8X1-3/4	5200	0.528	1.791	1.382	4.449
3/4X2	7200	0.946	2.047	1.500	5.079
7/8X2-1/4	10600	1.540	2.303	1.752	5.866
1X2.5	13300	2.420	2.579	2.008	6.654
1-1/8X2-3/4	15000	3.300	2.748	2.248	7.205
1-1/4X3	21000	3.960	3.091	2.500	7.953
1-1/2X3.5	24000	7.040	3.602	2.992	9.488
1-3/4X3-3/4	34000	10.340	3.748	3.500	10.472
2X4	42000	18.920	4.016	3.976	12.323
2-1/2X5	65000	31.900	5.000	4.488	14.882

G277 SHOULDER NUT EYE BOLT



SIZE	WLL	WEIGHT	DIMENSIONS(IN)			
IN	LBS	LBS	d2	s	b	C
1/4X2	640	0.066	0.50	0.19	1.50	2.93
1/4X4	640	0.091	0.50	0.19	2.50	4.92
5/16X2-1/4	1200	0.125	0.62	0.25	1.50	3.50
5/16X4-1/4	1200	0.188	0.62	0.25	2.50	5.51
3/8X2-1/2	1550	0.213	0.75	0.31	1.50	3.98
3/8X4-1/2	1550	0.253	0.75	0.31	2.50	5.98
1/2X3-1/4	2600	0.425	1.00	0.38	1.50	5.12
1/2X6	2600	0.568	1.00	0.38	2.99	7.87
5/8X4	5200	0.684	1.25	0.50	2.01	6.46
5/8X6	5200	1.021	1.25	0.50	2.99	8.43
3/4X4-1/2	7200	1.452	1.50	0.62	2.01	7.44
3/4X6	7200	1.672	1.50	0.62	2.99	8.94
7/8X5	10600	2.244	1.75	0.75	2.50	8.46
1X6	13300	3.652	2.01	0.88	2.99	9.96
1X9	13300	4.224	2.01	0.88	4.02	12.95
1-1/4X8	21000	6.49	2.50	1.00	4.02	12.72
1-1/4X12	21000	7.942	2.50	1.00	4.02	16.73
1-1/2X15	24000	14.212	2.99	1.25	5.98	20.75

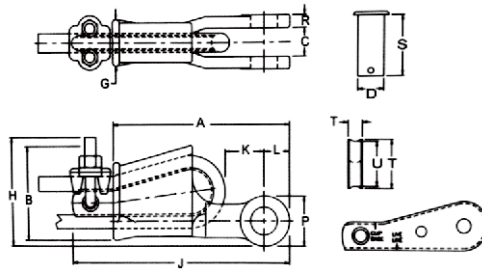
G-400 EYE NUTS



SIZE NO.	TAP SIZE	WLL	UNIT WEIGHT	DIMENSIONS (IN)									
	IN	LBS	LBS	A	C	D	E	F	J	K	N	T	W
1	1/4	520	0.09	1.25	0.75	1.00	0.75	0.50	0.69	0.63	0.38	1.72	0.31
2	3/8	1250	0.17	1.62	1.00	1.20	0.83	0.56	0.81	0.89	0.50	2.09	0.41
3A	1/2	2250	0.28	2.00	1.25	1.44	1.08	0.81	1.00	1.09	0.62	2.55	0.50
4	5/8	3600	0.60	2.50	1.50	1.92	1.35	1.00	1.31	1.31	0.69	3.25	0.69
5	3/4	5200	1.00	3.00	1.75	2.38	1.59	1.12	1.50	1.57	0.88	3.89	0.84
6	7/8	7200	1.65	3.50	2.00	2.63	1.96	1.38	1.88	1.77	0.94	4.32	1.00
7	1	10000	2.69	4.00	2.25	3.06	2.21	1.56	2.13	2.02	1.07	5.01	1.19
8	1-1/4	15500	4.38	4.50	2.50	3.50	2.46	1.88	2.38	2.27	1.25	5.78	1.38
9	1-3/8	18500	5.00	5.00	2.75	4.00	2.69	2.00	2.56	2.53	1.38	6.51	1.50
10	1-1/2	22500	6.78	5.62	3.12	4.31	3.09	2.25	3.00	2.82	1.50	7.06	1.66

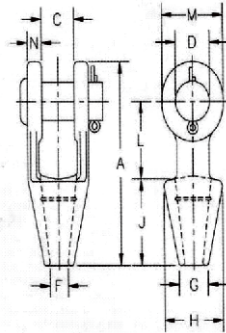
SOCKETS

US TYPE WEDGE SOCKET



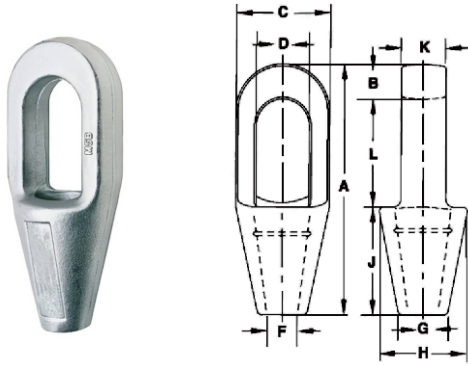
WIRE ROPE DIA.	DIMENSIONS(IN)														
IN.	A	B	C	D	G	H	J	K	L	P	R	S	T	U	V
3/8"	5.63	2.66	0.81	0.81	1.38	3.12	7.38	1.6	0.88	1.56	0.44	2.13	0.44	1.25	1.38
1/2"	6.61	3.53	1	1	1.62	3.85	8.75	1.21	1.05	1.94	0.5	2.56	0.53	1.75	1.88
5/8"	8.18	4.25	1.25	1.19	2.12	4.58	10.34	1.64	1.22	2.25	0.56	3.25	0.69	2	2.19
3/4"	9.78	4.96	1.5	1.38	2.44	5.37	12.03	2.17	1.4	2.62	0.66	3.63	0.78	2.34	2.56
7/8"	11.16	5.66	1.75	1.63	2.69	6.28	14	2.22	1.66	3.12	0.75	4.31	0.88	2.69	2.94
1"	12.75	6.31	2	2	2.94	7.02	15.86	2.71	2	3.75	0.88	4.7	1.03	2.88	3.28
1-1/8"	14.38	6.94	2.25	2.25	3.31	7.75	17.7	2.25	2.25	4.25	1	5.44	1.1	3.25	3.56
1-1/4"	16.34	8.73	2.5	2.5	3.56	9.39	20.48	2.5	2.34	4.5	1.06	6.13	1.19	4.62	4.94

G416 GROOVED OPEN SPelter SOCKETS



SIZE	WEIGHT	DIMENSIONS(IN.)									
IN.	LBS/PC	A	C	D	F	G	H	J	L	M	N
1/4"	1.1	4.56	0.75	0.69	0.38	0.69	1.56	2.25	1.56	1.31	0.31
5/16"-3/8"	1.3	4.84	0.81	0.81	0.5	0.81	1.69	2.25	1.75	1.5	0.44
7/16"-1/2"	2.25	5.56	1	1	0.56	0.94	1.88	2.5	2	1.88	0.5
9/16"-5/8"	3.6	6.75	1.25	1.19	0.69	1.13	2.25	3	2.5	2.25	0.56
3/4"	5.83	7.94	1.5	1.38	0.81	1.25	2.62	3.5	3	2.62	0.62
7/8"	9.65	9.25	1.75	1.63	0.94	1.5	3.25	4	3.5	3.13	0.8
1"	15.5	10.56	2	2	1.13	1.75	3.75	4.5	4	3.75	0.88
1-1/8"	21.5	11.81	2.25	2.25	1.25	2	4.12	5	4.62	4.12	1
1-1/4"-1-3/8"	31	13.19	2.5	2.5	1.5	2.25	4.75	5.5	5	4.75	1.13
1-1/2"	47.25	15.12	3	2.75	1.63	2.75	5.25	6	6	5.38	1.19
1-5/8"	55	16.25	3	3	1.75	3	5.5	6.5	6.5	5.75	1.31
1-3/4"-1-7/8"	82	18.25	3.5	3.5	2	3.13	6.38	7.5	7	6.5	1.56
2"-2-1/8"	129	21.5	4	3.75	2.25	3.75	7.38	8.5	9	7	1.81
2-1/4"-2-3/8"	167	23.5	4.5	4.25	2.5	4	8.25	9	10	7.75	2.13
2-1/2"-2-5/8"	252	25.5	5	4.75	2.88	4.5	9.25	9.75	10.75	8.5	2.38
2-3/4"-2-7/8"	315	27.25	5.25	5	3.12	4.88	10.5	11	11	9	2.88
3"-3-1/8"	380	29	5.75	5.25	3.38	5.25	11.12	12	11.25	9.5	3
3-1/4"-3-3/8"	434	30.88	6.25	5.5	3.62	5.75	11.88	13	11.75	10	3.12
3-1/2"-3-5/8"	563	33.25	6.75	6	3.88	6.5	12.38	14	12.5	10.75	3.25
3-3/4"-4"	783	36.25	7.5	7	4.25	7.25	13.62	15	13.5	12.5	3.5

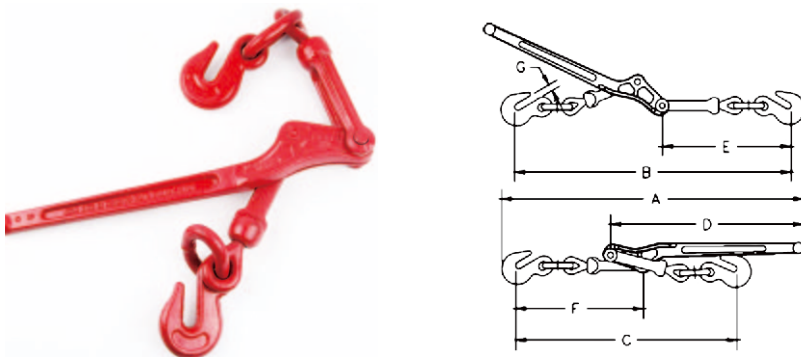
G417 GROOVED CLOSED SPELTER SOCKET



SIZE	WEIGHT	DIMENSIONS(IN)									
IN	LBS/PC	A	B	C	D	F	G	H	J	K	L
1/4"	0.5	4.5	0.5	1.5	0.88	0.38	0.69	1.56	2.25	0.5	1.75
5/16"-3/8"	0.75	4.94	0.62	1.69	0.97	0.5	0.81	1.69	2.5	0.69	2.06
7/16"-1/2"	1.5	5.5	0.69	2	1.16	0.56	0.94	2	2.5	0.88	2.31
9/16"-5/8"	2.5	6.31	0.81	2.63	1.41	0.69	1.12	22.38	3	1	2.5
3/4"	4.25	7.62	1.06	3	1.66	0.88	1.25	2.75	3.5	1.25	3.06
7/8"	7.25	8.75	1.25	3.63	1.94	1	1.5	3.25	4	1.5	3.5
1"	10.5	9.91	1.41	4.13	2.3	1.13	1.75	3.75	4.5	1.75	4
1-1/8"	14.25	11	1.5	4.5	2.56	1.25	2	4.13	5	2	4.5
1-1/4"-1-3/8"	19.75	12.12	1.63	5.5	2.81	1.5	2.25	4.75	5.5	2.25	5
1-1/2"	29.2	13.94	1.94	5.38	3.19	1.63	2.75	5.25	6	2.5	6
1-5/8"	36	15.13	2.13	5.75	3.25	1.75	3	5.5	6.5	2.75	6.5
1-3/4"-1-7/8"	57.25	17.25	2.19	6.75	3.75	2	3.13	6.38	7.5	3	7.56
2"-2-1/8"	79	19.87	2.44	7.63	4.38	2.25	3.75	7.38	8.5	3.25	8.81
2-1/4"-2-3/8"	105	21.5	2.75	8.5	5	2.63	4.13	8.25	9	3.63	9.75
2-1/2"-2-5/8"	140	23.5	3.12	9.5	5.5	2.88	4.5	9.25	9.75	4	10.62
2-3/4"-2-7/8"	220	25.38	3.12	10.75	6.25	3.12	4.88	10.19	11	4.88	11.25
3"-3-1/8"	276	27.12	3.37	11.5	6.75	3.38	5.25	11.5	12	5.25	11.75
3-1/4"-3-3/8"	313	29.25	4	12.25	7.25	3.62	5.75	12.25	13	5.75	12.25
3-1/2"-3-5/8"	400	31	4	13	7.75	3.88	6.31	13	14	6.25	13
3-3/4"-4"	542	33.25	4.25	14.25	8.5	4.25	7.25	14.25	15	7	14

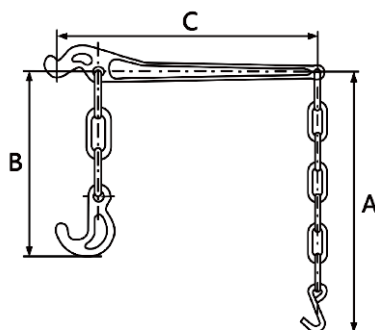
LOAD BINDERS

L-150 LEVER TYPE LOAD BINDER



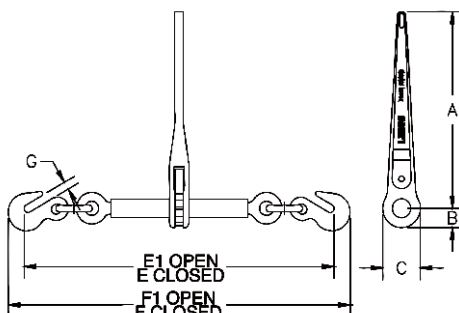
SIZE	WLL	PROOF LOAD	MIN ULTIMATE LOAD	WEIGHT	HANDLE LENGTH	DIMENSIONS (IN)						
IN	LBS	LBS	LBS	KG/PC	IN.	A	B	C	D	E	F	G
1/4"-5/16"	2200	4400	7800	1.60	11.42	18.5	17.3	14.17	11.42	8.27	8.07	0.35
5/16"-3/8"	5400	10800	19000	3.75	16	24.13	22.13	17.88	16	10.38	10.38	0.5
3/8"-1/2"	9200	18400	33000	5.60	18.69	28.75	25.75	21.25	18.69	12.31	12.38	0.63
1/2"-5/8"	13000	26000	46000	10.00	21	31.25	29.75	25	21	14.63	13.75	0.72

WITH C HOOK AND CHAIN LASHING LEVER BINDER



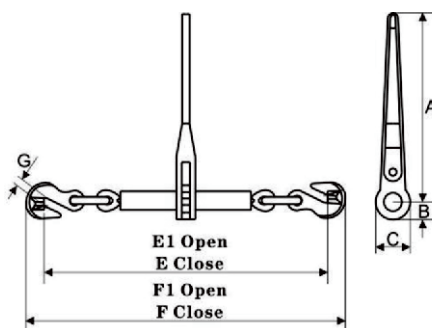
A(MM)	B(MM)	C(MM)	MBL(TON)	WEIGHT(KG)
610	388	512	16	5
610	388	515	20	5.8

STANDARD L-140 RATCHET TYPE LOAD BINDERS



MIN-MAX CHAIN SIZE	WORKING LOAD LIMIT	PROOF LOAD	BREAKING LOAD	WEIGHT EACH	HANDLE LENGTH	DIMENSIONS (IN)				
IN.	LBS	LBS	LBS	KG	IN.	A	C	E	E1	G
1/4"-5/16"	2600	4400	7800	1.60	7.16	7.16	1.77	16.22	21.62	0.35
5/16"-3/8"	5400	10800	19000	5.00	14.00	14.00	2.6	22.64	30.64	0.51
3/8"-1/2"	9200	18400	33000	5.50	14.00	14.00	2.6	24.13	32.13	0.59
1/2"-5/8"	13000	26000	46000	7.15	14.00	14.00	2.6	26.45	34.45	0.74

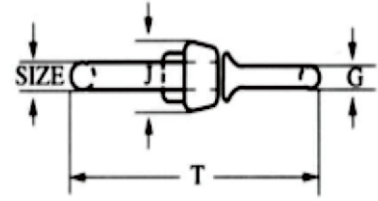
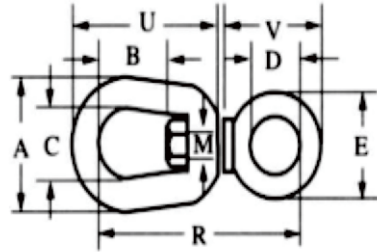
EUROPEAN EN12195-3 RATCHET TYPE LOAD BINDERS



SIZE	W.L.L.	BREAKING LOAD	WEIGHT	TAKE UP	DIMENSIONS MM					
MM	TON	TON	KG/PC	MM	A	B	C	E	E1	G
8	4.0	8.0	5.2	160	387	32	65	575	735	11
10	6.3	12.6	5.7	165	387	32	65	595	760	13
13	10.0	21.2	8.0	150	387	32	65	690	840	16
16	16.0	32.2	13.0	150	387	32	65	690	840	19

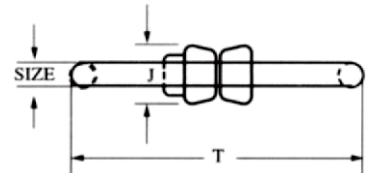
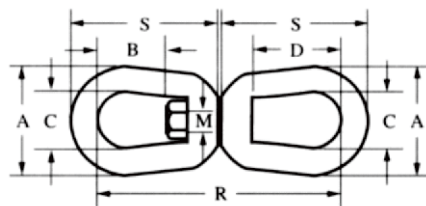


US TYPE DROP FORGED G-401 CHAIN SWIVELS



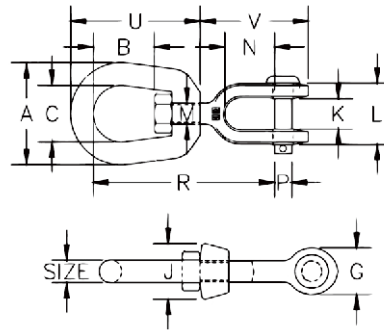
SIZE	WLL	WEIGHT	DIMENSIONS(IN.)											
IN.	LBS	LBS	A	B	C	D	E	G	J	M	R	T	U	V
1/4"	850	0.13	1.25	0.69	0.75	0.64	1.12	0.25	0.69	0.31	2.25	2.75	1.69	1.25
5/16"	1250	0.25	1.63	0.81	1	0.75	1.38	0.31	0.81	0.38	2.72	3.34	2.06	1.47
3/8"	2250	0.54	2	0.94	1.25	1	1.75	0.38	1	0.5	3.44	4.19	2.5	1.88
1/2"	3600	1.12	2.5	1.31	1.5	1.25	2.25	0.5	1.31	0.63	4.25	5.25	3.19	2.44
5/8"	5200	2.09	3	1.56	1.75	1.5	2.75	0.62	1.5	0.75	5.13	6.31	3.88	2.94
3/4"	7200	3.09	3.5	1.75	2	1.75	3.25	0.75	1.88	0.88	5.78	7.22	4.94	3.46

US TYPE DROP FORGED G-402 REGULAR SWIVELS



SIZE	WLL	WEIGHT	DIMENSIONS(IN.)								
IN.	LBS	LBS	A	B	C	D	J	M	R	S	T
1/4"	850	0.21	1.25	0.69	0.75	1.06	0.69	0.31	2.94	1.69	3.44
5/16"	1250	0.39	1.63	0.81	1	1.25	0.81	0.38	3.56	2.06	4.19
3/8"	2250	0.71	2	0.94	1.25	1.5	1	0.5	4.31	2.5	5.06
1/2"	3600	1.32	2.5	1.31	1.5	2	1.31	0.63	5.44	3.19	6.44
5/8"	5200	2.49	3	1.56	1.75	2.38	1.5	0.75	6.56	3.88	7.81
3/4"	7200	4.02	3.5	1.75	2	2.63	1.88	0.88	7.19	4.31	8.69
7/8"	10000	6.25	4	2.06	2.25	3.06	2.13	1	8.38	5	10.13
1"	12500	9.84	4.5	2.31	2.5	3.5	2.38	1.13	9.63	5.75	11.63
1-1/4"	18000	16.37	5.63	2.69	3.13	3.69	3	1.50	11.14	6.75	13.36
1-1/2"	45200	45.79	7.09	3.88	4.09	3.88	3.75	2.25	16.67	9.91	20.13

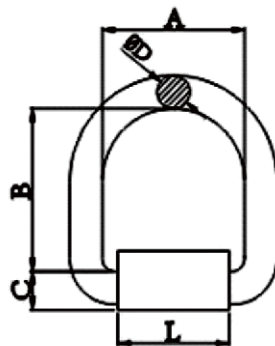
US TYPE DROP FORGED G403 JAW END SWIVELS



SIZE	WORKING LOAD LIMIT	WEIGHT EACH	DIMENSIONS(IN.)												
IN	LBS	LBS	A	B	C	G	J	K	L	M	N	P	R	U	V
1/4	850	0.21	1.25	0.69	0.75	0.69	0.69	0.47	1.03	0.31	0.88	0.25	2.63	1.69	1.69
5/16	1250	0.34	1.63	0.81	1.00	0.81	0.81	0.50	1.13	0.38	0.88	0.31	2.94	2.06	1.81
3/8	2250	0.66	2.00	0.94	1.25	1.00	1.00	0.63	1.41	0.50	1.06	0.38	3.63	2.50	2.25
1/2	3600	1.34	2.50	1.31	1.50	1.31	1.31	0.75	1.75	0.63	1.31	0.50	4.50	3.19	2.88
5/8	5200	2.48	3.00	1.56	1.75	1.63	1.50	0.94	2.06	0.75	1.50	0.63	5.31	3.88	3.44
3/4	7200	3.88	3.50	1.75	2.00	1.88	1.88	1.13	2.53	0.88	1.75	0.75	6.06	4.31	4.00
7/8	10000	5.87	4.00	2.06	2.25	2.13	2.13	1.34	2.79	1.00	2.06	0.88	7.00	5.00	4.53
1	12500	9.84	4.50	2.31	2.50	2.63	2.38	1.75	3.72	1.13	2.81	1.13	8.56	5.75	5.94
1-1/4	18000	15.75	5.69	2.69	3.13	3.13	3.00	2.06	4.31	1.63	2.81	1.38	9.75	7.06	6.38
1-1/2	45200	54.75	7.00	3.88	4.00	5.63	4.00	2.88	6.00	2.25	4.44	2.25	14.25	10.00	10.84

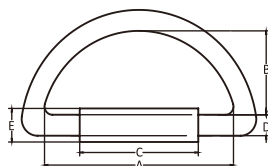
RINGS AND LINKS

D RINGS WITH WRAPS



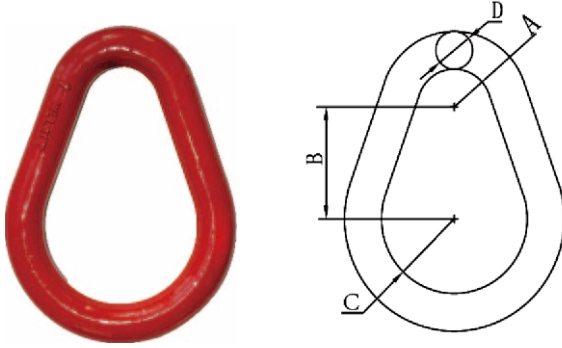
SIZE	WEIGHT	B.L	A	B	C	D	L
IN.	KG/PC	TON	MM	MM	MM	MM	MM
1/2"	0.43	5.4	57.2	63.5	16	13	45
5/8"	0.85	8.2	76.2	76.2	22	16	63
3/4"	1.25	12	76.2	76.2	25.4	19	63
1"	1.91	21.3	76.2	76.2	30.8	25.4	64
1"	2.15	21.3	76.2	101.6	30.8	25.4	64

FORGED D RING WITH STRAP



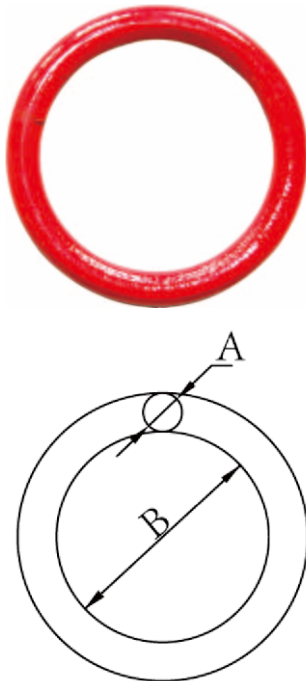
SIZE	A	B	C	D	E	WEIGHT	MBS
MM	MM	MM	MM	MM	MM	KG/PC	TON
19	104	55.5	75	19	23	1.21	20
21	136	80	120	21	25.5	2.46	36
25	144	88	125	25	30	3.7	41
27	151	90	130	27	50	4.41	50

DROP FORGED PEAR SHAPED LINK



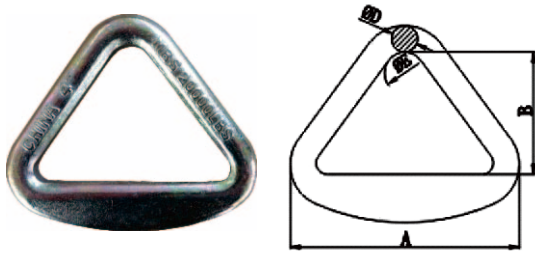
SIZE	WEIGHT	WLL	BL	A	B	C	D
IN.	KG/PC	TON	TON	MM	MM	MM	MM
3/8"	0.1	1.6	8	10	28.5	19	10
1/2"	0.25	3.2	16	12.5	38	25.5	12.5
5/8"	0.5	4.1	20.5	16	47.5	32	16
3/4"	0.8	5.6	28	19	57	38	19
7/8"	1.4	6.4	32	22	67	44.5	22.2
1"	1.9	11	55	25	76	51	25.4
1-1/8"	2.92	13.9	69.5	28	86	57	28.5
1-1/4"	3.75	16.3	81.5	32	95	63.5	32
1-3/8"	5.12	19.5	97.5	35	105	70	35
1-1/2"	6.5	24.6	123	38	114	76	38
1-5/8"	8.4	28.4	142	41.5	124	82.5	41.3
1-3/4"	10.21	38.5	192.5	44.5	133	89	44.5
1-7/8"	13.15	43.5	217.5	48	143	95.5	47.6
2"	15.42	46.5	232.5	51	152.5	102	51
2-1/4"	21.78	64.9	324.5	57.5	171.5	114.5	57
2-1/2"	29.94	66.8	334	63.5	190.5	127	63.5
2-3/4"	39.92	98.4	492	70	209.5	140	70
3"	51.71	103.4	517	76.5	229	152.5	76
3-1/4"	66.23	118.9	594.5	82.5	248	165	82.5
3-1/2"	82.1	126.6	633	89	257.5	178	89
4"	122.93	169.2	846	102	305	203.5	101.5

DROP FORGED WELDLESS ROUND RINGS



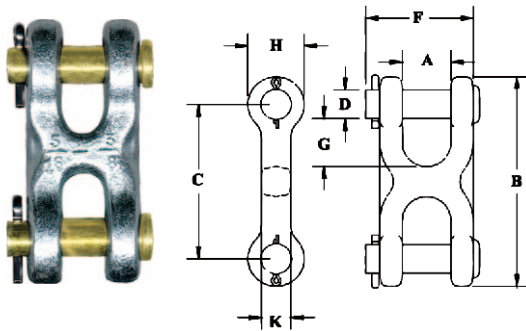
SIZE	WEIGHT	WLL	BL	A	B
IN.	KG/PC	TON	TON	MM	MM
3/8"×2"	0.11	0.5	3	10	50
1/2"×2"	0.21	1	6	13	50
5/8"×3"	0.46	1.5	9	16	76
5/8"×3-5/16"	0.5	1.5	9	16	84
3/4"×3"	0.67	2.3	13.8	19	76
3/4"×4"	0.84	2.5	15	19	102
7/8"×4"	1.2	3.3	19.8	22	102
7/8"×5-1/2"	1.55	2.5	15	22	140
1"×4"	1.59	4.9	29.4	25	102
1"×5-1/2"	2.1	4.9	29.4	25	140
1-1/8"×6"	2.87	4.7	28.2	28	152
1-1/4"×5"	3.1	7.7	46.2	32	127
1-1/4"×6"	3.6	7.7	46.2	32	152
1-1/4"×10"	5.6	7.7	46.2	32	254
1-3/8"×6"	4.5	8.6	51.6	35	152
1-1/2"×8"	6.8	11.3	67.8	38	203
1-1/2"×8-3/4"	7.32	11.3	67.8	38	222
1-1/2"×10"	8.22	11.3	67.8	38	254
1-1/2"×12"	17.8	15.9	95.4	38	305

FORGED DELTA RING



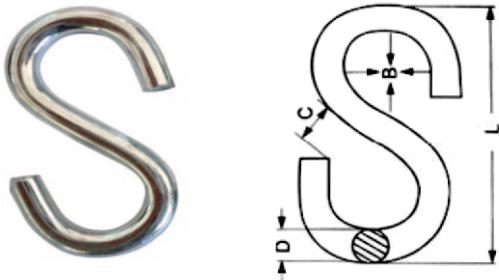
SIZE		DIMENSIONS(MM)				M.B.S	WEIGHT
IN	MM	A	B	D	E	TON	KG/PC
2	51.0	80.0	44.5	12.0	15.0	5.0	0.2
3	76.0	109.4	60.0	14.0	20.0	8.2	0.36
4	102.0	142.0	74.0	16.0	25.0	9.1	0.62

H TYPE TWIN CLEVIS LINK



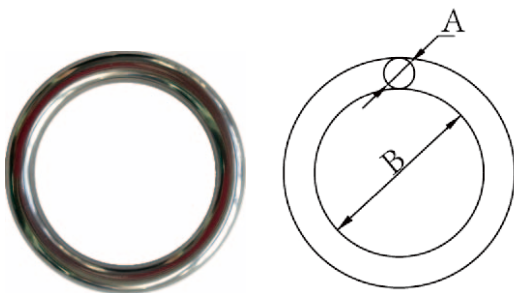
CHAIN SIZE	WORKING LOAD LIMIT	WEIGHT EACH	DIMENSIONS(IN)							
IN	LBS	LBS	A	B	C	D	F	G	H	K
1/4-5/16"	4700	0.31	0.47	2.50	1.56	0.38	1.31	0.43	0.94	0.50
3/8"	6600	0.44	0.53	2.81	1.81	0.44	1.53	0.50	1.00	0.56
7/16-1/2"	11300	0.98	0.65	3.62	2.31	0.56	1.91	0.63	1.31	0.81

S HOOK



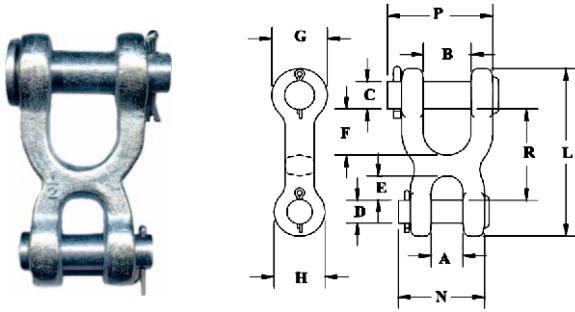
SIZE	B	C	D	L	WEIGHT
MM	MM	MM	MM	MM	KG/100PC
2.5	6	3	2.5	20	0.17
3	7	3.5	3	25	0.33
3.5	9	4	3.5	30	0.48
4	11	5	4	35	0.78
4.5	12	5.5	4.5	40	1.15
5	14	6	5	45	1.52
6	16	7	6	55	2.6
7	18	8	7	65	4.5
8	23	10	8	75	6.5
10	25	13	10	100	12.6
12	30	15	12	120	15

WELDED ROUND RING



SIZE	A	B	WEIGHT
MM	MM	MM	KG/100PC
3×25	3	25	0.5
4×25	4	25	0.91
4×30	4	30	1.07
4×40	4	40	1.39
5×30	5	30	1.73
5×40	5	40	2.23
5×50	5	50	2.58
6×30	6	30	2.72
6×40	6	40	3.27
6×50	6	50	3.99
6×60	6	60	4.69
7×35	7	35	4.2
8×40	8	40	6.06
8×50	8	50	7.32
10×50	10	50	11.85
10×70	10	70	15.8

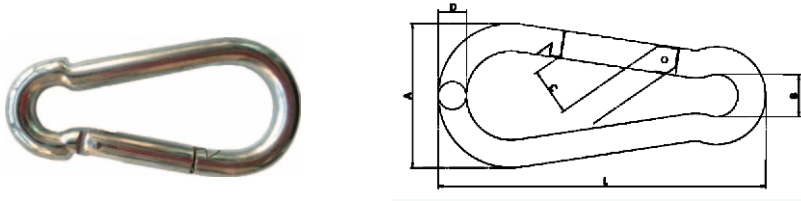
S-247 DOUBLE CLEVIS LINK



CHAIN SIZE	WORKING LOAD	WEIGHT EACH	DIMENSIONS(IN)											
IN	LBS	LBS	A	B	C	D	E	F	G	H	L	N	P	R
1/4	2600	0.38	0.50	0.75	0.50	0.31	0.38	0.75	1.00	0.81	2.81	1.38	1.66	1.50
5/16-3/8	5400	0.81	0.56	1.00	0.63	0.44	0.47	1.00	1.19	1.00	3.53	1.75	2.25	1.91
7/16	7200	1.25	0.69	1.13	0.69	0.56	0.59	1.09	1.31	1.19	4.06	2.00	2.50	2.19
1/2	9200	1.56	0.81	1.25	0.75	0.63	0.68	1.25	1.44	1.31	4.53	2.25	2.75	2.24

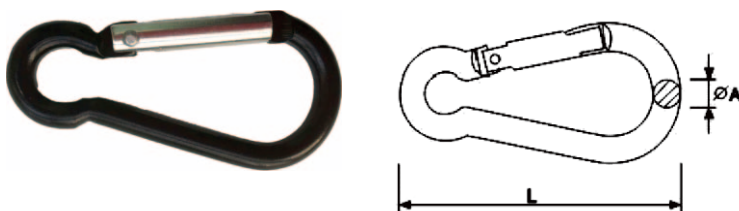
SNAP HOOKS & QUICK LINKS

DIN5299 SNAP HOOKS



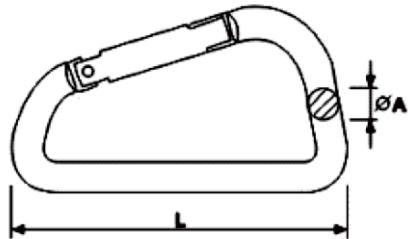
SIZE	A	B	C	D	L	WLL	WEIGHT(KG/100PCS)
MM	MM	MM	MM	MM	MM	LBS	
4×40	20	6	6	4	40	100	0.8
5×50	25	6	7	5	50	160	1.6
6×60	30	9	7	6	60	260	2.8
7×70	35	10	10	7	70	335	4.5
8×80	40	11	11	8	80	400	6.3
9×90	45	13	11	9	90	500	9.4
10×100	50	16	12	10	100	650	12.5
11×120	57	18	19	11	120	700	19.2
12×140	67	20	20	12	140	800	25.8
13×160	74	22	29	13	160	1300	35.1
14×180	86	22	42	14	180	1600	45.5
15×200	90	26	42	15	200	1800	61.8

ALUMINUM SNAP HOOK CARBINE TYPE



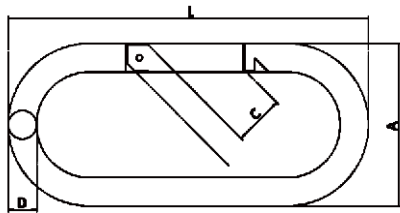
SIZE	øA	L
MM	MM	MM
5X50	5	50
6X60	6	60
7X70	7	70
8X80	8	80
10X100	10	100

ALUMINUM TYPE D CARBINE



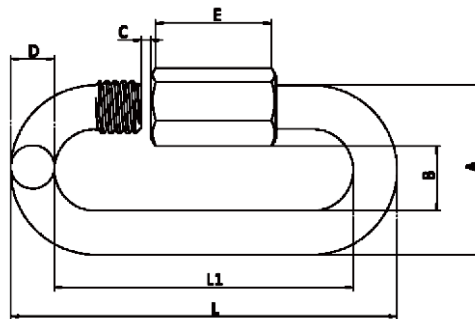
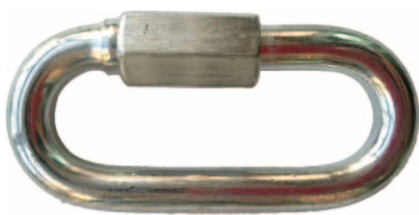
SIZE	ØA	L
MM	MM	MM
5X50	5	50
6X60	6	60
7X70	7	70
8X80	8	80
10X100	10	100

STRAIGHT SNAP HOOK



SIZE	A	C	D	L	SWL	N.W.
MM	MM	MM	MM	MM	LBS	KG/100PCS
5X50	25	9	5	50	160	1.75
6X60	30	11	6	60	260	2.55
8X80	40	13	8	80	400	5.7
10X100	50	16	10	100	650	13.6
11X120	58	21	11	120	700	18.5

STANDARD QUICK LINKS

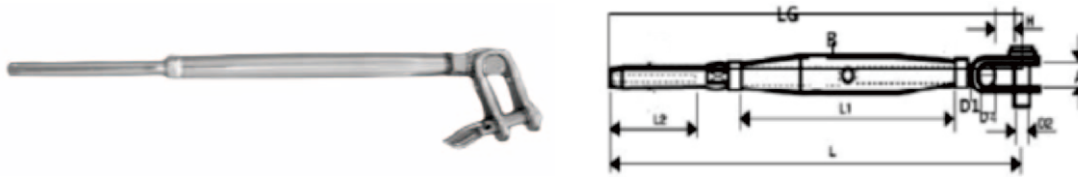


SIZE	A	B	C	D	L	L1	E	WEIGHT
MM	MM	MM	MM	MM	MM	MM	MM	KG/100PCS
3.5	17	10	5	3.5	36	29	11	0.8
4	19.5	11.5	5.5	4	39.5	31.5	12.5	1.2
5	23	13	6.5	5	48.5	35.5	16	2.1
6	26.5	14.5	7.5	6	57	45	19	3.5
7	30	16	8.5	7	66	52	21.5	5.45
8	33.5	17.5	10.5	8	74	58	24	7.5
9	37	19	11	9	80	62	26	10.5
10	40.5	20.5	12	10	89	69	29	13.5
12	47.5	23.5	15	12	104.5	80.5	33	22.8
14	54.5	26.5	17	14	121	93	38.5	35
16	61.5	29.5	19	16	140	108	45	50

STAINLESS STEEL PRODUCTS

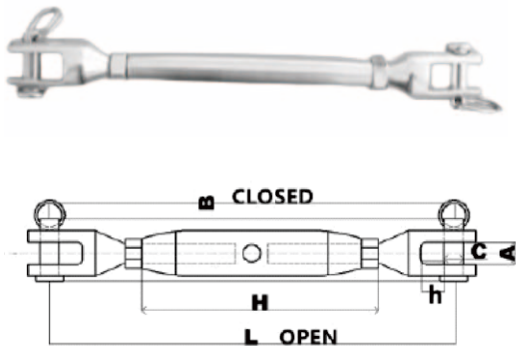


STAINLESS STEEL TURNBUCKLE TOGGLE/WIRE-ROPE-TERMINAL



Φ	D1	L	L1	A	D2	L2	H	D4	LG	B	WT
MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	KGS
3	M6	180	95	7	6	39	15	7	250	1.75	0.087
4	M8	210	105	10	8	45	20	10	285	2.25	0.157
5	M10	250	125	12	9	52	25	12	340	2.50	0.313
6	M12	300	150	13	12	64	30	13	410	3.00	0.517
8	M16	390	190	17	16	80	40	17	530	4.00	1.230
10	M20	450	210	20	19	90	45	20	590	4.50	1.800

STAINLESS STEEL JIS CLOSED BODY TURNBUCKLE



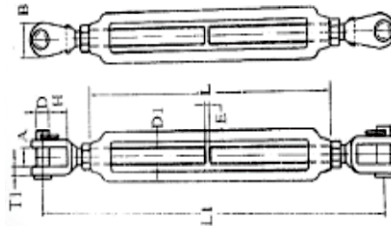
D1	L	B	H	C	A	14	WT
MM	MM	MM	MM	MM	MM	MM	KGS
5M	190	130	80	5	6.5	10	0.055
6M	225	155	95	6	7.5	10	0.095
8M	255	180	105	8	11	11	0.209
10M	300	210	125	9	12	14	0.365
12M	380	270	150	12	14	20	0.648
14M	415	295	170	12	15	22	0.883
16M	480	340	190	16	17	26	1.415

STAINLESS STEEL TURNBUCKLE EUROPEAN TYPE EYE & HOOK



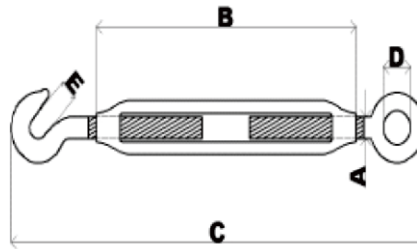
SIZE	B	C	D	L	L1	WLL	WT
MM	MM	MM	MM	MM	MM	TON	KGS
M4	58	5	6.5	80	131	0.025	0.024
M5	70	6	10	96	146	0.04	0.04
M6	90	8	10	122	190	0.1	0.07
M8	120	12	12	164	255	0.2	0.13
M10	150	13	16	205	325	0.3	0.26
M12	200	15	18	264	425	0.5	0.48
M14	225	18	20	300	486	0.7	0.78
M16	250	20	26	337	548	0.8	1.06
M20	300	25	30	406	646	1.2	1.997

STAINLESS STEEL TURNBUCKLE EUROPEAN TYPE JAW & JAW



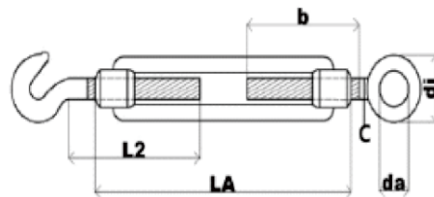
D1	L1	L	A	D	H	B	T1	WT
MM	MM	MM	MM	MM	MM	MM	MM	KGS
M5	120	70	6.5	5	10	13	3	0.06
M6	140	90	7.5	6	10	14	3	0.09
M8	180	120	11	8	11	18.5	3	0.18
M10	220	150	12	9	14	21	4	0.32
M12	300	200	14	12	20	26	5	0.59
M14	325	220	15	12	22	26.5	5	0.79
M16	375	250	17	16	26	36	6	1.27
M20	450	300	20	19	30	45.5	6	2.27

STAINLESS STEEL JIS TYPE TURNBUCKLE



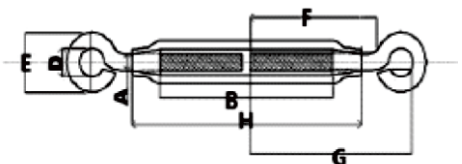
SIZE	A	B	C	D	E	WLL	WT
MM	MM	MM	MM	MM	MM	TON	KGS
5M	5	70	130	8	9	0.1	0.038
6M	6	100	160	10	9	0.25	0.063
8M	8	125	200	12	10	0.35	0.137
10M	10	150	245	16	11	0.5	0.247
12M	12	200	300	20	14	1	0.459
16M	16	250	400	22	18	1.5	1.038
20M	20	300	480	28	20	2.3	1.811

STAINLESS STEEL DIN1480 TURNBUCKLE EYE & HOOK



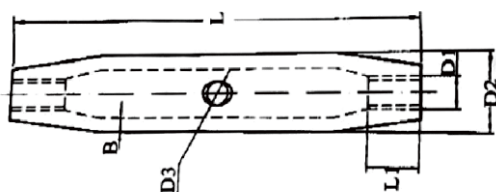
SIZE	LA	L2	b	da	C	di	WT
MM	MM	MM	MM	MM	MM	MM	KGS
5M	90	55	46	9.5	4.5	18.5	0.044
6M	110	60	53	10	4.5	19	0.078
8M	110	60	55	12	6.5	25	0.148
10M	125	65	60	14	8	30	0.243
12M	125	75	70	18	10.5	39	0.391
16M	170	100	90	22	13	48	0.909
20M	200	115	100	25	20	65	1.592

STAINLESS STEEL KOREAN TYPE TURNBUCKLE



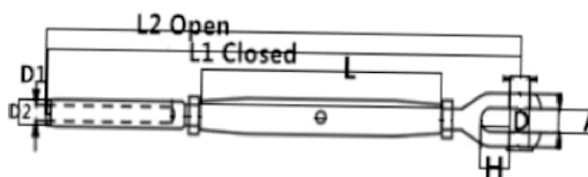
SIZE	H	B	A	D	E	F	G	WT
IN	MM	MM	MM	MM	MM	MM	MM	KGS
3/16	70	57	4.4	10	18.8	40	60	0.04
1/4	90	70	5.3	10	20.6	50	71	0.063
5/16	120	95	7.1	12	26.5	64	91	0.137
3/8	150	121	8.9	18	35	83	120	0.254
1/2	200	169	10.8	20	41	105	146	0.464
5/8	250	210	14.6	25	54.2	138	190	1.041
3/4	300	250	18.3	25	61.6	165	230	1.834
7/8	320	262	22	31	74	170	241	2.870
1	345	280	24	32	80	205	280	3.92

STAINLESS STEEL RIGGING SCREW BODY EUROPEAN TYPE



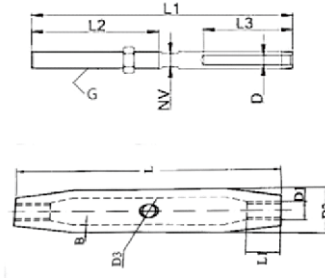
D1	L	D2	B	D3	L1	WT
MM	MM	MM	MM	MM	MM	KGS
M4	70	7	1.3	2.5	6	0.010
M5	80	8	1.3	2.5	6	0.013
M6	95	10	1.75	3.2	8	0.029
M8	105	13	2.25	4.2	10	0.060
M10	125	17	2.5	5	12	0.128
M12	150	21	3	6	14	0.214
M14	165	21	3	7	15	0.197
M16	190	26.5	3.5	8	18	0.372
M20	210	33.5	4.5	9	23	0.613

STAINLESS STEEL JAW & SWAGE STUD JIS



WIRE	SIZE	L	L1	L2	A	D	D1	D2	H
MM	MM	MM	MM	MM	MM	MM	MM	MM	MM
2.5	M5	80	155	215	6.5	5	2.7	5.5	10
3	M6	95	180	250	7.5	6	3.2	6.35	10
4	M6	95	190	260	7.5	6	4.2	7.5	10
4	M8	105	210	285	11	8	4.2	7.5	11
5	M8	105	215	290	11	8	5.3	9	11
5	M10	125	240	330	12	9	5.3	9	14
6	M10	125	255	345	12	9	6.4	12.6	14
6	M12	150	300	410	14	12	6.4	12.6	20
8	M12	150	316	426	14	12	8.5	16.0	20
7	M14	170	330	450	15	12	7.5	14.2	22
8	M16	190	370	510	17	16	8.5	16	26
10	M16	190	380	520	17	16	10.5	18	26

STAINLESS STEEL RIGGING SCREW BODY EUROPEAN



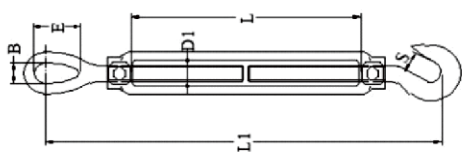
D1	L	D2	B	D3	L1	WIRE	G	L1	L2	L3	D	NV
MM	MM	MM	MM	MM	MM	MM		MM	MM	MM	MM	MM
M4	70	7	1.3	2.5	6	2	M4	73	38	24	4.8	3
M5	80	8	1.3	2.5	6	2	M5	86	40	32	5.5	4
M6	95	10	1.75	3.2	8	3	M6	100	48	39	6.35	5
M8	105	13	2.25	4.2	10	4	M8	117	57	45	7.5	6
M10	125	17	2.5	5	12	5	M10	130	63	52	9	7
M12	150	21	3	6	14	6	M12	162	80	64	12.6	10
M14	165	21	3	7	15	7	M14	180	90	70	14.2	12
M16	190	26.5	3.5	8	18	8	M16	200	100	80	16	14
M20	210	33.5	4.5	9	23	10	M20	230	119	90	18	15

STAINLESS STEEL U.S.TYPE TURNBUCKLE HOOK&HOOK



SIZE	L	L1	S
IN	IN	IN	IN
1/4	4	7.43	0.37
5/16	4.5	8.24	0.4
3/8	6	10.63	0.48
1/2	6	11.55	0.55
1/2	9	14.55	0.55
1/2	12	17.55	0.55
5/8	6	12.77	0.74
5/8	9	15.77	0.74
5/8	12	18.77	0.74
3/4	6	14.19	0.9
3/4	9	17.19	0.9
3/4	12	20.19	0.9

STAINLESS STEEL U.S.TYPE TURNBUCKLE EYE&HOOK



SIZE	L	L1	S	B	E
IN	IN	IN	IN	IN	IN
1/4	4	7.43	0.37	0.32	0.78
5/16	4.5	8.24	0.4	0.43	0.94
3/8	6	10.63	0.48	0.51	1.12
1/2	6	11.55	0.55	0.71	1.44
1/2	9	14.55	0.55	0.71	1.44
1/2	12	17.55	0.55	0.71	1.44
5/8	6	12.77	0.74	0.87	1.75
5/8	9	15.77	0.74	0.87	1.75
5/8	12	18.77	0.74	0.87	1.75
3/4	6	14.19	0.9	0.99	2.09
3/4	9	17.19	0.9	0.99	2.09
3/4	12	20.19	0.9	0.99	2.09

STAINLESS STEEL U.S.TYPE TURNBUCKLE EYE&EYE



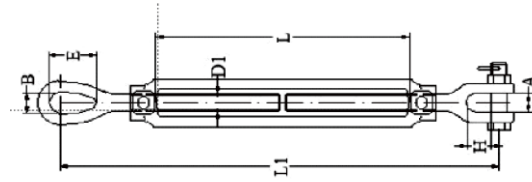
SIZE	L	L1	B	E	D2
IN	IN	IN	IN	IN	IN
1/4	4	8	0.32	0.78	0.24
5/16	4.5	8.6	0.43	0.94	0.3
3/8	6	10.94	0.51	1.12	0.35
1/2	6	12	0.71	1.44	0.45
1/2	9	15	0.71	1.44	0.45
1/2	12	18	0.71	1.44	0.45
5/8	6	13.8	0.87	1.75	0.51
5/8	9	16.8	0.87	1.75	0.51
5/8	12	19.8	0.87	1.75	0.51
3/4	6	15.38	0.99	2.09	0.67
3/4	9	18.38	0.99	2.09	0.67
3/4	12	21.38	0.99	2.09	0.67
7/8	6	16.5	1.21	2.38	0.75
7/8	12	22.5	1.21	2.38	0.75
1	6	18.8	1.37	3	0.91
1	12	24.8	1.37	3	0.91
1-1/4	12	26.5	1.37	3.56	1.14

STAINLESS STEEL U.S.TYPE TURNBUCKLE JAW & JAW



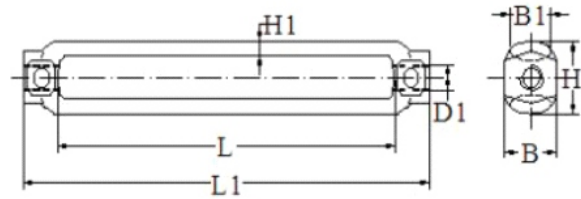
SIZE	L	L1	A	D	B	H
IN	IN	IN	IN	IN	IN	IN
1/4	4	7.15	0.45	0.24	0.9	0.62
5/16	4.5	8.61	0.49	0.24	1	0.87
3/8	6	10.45	0.53	0.31	1.08	0.87
1/2	6	11.88	0.67	0.39	1.36	1.06
1/2	9	14.88	0.67	0.39	1.36	1.06
1/2	12	17.88	0.67	0.39	1.36	1.06
5/8	6	13.3	0.81	0.47	1.68	1.31
5/8	9	16.3	0.81	0.47	1.68	1.31
5/8	12	19.3	0.81	0.47	1.68	1.31
3/4	6	14.62	1.02	0.63	1.97	1.5
3/4	9	17.62	1.02	0.63	1.97	1.5
3/4	12	20.62	1.02	0.63	1.97	1.5
7/8	6	16	1.18	0.79	2.43	1.75
7/8	12	22	1.18	0.79	2.43	1.75
1	6	17.6	1.3	0.87	2.63	2.06
1	12	23.6	1.3	0.87	1.3	2.06
1-1/4	12	26.46	1.83	1.12	3.6	2.81
1-1/2	12	27.88	2.05	1.38	3.96	2.81

STAINLESS STEEL U.S.TYPE TURNBUCKLE EYE&JAW



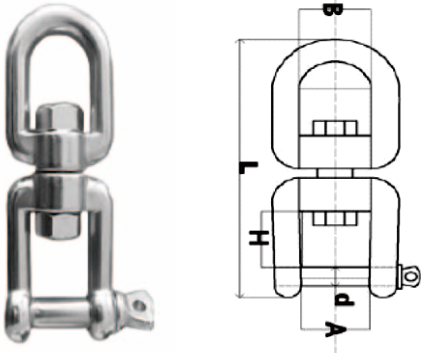
SIZE	L	L1	A	B	E	H
IN	IN	IN	IN	IN	IN	IN
1/4	4	7.58	0.45	0.32	0.78	0.62
5/16	4.5	8.38	0.49	0.43	0.94	0.87
3/8	6	10.7	0.53	0.51	1.12	0.87
1/2	6	11.94	0.67	0.71	1.44	1.06
1/2	9	14.94	0.67	0.71	1.44	1.06
1/2	12	17.94	0.67	0.71	1.44	1.06
5/8	6	13.55	0.81	0.87	1.75	1.31
5/8	9	16.55	0.81	0.87	1.75	1.31
5/8	12	19.55	0.81	0.87	1.75	1.31
3/4	6	15	1.02	0.99	2.09	1.5
3/4	9	18	1.02	0.99	2.09	1.5
3/4	12	21	1.02	0.99	2.09	1.5
7/8	6	16.25	1.18	1.21	2.38	1.75
7/8	12	22.25	1.18	1.21	2.38	1.75
1	6	18.2	1.3	1.37	3	2.06
1	12	24.2	1.3	1.37	3	2.06
1-1/4	12	26.48	1.83	1.37	3.56	2.81

STAINLESS STEEL U.S.TYPE TURNBUCKLE BODY



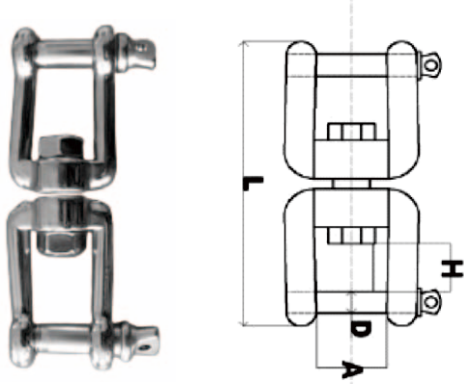
SIZE	L	L1	B	B1	H	H1
IN	IN	IN	IN	IN	IN	IN
1/4	4	4.75	0.5	0.34	0.72	0.17
5/16	4.5	5.44	0.56	0.38	0.81	0.19
3/8	6	7.12	0.62	0.38	0.88	0.19
1/2	6	7.5	0.81	0.5	1.12	0.25
1/2	9	10.5	0.81	0.5	1.12	0.25
1/2	12	13.5	0.81	0.5	1.12	0.25
5/8	6	7.88	1	0.62	1.38	0.31
5/8	9	10.88	1	0.62	1.38	0.31
5/8	12	13.88	1	0.62	1.38	0.31
3/4	6	8.25	1.12	0.75	1.69	0.38
3/4	9	11.25	1.12	0.75	1.69	0.38
3/4	12	14.25	1.12	0.75	1.69	0.38
7/8	6	8.62	1.31	0.88	1.94	0.44
7/8	12	14.62	1.31	0.88	1.94	0.44
1	6	9	1.5	1	2.25	0.5
1	12	15	1.5	1	2.25	0.5
1-1/4	12	15.12	1.88	1.25	2.62	0.56
1-1/2	12	15.75	2.25	1.5	3	0.62

STAINLESS STEEL SWIVEL EYE&JAW



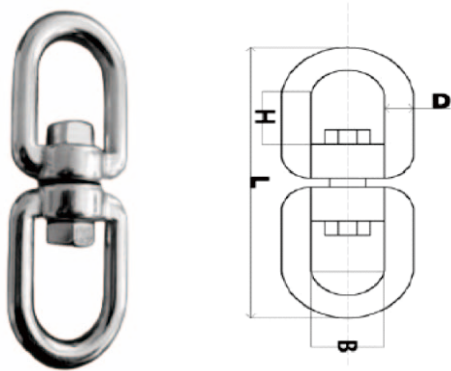
D	L	H	B	A	WT
MM	MM	MM	MM	MM	KGS
5	60	11.5	13	10	0.039
6	66	12	15	12	0.054
8	92	16	20	16	0.133
10	118	22	24	20	0.253
13	152	28	32	26	0.615
16	188	37	39	32	1.03
19	229	44	41	38	2.07

STAINLESS STEEL SWIVEL JAW&JAW



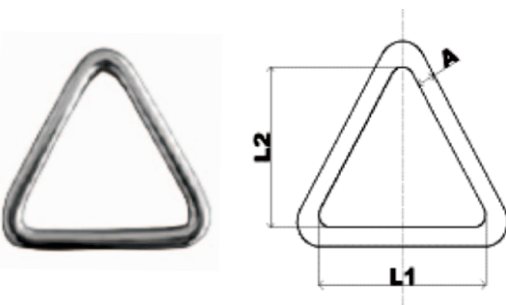
D	L	H	A	WLL	WT
MM	MM	MM	MM	TON	KGS
5	60	11.5	10	0.1	0.041
6	66	12	12	0.15	0.058
8	94	16	16	0.3	0.145
10	118	22	20	0.5	0.275
13	152	28	26	1	0.684
16	188	37	32	1.5	1.12
19	229	44	38	2	2.21

STAINLESS STEEL SWIVEL EYE&EYE



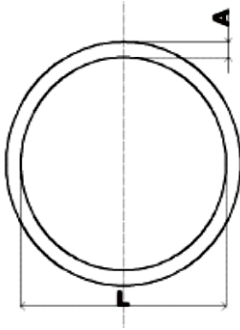
D	L	H	B	WT
MM	MM	MM	MM	KGS
4	47	9	11.5	0.019
5	61	15	13.5	0.03
6	63.5	15	1	0.05
8	88	21	20	0.114
10	111	27	24	0.223
12	126	26	25	0.353
13	147	35	31	0.446
16	186	45	38	0.977
19	225	54	40	1.48

STAINLESS STEEL DELTA LINK WELDED



A	L1	WT
MM	MM	KGS
3	20	0.038
3	30	0.05
4	25	0.08
5	25	0.013
5	30	0.016
5	45	0.02
5	50	0.02
6	40	0.028
6	45	0.033
6	50	0.037
8	45	0.06
8	50	0.068

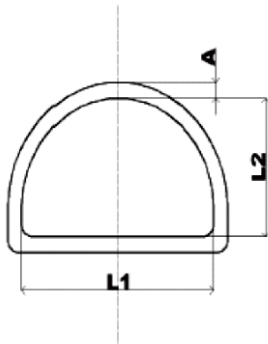
STAINLESS STEEL ROUND RING WELDED



A	L	WT
MM	MM	KGS
3	15	0.003
3	20	0.0038
3	25	0.0048
3	30	0.005
4	20	0.0074
4	25	0.0089
4	30	0.0102
4	35	0.012
4	40	0.013
5	25	0.0146
5	30	0.016
A	L	WT
MM	MM	KGS
6	60	0.045
8	40	0.0587
8	45	0.069
8	50	0.077
8	55	0.0814
8	60	0.0814
8	70	0.097
8	80	0.106
10	50	0.108
10	60	0.136
10	70	0.151

A	L	WT
MM	MM	KGS
5	35	0.0189
5	40	0.022
5	45	0.0237
5	50	0.025
6	25	0.02
6	30	0.0244
6	35	0.0279
6	40	0.031
6	45	0.035
6	50	0.0384
6	55	0.042
A	L	WT
MM	MM	KGS
10	80	0.180
10	100	0.212
12	60	0.193
12	70	0.217
12	80	0.260
12	100	0.308
14	75	0.331
14	90	0.411
19	75	0.663
19	90	0.772
-	-	-

STAINLESS STEEL D RING WELDED



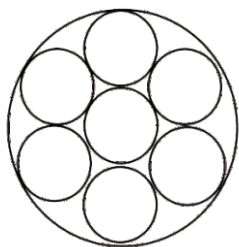
A	L1	L2	WT
MM	MM	MM	KGS
3	15	12	0.003
3	20	17	0.0039
3	30	27	0.005
4	20	17	0.007
4	25	22	0.009
4	30	27	0.011
4	40	37	0.014
5	25	22	0.0147
5	30	27	0.016
5	40	37	0.02
5	50	47	0.026
6	30	27	0.025
6	40	37	0.032
6	50	47	0.041
8	50	47	0.074
8	60	57	0.09

STEEL WIRE ROPES



POWERFUL
MACHINERY 普丰机械

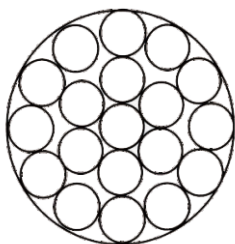
STEEL STRAND (UNGALVANIZED AND GALVANIZED)



1x7

DIAMETER OF STEEL WIRE (MM)	DIAMETER OF STEEL STRAND (MM)	CROSS SECTION OF STEEL STRAND (MM)	GRADE OF NOMINAL STRENGTH (MPA)					REFERENCE WEIGHT
			1370	1470	1570	1670	1770	
			MINIMUM BREAKING LOAD (KN)					(KG/100M)
0.13	0.4	0.093	0.117	0.125	0.134	0.143	0.151	0.082
0.30	0.9	0.495	0.623	0.669	0.715	0.76	0.806	0.411
1.00	3.0	5.50	6.93	7.43	7.94	8.45	8.96	4.54
1.20	3.6	7.92	9.98	10.71	11.44	12.16	12.90	6.59
1.40	4.2	10.78	13.59	14.58	15.57	16.56	17.55	8.97
1.60	4.8	14.07	17.73	19.03	20.32	21.62	22.91	11.71
1.80	5.4	17.81	22.45	24.09	25.72	27.36	29.00	14.83
2.00	6.0	21.99	27.72	29.74	31.76	33.78	35.80	18.50
2.30	6.9	29.07	36.64	39.31	41.99	44.66	47.34	24.20
2.60	7.8	37.16	46.82	50.24	53.66	57.08	60.50	30.93
3.00	9.0	49.48	62.34	66.90	71.44	75.99	80.54	41.19
3.20	9.6	56.30	70.92	76.10	81.30	86.45	91.63	46.87
4.23	12.7	98.33	123.94	132.98	142.03	151.07	160.12	81.95
5.00	15.0	137.38	173.15	185.80	198.43	211.07	223.71	114.30
5.33	16.0	156.11	196.76	211.12	225.49	239.85	254.21	130.05

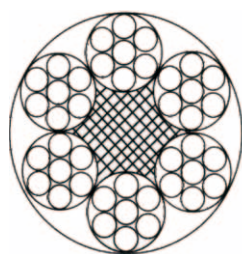
STEEL STRAND (UNGALVANIZED AND GALVANIZED)



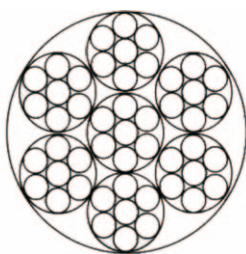
1x19

DIAMETER OF STEEL WIRE (MM)	DIAMETER OF STEEL STRAND (MM)	CROSS SECTION OF STEEL STRAND (MM)	GRADE OF NOMINAL STRENGTH (MPA)					REFERENCE WEIGHT
			1370	1470	1570	1670	1770	
			MINIMUM BREAKING LOAD (KN)					(KG/100M)
0.12	0.6	0.215	0.265	0.284	0.304	0.323	0.342	0.178
0.80	4.0	9.55	11.775	12.63	13.5	14.35	15.21	7.95
1.00	5.0	14.92	18.40	19.74	21.00	22.42	23.67	12.42
1.60	8.0	38.20	47.10	50.54	53.90	57.41	60.85	31.80
1.80	9.0	48.35	59.60	63.94	68.30	72.64	76.99	40.25
2.00	10.0	59.69	73.60	78.93	84.30	89.67	95.04	49.69
2.50	12.5	93.27	114.94	123.33	131.00	140.11	148.50	77.64
3.00	15.0	134.30	166.00	178.00	190.00	202.00	214.00	118.80
3.50	17.5	182.80	225.00	242.00	258.00	275.00	291.00	152.17
4.00	20.0	238.76	294.00	316.00	337.00	359.00	380.00	198.76

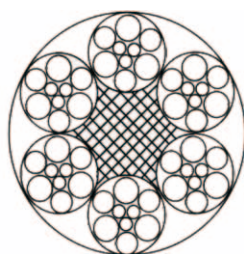
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



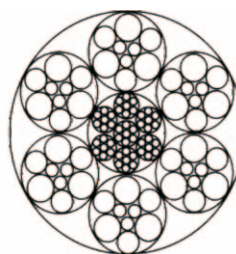
6x7+FC



6x7+IWS



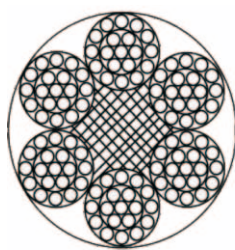
6x9W+FC



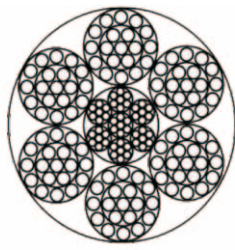
6x9W+IWR

NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
1.2	0.505	0.495	0.577	0.75	0.81	0.8	0.86	0.84	0.91	0.89	0.96	0.94	1
2	1.4	1.38	1.55	2.08	2.25	2.21	2.39	2.35	2.54	2.48	2.68	2.6	2.81
3	3.16	3.1	3.48	4.69	5.07	4.98	5.39	5.28	5.71	5.58	6.04	5.85	6.33
4	5.62	5.5	6.19	8.33	9.01	8.87	9.59	9.4	10.1	9.93	10.7	10.4	11.2
5	8.77	8.6	9.68	13	14	13.8	14.9	14.6	15.8	15.5	16.7	16.2	17.6
6	12.6	12.4	13.9	18.7	20.2	19.9	21.5	21.1	22.8	22.3	24.1	23.4	25.3
7	17.2	16.9	19	25.5	27.6	27.1	29.3	28.7	31.1	30.4	32.8	31.8	34.4
8	22.5	22	24.8	33.3	36	35.4	38.3	37.6	40.6	39.7	42.9	41.6	45
9	28.4	27.9	31.3	42.2	45.6	44.9	48.5	47.5	51.4	50.2	54.3	52.7	56.9
10	35.1	34.4	38.7	52.1	56.3	55.4	59.9	58.7	63.5	62	67.1	65	70.3
11	42.5	41.6	46.8	63	68.1	67	72.5	71.1	76.8	75.1	81.2	78.7	85.1
12	50.5	49.5	55.7	75	81.1	79.8	86.3	84.6	91.5	89.4	96.6	93.7	101
13	59.3	58.1	65.4	88	95.2	93.7	101	99.3	107	104	113	110	118
14	68.8	67.4	75.9	102	110	108	117	115	124	121	131	127	138
16	89.9	88.1	99.1	133	144	141	153	150	162	158	171	166	180
18	114	111	125	168	182	179	194	190	205	201	217	210	228
20	140	138	155	208	225	221	239	235	254	248	268	260	281
22	170	166	187	252	272	268	290	284	307	300	324	315	340
24	202	198	223	300	324	319	345	338	366	357	386	374	405
26	237	233	262	352	381	371	405	397	429	419	453	440	475
28	275	270	303	408	441	434	470	460	498	486	526	510	551
30	316	310	348	469	507	498	539	528	571	558	604	585	633
32	359	352	396	533	577	567	613	601	650	635	687	666	720
34	406	398	447	602	651	640	693	679	734	717	776	752	813
36	455	446	502	675	730	718	776	761	823	804	870	843	912
38	507	497	559	752	813	800	865	848	917	896	969	940	1016
40	561	550	619	833	901	887	959	940	1016	993	1074	1041	1125
42	619	606	682	919	994	978	1057	1036	1120	1095	1184	1147	1241
44	679	666	749	1009	1091	1073	1160	1137	1230	1202	1300	1260	1362
46	742	728	818	1102	1192	1173	1268	1243	1344	1313	1420	1377	1488
48	808	792	891	1200	1298	1277	1381	1354	1464	1430	1546	1499	1621

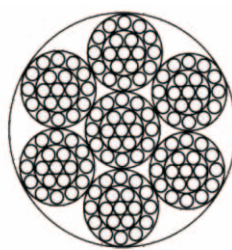
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



6x19+FC



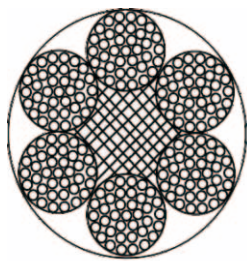
6x19+IWR



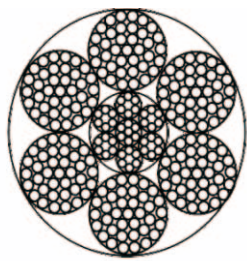
6x19+IWS

NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
3	3.11	3.03	3.43	4.34	4.69	4.61	4.99	4.89	5.29	5.17	5.59	5.41	5.85
4	5.54	5.39	6.1	7.71	8.34	8.2	8.87	8.69	9.4	9.19	9.93	9.62	10.4
5	8.65	8.43	9.53	12	13	12.8	13.9	13.6	14.7	14.4	15.5	15	16.2
6	12.5	12.1	13.7	17.4	18.8	18.5	20	19.6	21.2	20.7	22.4	21.6	23.4
7	17	16.5	18.7	23.6	25.5	25.1	27.2	26.6	28.8	28.1	30.4	29.4	31.8
8	22.1	21.6	24.4	30.8	33.4	32.8	35.5	34.8	37.6	36.7	39.7	38.5	41.6
9	28	27.3	30.9	39	42.2	41.5	44.9	44	47.6	46.5	50.3	48.7	52.7
10	34.6	33.7	38.1	48.2	52.1	51.3	55.4	54.3	58.8	57.4	62.1	60	65
11	41.9	40.8	46.1	58.3	63.1	62	67.1	65.8	71.1	69.5	75.1	72.8	78.7
12	49.8	48.5	54.9	69.4	75.1	73.8	79.8	78.2	84.6	82.7	89.4	86.6	93.7
13	58.5	57	64.4	81.5	88.1	86.6	93.7	91.8	99.3	97	105	101	110
14	67.8	66.1	74.7	94.5	102	100	109	107	115	113	122	118	127
16	88.6	86.3	97.5	123	133	131	142	139	150	147	159	154	166
18	112	109	123	156	169	166	180	176	190	186	201	195	210
20	138	135	152	193	208	205	222	217	235	230	248	240	260
22	167	163	184	233	252	248	268	263	284	278	300	291	315
24	199	194	219	278	300	295	319	313	338	331	358	346	374
26	234	228	258	326	352	347	375	367	397	388	420	406	440
28	271	264	299	378	409	402	435	426	461	450	487	471	510
30	311	303	343	434	469	461	499	489	529	517	559	541	585
32	354	345	390	494	534	525	568	556	602	588	636	616	666
34	400	390	440	557	603	593	641	628	679	664	718	695	752
36	448	437	494	625	676	664	719	704	762	744	805	780	843
38	500	487	550	696	753	740	801	785	849	829	896	868	940
40	554	539	610	771	834	820	887	869	940	919	993	962	1041
42	610	594	672	850	919	904	978	959	1040	1010	1100	1061	1147
44	670	652	738	933	1010	993	1070	1050	1140	1110	1200	1164	1260
46	732	713	806	1020	1100	1080	1170	1150	1240	1210	1310	1273	1376

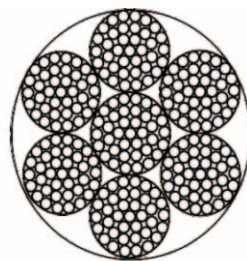
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



6x37+FC



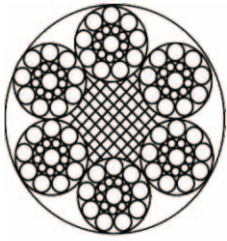
6x37+IWR



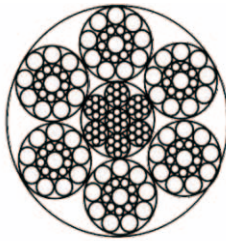
6x37+IWS

NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
	MINIMUM BREAKING LOAD OF ROPE												
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
5	8.65	8.43	9.53	11.6	12.5	12.3	13.3	13.1	14.1	13.8	14.9	14.4	15.6
6	12.5	12.1	13.7	16.7	18	17.7	19.2	18.8	20.3	19.9	21.5	20.8	22.5
7	17	16.5	18.7	22.7	24.5	24.1	26.1	25.6	27.7	27	29.2	28.3	30.6
8	22.1	21.6	24.4	29.6	32.1	31.5	34.1	33.4	36.1	35.3	38.2	37	40
9	28	27.3	30.9	37.5	40.6	39.9	43.2	42.3	45.7	44.7	48.3	46.8	50.6
10	34.6	33.7	38.1	46.3	50.1	49.3	53.3	52.2	56.5	55.2	59.7	57.8	62.5
11	41.9	40.8	46.1	56	60.6	59.6	64.5	63.2	68.3	66.7	72.2	69.9	75.6
12	49.8	48.5	54.9	66.7	72.1	70.9	76.7	75.2	81.3	79.4	85.9	83.2	90
13	58.5	57	64.4	78.3	84.6	83.3	90	88.2	95.4	93.2	101	97.7	105
14	67.8	66.1	74.7	90.8	98.2	96.6	104	102	111	108	117	113	122
16	88.6	86.3	97.5	119	128	126	136	134	145	141	153	148	160
18	112	109	123	150	162	160	173	169	183	179	193	187	202
20	138	135	152	185	200	197	213	209	226	221	239	231	250
22	167	163	184	224	242	238	258	253	273	267	289	279	302
24	199	194	219	267	288	284	307	301	325	318	344	333	360
26	234	228	258	313	339	333	360	353	382	373	403	390	422
28	271	264	299	363	393	386	418	409	443	432	468	453	490
30	311	303	343	417	451	443	479	470	508	496	537	520	562
32	354	345	390	474	513	504	546	535	578	565	611	592	640
34	400	390	440	535	579	570	616	604	653	638	690	668	722
36	448	437	494	600	649	638	690	677	732	715	773	749	810
38	500	487	550	669	723	711	769	754	815	797	861	834	902
40	554	539	610	741	801	788	852	835	903	883	954	925	1000
42	610	594	672	817	883	869	940	921	996	973	1050	1020	1102
44	670	652	738	897	970	954	1030	1010	1090	1070	1150	1119	1210
46	732	713	806	980	1060	1040	1130	1100	1190	1170	1260	1223	1323
48	797	776	878	1070	1150	1140	1230	1200	1300	1270	1370	1332	1440
50	865	843	953	1160	1250	1230	1330	1310	1410	1380	1490	1445	1563
52	936	911	1030	1250	1350	1330	1440	1410	1530	1490	1610	1563	1690
54	1010	983	1110	1350	1460	1440	1550	1520	1650	1610	1740	1686	1823
56	1090	1060	1190	1450	1570	1540	1670	1640	1770	1730	1870	1813	1960
58	1160	1130	1280	1560	1680	1660	1790	1760	1900	1860	2010	1945	2103
60	1250	1210	1370	1670	1800	1770	1920	1880	2030	1990	2150	2081	2250

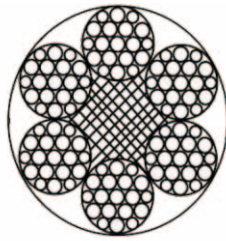
LINE CONTACTED WIRE ROPE (UNGALVANIZED AND GALVANIZED)



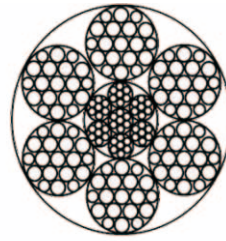
6x19S+FC



6x19S+IWR



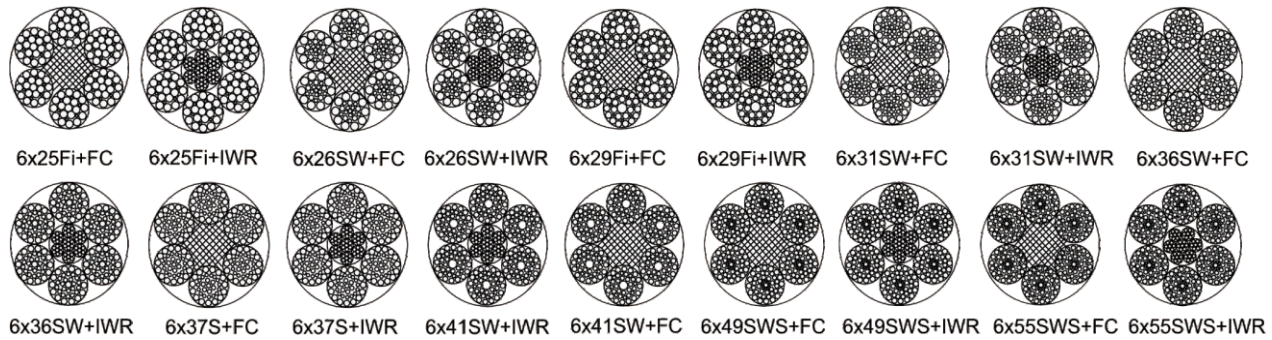
6x19W+FC



6x19W+IWR

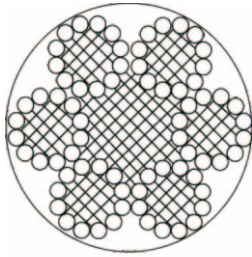
NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
5	9.2	9	10.1	13	14	13.8	14.9	14.6	15.8	15.4	16.6	16.1	17.4
6	13.3	13	14.6	18.7	20.1	19.8	21.4	21	22.7	22.2	24	23.2	25.1
7	18.1	17.6	19.9	25.4	27.4	27	29.1	28.6	30.9	30.2	32.6	31.7	34.2
8	23.6	23	25.9	33.2	35.8	35.3	38	37.4	40.3	39.5	42.6	41.3	44.6
9	29.9	29.1	32.8	42	45.3	44.6	48.2	47.3	51	50	53.9	52.3	56.5
10	36.9	36	40.5	51.8	55.9	55.1	59.5	58.4	63	61.7	66.6	64.6	69.7
11	44.6	43.5	49.1	62.7	67.6	66.7	71.9	70.7	76.2	74.7	80.6	78.2	84.4
12	53.1	51.8	58.4	74.6	80.5	79.4	85.6	84.1	90.7	88.9	95.9	93.1	100
13	62.3	60.8	68.5	87.6	94.5	93.1	100	98.7	106	104	113	109	118
14	72.2	70.5	79.5	102	110	108	117	114	124	121	130	126	136
16	94.4	92.1	104	133	143	141	152	150	161	158	170	165	178
18	119	117	131	168	181	179	193	189	204	200	216	209	226
20	147	144	162	207	224	220	238	234	252	247	266	258	279
22	178	174	196	251	271	267	288	283	305	299	322	313	337
24	212	207	234	298	322	317	342	336	363	355	383	372	402
26	249	243	274	350	378	373	402	395	426	417	450	437	471
28	289	282	318	406	438	432	466	458	494	484	522	507	547
30	332	324	365	466	503	496	535	526	567	555	599	582	627
32	377	369	415	531	572	564	609	598	645	632	682	662	714
34	426	416	469	599	646	637	687	675	728	713	770	747	806
36	478	466	525	671	724	714	770	757	817	800	863	838	904
38	532	520	585	748	807	796	858	843	910	891	961	933	1007
40	590	576	649	829	894	882	951	935	1010	987	1070	1034	1116

LINE CONTACTED WIRE ROPE (UNGALVANIZED AND GALVANIZED)



NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
6	13.7	13.4	15	18.6	20.1	19.8	21.4	21	22.6	22.2	23.9	23.2	25.1
8	24.3	23.7	26.8	33.2	35.8	35.3	38	37.4	40.3	39.5	42.6	41.4	44.6
9	30.8	30.1	33.9	42	45.3	44.6	48.2	47.3	51	50	53.9	52.3	56.5
10	38	37.1	41.8	51.8	55.9	55.1	59.5	58.4	63	61.7	66.6	64.6	69.7
11	46	44.9	50.6	62.7	67.6	66.7	71.9	70.7	76.2	74.7	80.6	78.2	84.4
12	54.7	53.4	60.2	74.6	80.5	79.4	85.6	84.1	90.7	88.9	95.5	93.1	100
13	64.2	62.7	70.6	87.6	94.5	93.1	100	98.7	106	104	113	109	118
14	74.5	72.7	81.9	102	110	108	117	114	124	121	130	126	136
16	97.3	95	107	133	143	141	152	150	161	158	170	165	178
18	123	120	135	168	181	179	193	189	204	200	216	209	226
20	152	148	167	207	224	220	238	234	252	247	266	258	279
22	184	180	202	251	271	267	288	283	305	299	322	313	337
24	219	214	241	298	322	317	342	336	363	355	383	372	402
26	257	251	283	350	378	373	402	395	426	417	450	437	471
28	298	291	328	406	438	432	466	458	494	484	522	507	547
30	342	334	376	466	503	496	535	526	567	555	599	582	627
32	389	380	428	531	572	564	609	598	645	632	682	662	714
34	439	429	483	599	646	637	687	675	728	713	770	747	806
36	492	481	542	671	724	714	770	757	817	800	863	838	904
38	549	536	604	748	807	796	858	843	910	891	961	933	1007
40	608	594	669	829	894	882	951	935	1010	987	1070	1034	1116
42	670	654	737	914	986	972	1050	1030	1110	1090	1170	1140	1230
44	736	718	809	1000	1080	1070	1150	1130	1220	1190	1290	1252	1350
46	804	785	884	1100	1180	1170	1260	1240	1330	1310	1410	1368	1476
48	876	855	963	1190	1290	1270	1370	1350	1450	1420	1530	1490	1607
50	950	928	1050	1300	1400	1380	1490	1460	1580	1540	1660	1617	1744
52	1030	1000	1130	1400	1510	1490	1610	1580	1700	1670	1800	1748	1886
54	1110	1080	1220	1510	1630	1610	1730	1700	1840	1800	1940	1886	2034
56	1190	1160	1310	1620	1750	1730	1860	1830	1980	1940	2090	2028	2188
58	1280	1250	1410	1740	1880	1850	2000	1960	2120	2080	2240	2175	2347
60	1370	1340	1500	1870	2010	1980	2140	2100	2270	2220	2400	2328	2511

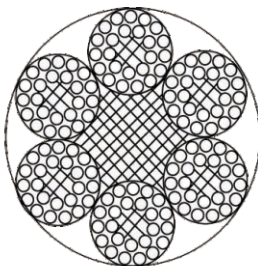
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



6x12+7FC

NOMINAL DIAMETER	APPROX. WEIGHT		NOMINAL TENSILE STRENGTH OF ROPE (MPA)		
			1570	1670	1770
D	NF	SF	MINIMUM BREAKING LOAD OF ROPE		
MM	KG/100M		KN		
5	6.28	5.78	8.2	8.73	9.25
6	9.04	8.32	11.8	12.6	13.3
7	12.3	11.3	16.1	17.1	18.1
8	16.1	14.8	21	22.3	23.7
9	20.3	18.7	26.6	28.3	30
10	25.1	23.1	32.8	34.9	37
11	30.4	28	39.7	42.2	44.8
12	36.1	33.3	47.3	50.3	53.3
14	49.2	45.3	64.3	68.4	72.5
16	64.3	59.1	84	89.4	94.7
18	81.3	74.8	106	113	120
20	100	92.4	131	140	148
22	121	112	159	169	179
24	145	133	189	201	213
26	170	156	222	236	250
28	197	181	257	274	290
30	226	208	295	314	333
32	257	237	336	357	379
34	290	267	379	403	428
36	325	299	425	452	479
38	362	334	474	504	534
40	402	370	525	558	592

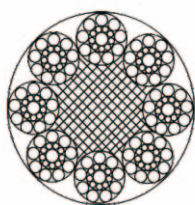
STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



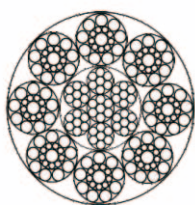
6x24+7FC

NOMINAL DIAMETER	APPROX. WEIGHT		NOMINAL TENSILE STRENGTH OF ROPE (MPA)		
			1570	1670	1770
D	NF	SF	MINIMUM BREAKING LOAD OF ROPE		
MM	KG/100M		KN		
5	7.95	7.6	11	11.7	12.4
8	20.4	19.5	28.1	29.9	31.7
9	25.8	24.6	35.6	37.9	40.1
10	31.8	30.4	44	46.8	49.6
11	38.5	36.8	53.2	56.6	60
12	45.8	43.8	63.3	67.3	71.4
13	53.7	51.4	74.3	79	83.8
14	62.3	59.6	86.2	91.6	97.1
16	81.4	77.8	113	120	127
18	103	98.5	142	152	161
20	127	122	176	187	198
22	154	147	213	226	240
24	183	175	253	269	285
26	215	206	297	316	335
28	249	238	345	367	389
30	286	274	396	421	446
32	326	311	450	479	507
34	368	351	508	541	573
36	412	394	570	606	642
38	459	439	635	675	716
40	509	486	703	748	793

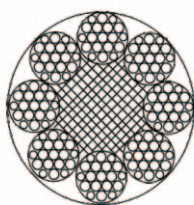
ELEVATOR STEEL WIRE ROPE



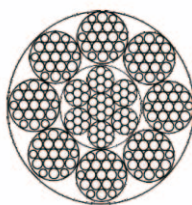
8x19S+FC



8x19S+IWR



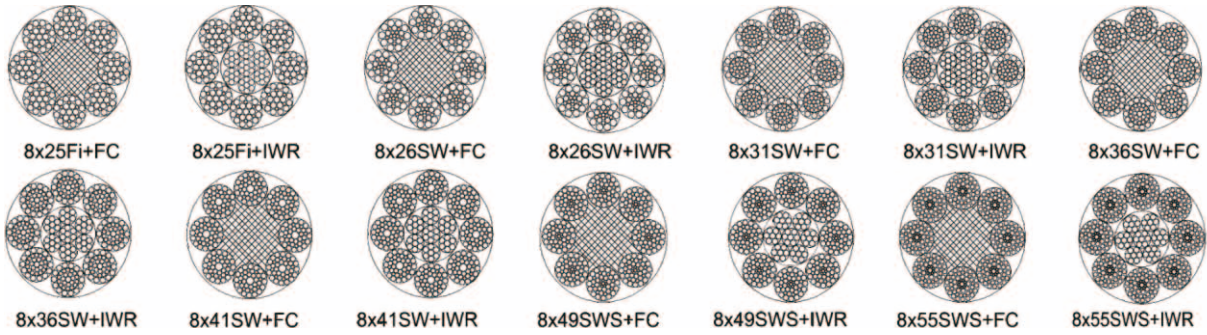
8x19W+FC



8x19W+IWR

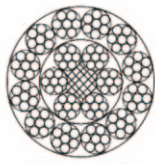
NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)							
				1570		1670		1770		1870	
				MINIMUM BREAKING LOAD OF ROPE							
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN							
8	22.1	21.4	27	29.4	34.7	31.3	36.9	33.1	39.2	35	41.4
9	28	27.1	34.2	37.3	44	39.6	46.7	42	49.6	44.3	52.4
10	34.6	33.4	42.2	46	54.3	48.9	57.7	51.8	61.2	54.7	64.7
11	41.9	40.4	51.1	55.6	65.7	59.2	69.9	62.7	74.1	66.2	78.2
12	49.9	48	60.8	66.2	78.2	70.4	83.2	74.6	88.1	78.8	93.1
13	58.5	56.4	71.3	77.7	91.8	82.6	97.6	87.6	103	92.5	109
14	67.9	65.4	82.7	90.1	106	95.9	113	101	120	107	126
16	88.7	85.4	108	117	139	125	147	132	156	140	165
18	112	108	137	149	176	158	187	168	198	177	209
20	139	133	169	184	217	195	231	207	244	219	258
22	168	162	204	222	262	236	279	251	296	265	313
24	199	192	243	264	312	281	332	298	352	315	372
26	234	226	285	310	367	330	390	350	413	370	437
28	271	262	330	360	425	384	453	406	480	429	507
30	312	300	380	414	488	440	520	466	551	493	582
32	355	342	432	471	556	501	591	531	627	561	662
34	400	386	488	532	628	565	668	600	707	633	747
36	448	432	546	596	704	634	758	672	793	710	838
38	500	482	609	664	784	706	834	748	884	791	934
40	554	534	675	736	869	782	924	830	979	876	1030
42	611	589	744	811	958	863	1010	914	1080	966	1141
44	670	646	817	890	1051	947	1110	1000	1180	1060	1252
46	733	706	893	973	1140	1030	1222	1090	1290	1150	1360
50	865	835	1055	1155	1358	1223	1444	1296	1531	1369	1617

LINE CONTACTED WIRE ROPE (UNGALVANIZED AND GALVANIZED)

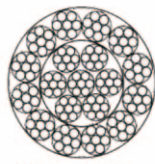


NOMINAL DIAMETER	APPROX.WEIGHT			NOMINAL TENSILE STRENGTH OF ROPE(MPA)									
				1570		1670		1770		1870		1960	
				MINIMUM BREAKING LOAD OF ROPE									
D	NF	SF	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
MM	KG/100M			KN									
8	22.98	22	27.9	29.3	34.7	31.2	36.9	33.1	39.1	35	41.3	36.7	43.4
9	29	27.8	35.3	37.1	43.9	39.5	46.7	41.9	49.5	44.3	52.3	46.5	54.9
10	35.9	34.4	43.6	45.8	54.2	48.8	57.6	51.7	61.1	54.7	64.6	57.4	67.8
11	43.3	42.6	52.7	55.5	65.5	59	69.7	62.6	73.9	66.2	78.2	69.5	82
12	51.5	49.5	62.8	66	78	70.2	83	74.5	88	78.7	93	82.7	97.6
13	60.4	58.1	73.6	77.5	91.5	82.5	97.4	87.4	103	92.4	109	97	114
14	70.1	67.4	85.4	89.8	106	95.6	113	101	120	107	127	112	133
16	91.6	88	111	117	139	125	148	132	156	140	165	147	173
18	116	111	141	149	176	158	187	168	198	177	209	186	220
20	143	138	174	184	217	195	231	207	224	219	258	230	271
22	173	166	210	222	262	236	279	250	296	265	313	278	328
24	206	198	251	264	312	281	332	298	352	315	372	330	390
26	242	232	295	310	367	330	390	350	413	370	437	388	458
28	280	270	342	360	425	384	453	406	480	429	507	450	531
30	322	310	392	414	488	440	520	446	551	493	582	516	610
32	366	352	446	471	556	501	591	531	627	561	662	588	694
34	414	398	504	532	628	565	668	600	707	633	747	663	784
36	464	446	565	596	704	634	748	672	793	710	838	744	878
38	517	497	630	664	784	706	834	748	884	791	934	829	979
40	572	550	698	736	869	782	924	830	979	876	1035	918	1085
42	631	607	769	811	958	863	1019	914	1080	966	1141	1013	1196
44	693	666	844	890	1051	947	1118	1004	1185	1060	1252	111	1312
46	757	730	922	973	1140	1035	1222	1090	1295	1150	1360	1215	1434
48	825	793	1004	1050	1251	1120	1331	1194	1411	1262	1490	1323	1562
50	895	860	1090	1150	1358	1223	1444	1296	1531	1369	1617	1435	1695
52	968	930	1179	1243	1468	1323	1562	1402	1655	1481	1749	1552	1833
54	1044	1003	1271	1341	1584	1426	1684	1512	1785	1597	1886	1674	1977
56	1122	1079	1367	1442	1703	1534	1812	1626	1920	1718	2029	1800	2126
58	1204	1157	1466	1547	1827	1646	1943	1744	2060	1843	2176	1931	2281
60	1288	1238	1570	1656	1955	1761	2080	1866	2204	1972	2329	2067	2441

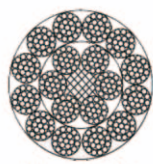
MULTI LAYERS NON-ROTATING STEEL WIRE ROPE (UNGALVANIZED AND GALVANIZED)



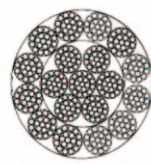
18x7+FC



18x7+IWS

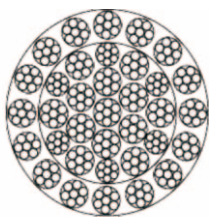


18x19+FC



18x19+IWS

NOMINAL DIAMETER	APPROX. WEIGHT		NOMINAL TENSILE STRENGTH OF ROPE (MPA)									
			1570		1670		1770		1870		1960	
			MINIMUM BREAKING LOAD OF ROPE									
D	FC	IWR/TWS	FC	IWR/TWS	FC	IWR/TWS	FC	IWR/TWS	FC	IWR/TWS	FC	IWR/TWS
MM	KG/100M		KN									
6	14	15.5	17.5	18.5	18.6	19.7	19.8	20.9	20.9	22.1	21.9	23.1
7	19.1	21.1	23.8	25.2	25.4	26.8	26.9	28.4	28.4	30.1	29.8	31.5
8	25	27.5	31.1	33	33.1	35.1	35.1	37.2	37.1	39.3	38.9	41.1
9	31.6	34.8	39.4	41.7	41.9	44.4	44.4	47	47	49.7	49.2	52.1
10	39	43	48.7	51.5	51.8	54.8	54.9	58.1	58	61.3	60.8	64.3
11	47.2	52	58.9	62.3	62.6	66.3	66.4	70.2	70.1	74.2	73.5	77.8
12	56.2	61.9	70.1	74.2	74.5	78.9	79	83.6	83.5	88.3	87.5	92.6
13	65.9	72.7	82.3	87	87.5	92.6	92.7	98.1	98	104	103	109
14	76.4	84.3	95.4	101	101	107	108	114	114	120	119	126
16	99.8	110	125	132	133	140	140	149	148	157	156	165
18	126	139	158	167	168	177	178	188	188	199	197	208
20	156	172	195	206	207	219	219	232	232	245	243	257
22	189	208	236	249	251	265	266	281	281	297	294	311
24	225	248	280	297	298	316	316	334	334	353	350	370
26	264	291	329	348	350	370	371	392	392	415	411	435
28	306	337	382	404	406	429	430	455	454	481	476	504
30	351	387	438	463	466	493	494	523	522	552	547	579
32	399	440	498	527	530	561	562	594	594	628	622	658
34	451	497	563	595	598	633	634	671	670	709	702	743
36	505	557	631	667	671	710	711	752	751	795	787	833
38	563	621	703	744	748	791	792	838	837	886	877	928
40	624	688	779	824	828	876	878	929	928	981	972	1 030



35Wx7

NOMINAL DIAMETER	APPROX. WEIGHT	NOMINAL TENSILE STRENGTH OF ROPE (MPA)				
		1570	1670	1770	1870	1960
		MINIMUM BREAKING LOAD OF ROPE				
D						
MM	KG/100M	KN				
8	29.5	36.1	38.4	40.7	43	45.1
10	46	56.5	60.1	63.7	67.3	70.6
12	66.5	81.4	86.6	91.8	96.9	102
14	90	111	118	125	132	138
16	118	145	154	163	172	181
18	149	183	195	206	218	229
20	184	226	240	255	269	282
22	223	274	291	308	326	342
24	265	326	346	367	388	406
26	311	382	406	431	455	477
28	361	443	471	500	528	553
30	414	509	541	573	606	635
32	471	579	616	652	689	723
34	532	653	695	737	778	816
36	596	732	779	826	872	914
38	664	816	868	920	972	1020
40	736	904	962	1020	1080	1130
42	811	997	1060	1120	1190	1240
44	891	1090	1160	1230	1300	1370
46	973	1196	1272	1348	1424	1493
48	1060	1302	1385	1468	1551	1625

PULLEY & BLOCKS



TRY NET BLOCK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
6	5	26
8	10	36

TRAWL BLOCK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
4	2	16
6	5	26
8	10	36
12	10	48
16	20	50
22	30	88

RIGGING BLOCK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
2	0.25	8
3	0.75	12
4	1	14
5	1.5	16
6	2	19

ROLLER SHACKLE



SIZE	S.W.L	DIAM OF ROPE
(MM)	(TON)	(MM)
25	3	20
28	4	24
32	5	34

H418 LIGHT TYPE CHAMPION SNATCH BLOCK WITH HOOK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(IN)
3	2	3/8
4 1/2	4	1/2
6	8	3/4
8	8	3/4
10	8	3/4
12	8	3/4
14	8	3/4
16	15	7/8
18	15	1

H419 LIGHT TYPE CHAMPION SNATCH BLOCK WITH SHACKLE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(IN)
3	2	3/8
4 1/2	4	1/2
6	8	3/4
8	8	3/4
10	8	3/4
12	8	3/4
14	8	3/4
16	15	7/8
18	15	1

H404 LIGHT TYPE CHAMPION SNATCH BLOCK•TAIL BOARD



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(IN)
3	2	3/8
4 1/2	4	1/2
6	8	3/4
8	8	3/4
10	8	3/4
12	8	3/4

RED SNATCH BLOCK WITH SHACKLE



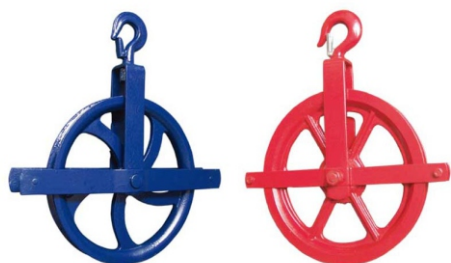
SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
3	1.5	4-6
4	3	6-9
5	4.5	8-12
6	6	10-14
8	8	14-18

RED SNATCH BLOCK WITH EYE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
3	1.5	4-6
4	3	6-9
5	4.5	8-12
6	6	10-14
8	8	14-18

ROOFING AND GIN BLOCK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(LBS)	(MM)
10	1000	1
12	1000	1
14	1000	1

REGULAR WOOD BLOCK•SINGLE WITH HOOK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(LBS)	(IN)
3	500	3/8
4	1000	1/2
5	1200	5/8
6	1800	3/4
8	2800	1
10	4000	1 1/8
12	5000	1 1/4

REGULAR WOOD BLOCK•TRIPLE WITH HOOK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(LBS)	(IN)
3	1200	3/8
4	1800	1/2
5	2400	5/8
6	3200	3/4
8	4800	1
10	8000	1 1/8
12	10000	1 1/4

REGULAR WOOD BLOCK•SINGLE WITH SHACKLE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(LBS)	(IN)
3	500	3/8
4	1000	1/2
5	1200	5/8
6	1800	3/4
8	2800	1
10	5000	1 1/8
12	6800	1 1/4
14	9600	1 3/4
16	12000	2

REGULAR WOOD BLOCK•DOUBLE WITH SHACKLE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(LBS)	(IN)
3	800	3/8
4	1400	1/2
5	1800	5/8
6	2500	3/4
8	3800	1
10	7700	1 1/8
12	10600	1 1/4
14	15000	1 3/4
16	19000	2

REGULAR WOOD BLOCK•TRIPLE WITH SHACKLE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(LBS)	(IN)
3	1200	3/8
4	1800	1/2
5	2400	5/8
6	3200	3/4
8	4800	1
10	8000	1 1/8
12	10000	1 1/4

REGULAR WOOD BLOCK•SINGLE WITH SWIVEL HOOK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(LBS)	(IN)
3	500	3/8
4	1000	1/2
5	1200	5/8
6	1800	3/4
8	2800	1
10	5000	1 1/8
12	6800	1 1/4

REGULAR WOOD BLOCK•DOUBLE WITH SWIVEL HOOK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(LBS)	(IN)
3	800	3/8
4	1400	1/2
5	1800	5/8
6	2500	3/4
8	3800	1
10	7700	1 1/8
12	10600	1 1/4

REGULAR WOOD BLOCK•TRIPLE WITH SWIVEL HOOK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(LBS)	(IN)
3	1200	3/8
4	1800	1/2
5	2400	5/8
6	3200	3/4
8	4800	1
10	8000	1 1/8
12	10000	1 1/4

STEEL PULLEY



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
4	1.5	10
5	2.5	12

SK01 KOREAN TYPE BLOCK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
3	1	16
4	1.5	18
5	2	24

SK04 KOREAN TYPE BLOCK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
6	5	20
8	7.5	26
15	15	28

BLACK BLOCK•CAST IRON



SIZE	S.W.L	DIAM OF ROPE
(MM)	(KGS)	(MM)
75	150	20
100	150	20
120	150	20
145	150	20
165	200	22
180	200	22
195	200	24
200	200	24
220	250	24
250	250	26
300	300	32

BLACK BLOCK•CAST IRON



SIZE	S.W.L	DIAM OF ROPE
(MM)	(KGS)	(MM)
75	150	20
100	150	20
120	150	20
145	150	20
165	200	22
180	200	22
195	200	24
200	200	24
220	220	24
250	250	26
300	300	32

BLACK BLOCK•CAST IRON



SIZE	S.W.L	DIAM OF ROPE
(MM)	(KGS)	(MM)
75	150	20
100	150	20
120	150	20
145	150	20
165	200	22
180	200	22
195	200	24
200	200	24
220	250	24
250	250	26
300	300	32

GALVANISED MALLEABLE IRON (CAST STEEL) BLOCK WITH SINGLE SHEAVE



SIZE (IN)	S.W.L (TON)	DIAM OF ROPE (MM)
3	0.2	12
4	0.4	16
5	0.5	18
6	1	24
7	1.1	26
8	1.2	28
9	1.5	30

GALVANISED MALLEABLE IRON (CAST STEEL) BLOCK WITH DOUBLE SHEAVES



SIZE (IN)	S.W.L (TON)	DIAM OF ROPE (MM)
3	0.2	12
4	0.4	16
5	0.5	18
6	1	24
7	1.1	26
8	1.2	28
9	1.5	30

SWIVEL EYE BLOCK



SIZE (IN)	S.W.L (LBS)	DIAM OF ROPE (IN)
2	600	3/16
3	800	1/4
4	1700	3/8
5	1850	3/8

OVAL EYE SNATCH BLOCK



SIZE (IN)	S.W.L (TON)	DIAM OF ROPE (MM)
5	3	18-20
6	5	20-22

(N.L.Q.Y) HC SERIES SINGLE WHEEL MARINE SNATCH BLOCK



SIZE (IN)	S.W.L (TON)	DIAM OF ROPE (MM)
6	2	10-13
8	3	16-20
10	3	16-20
12	5	20-22
14	5	20-24
16	10	24-26
17	16	26-28
18	20	26-28

NOTE : N TYPE-STUD EYE ; L TYPE-OVAL EYE ; Q TYPE-DOUBLE LUG ; Y TYPE-DUCKBILL EYE

(N.L.Q.Y) TYPE A HC SERIES SINGLE WHEEL MARINE SNATCH BLOCK



SIZE (IN)	S.W.L (TON)	DIAM OF ROPE (MM)
6	2	10-13
8	3	16-20
10	3	16-20
12	5	20-22
14	5	20-24
16	10	24-26
17	16	26-28
18	20	26-28

NOTE : N TYPE-STUD EYE ; L TYPE-OVAL EYE ; Q TYPE-DOUBLE LUG ; Y TYPE-DUCKBILL EYE

PULLEY BLOCK•SINGLE WITH HOOK K TYPE



SIZE (IN)	S.W.L (TON)	DIAM OF ROPE (MM)
3	0.5	8
4	1	10
5	1.5	13
6	2	16
7	3	19
8	4	22
10	5	25
12	6	28

PULLEY BLOCK•SINGLE WITH EYE K TYPE



SIZE (IN)	S.W.L (TON)	DIAM OF ROPE (MM)
3	0.5	8
4	1	10
5	1.5	13
6	2	16
7	3	19
8	4	22
10	5	25
12	6	28

PULLEY BLOCK•DOUBLE WITH HOOK•K TYPE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
3	0.5	8
4	1	10
5	1.5	13
6	2	16
7	3	19
8	4	22
10	5	25
12	6	28

PULLEY BLOCK•DOUBLE WITH EYE K TYPE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
3	0.5	8
4	1	10
5	1.5	13
6	2	16
7	3	19
8	4	22
10	5	25

YBO TYPE ORANGE SNATCH BLOCK•SINGLE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
3	0.5	6
4	1	9
5	1.5	12
6	2	14
8	4	16

YBO TYPE ORANGE SNATCH BLOCK•DOUBLE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
3	0.5	6
4	1	9
5	1.5	12
6	2	14
8	4	16

YBS TYPE ORANGE SNATCH BLOCK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(MM)
3	0.5	6
4	1	9
5	1.5	12
6	2	14
8	4	16

H408 LIGHT TYPE CHAMPION SNATCH BLOCK•DOUBLE WITH HOOK



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(IN)
4-1/2	4	1/2
6	12	3/4
8	12	3/4
10	12	3/4
12	12	3/4
14	12	3/4
16	15	7/8
18	15	1

H409 LIGHT TYPE CHAMPION SNATCH BLOCK•DOUBLE WITH SHACKLE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(TON)	(IN)
4-1/2	4	1/2
6	12	3/4
8	12	3/4
10	12	3/4
12	12	3/4
14	12	3/4
16	15	7/8
18	15	1

G186 PULLEY WITH SAFE SHELF CAST IRON SHEAVE



SIZE	S.W.L	DIAM OF ROPE
(IN)	(KGS)	(MM)
5	500	24

SLINGS & TIE DOWNS



WEBBING SLINGS



Webbing sling is made of high tenacity polyester by advanced international weaving technology, equipment and various sewing methods.

According to customer's requirement, the safety factor of sling could reach 4:1, 5:1, 6:1, 7:1, 8:1, its load range is from 0.5t to 100t, which is produced according to International standard, for color and load capacity.

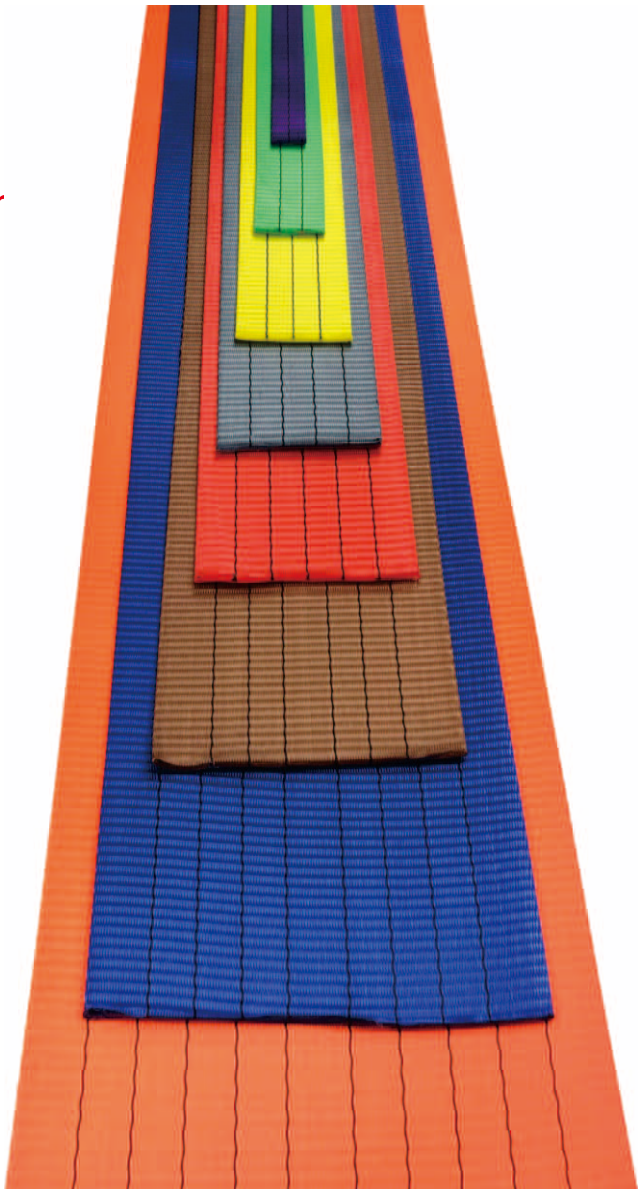


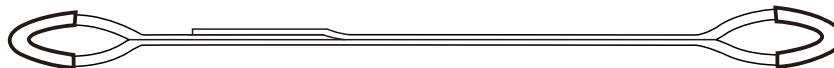
Use Instructions as per EN1492 Part 1

Use and Maintenance Instruction for Flat Webbing

Lifting correctly

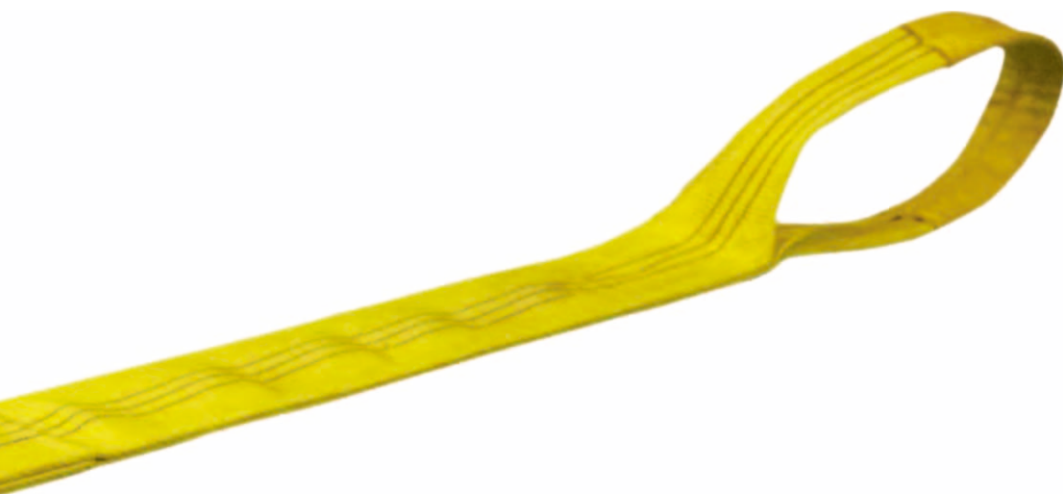
- Before the load is lifted, the weight of the load must be determined by checking the delivery note, marking on the load or packing weight labels (eg. Steel profiles) or by the crane weigher. The load must be within the carrying capacity shown on the sling label for the given angle of inclination.
- The larger the angle of inclination on multi-fall slings, the greater the tension force between individual slings that has to be taken up in addition to the load. The reductions in carrying capacity for inclinations 45° and from 45° to 60° are shown on the sling label. Inclination angles larger than 60° are not permitted.
- Lifting the load without twisting or turning it as per the following instructions. On single-fall slings and chains, round slings and endless flat slings, the point of attachment should be above the load center, double-fall slings should be attached at both sides and above the load centre; 3 and 4-fall slings should be attached at one level around the load centre. Preferably they should be attached with equal spacing and above the load center.
- In multi-fall cases where the slings are attached at different angles of inclination, the greatest strain is borne by the single sling with the smallest inclination angle. In extreme cases, a single vertical sling will bear the weight of the complete load. When multi-fall slings are attached asymmetrically, only half of the carrying capacity shown on the sling label may be carried.





Safety factor 7:1 Flat Polyester Slings type (Double Ply)

WLL (KG)	WIDTH (MM)	COLOR	WLL in kg at different modes				
			Straight lift 	Basket lift 	7°-45° 	Choker hitch 	45°-60° 
1000	30	Violet	1000	2000	1400	800	1000
2000	60	Green	2000	4000	2800	1600	2000
3000	90	Yellow	3000	6000	4200	2400	3000
4000	120	Grey	4000	8000	5600	3200	4000
5000	150	Red	5000	10000	7000	4000	5000
6000	180	Brown	6000	12000	8400	4800	6000
8000	240	Blue	8000	16000	11200	6400	8000
10000	300	Orange	10000	20000	14000	8000	10000
12000	300	Orange	12000	24000	16800	9600	12000



Use Instructions for Flat Webbing

Before using it, select the correct flat webbing or round sling regard to its application, capacity and the surface conditions of the load (see designation on the labels).

Examine the condition of the webbing sling (improperly maintained or repaired slings, including unreadable labels, must be excluded from further use).

The permitted capacity of the slings must not be exceeded (WLL in accordance with the applied lifting method).

Never shorten a sling by knotting it.

Flat webbing sling and round sling must not be placed around sharp edges or over rough surfaces, Use wear sleeves and edge protectors where necessary.

Flat webbing sling should be applied in a way that they carry the load by the full sling width.

Loads may only be placed on slings if damage is precluded.

Do not drag slings from under loads, position the sling correctly to ensure easy removal after use.

Position slings in a way that they hold the load securely (displacement of the centre of gravity must be avoided)

In "choker" lifts, only use flat webbing slings with reinforced eyes.

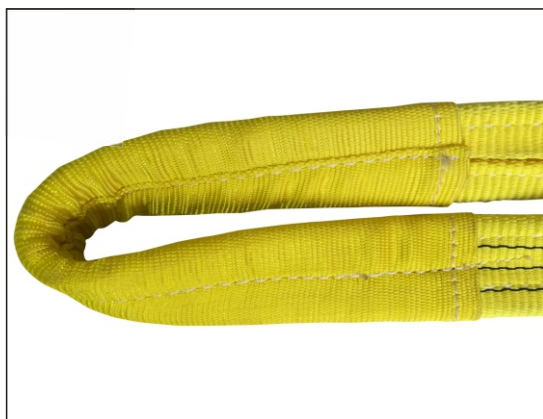
Using flat webbing slings with Becket eyes, the opening angle of the eyes shouldn't exceed 20 at the connecting point.

In cases that flat webbing slings or round slings are used in connection with chemical or in extreme temperatures. Contact the manufacturer for instructions.

In "choker" or direct lifts, the round sling should be positioned so that it can form its "natural" inclination angle of 60 and that heat due to friction is avoided.

Avoid sharp jerks and jolts.

Don't drag the load across the floor with the sling or drag the sling across rough surfaces



Webbing slings

flat webbing slings are made of high tensile polyester (PES) with the following advantages:

- Low weight, thus easy to handle
- Protection against hand injury
- Protection against damage on the surface of cargo
- Highly flexible and adaptable to given shapes
- Equal pressure distribution over tension and pressure sensitive loads
- Heat resistant up to +100°C
Moisture-resistant fabric, thus preventing frost damage (up to approx. -40°C)
- Low-strain, wear-resistant, long-life material (100% PES)



Safety factor 5:1 & 6:1 Flat Polyester Slings type (Single Ply)

WLL(KG)	WIDTH (MM)	COLOR	WLL in kg at different modes				
			Straight lift	Basket lift	7°-45°	Choker hitch	45°-60°
500	25	Violet	500	1000	700	400	500
1000	50	Green	1000	2000	1400	800	1000
1500	75	Yellow	1500	3000	2100	1200	1500
2000	100	Grey	2000	4000	2800	1600	2000
2500	125	Red	2500	5000	3500	2000	2500
3000	150	Brown	3000	6000	4200	2400	3000
4000	200	Blue	4000	8000	5600	3200	4000
5000	250	Orange	5000	10000	7000	4000	5000
6000	300	Orange	6000	12000	8400	4800	6000



Safety factor 5:1 & 6:1 Flat Polyester Slings type (Double Ply)

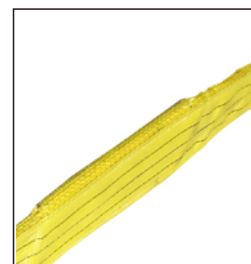
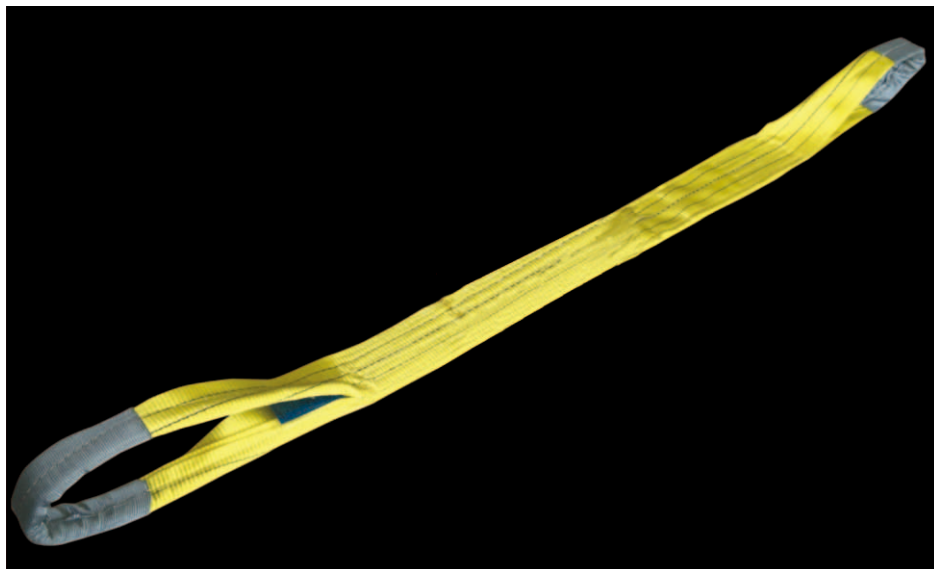
WLL(KG)	WIDTH (MM)	COLOR	WLL in kg at different modes				
			Straight lift 	Basket lift 	7°-45° 	Choker hitch 	45°-60° 
1000	25	Violet	1000	2000	1400	800	1000
2000	50	Green	2000	4000	2800	1600	2000
3000	75	Yellow	3000	6000	4200	2400	3000
4000	100	Grey	4000	8000	5600	3200	4000
5000	125	Red	5000	10000	7000	4000	5000
6000	150	Brown	6000	12000	8400	4800	6000
8000	200	Blue	8000	16000	11200	6400	8000
10000	250	Orange	10000	20000	14000	8000	10000
12000	300	Orange	12000	24000	16800	9600	12000

Supervision for Flat Webbing

- Before using it, flat webbing slings and round slings should be examined for obvious defects and in cases there is damage, they should be taken out of service.
- Annual inspection must be guaranteed. They should be carried out by a competent person in accordance with the regulations specified below:

Instruction for inspection of Flat Webbing

- Flat webbing slings must be taken out of service when:
- Yarn fracture or cutting exceeds 10% of the sling cross-section.
- Damage occurs at the supporting seams.
- Deformation is caused by heat absorption (friction, radiation)
- Damage is caused by aggressive materials
- Chafing on the surface
- Yarn is threadbare or looped
- When fittings are deformed or damaged

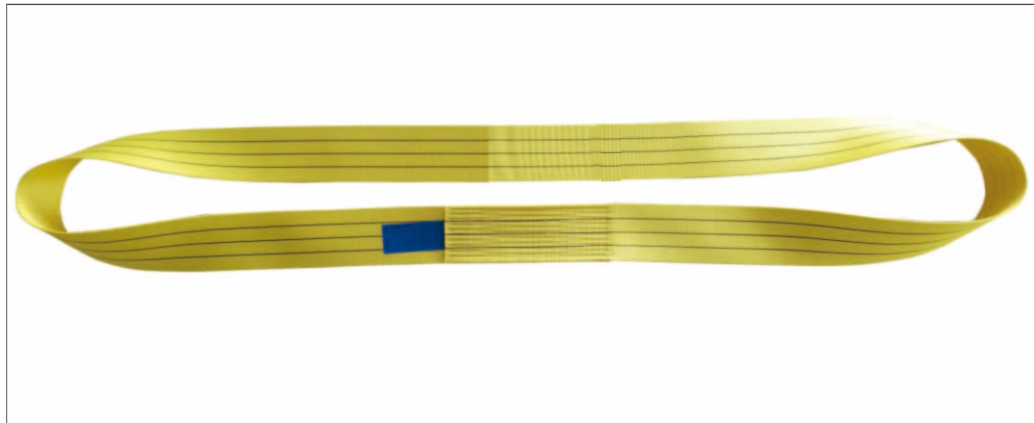
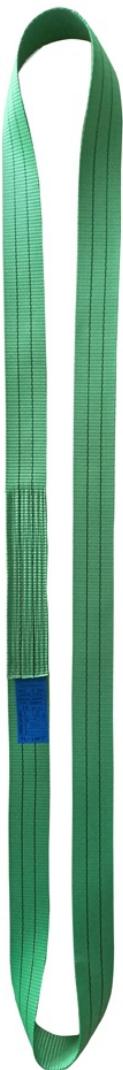


Safety factor 5:1 & 6:1 & 7:1 Flat Polyester Slings type (Four Ply)

WLL(KG)	SF 5:1 SF 6:1 WIDTH (MM)	SF 7:1 WIDTH (MM)	COLOR	WLL in kg at different modes				
				Straight lift 	Basket lift 	7°-45° 	Choker hitch 	45°-60°
2000	25	30	Violet	2000	4000	2800	1600	2000
4000	50	60	Green	4000	8000	5600	3200	4000
6000	75	90	Yellow	6000	12000	8400	4800	6000
8000	100	120	Grey	8000	16000	11200	6400	8000
10000	125	150	Red	10000	20000	14000	8000	10000
12000	150	180	Brown	12000	24000	16800	9600	12000
16000	200	240	Blue	16000	32000	22400	12800	16000
20000	250	300	Orange	20000	40000	28000	16000	20000
24000	300	300	Orange	24000	48000	33600	19200	24000

Safety factor 5:1 & 6:1 & 7:1 Endless Webbing Sling

WLL(KG)	SF 5:1 SF 6:1 WIDTH (MM)	SF 7:1 WIDTH (MM)	COLOR	WLL in kg at different modes				
				Straight lift 	Basket lift 	 7°-45°	Choker hitch 	 45°-60°
1000	25	30	Violet	1000	2000	1400	800	1000
2000	50	60	Green	2000	4000	2800	1600	2000
3000	75	90	Yellow	3000	6000	4200	2400	3000
4000	100	120	Grey	4000	8000	5600	3200	4000
5000	125	150	Red	5000	10000	7000	4000	5000
6000	150	180	Brown	6000	12000	8400	4800	6000
8000	200	240	Blue	8000	16000	11200	6400	8000
10000	250	300	Orange	10000	20000	14000	8000	10000
12000	300	300	Orange	12000	24000	16800	9600	12000



Maintenance and repair of Flat Webbing and Round Slings

- Slings must be stored cool and dry in a preferably ventilated place and be protected against adverse weather conditions and chemically active environments.
- Slings should not be dried near open fire or other hot places (over 100°C).
- Repairs may only be conducted by the manufacturer.

Reference:

EN 1492-1+A1:2008

Textile slings-Safety-part 1:

Flat woven webbing slings, made of man-made fibres ,for general purpose use

German version DIN EN 1492-1



Safety factor 5:1 Flat Polyester Slings type (Double Ply)

WORK LOAD LIMIT (lbs)	SF 5:1 WIDTH (inch)	COLOR	WLL in lbs at different modes				
			Straight lift 	Basket lift 	7°-45° 	Choker hitch 	45°-60° 
3100	1	Yellow	3100	6200	4340	2480	3100
6200	2	Yellow	6200	12400	8680	4960	6200
8800	3	Yellow	8800	17600	12320	7040	8800
11000	4	Yellow	11000	22000	15400	8800	11000
13700	5	Yellow	13700	27400	19180	10960	13700
16500	6	Yellow	16500	33000	23100	13200	16500
22700	8	Yellow	22700	45400	31780	18160	22700
28400	10	Yellow	28400	56800	39760	22720	28400

2" x 20' TOW STRAP



Working Load Limit: **3,333 Lbs**

Breaking Strength: **10,000 Lbs**

- U.V. & weather resistant
- Reinforced construction for maximum strength and versatility
- Eye loop on both ends provides quick & easy attachment to tow hooks or hitch balls

3" x 30' RECOVERY STRAP

Working Load Limit: **9,000 Lbs**

Breaking Strength: **27,000 Lbs**

- U.V. & weather resistant
- Reinforced construction for maximum strength and versatility
- Eye loop on both ends provides quick & easy attachment to tow hooks or hitch balls



Failure to comply with warnings below may result in serious personal injuries and cargo damage.

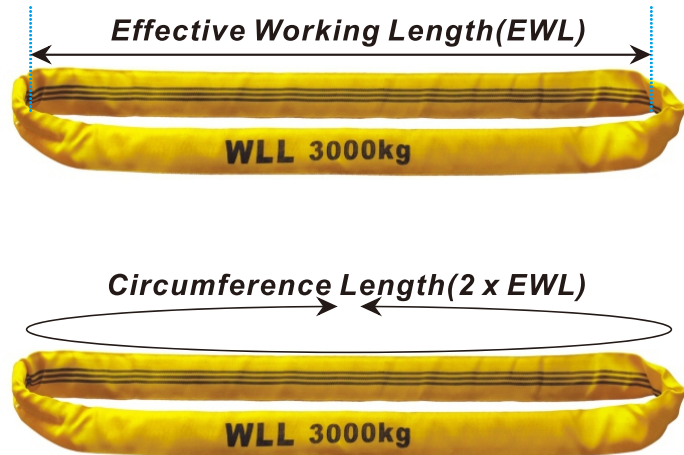
- Do not exceed maximum capacity.
- Do not use if there is any visible damage to strap webbing or stitching.
- Attach strap directly to vehicle frame, towing eye, or hitch, never attach to ball hitch or bumper.
- Keep strap away from sharp edges, heat, and corrosive chemicals.
- Do not use for lifting.
- Not for highway use.

ROUND SLINGS

Round Slings are manufactured to EN 1492-2 and have a safety factor of 7:1. The load bearing fibers are wound together to form an endless hank. The working load limit is determined by number of turns in the hank

! Advantages over Round Slings

- Round Slings have a high strength to weight ratio.
- Wears evenly along the length.
- Load bearing fiber protected from the load, giving greater resistance to wear.
- Remove slings from service when the outer cover is damaged and/or the yarn is exposed.



Safety factor 7:1 According to EN 1492-2

WLL(KG)	WIDTH (MM)	COLOR	WLL in kg at different modes				
			Straight lift 	Basket lift 	7°-45° 	Choker hitch 	45°-60° 
1000	45	Violet	1000	2000	1400	800	1000
2000	47	Green	2000	4000	2800	1600	2000
3000	58	Yellow	3000	6000	4200	2400	3000
4000	72	Grey	4000	8000	5600	3200	4000
5000	83	Red	5000	10000	7000	4000	5000
6000	90	Brown	6000	12000	8400	4800	6000
8000	102	Blue	8000	16000	11200	6400	8000
10000	116	Orange	10000	20000	14000	8000	10000
12000	116	Orange	12000	24000	16800	9600	12000
15000	130	Orange	15000	30000	21000	12000	15000
20000	130	Orange	20000	40000	28000	16000	20000
25000	175	Orange	25000	50000	35000	20000	25000
30000	175	Orange	30000	60000	42000	24000	30000
40000	220	Orange	40000	80000	56000	32000	40000
50000	220	Orange	50000	100000	70000	40000	50000

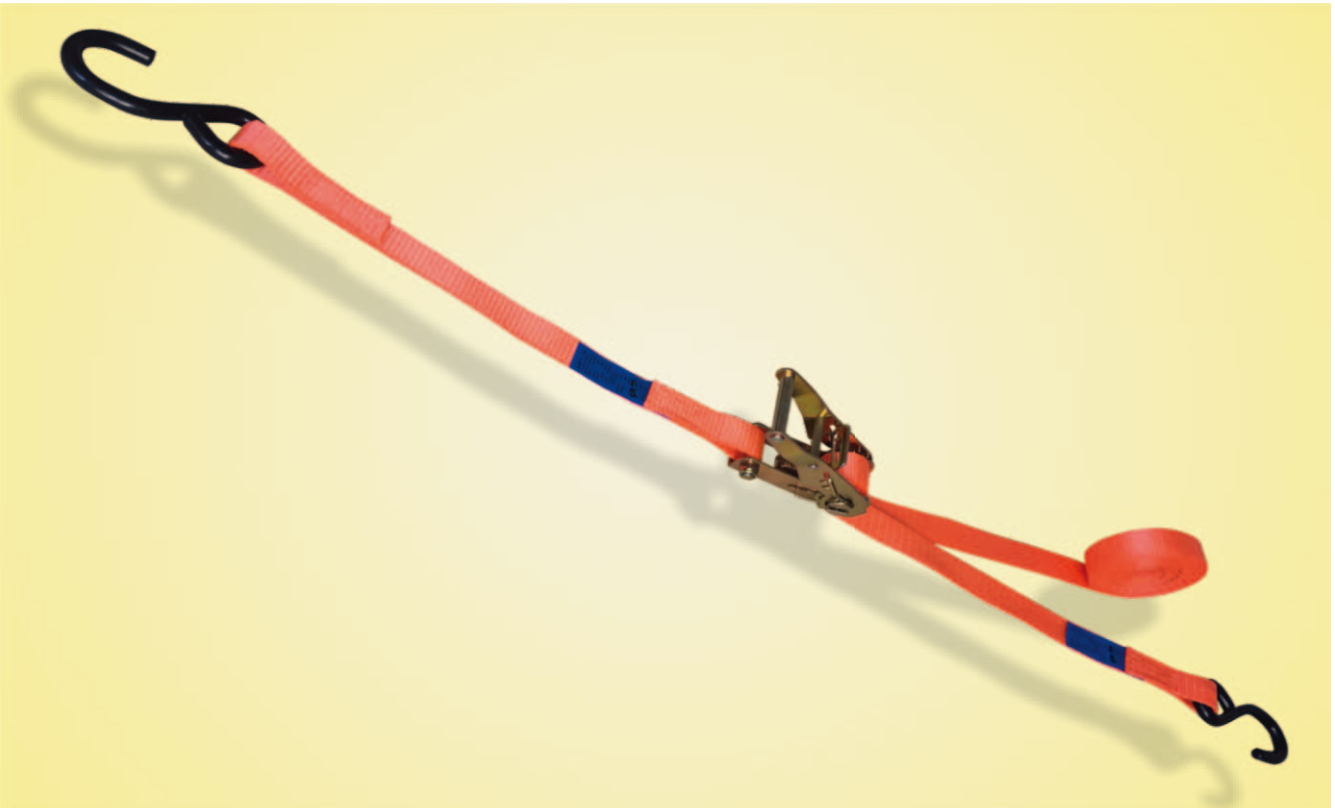
RATCHET TIE DOWN



1" (25mm) Ratchet Tie Down

- ◆ Capacity is ranging from 250kg to 1500kg.
- ◆ Variety of colors can be customized by requirements

EN12195-2



POWERFUL
MACHINERY 盈丰机械



Lashing capacity	Webbing width	Min.B.S	Fixed length	←→	↺↻	Certificate
400daN	25mm	800daN	0.25~0.5m	400daN	800daN	✓
500daN	25mm	1000daN	0.25~0.5m	500daN	1000daN	/
750daN	25mm	1500daN	0.25~0.5m	750daN	1500daN	/
200daN	25mm	400daN	/	/	200daN	✓

2"(50mm) 3000daN Ratchet Tie Down



PLASTIC HANDLE



ALUMINUM
HANDLE



RUBBER HANDLE



FINGER HANDLE



Size: 2" (50mm) X 3T

Lashing Capacity: 1500KG (1500daN)

Breaking Strength: 3000KG (3000daN)

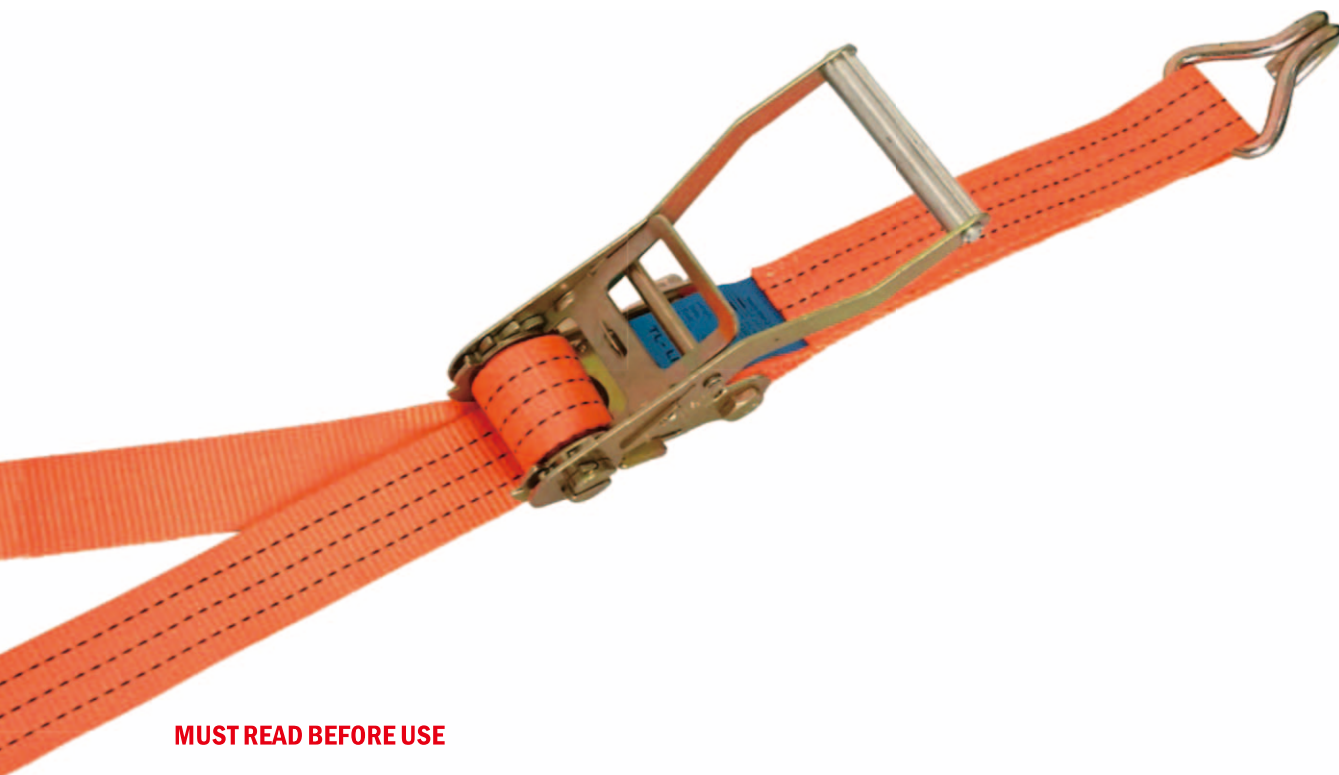
Material: 100% Polyester

Width: 2" (50mm)

Breaking Strength for webbing: 3750daN

Color: Blue/Orange/Yellow/Red/etc.

Length: 4M/6M/8M/10M/12M/etc.



MUST READ BEFORE USE

- ◆ Failure to comply with warning may result in tie down failure, serious personal injury or death. Use of this product demonstrates an understanding of this warning and the risks involved.
- ◆ Never exceed working load limit. Inspect before each use.
- ◆ Webbing should not be used if abrasions, cuts, tears, burns, knots, damaged sew patterns or alterations are present.
- ◆ Always protect webbing from sharp or abrasive surfaces.
- ◆ Hardware must be pulled in a straight line or strength will be reduced, Do not use if any signs of damage, deformation, or alterations are present.
- ◆ This tie down assembly is not to be used for lifting or towing.
- ◆ Refer to Federal, State, Provincial, Industry or local regulations for proper tie down methods.



**2"(50mm) 4000daN
Ratchet Tie Down
EN12195-2**



PLASTIC HANDLE



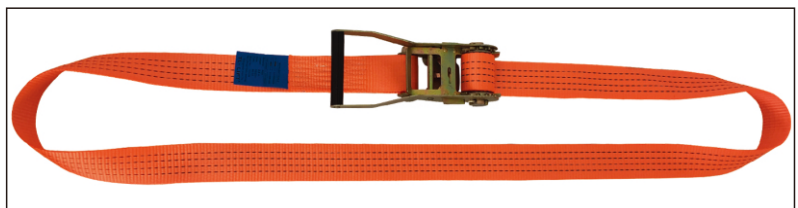
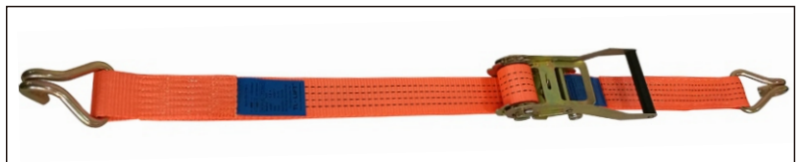
**ALUMINUM
HANDLE**



RUBBER HANDLE



FINGER HANDLE



Size:2"(50mm)X4T

Lashing Capacity:2000KG(2000daN)

Breaking Strength:4000KG(4000daN)

Material:100% Polyester

Width:2"(50mm)

Breaking Strength for webbing:5000daN(For Normal)

Breaking Strength for webbing:6000daN(For GS)

Color:Blue/Orange/Yellow/Red/etc.

Length:4M/6M/8M/10M/12M/etc.



MUST READ BEFORE USE

- ◆ Failure to comply with warning may result in tie down failure, serious personal Injury or Death. Use of this product demonstrates an understanding of this warning and the risks involved.
- ◆ Never exceed working load limit. Inspect before each use.
- ◆ Webbing should not be used if abrasions, cuts, tears, burns, knots, damaged sew patterns or alterations are present.
- ◆ Always protect webbing from sharp or abrasive surfaces.
- ◆ Hardware must be pulled in a straight line or strength will be reduced, Do not use if any signs of damage, deformation, or alterations are present.
- ◆ This tie down assembly is not to be used for lifting or towing.
- ◆ Refer to Federal, State, Provincial, Industry or local regulations for proper tie down methods.



**2"(50mm) 5000daN
Ratchet Tie Down
EN12195-2**



PLASTIC HANDLE



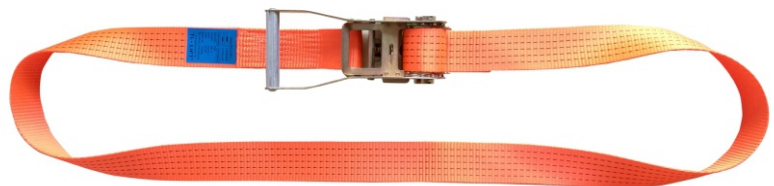
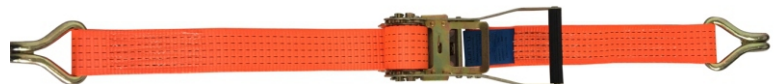
**ALUMINUM
HANDLE**



RUBBER HANDLE



FINGER HANDLE



Size:2" (50mm)X5T

Lashing Capacity:2500KG(2500daN)

Breaking Strength:5000KG(5000daN)

Material:100% Polyester

Width:2" (50mm)

Breaking Strength for webbing:6250daN(For Normal)

Breaking Strength for webbing:7500daN(For GS)

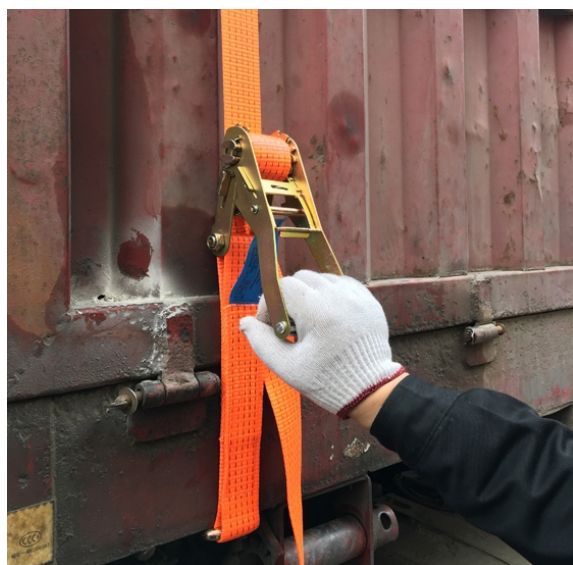
Color:Blue/Orange/Yellow/Red/etc.

Length:4M/6M/8M/10M/12M/etc.



MUST READ BEFORE USE

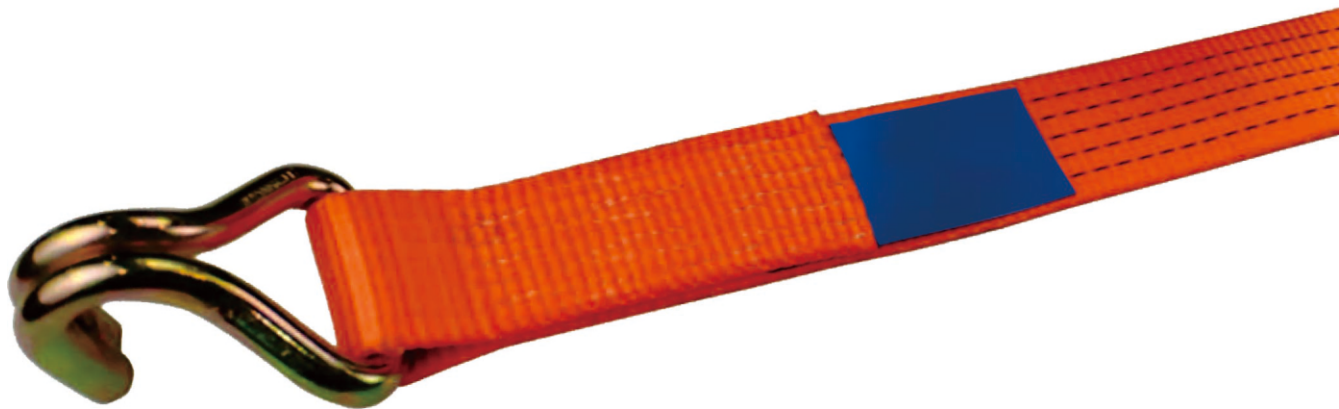
- ♦ Failure to comply with warning may result in tie down failure, serious personal Injury or Death. Use of this product demonstrates an understanding of this warning and the risks involved.
- ♦ Never exceed working load limit. Inspect before each use.
- ♦ Webbing should not be used if abrasions, cuts, tears, burns, knots, damaged sew patterns or alterations are present.
- ♦ Always protect webbing from sharp or abrasive surfaces.
- ♦ Hardware must be pulled in a straight line or strength will be reduced, Do not use if any signs of damage, deformation, or alterations are present.
- ♦ This tie down assembly is not to be used for lifting or towing.
- ♦ Refer to Federal, State, Provincial, Industry or local regulations for proper tie down methods.



EN 12195-2
Policy No.: PZA/20183301000000085
Date: 03/2019
Ser. No.: 123456
100% PES
LC 25 kN
EN 12195-2
Date: 03/2019
Ser. No.: 123456
 
LGF: 0.5 m
LGL: 7.5 m
100% PES
Elongation < 7%
S _{tr} 50daN / S _{tr} 400daN

LC 25 kN
Not for Lifting!
Policy No.: PZA/20183301000000085

**2"(50mm) 4000daN
Ergo Ratchet Tie Down
EN12195-2**



Size:2" (50mm)X4T

Lashing Capacity:2000KG(2000daN)

Breaking Strength:4000KG(4000daN)

Material:100% Polyester

Width:2" (50mm)

Breaking Strength for webbing:5000daN(For Normal)

Breaking Strength for webbing:6000daN(For GS)

Color:Blue/Orange/Yellow/Red/etc.

Length:4M/6M/8M/10M/12M/etc.



**2"(50mm) 5000daN
Ratchet Tie Down**



Size:2" (50mm)X5T

Load Capacity:2500KG(2500daN)

Breaking Strength:5000KG(5000daN)

Material:100% Polyester

Width:2" (50mm)

Breaking Strength for webbing:6250daN(For Normal)

Breaking Strength for webbing:7500daN(For GS)

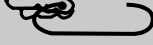
Color:Blue/Orange/Yellow/Red/etc.

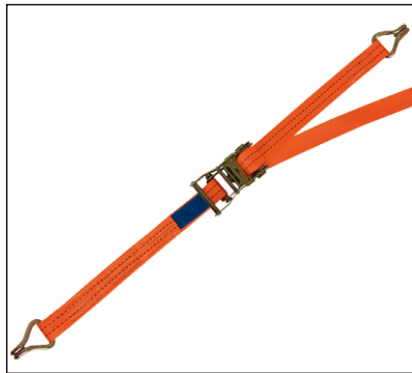
Length:4M/6M/8M/10M/12M/etc.

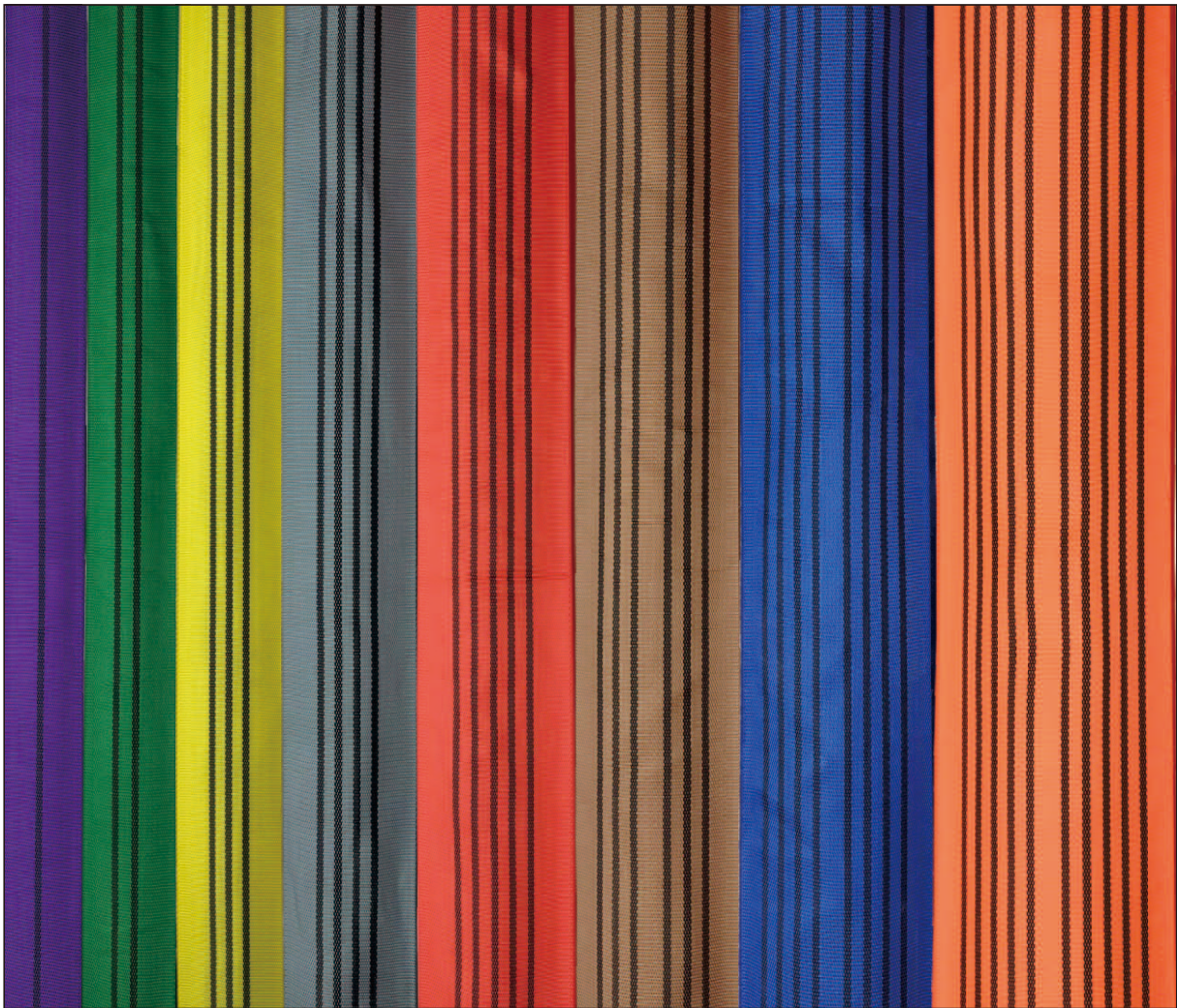


1.5" (35mm) Ratchet Tie Down

- ◆ Capacity is ranging from 2000kg to 3000kg.
 - ◆ Variety of colors can be customized by requirements
- EN12195-2

Lashing capacity	Webbing width	Min.B.S	Fixed length			Certificate
1000daN	35mm	2000	0.3~0.5m	1000daN	2000daN	✓
1500daN	35mm	3000	0.3~0.5m	1500daN	3000daN	✓
2000daN	35mm	4000	✓	✓	2000daN	✓





Instruction for inspection of Round Slings

- Round slings must be taken out of service when:
- Damage is caused by aggressive materials.
- The outer casting or its sewing is damaged and the core is visible.
- In that case, the sling must be taken out of service and inspected by a competent person. The sling may only be reused by a competent person or a competent person confirms its safety after it has been repaired.
- Deformation is caused by heat absorption (friction, radiation).
- When fittings are deformed or damaged.
- Damage caused by heat and a glossy surface produced by frictions, in extreme cases the surface fibres can fuse together.

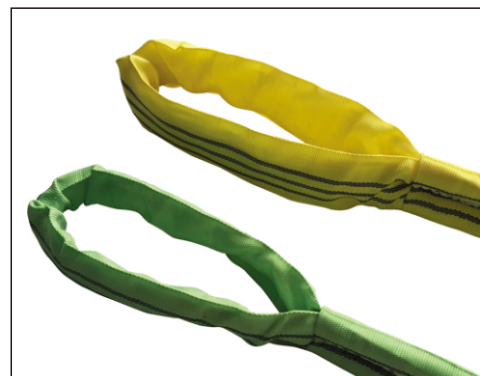
Reference:

EN 1492-2+A1:2008

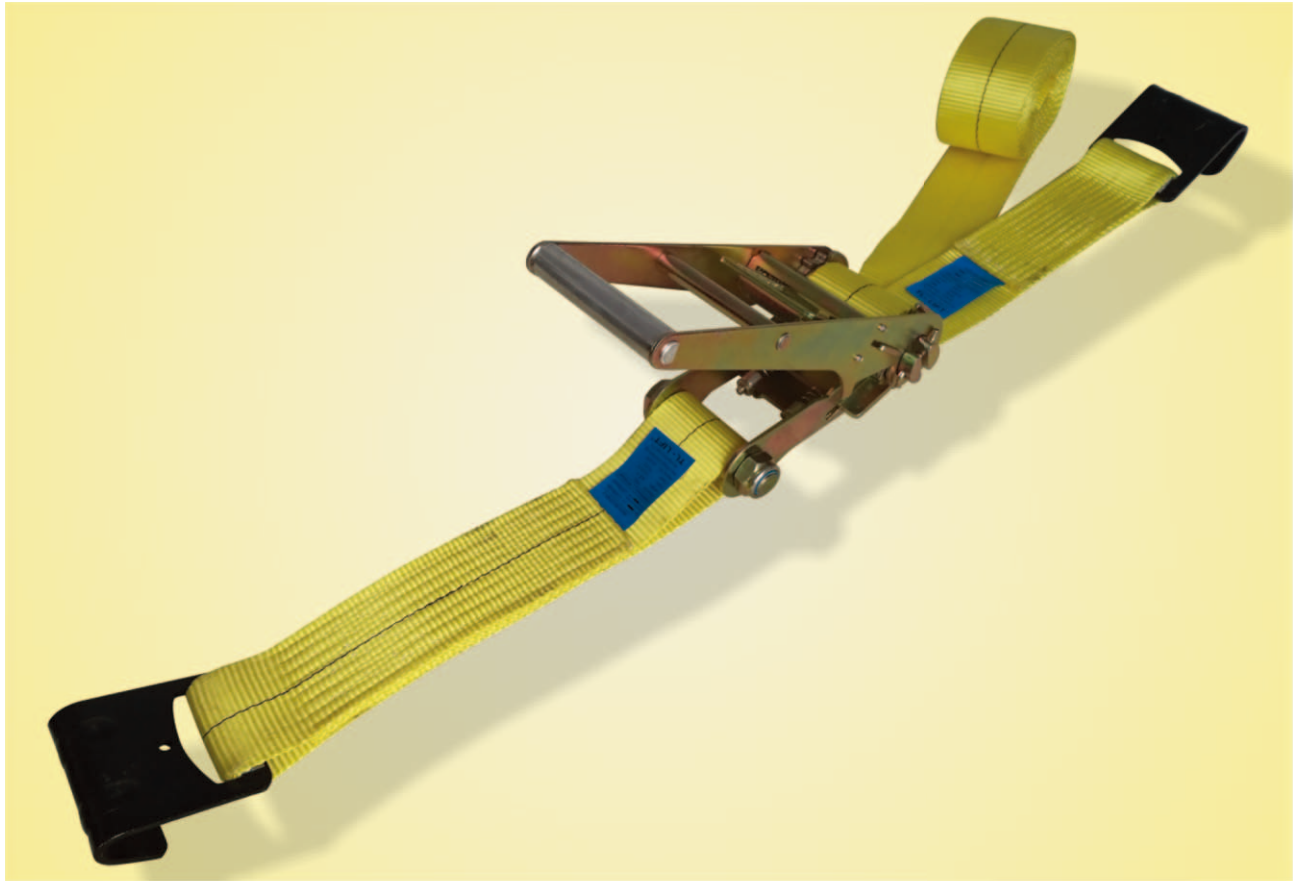
Textile slings-Safety-part 2:

Round slings, made of man-made fibres, for general purpose use

German version DIN EN 1492-2



**3"(75mm) 10000daN
Ratchet Tie Down**



Size:3"(75mm)X10T

Lashing Capacity:5000KG(5000daN)

Breaking Strength:10000KG(10000daN)

Material:100% Polyester

Width:3"(75mm)

Breaking Strength for webbing:

12500daN(For Normal)

Breaking Strength for webbing:

15000daN(For GS)

Color:Blue/Orange/Yellow/Red/etc.

Length:4M/6M/8M/10M/12M/etc.



**4"(100mm) 10000daN
Ratchet Tie Down**



Size:4"(100mm)X10T

Lashing Capacity:5000KG(5000daN)

Breaking Strength:10000KG(10000daN)

Material:100% Polyester

Width:4"(100mm)

Breaking Strength for webbing:

12500daN(For Normal)

Breaking Strength for webbing:

15000daN(For GS)

Color:Blue/Orange/Yellow/Red/etc.

Length:4M/6M/8M/10M/12M/etc.



2"(50mm) 5000daN Ratchet Tie Down

Size:2"(50mm)X5T

Lashing Capacity:2500KG

Breaking Strength:5000KG

Material:100% Polyester

Color:Blue/Orange/Yellow/Red/etc.

Fixed length:1M

Length:4M/6M/8M/10M/12M/etc.

2"(50mm) 3000daN Ratchet Tie Down

Size:2"(50mm)X3T

Lashing Capacity:1500KG

Breaking Strength:3000KG

Material:100% Polyester

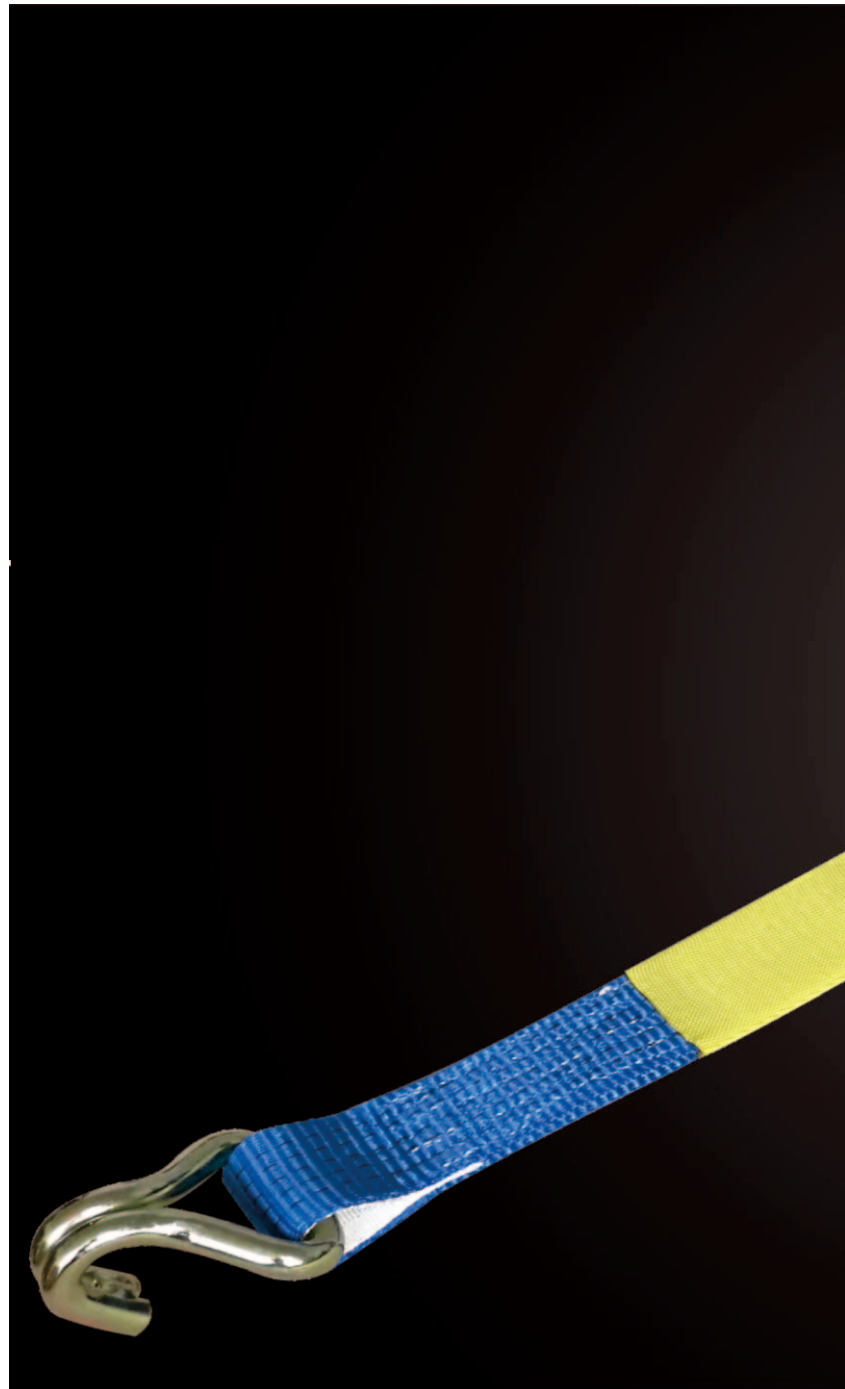
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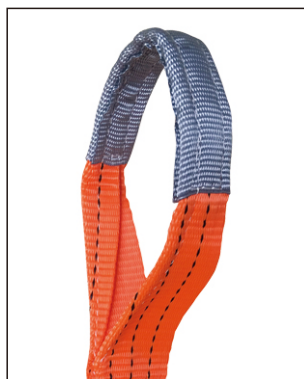
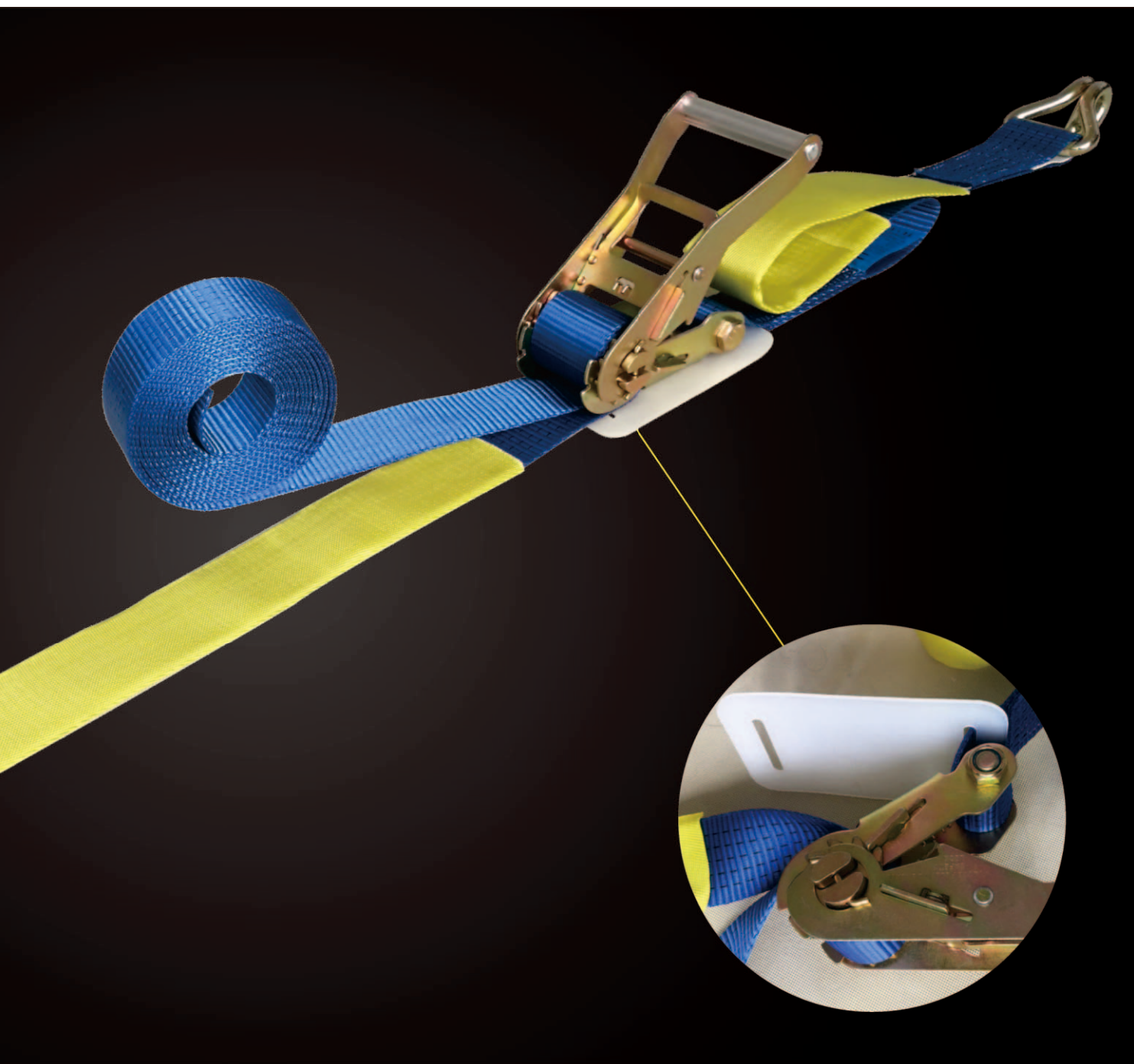
Fixed length:1M

Length:4M/6M/8M/10M/12M/etc.

MUST READ BEFORE USE

- ◆ Failure to comply with warning may result in tie down failure, serious personal Injury or Death. Use of this product demonstrates an understanding of this warning and the risks involved.
- ◆ Never exceed working load limit. Inspect before each use.
- ◆ Webbing should not be used if abrasions, cuts, tears, burns, knots, damaged sew patterns or alterations are present.
- ◆ Always protect webbing from sharp or abrasive surfaces.
- ◆ Hardware must be pulled in a straight line or strength will be reduced, Do not use if any signs of damage, deformation, or alterations are present.
- ◆ This tie down assembly is not to be used for lifting or towing.
- ◆ Refer to Federal, State, Provincial, Industry or local regulations for proper tie down methods.





2"(50mm) 5000daN
Ratchet Tie Down
AS/NZS 4380:2001



Size:2"(50mm)X5T

Lashing Capacity:2500KG

Breaking Strength:5000KG

Material:100% Polyester

Width:2"(50mm)

Color:Blue/Orange/Yellow/Red/etc.

Length:4M/6M/8M/10M/12M/etc.

WARNING

TIE DOWN MUST BE INSPECTED PRIOR TO USE

PROTECT WEBBING FROM SHARP EDGES HOT SURFACES & ACIDS

DO NOT USE STRAP IF WEB IS CUT OR HARDWARE DAMAGED

HOOKS AND BUCKLES MUST BE IN LINE WITH DIRECTION OF PULL

STICKING CAMS OR LEVERS SHOULD BE LUBED ON PIVOT PINS

STORE OUT OF SUN WHEN NOT IN USE



**1.5"(35mm) 3000daN
Ratchet Tie Down
AS/NZS 4380:2001**



Size:1.5"(35mm)X3T

Lashing Capacity:1500KG

Breaking Strength:3000KG

Material:100% Polyester

Width:1.5"(35mm)

Color:Blue/Orange/Yellow/Red/etc.

Length:4M/6M/8M/10M/12M/etc.

**3"(75mm) 10000daN
Ratchet Tie Down
AS/NZS 4380:2001**

Size:3"(75mm)X10T

Lashing Capacity:5000KG

Breaking Strength:10000KG

Material:100% Polyester

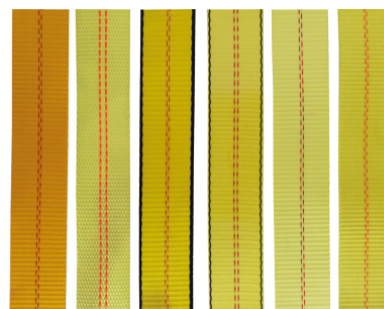
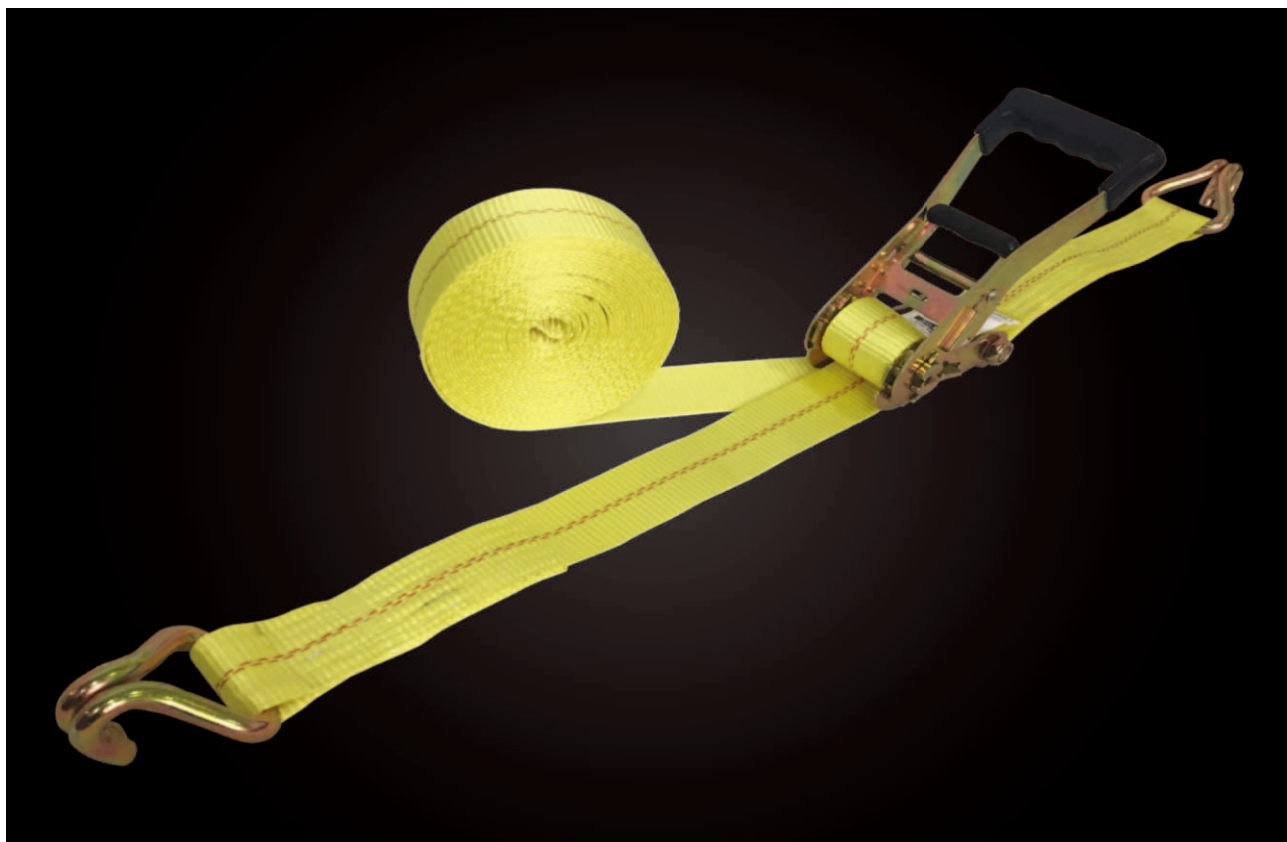
Width:3"(75mm)

Color:Blue/Orange/Yellow/Red/etc.

Length:4M/6M/8M/10M/12M/etc.



Working Load Limit: **3,333 Lbs**
 Breaking Load Limit: **10,000 Lbs**



Size: 2" (50mm) X 10000LBS

Working load limit: 3333LBS

Breaking Strength: 10000LBS

Material: 100% Polyester

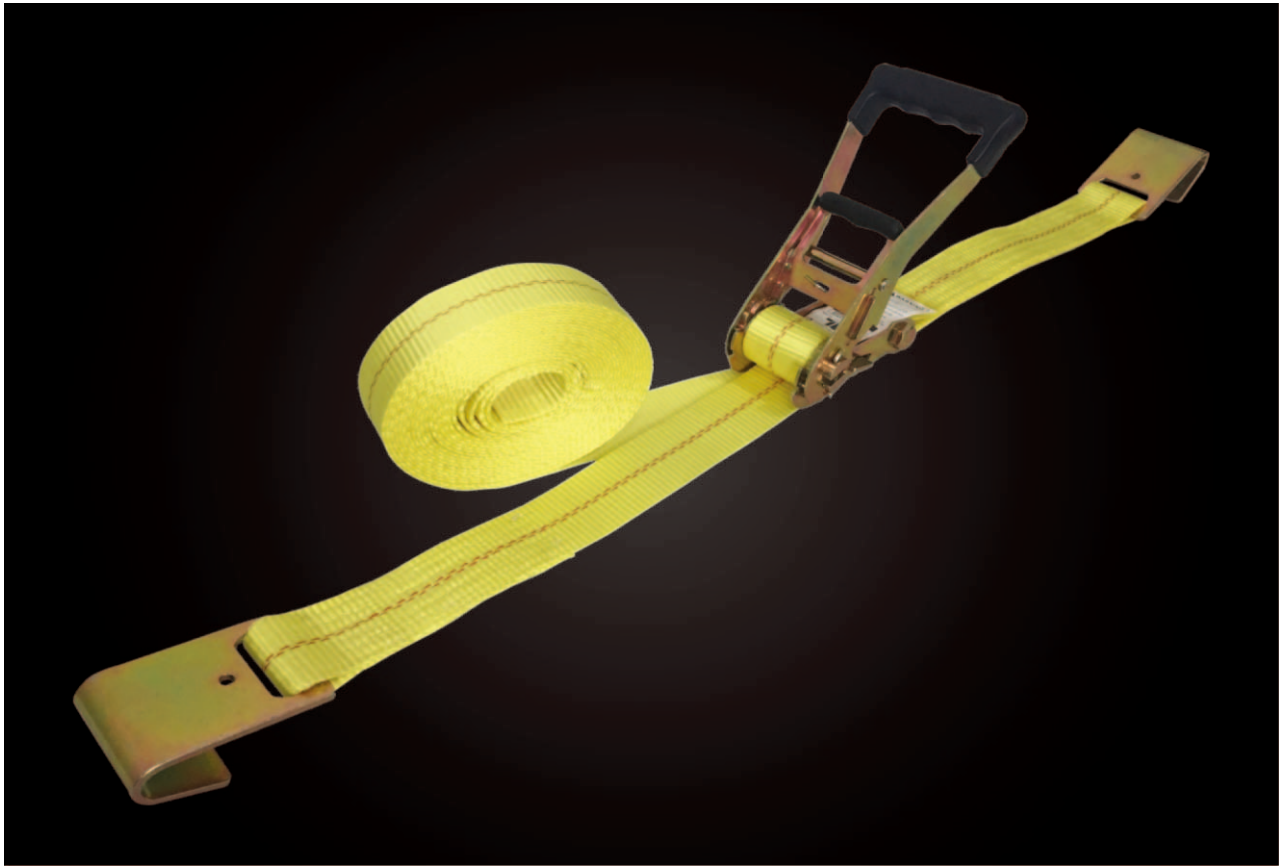
Width: 2" (50mm)

Color: Blue/Orange/Yellow/Red/etc.

Length: 15ft/20ft/27ft/30ft/etc.



Working Load Limit: **3,333 Lbs**
Breaking Load Limit: **10,000 Lbs**



WARNING

- ♦ FAILURE TO COMPLY MAY RESULT IN INJURY OR DEATH.
- ♦ NEVER EXCEED WORKING LOAD LIMIT(WLL) RATING.
- ♦ DO NOT USE IF STRAP IS CUT OR DAMAGED.
- ♦ ALWAYS PROTECT STRAP FROM SHARP EDGES ABRASIVE OR HOT SURFACES.
- ♦ HARDWARE MUST BE PULLED IN A STRAIGHT LINE.
- ♦ DO NOT USE FOR LIFTING OR TOWING.
- ♦ STORE OUT OF DIRECT SUN WHEN NOT IN USE.
- ♦ REFER TO FEDERAL, STATE OR PROVINCIAL REGULATIONS FOR PROPER TIE-DOWN METHODS.



LIFTING EQUIPMENTS



LEVER HOISTS



APPLICATION

The VA Series Lever Hoist can be widely used for equipment installation, lifting and tightening goods, dragging loads in factories, mines, construction sites, power plants, boat manufacturing etc. It is an ideal device especially in narrow space, open air and over-head places for pulling and stretching at angle.

FEATURES

- Compact, light yet durable.
- Double-pawl brake system designed for safety and reliability.
- Heat treated steel plates, gears and shafts for enhanced strength; Forged upper, lower hooks with forged steel safety latches; High Tensile Alloy Steel Chain.
- Free-wheeling mechanism for quick chain adjustments.
- Weston style automatic load brake with double pawl load reduction. 360° rotating handle of ease of use in confined space.
- Idling mechanism to allow fast adjustment of load chain. Safety factor: 4 to 1.
- Fatigue tested at 1.5 times of working load limit to 2000 cycles. Standard: EN 13157.

APPLICATION

The VL Series Lever Hoist can be widely used for equipment installation, lifting and tightening goods, dragging loads in factories, mines, construction sites, power plants, boat manufacturing etc. It is an ideal device especially in narrow space, open air and overhead places for pulling and stretching at angle.

FEATURES

- Compact, light yet durable.
- Double-pawl brake system designed for safety and reliability.
- Heat treated steel plates, gears and shafts for enhanced strength; Forged upper, lower hooks with forged steel safety latches; High Tensile Alloy Steel Chain. Free-wheeling mechanism for quick chain adjustments, Weston style automatic load brake with double pawl load reduction.
- 360° rotating handle of ease of use in confined space.
- Idling mechanism to allow fast adjustment of load chain.
- Safety factor: 4 to 1.
- Fatigue tested at 1.5 times of working load limit to 2000 cycles.
- Standard: EN 13157.

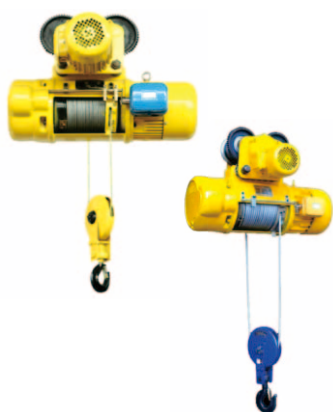
MODEL:VA LEVER HOISTS

MODEL	VA-0.75	VA-1.5	VA-3	VA-6	VA-9
CAPACITY(T)	0.75	1.5	3	6	9
STANDARD LIFT(M)	1.5	1.5	1.5	1.5	1.5
RUNNING TEST LOAD(T)	1.125	2.25	4.5	9	13.5
EFFORT REQUIRED AT CAPACITY(N)	140	220	320	340	360
NO.OF COLUNS OF LOAD CHAIN	1	1	1	2	3
LOAD CHAIN DIA.(MM)	6	8	10	10	10
DIMENSIONS(MM)	A	145	175	203	203
	B	86	100	118	118
	C	122	130	150	205
	D	37	45	50	64
	H	320	380	480	620
	L	285	370	410	410
	K	30	36	40	50
NET WEIGHT(KG)	7.5	11.5	21	31.5	47
PACKING MEASUREMENTS (L×W×H)(CM)	35.5x14x16.5	46.5x15.5x19	51x19x21.5	53x22x21.5	82x32x21.5
EXTRA WEIGHT PER METER OF EXTRA LIFT(KG)	0.8	1.4	2.2	4.4	6.6

MODEL:VL LEVER HOISTS

MODEL	VL-0.75	VL-1	VL-1.5	VL-3.0	VL-6.0	VL-9
CAPACITY(T)	0.75	1	1.5	3	6	9
STANDARD LIFT(M)	1.5	1.5	1.5	1.5	1.5	1.5
RUNNING TEST LOAD(T)	1.125	1.5	2.25	4.5	9	13.5
EFFORT REQUIRED AT CAPACITY(N)	148	197	216	336	345	357
NO.OF COLUNS OF LOAD CHAIN	1	1	1	1	2	3
LOAD CHAIN DIA.(MM)	6.3	6.3	7.1	9	9	9
NET WEIGHT(KG)	6.6	6.6	11.65	21.1	23.7	54
DIMENSIONS(MM)	A	155	155	170	198	198
	B	128	128	147	182	230
	C	310	310	350	470	590
	D	240	240	365	365	365
	E	28	32	36	47	49

ELECTRIC HOISTS



- Model CD1 Electric hoist has only normal speed ,which can satisfy normal application.
- Model MD1 Electric hoist provides two speeds: normal and low speed, At a low speed it can be do provides loading and unloading.
- Model CD1/MD1 Electric hoist is a small size lifting equipment, which can be used on single beam, storehouse and bridge cranes.
- Reducer: Third-class dead axel helical gear transmission structure is adopted; gear and gear axel are made of heat treated alloy steel; case and case cover with precise assembly and good seal are made of quality cast iron. The reducer is independent, so it's easy to load and unload it.
- Control Box: It has device with up and down stroke protection of break off limiter and can cut off main circuit in an emergency, which ensures safe operation of electric block. Electric elements are of long service life and operational safety. Steel Wire Rope: It uses GB1102-74 (6X37+1) hoist steel wire rope which is durable in use.
- Conical Motor: The hoist motor uses conical rotors of relatively stronger starting torque to bake asynchronous motor and does not need extra arrester. The motor' s load duration factor is 25%; the motor uses B grade and F grade in sulation and its protection degree is IP44/54.
- Button Switch: It's hand-operated, easy to handle, and has tow modes of cord operation and cordless remote control.

Model		CD-1T—CD-10T										MD-0.5T — MD-16T										
N.W.(T)		0.5					1					2					3					
Lifting height(m)		6	9	12	6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30
Lifting normal speed(slow speed)(m/pm)		8(0.8)																				
Running speed(m/pm)		20(30)																				
Wirerope	Diameter of the rope(mm)	4.8					7.4					11					13					
	Diameter of the line (mm)	0.22					0.34					0.5					0.6					
	Structural style												D-6×37+1									
beam track model(GB706-65)(m)		16-28b										20a-32c										
The minimum radius of O ring track(m)		1.5		1.5	2	3	4	2				2.5	3	4	2	2.5	3	4				
Lifting electric motor	Model	ZDi21-4(ZDSi0.2/0.28)					ZDi22-4(ZDSi0.2/1.5)					ZDi31-4(ZDSi0.8/4.5)					ZDi32-4(ZDSi0.8/4.5)					
	Capacity(k/w)	0.8(0.2/0.8)					1.5(0.2/1.5)					3(0.4/3)					4.5(0.8/4.5)					
	Rotating speed(r/m)	1380																				
	Phase	3																				
	Voltage(V)	380																				
	Current(A)	2.4(0.72/2.4)					4.3(0.72/4.3)					7.6(1.25/7.6)					11(2.4/11)					
Running electric motor	Frequency(c/s)	50																				
	Model	ZDYi11-4					BZDYi11-4					ZDYi12-4										
	Capacity(k/w)						0.2					0.4										
	Rotating speed(r/m)	1380																				
	Phase	3																				
	Voltage(V)	380																				
Lifting electric motor	Current(A)						0.72					1.25										
	Frequency(c/s)	50																				
	Connectiontimes(t/ph)	120																				
Work rate(JC%)		25%																				

Model		CD-1T—CD-10T										MD-0.5T — MD-16T									
N.W.(T)		5										10									
Lifting height(m)		6	9	12	18	24	30	6	9	12	18	24	30	6	9	12	18	24	30		
Lifting normal speed(slow speed)(m/pm)		8(0.8)																			
Running speed(m/pm)		20(30)																			
Diameter of the rope(mm)		15																			
Wirerope	Diameter of the line (mm)	0.7												0.5							
	Structural style	D-6×37+1																			
beam track model(GB706-65)(m)		25a-63c												20a-32c							
The minimum radius of O ring track(m)		2.5	3	4	5	2.5	3.5	4	6	7.5	9	2.5	3.5	4	6	7.5	9				
Lifting electric motor	Model	ZDi41-4(ZDSi0.8/7.5)							ZDi51-4(ZDSi1.5/13)												
	Capacity(k/w)	7.5(0.8/7.5)							13(1.5/13)												
	Rotating speed(r/m)	1400																			
	Phase	3																			
	Voltage(V)	380																			
	Current(A)	18(2.4/18)							30(4.3/30)												
Running electric motor	Frequency(c/s)	50																			
	Model	ZDYi21 ~ 4																			
	Capacity(k/w)	0.8							0.8×2												
	Rotating speed(r/m)	1380																			
	Phase	3																			
	Voltage(V)	380																			
	Current(A)	2.4							2.4×2												
	Frequency(c/s)	50																			
	Connectiontimes(t/ph)	120																			
Work rate(JC%)		25%																			



MODEL:LA HORIZONTAL LIFTING CLAMP

Working load limit(WLL)1-10T

- Suitable for lifting and transport of steel plates, construction and profiled bar in horizontal position.
- Manufactured from high quality carbon steel.
- Avoid snatch or shock loading.
- The working load limit is the maximum load that the clamp are authorized to support when used in pairs with a life angle of 60°. In lifting operations the clamps can be used in pairs or multiples.

MODEL	WLL (TONS)PER PAIR	JAW OPENING(MM)	WEIGHT(KG)
LA1	1.0	0-30	3.7
LA2	2.0	0-50	5.2
LA3.2	3.2	0-60	7.7
LA5	5.0	10-80	12.5
LA6	6.0	10-100	15
A10	10.0	20-120	26.6

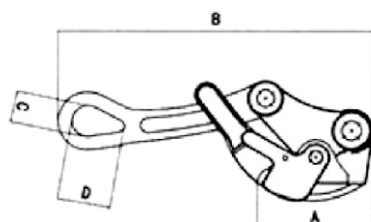


MODEL:E VERTICALE LIFTING CLAMP

- Standard design clamp for vertical lifting of steel plates and steel structures.The spring-loaded tightening lock mechanism assures a positive initial clamping force.
- Clamps are equipped with a safety mechanism,ensuring the clamp does not slip when lifting force is applied and when load is being lowered.
- The clamp is locked in closed as well as in open position.
- Manufactured from high quality carbon steel.
- High-frequency quenching of die-forged special alloy steels gives greater durability to the cam.

MODEL	CAPACITY (TON)	RUNNINGTEST LOAD(KN)	OPENINGSIZE (MM)	DIMENSIONS(MM)										NETWEIGHT (KG)
				A	B	C	D	E	F	G	H	I	J	
E-0001	1000	19.6	0-22	24	36	125	50	24	220-260	30	156	52	14	3.6
E-0002	2000	39.2	0-30	35	45	155	60	30	250-295	38	190	60	18	6
E-0003	3000	58.8	0-35	40	50	175	60	35	296-360	40	226	68	20	9.2
E-0005	5000	98	0-50	50	58	218	65	42	350-420	60	270	76	22	16.5
E-0010	10000	148	0-90	90	120	325	82	60	454	75	333	95	25	33

JX TYPE CABLE GRIPS



- with special heat treatment, tensile strength, high degree of actness, not easy to slip and deform- with delicate and smooth tongs, minimal damage to wire
- clamp mouth equipped with anti - chip insurance device, report security not jumping line
- the design of the half-moon is suitable for all kinds of steel cables and cables

Model	JX-0.5	JX-1	JX-2	JX-3
Rated capacity (t)	0.5	1	2	3
Open specification(mm)	1-10	2.5-16	4-22	16-32
Main dimensions (mm)	A	55	71	91
	B	131	189	248
	C	16	25	25
	D	16	37	42
Net weight(kg)	0.4	0.75	1.4	2.5

SD-L-1000C



SD-L-GRIP

- Used for copper cable,covered
- conductor steel rod,messenger
- wire and coppor cable

SAFE LOAD	CABLE DIAMETER	W.T.
1ton	2.6-15 m/m	0.75 kg

HAND PULLER



MODEL	HOISTING CAPACITY	WORKING CAPACITY	BREAKING FORCE	GEAR LINE HOOK	STEEL CABLE SIZE
SY10-112	500KG	1000KG	2000KG	Single Gear,Single Line,Double Hooks	2.2m*φ4.8mm
SY10-122	500KG	1000KG	2000KG		2.2m*φ4.8mm
SY10-212	500KG	1000KG	2000KG	Double Gear,Single Line,Double Hooks	2.2m*φ4.8mm
SY10-222	500KG	1000KG	2000KG	Double Gear,Double Line,Double Hooks	2.2m*φ4.8mm
SY20-222	1000KG	2000KG	3000KG		2.2m*φ5mm
SY30-223	1500KG	3000KG	4000KG		3.05m*φ5.5mm
SY40-223	2000KG	4000KG	5000KG		3.05m*φ6mm



MODEL 1000

CAPACITY	MAX.L.	MIN.L.	WIRE DIA.	NET WT.
1 TON	1210m/m	410m/m	5m/m	3.2kg

MODEL 1500

CAPACITY	MAX.L.	MIN.L.	WIRE DIA.	NET WT.
1.5 TON	1400m/m	480m/m	6m/m	4.2kg

MODEL P1500

MAX.L.	MIN.L.	WIRE DIA.	NET WT.
3300m/m	480m/m	5m/m	4.1kg

MODEL 2000

CAPACITY	MAX.L.	MIN.L.	WIRE DIA.	NET WT.
2 TON	1900m/m	480m/m	5m/m	3.8kg

MODEL 1030

CAPACITY	NET WT.
1 TON	4.3kg

MODEL 1040

CAPACITY	NET WT.
1 TON	5.2kg

MODEL 1506

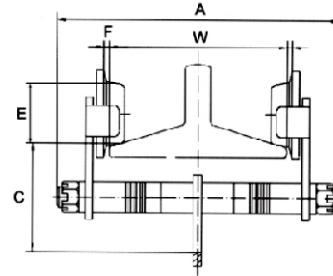
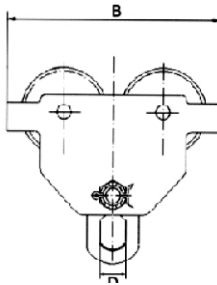
CAPACITY	NET WT.
1.5 TON	6.2kg

MODEL 1509

CAPACITY	NET WT.
1.5 TON	7.2kg

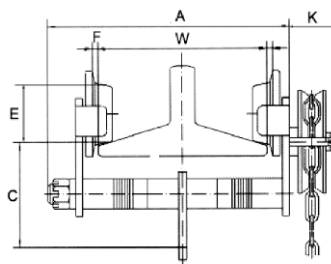
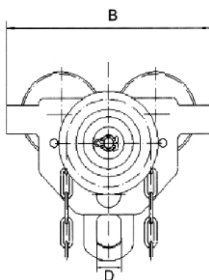
TROLLEY

MODEL:VP



MODEL	CAPACITY (TON)	FITS BEAM (MM)				DIMENSIONS(MM)						MINIMUM REVOLVING RADIUS(MM)	N.W, (KG)
		W		H									
		min	max	min	max	A	B	C	D	E	F		
VP005	0.5	75	125	100	150	206	174	120	45	55	27	900	5.5
VP010	1	75	125	125	250	206	231	120	45	80	27	1300	7.5
VP020	2	100	150	150	400	241	271	155	60	100	33	1500	11.2
VP030	3	100	150	180	400	261	311	185	70	113	47	2000	17
VP050	5	125	175	250	450	294	351	220	80	125	53	2600	30.5
VP100	10	150	175	250	450	294	721	165	∞	125	53	∞	43

MODEL:VG



MODEL	CAPACITY (TON)	FITS BEAM (MM)				DIMENSIONS(MM)								MINIMUN REVOLVING RADIUS(MM)	N.W (KG)
		W		H											
		MIN	MAX	MIN	MAX	A	B	C	D	E	F	K			
VG010	1	75	125	125	250	206	231	120	45	80	27	117	1300	8.5	
VG020	2	100	150	150	400	241	271	155	60	100	33	119	1500	12.2	
VG030	3	100	150	180	400	261	311	185	70	113	47	134	2000	18	
VG050	5	125	175	250	450	294	351	220	80	125	53	134	2600	31.5	
VG100	10	150	175	250	450	294	721	165	∞	125	53	134	∞	45	

MODEL:AP



MODEL	CAPACITY (TON)	FITS BEAM (MM)				DIMENSIONS(MM)						MINIMUN REVOLVING RADIUS(MM)	N.W, (KG)
		W		H									
		MIN	MAX	MIN	MAX	A	B	C	D	E	F		
AP005	0.5	75	125	100	150	206	174	120	45	55	27	900	7.8
AP010	1	75	125	125	250	206	231	120	45	80	27	1300	14
AP020	2	100	150	150	400	241	271	155	60	100	33	1500	22
AP030	3	100	150	180	400	261	311	185	70	113	47	2000	35
AP050	5	125	175	250	450	294	351	220	80	125	53	2600	47
AP100	10	150	175	250	450	294	721	165	∞	125	53	∞	87

MODEL:AG



MODEL	CAPACITY (TON)	FITS BEAM (MM)				DIMENSIONS(MM)								MINIMUN REVOLVING RADIUS(MM)	N.W (KG)
		W		H											
		MIN	MAX	MIN	MAX	A	B	C	D	E	F	K			
VG010	1	75	125	125	250	206	231	120	45	80	27	117	1300	15	
VG020	2	100	150	150	400	241	271	155	60	100	33	119	1500	23	
VG030	3	100	150	180	400	261	311	185	70	113	47	134	2000	36	
VG050	5	125	175	250	450	294	351	220	80	125	53	134	2600	49	
VG100	10	150	175	250	450	294	721	165	∞	125	53	134	∞	89	

CLAMPS



MODEL:JG



MODEL	CAPACITY(KG)	APPLICABLE BEAM WIDTH(MM)	WEIGHT(KG)
JG1	1000.0	75-230	4.1
JG2	2000.0	75-230	4.8
JG3	3000.0	80-320	9.5
JG5	5000.0	80-320	11.3
JG10	10000.0	90-320	17.6

MODEL:YG



MODEL	WLL (TONS) PER PAIR	JAW OPENING (MM)	WEIGHT(KG)
YG0.5	0.5	50-100	3.2
YG1	1.0	50-100	3.2
YG2	2.0	80-130	12.8
YG3	3.0	120-220	27.3
YG5	5.0	200-320	104

MODEL:VK



MODEL	WLL (TONS) PER PAIR	JAW OPENING (MM)	WEIGHT(KG)
VK1	1.0	30-100	5
VK2	2.0	30-150	8.7
VK3	3.0	30-240	13
VK5	5.0	30-330	27



TOE JACK



Manual Hydraulic Cylinder with Toe-Lift

- Carbon steel base with automatic welding makes stable quality.
- Chrome plated plunger resists corrosion and extends life.
- For heavy equipment lifting or check level with minimum available access.

MODEL NUMBER	TOP CAPACITY U(TON)	LOW TOE-LIFT CAPACITY F(TON)	STROKE (MM)	MIN. HEIGHT A(MM)	EXT. HEIGHT B (MM)	PLUNGER DIAM. J (MM)	BASE DIMENSIONS LXW(MM)	HEIGHT K(MM)	TOE-LIFT BASE L1XW1(MM)	WEIGHT (KG)
SHL-05S	5	2.5	110	230	340	32	152 X200.5	16	78X47	8.5
SHL-10S	10	5	135	280	415	42	185 X235	22	98 X55	19.5
SHL-10SI	10	5	135	280	415	42	185 X235	22	98 X55	20.5
SHL-10MS	10	5	135	277	412	42	220 X 229	22	130 X52	20.0
SHL-20MS	20	10	150	317	467	55	220 X240	25	132 X36	31.5
SHL-30S	30	15	150	335	486	62	265 X 272	28	149 X60	44.0
SHL-50S	50	25	150	370	520	85	340 X354	40	190X75	88.5
SHL-10P	10	5	134	266	400	42	125 X 275	50	100X100	20.0
SHL-10PH	10	5	134	266	400	42	125 X275	50	100X100	20.0

MECHANICAL JACK



MODEL		SY-C5	SY-C10	SY-C16	SY-C20
RATED CAPACITY	T	5.0	10	16	20
TEST LOAD	KN	61.3	122.5	196	245
THE HAND POWER OF FULL LOAD	N	280	560	640	640
DISTANCE	MM	300	300	300	300
LIFTING HEIGHT	MM	25-725	30-800	40-800	40-860
NET WEIGHT	KG	29.5	50	69	80
MEAS	CM	75*21*25	82*27*31	85*29*35	90*38*30

PALLET TRUCKS

HYDRAULIC STACKER



The hydraulic stacker which does not need the driving power and will not bring any pollution. This machine is compact in structure, flexible in transportation, and easy to maintain. It is suitable to be used in factories, workshops, warehouses, and truck stations for lifting and

Model	ORM-1000	ORM-1500/2000
Capacity(KG)	1000	1500/2000
Lifting height(mm)	1600	1600
Lowered fork height(mm)	100	100
Fork length(mm)	1000	800
Fork outside distance(mm)	745	760
Overall dimension(mm)	1400*780*1850	1350*800*1870
Front wheel(mm)	80	80
Loaded wheel(mm)	180	180
Net weight(kg)	120	140/180

PALLET TRUCK



- Equipped with comfortable handle
- High-balanced intensifying frame
- High strength welding hydraulic pressure oil cylinder, equipped with safety valve
- The longer and larger type can be provided on customer's request

Model	ORM-HP
Capacity(KG)	2000/2500/3000
Fork Width(mm)	550 685
Fork length(mm)	1100 1200
Lowered height(mm)	85/75
Max fork height(mm)	195/185
Max lifting height(mm)	≥110
Format of front wheel	single/double
Material of wheel	Nylon/Rubber/Polyurethane
Truck Weight(kg)	80-85
Packing Qty(20 container)(PCS)	180 144

PERMANENT MAGNETIC LIFTER



TYPE	LIFTING CAPACITY (KG)	DIMENSION L*W*H (CM)	MAX BREAKAWAY FORCE(KG)	NET WEIGHT (KG)	GROSS WEIGHT (KG)
SY-100	100	25*16*16	300	3	4
SY-400	400	32*20*17	1200	10	11
SY-600	600	37*23*21	1800	20	22
SY-1000	1000	43*28*24	3000	37	40
SY-2000	2000	52*30*31	5000	68	74
SY-3000	3000	60*30*31	7500	87	93
SY-4000	4000	68*30*41	10000	113	121
SY-5000	5000	73*40*48	12500	198	213