



QLIFT INDUSTRIAL SDN. BHD.

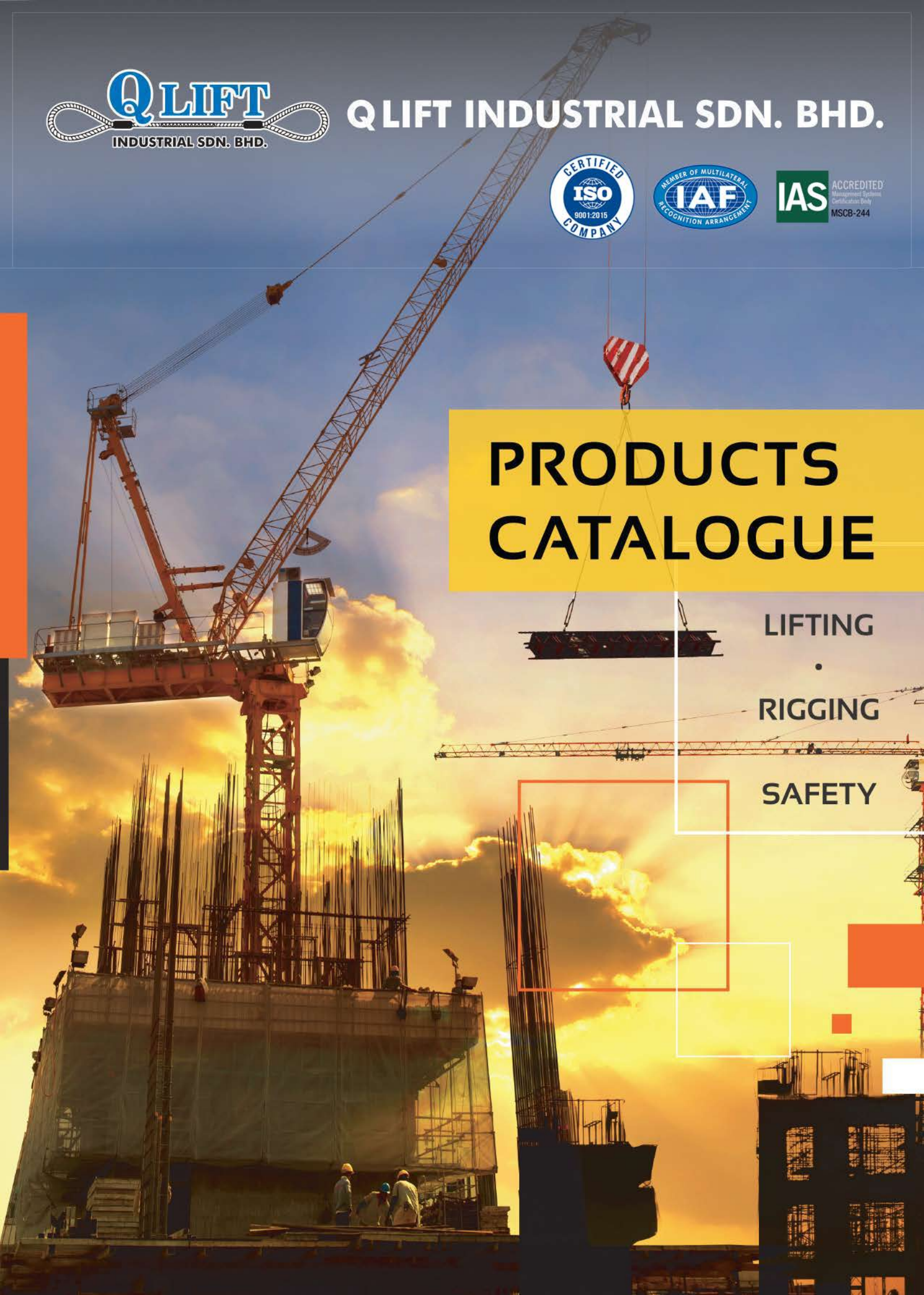


PRODUCTS CATALOGUE

LIFTING

RIGGING

SAFETY



OUR STORY -

STOCKIST | DISTRIBUTOR | SOLUTION

QLIFT INDUSTRIAL SDN BHD. We represent various major lifting brands from local and overseas, including but are not limited to U.S.A, Japan, Korea, China, India, Taiwan and Malaysia.

Today, we are Malaysia's leading stockist, distributor and provider of lifting & rigging products. In recent years, the ranges of our products are expanding. This includes the Wire rope, Chain, natural and synthetic rope, lifting gear, lashing, survival gear, crane accessories, marine supply, safety gear and grab bucket.

We also provide a range of comprehensive services including load testing, third party certification, MPI testing, rope and socket fabrication, swaging service and complex lifting solution design. We could also provide trainings and seminars upon customers' request.

We are currently supporting more than 800 clients in various fields including port, construction, engineering, logging, manufacturing, marines & ships, oil and gas industries in Malaysia.

"Ensuring customer's satisfaction" has been our goal since our establishment. We provide flexible solution to our customers by meeting different demands and needs. You can reach our directors directly via email (qliftsupply@gmail.com) for any complains related to our products or services. We look forward to solve your concerns in a timely manner.

In order to have a better service to our clients, we always seek to upgrade our facilities, products range and knowledge. We hope to grow together and to achieve a win-win solution between our partners and clients. We thank you for your support. Let us achieve greater heights!

OUR BRAND



江苏狼山



FACTORY

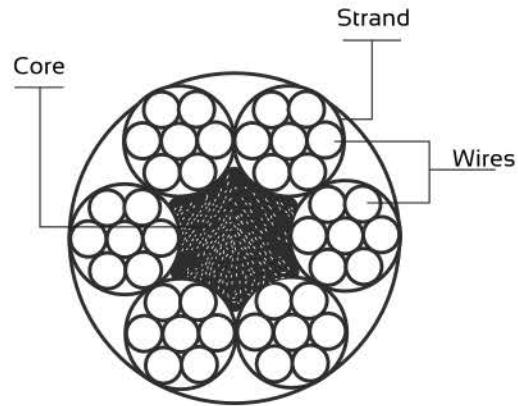
In order to better serve our clients, a larger warehouse which enabled us to accommodate varieties of stocks. We are expecting to expand in the future.



WIRE ROPE - COMPONENTS

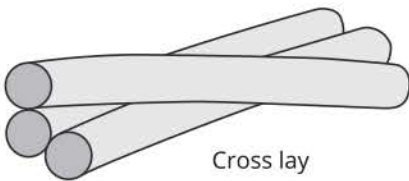
WIRE ROPE COMPONENTS

- Wire
- Strand
- Core

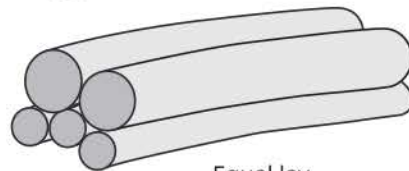


Wire rope

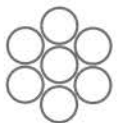
Fundamental Constructions



Cross lay

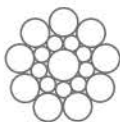


Equal lay



Single Layer

- Single - Wire centre with six wires of the same diameter.



Seale

- Equal number of wires in each layer.
- All wires in each layer are of the same diameter.
- Large outer wires rest in the valley between the small inner wires.



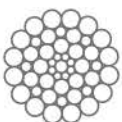
Filler wire

- Inner layer having half the number of wires as the outer layer.
- Small filler wires, equal in number to the inner layer, are laid in the valleys of the inner layer.



Warrington

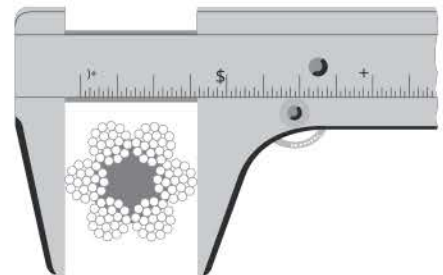
- One diameter of wire in the inner layer.
- Two diameters of wire alternating large and small in the outer layer.
- The large outer-layer wires rest in the valleys and the smaller ones on the crowns of the inner layer.



Combined

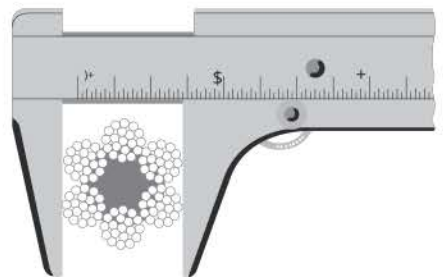
- Combination of above constructions. Eg Seale-Filler, Warrington-Seale etc.

Rope size



Correct

Measure the circle just touching the extreme outer limits (crown) of the strands.



Incorrect

GENERAL INFORMATION OF WIRE ROPES -

TYPE OF LAY

DIRECTIONS OF WIRE & STRAND HELIX



Right hand regular lay
(RHRL/RHO/sZ)



Left hand regular lay
(LHRL/LHO/zS)



Right hand lang's lay
(RHLL/RHL/zZ)



Left hand lang's lay
(LHLL/LHL/sS)

Round stranded ropes have both the strands and the wires in the strands laid helically. Should the lay of the outer wires in the strands be in the same direction or in the opposite direction to that of the strands in the rope, the result will be respectively a Lang's Lay rope or An Ordinary (Regular) Lay rope, having a Right Hand Lay or Left Hand Lay according to the lay of the strands.

Right Hand and Left Hand Lays are designated respectively Z and S.

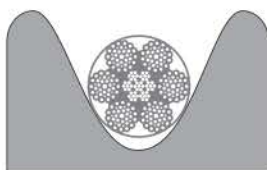
Ordinary Lay ropes are less likely to kink and untwist, and their Ordinary Lay ropes are less subject to failure form Long's Lay ropes have increased resistance to abrasion.

Greater care must be exercised when handling Lang's Lay ropes, as they are move likely to kink and untwist than Ordinary Lay ropes.

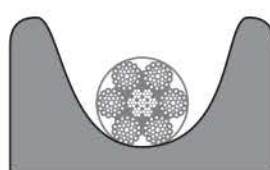
Ordinary Lay ropes are generally used because of their greater stability; however Lang's Lay ropes are preferred for and consequently less wear. Given equal construction and diameter, Lang's Lay ropes are more flexible than the Ordinary Lay type.

IDEAL PULLEY GROOVE

Wrong

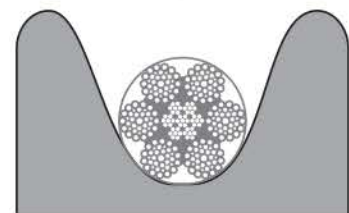


Sheave groove too narrow



Sheave groove too wide

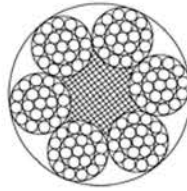
Right



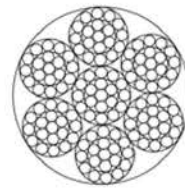
Sheave groove correctly supporting the rope for 33% of its circumference

Greater contact area between the rope and the pulley reduces abrasion and enhances service life.

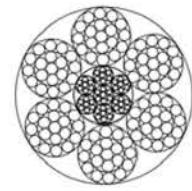
6X19 STEEL WIRE ROPE



6x19 + FC



6x19+IWS

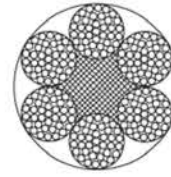


6x19+IWR

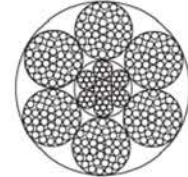
Nominal Diameter	Approx. Weight			Nominal Tensile Strength of Rope (MPa)									
				1570		1670		1770		1870		1960	
D	NF	SF	IWR/IWS	Minimum Breaking Load of Rope									
				FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
mm	kg/100m			(KN)									
3	3.16	3.10	3.60	4.34	4.69	4.61	4.99	4.89	5.29	5.17	5.59	5.42	5.86
4	5.62	5.50	6.40	7.71	8.34	8.20	8.87	8.69	9.40	9.19	9.93	9.63	10.4
5	8.78	8.60	10.0	12.0	13.0	12.8	13.9	13.6	14.7	14.4	15.5	15.0	16.3
6	12.6	12.4	14.4	17.4	18.8	18.5	20.0	19.6	21.2	20.7	22.4	21.7	23.4
7	17.2	16.9	19.6	23.6	25.5	25.1	27.2	26.6	28.8	28.1	30.4	29.5	31.9
8	22.5	22.0	25.6	30.8	33.4	32.8	35.5	34.8	37.6	36.7	39.7	38.5	41.7
9	28.4	27.9	32.4	39.0	42.2	41.5	44.9	44.0	47.6	46.5	50.3	48.7	52.7
10	35.1	34.4	40.0	48.2	52.1	51.3	55.4	54.3	58.8	57.4	62.1	60.2	65.1
11	42.5	41.6	48.4	58.3	63.1	62.0	67.1	65.8	71.1	69.5	75.1	72.8	78.7
12	50.5	49.5	57.6	69.4	75.1	73.8	79.8	78.2	84.6	82.7	89.4	86.7	93.7
13	59.3	58.1	67.6	81.5	88.1	86.6	93.7	91.8	99.3	97.0	105	102	110
14	68.8	67.4	78.4	94.5	102	101	109	107	115	113	122	118	128
15	79.0	77.4	90.0	108	117	115	125	122	132	129	140	135	146
16	89.9	88.1	102	123	133	131	142	139	150	147	159	154	167
17	101	99.4	116	139	151	148	160	157	170	166	179	174	188
18	114	111	130	156	169	166	180	176	190	186	201	195	211
20	140	138	160	193	209	205	222	217	235	230	248	241	260
22	170	167	194	233	252	248	268	263	284	278	301	291	315
24	202	198	230	278	300	295	319	313	339	331	358	347	375
26	237	233	270	326	352	347	375	367	397	388	420	407	440
28	275	270	314	378	409	402	435	426	461	450	487	472	510
30	316	310	360	434	469	461	499	489	529	517	559	542	586
32	359	352	410	494	534	525	568	556	602	588	636	616	666
34	406	398	462	557	603	593	641	628	679	664	718	696	752
36	455	446	518	625	676	664	719	704	762	744	805	780	843
38	507	497	578	696	753	740	801	785	849	829	897	869	940
40	562	550	640	771	834	820	887	869	940	919	993	963	1040
42	619	607	706	850	920	904	978	959	1040	1010	1100	1060	1150
44	680	666	774	933	1010	993	1070	1050	1140	1110	1200	1160	1260
46	743	728	846	1020	1100	1080	1170	1150	1240	1210	1310	1270	1380
48	809	793	922	1110	1200	1180	1280	1250	1350	1320	1430	1390	1500
50	878	860	1000	1210	1300	1280	1390	1360	1470	1440	1550	1500	1630
52	949	930	1080	1300	1410	1390	1500	1470	1590	1550	1680	1630	1760
54	1024	1000	1170	1410	1520	1500	1620	1580	1710	1670	1810	1750	1900
56	1100	1080	1250	1510	1630	1610	1740	1700	1840	1800	1950	1890	2040
58	1180	1160	1350	1620	1750	1720	1870	1830	1980	1930	2090	2020	2190
60	1260	1240	1440	1740	1880	1850	2000	1960	2120	2070	2240	2170	2340
62	1350	1320	1540	1850	2000	1970	2130	2090	2260	2210	2390	2310	2500
64	1440	1410	1640	1970	2140	2100	2270	2230	2410	2350	2540	2460	2670
66	1530	1500	1740	2100	2270	2230	2420	2370	2560	2500	2700	2620	2830
68	1620	1590	1850	2230	2410	2370	2560	2510	2720	2650	2870	2780	3010
70	1720	1690	1960	2360	2550	2510	2720	2660	2880	2810	3040	2950	3190
72	1820	1780	2070	2500	2700	2660	2870	2820	3050	2980	3220	3120	3370
74	1920	1880	2190	2640	2850	2810	3040	2980	3220	3140	3400	3300	3560
76	2030	1990	2310	2780	3010	2960	3200	3140	3390	3320	3590	3480	3760
78	2140	2090	2430	2930	3170	3120	3370	3310	3580	3490	3780	3660	3960
80	2250	2200	2560	3080	3340	3280	3550	3480	3760	3670	3970	3850	4160

Main Applications: Various equipment for hoisting, derricking, lifting and drawing

6X37 STEEL WIRE ROPE



6x37 + FC

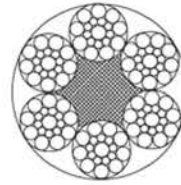


6x37+IWR

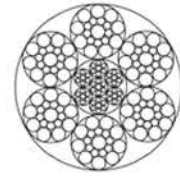
Nominal Diameter	Approx. Weight			Nominal Tensile Strength of Rope (MPa)									
				1570		1670		1770		1870		1960	
D	NF	SF	IWR/IWS	Minimum Breaking Load of Rope									
				FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
mm	kg/100m			(KN)									
5	8.65	8.43	10.0	11.6	12.5	12.3	13.3	13.1	14.1	13.8	14.9	14.5	15.6
6	12.5	12.1	14.4	16.7	18.0	17.7	19.2	18.8	20.3	19.9	21.5	20.8	22.5
7	17.0	16.5	19.6	22.7	24.5	24.1	26.1	25.6	27.7	27.0	29.2	28.3	30.6
8	22.1	21.6	25.6	29.6	32.1	31.5	34.1	33.4	36.1	35.3	38.2	37.0	40.0
9	28.0	27.3	32.4	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	40.0	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	48.4	56.0	60.6	59.6	64.5	63.2	68.3	66.7	72.2	70.0	75.7
12	49.8	48.5	57.6	66.7	72.1	70.9	76.7	75.2	81.3	79.4	85.9	83.3	90.0
13	58.5	57.0	67.6	78.3	84.6	83.3	90.0	88.2	95.4	93.2	101	97.7	106
14	67.8	66.1	78.4	90.8	98.2	96.6	104	102	111	108	117	113	123
15	77.9	75.8	90.0	104	113	111	120	118	127	124	134	130	141
16	88.6	86.3	102	119	128	126	136	134	145	141	153	148	160
18	112	109	130	150	162	160	173	169	183	179	193	187	203
20	138	135	160	185	200	197	213	209	226	221	239	231	250
22	168	163	194	224	242	238	258	253	273	267	289	280	303
24	199	194	230	267	289	284	307	301	325	318	344	333	360
26	234	228	270	313	339	333	360	353	382	373	403	391	423
28	271	264	314	363	393	386	418	409	443	433	468	453	490
30	311	303	360	417	451	443	480	470	508	497	537	520	563
32	354	345	410	474	513	505	546	535	578	565	611	592	640
34	400	390	462	535	579	570	616	604	653	638	690	668	723
36	448	437	518	600	649	639	690	677	732	715	773	749	810
38	500	487	578	669	723	711	769	754	815	797	861	835	903
40	554	539	640	741	801	788	852	835	903	883	954	925	1000
42	610	595	706	817	884	869	940	921	996	973	1052	1020	1100
44	670	652	774	897	970	954	1031	1011	1093	1068	1155	1120	1210
46	732	713	846	980	1060	1040	1130	1100	1190	1170	1260	1220	1320
48	797	776	922	1070	1150	1140	1230	1200	1300	1270	1370	1330	1440
50	865	843	1000	1160	1250	1230	1330	1310	1410	1380	1490	1450	1560
52	936	911	1080	1250	1350	1330	1440	1410	1530	1490	1610	1560	1690
54	1010	983	1170	1350	1460	1440	1550	1520	1650	1610	1740	1690	1820
56	1090	1060	1250	1450	1570	1550	1670	1640	1770	1730	1870	1810	1960
58	1160	1130	1350	1560	1680	1660	1790	1760	1900	1860	2010	1950	2100
60	1250	1210	1440	1670	1800	1770	1920	1880	2030	1990	2150	2080	2250
62	1330	1300	1540	1780	1920	1890	2050	2010	2170	2120	2290	2220	2400
64	1420	1380	1640	1900	2050	2020	2180	2140	2310	2260	2440	2370	2560
66	1510	1470	1740	2020	2180	2150	2320	2270	2460	2400	2600	2520	2720
68	1600	1560	1850	2140	2320	2280	2460	2410	2610	2550	2760	2670	2890
70	1700	1650	1960	2270	2450	2410	2610	2560	2770	2700	2920	2830	3060
72	1790	1750	2070	2400	2600	2550	2760	2710	2930	2860	3090	3000	3240
74	1890	1850	2190	2540	2740	2700	2920	2860	3090	3020	3270	3170	3420
76	2000	1950	2310	2680	2890	2850	3080	3020	3260	3190	3450	3340	3610
78	2110	2050	2430	2820	3050	3000	3240	3180	3440	3360	3630	3520	3800
80	2210	2160	2560	2960	3200	3150	3410	3340	3610	3530	3820	3700	4000
85	2500	2430	2890	3350	3620	3560	3850	3770	4080	3990	4310	4180	4520
90	2800	2730	3240	3750	4060	3990	4320	4230	4570	4470	4830	4680	5060
95	3120	3040	3610	4180	4520	4450	4810	4710	5100	4980	5380	5220	5640
100	3460	3370	4000	4630	5000	4930	5330	5220	5650	5520	5970	5780	6250
105	3810	3720	4410	5110	5520	5430	5870	5760	6230	6080	6580	6370	6890
110	4190	4080	4840	5600	6060	5960	6450	6320	6830	6680	7220	7000	7570
115	4580	4460	5290	6130	6620	6520	7050	6910	7470	7300	7890	7650	8270
120	4980	4850	5760	6670	7210	7090	7670	7520	8130	7940	8590	8330	9000

Main Applications: Various equipment for hoisting, derricking, lifting and drawing

6X19S LINE CONTACTED WIRE ROPE



6x19S + FC

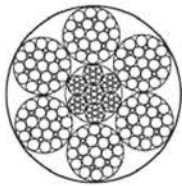


6x19S+IWR

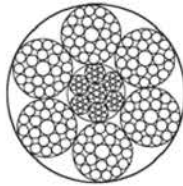
Nominal Diameter	Approx. Weight			Nominal Tensile Strength of Rope (MPa)									
				1570		1670		1770		1870		1960	
D	NF	SF	IWR/IWS	Minimum Breaking Load of Rope									
				FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
mm	kg/100m			(KN)									
5	9.22	9.00	10.1	13.0	14.0	13.8	14.9	14.6	15.8	15.4	16.6	16.2	17.4
6	13.3	13.0	14.6	18.7	20.1	19.8	21.4	21.0	22.7	22.2	24.0	23.3	25.1
7	18.1	17.6	19.9	25.4	27.4	27.0	29.1	28.6	30.9	30.2	32.6	31.7	34.2
8	23.6	23.0	25.9	33.2	35.8	35.3	38.0	37.4	40.3	39.5	42.6	41.4	44.7
9	29.9	29.1	32.8	42.0	45.3	44.6	48.2	47.3	51.0	50.0	53.9	52.4	56.5
10	36.9	36.0	40.5	51.8	55.9	55.1	59.5	58.4	63.0	61.7	66.6	64.7	69.8
11	44.6	43.5	49.1	62.7	67.6	66.7	71.9	70.7	76.2	74.7	80.6	78.3	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	101
13	62.3	60.8	68.5	87.6	94.5	93.1	101	98.7	107	104	113	109	118
14	72.2	70.5	79.5	102	110	108	117	115	124	121	131	127	137
15	82.9	81.0	91.2	117	126	124	134	131	142	139	150	146	157
16	94.4	92.1	104	133	143	141	152	150	161	158	170	166	179
18	119	117	131	168	181	179	193	189	204	200	216	210	226
19	133	130	146	187	202	199	215	211	228	223	240	234	252
20	147	144	162	207	224	220	238	234	252	247	266	259	279
22	178	174	196	251	271	267	288	283	305	299	322	313	338
24	212	207	234	298	322	317	342	336	363	355	384	373	402
26	249	243	274	350	378	373	402	395	426	417	450	437	472
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	628
32	377	369	415	531	572	564	609	598	645	632	682	662	715
34	426	416	469	599	646	637	687	675	728	713	770	748	807
36	478	466	526	672	724	714	771	757	817	800	863	838	904
38	532	520	586	748	807	796	859	843	910	891	961	934	1010
40	590	576	649	829	894	882	951	935	1010	987	1070	1030	1120
42	650	635	715	914	986	972	1050	1030	1110	1090	1170	1140	1230
44	714	697	785	1000	1080	1070	1150	1130	1220	1190	1290	1250	1350
46	780	762	858	1100	1180	1170	1260	1240	1330	1310	1410	1370	1480
48	849	829	934	1190	1290	1270	1370	1350	1450	1420	1530	1490	1610
50	922	900	1010	1300	1400	1380	1490	1460	1580	1540	1660	1620	1740
52	997	973	1100	1400	1510	1490	1610	1580	1700	1670	1800	1750	1890
54	1080	1050	1180	1510	1630	1610	1730	1700	1840	1800	1940	1890	2030
56	1160	1130	1270	1620	1750	1730	1860	1830	1980	1940	2090	2030	2190
58	1240	1210	1360	1740	1880	1850	2000	1960	2120	2080	2240	2180	2350
60	1330	1300	1460	1870	2010	1980	2140	2100	2270	2220	2400	2330	2510
62	1420	1380	1560	1990	2150	2120	2290	2250	2420	2370	2560	2490	2680
64	1510	1470	1660	2120	2290	2260	2440	2390	2580	2530	2730	2650	2860
66	1610	1570	1770	2260	2430	2400	2590	2540	2740	2690	2900	2820	3040
68	1700	1660	1870	2400	2580	2550	2750	2700	2910	2850	3080	2990	3230
70	1810	1760	1990	2540	2740	2700	2910	2860	3090	3020	3260	3170	3420
72	1910	1870	2100	2690	2900	2860	3080	3030	3270	3200	3450	3350	3620
74	2020	1970	2220	2840	3060	3020	3260	3200	3450	3380	3650	3540	3820
76	2130	2080	2340	2990	3230	3180	3430	3370	3640	3560	3850	3740	4030
78	2240	2190	2470	3150	3400	3350	3620	3550	3830	3750	4050	3940	4250
80	2360	2300	2590	3320	3580	3530	3800	3740	4030	3950	4260	4140	4470

Main Applications: Various equipment for hoisting, derricking, lifting, towing, port load and unload, blast furnace hoisting and oil well drilling. The rope with wire core can be used under the shock load, heated and squeezed and conditions.

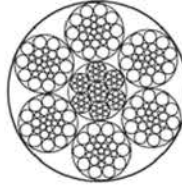
6X25FI | 6X29FI | 6X26WS | 6X31WS | 6X36WS | 6X37WS | 6X41WS
LINE CONTACT WIRE ROPE



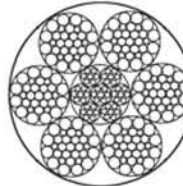
6x25FI+IWR



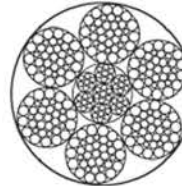
6x29FI+IWR



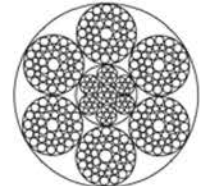
6x26WS+IWR



6x31WS+IWR



6x36WS+IWR



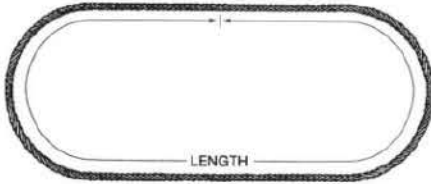
6x41WS+IWR

Nominal Diameter	Approx. Weight			Nominal Tensile Strength of Rope (MPa)									
				1570		1670		1770		1870		1960	
D	NF	SF	IWR/IWS	Minimum Breaking Load of Rope									
				FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS	FC	IWR/IWS
mm	kg/100m			(KN)									
8	24.3	23.7	26.8	33.2	35.8	35.3	38.0	37.4	40.3	39.5	42.6	41.4	44.7
9	30.8	30.1	33.9	42.0	45.3	44.6	48.2	47.3	51.0	50.0	53.9	52.4	56.5
10	38.0	37.1	41.8	51.8	55.9	55.1	59.5	58.4	63.0	61.7	66.6	64.7	69.8
11	46.0	44.9	50.6	62.7	67.6	66.7	71.9	70.7	76.2	74.7	80.6	78.3	84.4
12	54.7	53.4	60.2	74.6	80.5	79.4	85.6	84.1	90.7	88.9	95.9	93.1	100
14	74.5	72.7	81.9	102	110	108	117	114	124	121	130	127	137
16	97.3	95.0	107	133	143	141	152	150	161	158	170	166	179
18	123	120	135	168	181	179	193	189	204	200	216	210	226
20	152	148	167	207	224	220	238	234	252	247	266	259	279
22	184	180	202	251	271	267	288	283	305	299	322	313	338
24	219	214	241	298	322	317	342	336	363	355	383	373	402
26	257	251	283	350	378	373	402	395	426	417	450	437	472
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	628
32	389	380	428	531	572	564	609	598	645	632	682	662	715
34	439	429	483	599	646	637	687	675	728	713	770	748	807
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	934	1008
40	608	594	669	829	894	882	951	935	1010	987	1070	1030	1120
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	1250	1350
46	804	785	884	1100	1180	1170	1260	1240	1330	1310	1410	1370	1480
48	876	855	963	1190	1290	1270	1370	1350	1450	1420	1530	1490	1610
50	950	928	1050	1300	1400	1380	1490	1460	1580	1540	1660	1620	1740
52	1030	1000	1130	1400	1510	1490	1610	1580	1700	1670	1800	1750	1890
54	1110	1080	1220	1510	1630	1610	1730	1700	1840	1800	1940	1890	2030
56	1190	1160	1310	1620	1750	1730	1860	1830	1980	1940	2090	2030	2190
58	1280	1250	1410	1740	1880	1850	2000	1960	2120	2080	2240	2180	2350
60	1370	1340	1500	1870	2010	1980	2140	2100	2270	2220	2400	2330	2510
62	1460	1430	1610	1990	2150	2120	2290	2250	2420	2370	2560	2490	2680
64	1560	1520	1710	2120	2290	2260	2440	2390	2580	2530	2730	2650	2860
66	1660	1620	1820	2260	2430	2400	2590	2540	2740	2690	2900	2820	3040
68	1760	1720	1930	2400	2580	2550	2750	2700	2910	2850	3080	2990	3230
70	1860	1820	2050	2540	2740	2700	2910	2860	3090	3020	3260	3170	3420
72	1970	1920	2170	2690	2900	2860	3080	3030	3270	3200	3450	3350	3620
74	2080	2030	2290	2840	3060	3020	3260	3200	3450	3380	3650	3540	3820
76	2190	2140	2410	2990	3230	3180	3430	3370	3640	3560	3850	3740	4030
78	2310	2260	2540	3150	3400	3350	3620	3550	3830	3750	4050	3940	4250
80	2430	2370	2680	3320	3580	3530	3800	3740	4030	3950	4260	4140	4470
85	2750	2680	3020	3740	4040	3980	4300	4220	4550	4460	4810	4670	5040
90	3080	3010	3390	4200	4530	4460	4820	4730	5100	5000	5390	5240	5650
95	3430	3350	3770	4680	5040	4970	5370	5270	5690	5570	6010	5840	6300
100	3800	3710	4180	5180	5590	5510	5950	5840	6300	6170	6660	6470	6980
105	4190	4090	4610	5710	6160	6080	6550	6440	6950	6800	7340	7130	7690
110	4600	4490	5060	6270	6760	6670	7190	7070	7620	7470	8060	7830	8440
115	5030	4910	5530	6850	7390	7290	7860	7720	8330	8160	8800	8550	9230
120	5470	5340	6020	7460	8050	7940	8560	8410	9070	8890	9590	9310	10000

Main Applications: Various equipment for derricking, lifting and drawing; The rope with wire core can be used the shock load, heated and squeezed condition such as electric shares.



TERMINATION OF - WIRE ROPES



Wire Rope Grommet



Open Spelter Socket



Soft Eye Hand Spliced



Closed Spelter Socket



Thimble Eye Hand Spliced



Open Swage



Soft Eye Flemish Eye



Closed Swages



Soft Eye Aluminum Ferrule



Wire Rope Stopper End



Thimble Eye Aluminum Ferrule



Mooring Socket

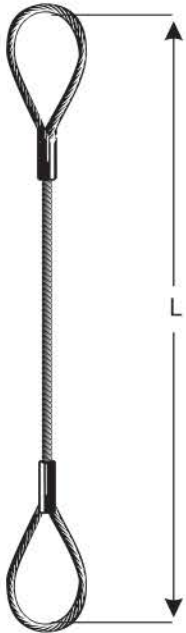




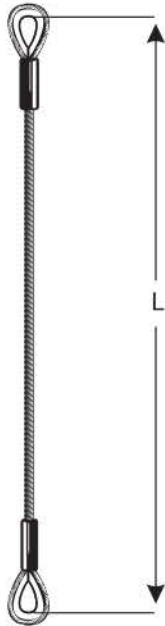
STEEL WIRE – ROPE SLING

- Wire rope sling complies to EN 13414
- Safety factor 5
- Ferrule-secured eye sling: Produced using seamless ferrules comply with EN13411 minimum length of plain rope between the inside ends of ferrules terminating a sling leg are 20 times the nominal rope diameter
- Hand spliced eye slings: Comply with EN 13411-2. The minimum length of plain rope between the tails of splices are at least 15 times the nominal rope diameter
- Hard eyes: Hard eyes is fitted with thimbles conforming to EN 13411-1
- Soft eye: The peripheral length of a soft eye are at least four rope lay lengths.
- Produced with the latest technology Hydraulic Press Machine
- Third party load testing certification with tagging can be provide upon request

Eye to Eye Single Leg



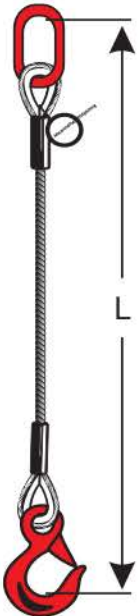
Thimble to Thimble Single Leg



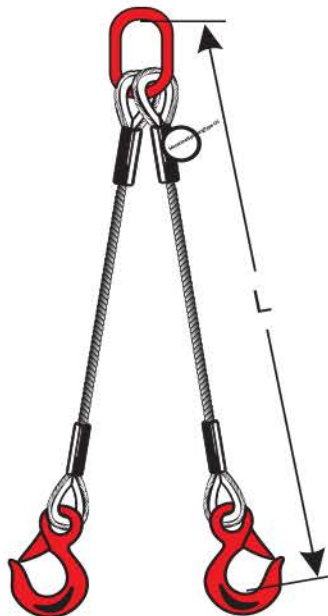
Fitting for Wire Rope Slings:

- Ferrule
- Thimble
- Master Link
- Master Link Assembly
- Self Locking Hook
- Eye Type Hook
- Swivel Hook
- Safety Tag

Single Leg Type



Two Leg Type



Four Leg Type

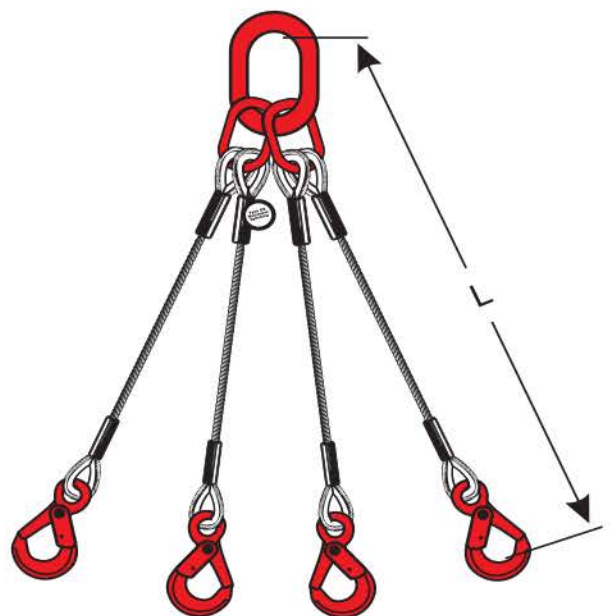
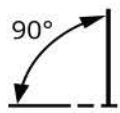
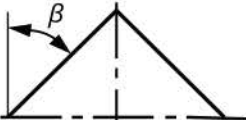
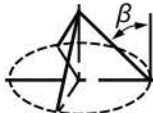
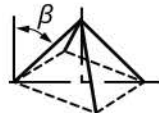



Table 4 — Working load limits for slings using steel cored rope of classes 6x19, 6x36 and 8x36 and having ferrule-secured eye terminations

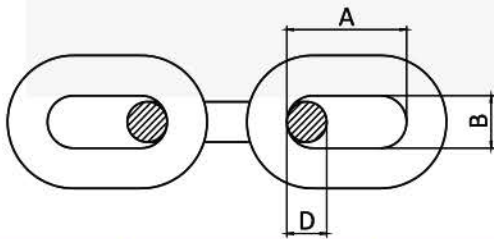
Angle to the vertical	One leg sling	Two leg sling		Three and four leg sling		Endless sling
	0°	0° to 45°	over 45° to 60°	0° to 45°	over 45° to 60°	90°
						
	Direct	Direct	Direct	Direct	Direct	Choke hitch
Nominal rope diameter mm	Working load limits t					
8	0,750	1,05	0,750	1,55	1,10	1,20
9	0,950	1,30	0,950	2,00	1,40	1,50
10	1,15	1,60	1,15	2,40	1,70	1,85
11	1,40	2,00	1,40	3,00	2,12	2,25
12	1,70	2,30	1,70	3,55	2,50	2,70
13	2,00	2,80	2,00	4,15	3,00	3,15
14	2,25	3,15	2,25	4,80	3,40	3,70
16	3,00	4,20	3,00	6,30	4,50	4,80
18	3,70	5,20	3,70	7,80	5,65	6,00
20	4,60	6,50	4,60	9,80	6,90	7,35
22	5,65	7,80	5,65	11,8	8,40	9,00
24	6,70	9,40	6,70	14,0	10,0	10,8
26	7,80	11,0	7,80	16,5	11,5	12,5
28	9,00	12,5	9,00	19,0	13,5	14,5
32	11,8	16,5	11,8	25,0	17,5	19,0
36	15,0	21,0	15,0	31,5	22,5	23,5
40	18,5	26,0	18,5	39,0	28,0	30,0
44	22,5	31,5	22,5	47,0	33,5	36,0
48	26,0	37,0	26,0	55,0	40,0	42,0
52	31,5	44,0	31,5	66,0	47,0	50,0
56	36,0	50,0	36,0	76,0	54,0	58,0
60	42,0	58,0	42,0	88,0	63,0	67,0
Leg factor K_L	1	1,4	1	2,1	1,5	1,6

NOTE 1 The working load limits (WLLs) given in Table 4 are based on the assumption that soft eyes of single-leg slings are used over bearing points having diameters not less than twice the nominal diameter of the rope.

NOTE 2 Table 4 shows working load limit values for ferrule-secured eye slings in various configurations. These values, which are based on the equation given in 5.2.4, 5.3.4 and 5.4.4 have been rounded for the convenience of the user.

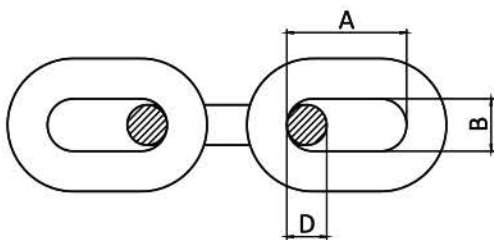
CHAIN - SPECIFICATION

DIN EN818-7 GRADE 80 HOISTING CHAIN



SIZE D(MM)	INSIDE LENGTH A(MM)	INSIDE WIDTH B(MM)	WLL TON	BREAKING PROOF FORCE (TON)	WEIGHT KG/M
5	15	6.8	0.65	2.6	0.5
6	18	8	1	4	0.8
6.3	19.8	8.5	1.41	5	0.84
7.1	21.3	9.3	1.6	6.4	1.1
8	24	10	2	8	1.4
9	27	12.2	2.5	10	1.82
10	30	13.3	3.2	12.8	2.2
11.2	34	13.7	3.8	15.2	2.7

DIN EN818-2 GRADE 80 SHORT LINK LIFTING CHAIN



SIZE D(MM)	INSIDE LENGTH A(MM)	INSIDE WIDTH B(MM)	WLL TON	BREAKING PROOF FORCE		WEIGHT KG/M
				MPF(KN)	BF(KN)	
6	18	7.8	1.12	28.3	45.2	0.8
7	21	9.1	1.5	38.5	61.6	1.1
8	24	10.4	2	50.3	80.4	1.4
10	30	13	3.15	78.5	126	2.2
13	39	16.9	5.3	133	212	3.8
16	48	20.8	8	201	322	5.7
18	54	23.4	10	254	407	7.3
20	60	26	12.5	314	503	9
22	66	28.6	15	380	608	10.9
26	78	33.8	21.2	531	849	15.2
28	84	36.4	25	616	985	17.6
32	96	41.6	31.5	804	1290	23
36	108	46.8	40	1020	1630	29
40	120	52	50	1260	2010	36
45	135	58.5	63	1590	2540	45.5



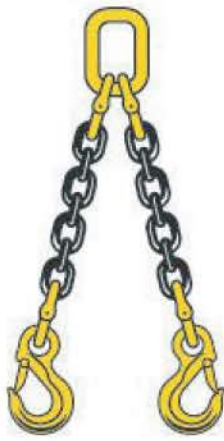
CHAIN SLING –

TYPE OF CHAIN SLING

- Chain sling complies to EN 818
- Third party load testing certification with tagging can be provide upon request



Single Leg Type



Two Leg Type










Three Leg Type



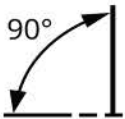
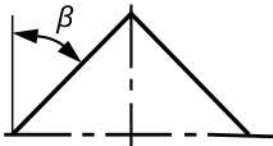
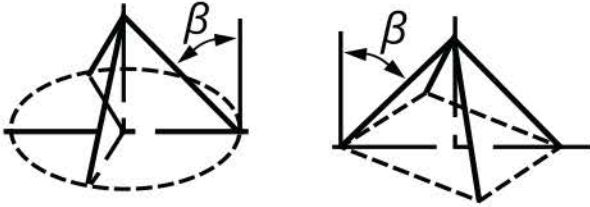

Four Leg Type

FITTING FOR CHAIN SLING

						
Clevis self locking hook	Swivel self locking hook	Clevis sling hook	Clevis grab hook	Eye sling hook	Eye grab hook	Eye foundry hook

						
Master Link	Master Link Assembly	Connecting Link	Clevis Chain Hook with Latch	Eye hook with Latching	Eye self locking hook	Shortening Clutch



Table 3. Working load limits						
Nominal size of sling	Working load limits, t , for					
						
mm	Single-leg slings	Two leg slings		Three- and four-leg slings		Endless slings in choke hitch
		$0^\circ < \beta \# 45^\circ$	$45^\circ < \beta \# 60^\circ$	$0^\circ < \beta \# 45^\circ$	$45^\circ < \beta \# 60^\circ$	
		Factor 1,4	Factor 1,0	Factor 2,1	Factor 1,5	Factor 1,6
4	0,5	0,71	0,5	1,06	0,75	0,8
5	0,8	1,12	0,8	1,6	1,18	1,25
6	1,12	1,6	1,12	2,36	1,7	1,8
7	1,5	2,12	1,5	3,15	2,24	2,5
8	2	2,8	2	4,25	3	3,15
10	3,15	4,25	3,15	6,7	4,75	5
13	5,3	7,5	5,3	11,2	8	8,5
16	8	11,2	8	17	11,8	12,5
18	10	14	10	21,2	15	16
19	11,2	16	11,2	23,6	17	18
20	12,5	17	12,5	26,5	19	20
22	15	21,2	15	31,5	22,4	23,6
23	16	23,6	16	35,5	25	26,5
25	20	28	20	40	30	31,5
26	21,2	30	21,2	45	31,5	33,5
28	25	33,5	25	50	37,5	40
32	31,5	45	31,5	67	47,5	50
36	40	56	40	85	60	63
40	50	71	50	106	75	80
45	63	90	63	132	95	100

NOTE. The convention for marking of slings should be to indicate WLLs below 1 t in kilograms.

6.1.2 Manufacturing Proofforce Factors

Sections of sling assemblies shall be subjected to manufacturing proofforces in kilonewtons, at least equivalent to loads calculated by multiplying the working load limit of the relevant chain size by the factors given in table 4.

Table 4. Manufacturing proofforce factors	
Section to which manufacturing proofforce is applied (see figure 6)	Manufacturing proofforce factors
MPF ₁	2,5
MPF ₂	3,5
MPF ₃	4
MPF ₄	5,25

6.1.3 Post-Test Examination

After completion of the manufacturing proofforce test, when required (see 6.2.1a and 6.2.2), and the removal of the force, the sling shall be examined by a competent person. Any faulty chain or component shall be replaced, and the sling re-tested and re-examined by a competent person.

6.2 Final Examination

6.2.1 Slings joined by Mechanical Device

Following completion of the assembly of the sling, it shall either:

a) be subjected to the manufacturing proofforce(s) and subsequently examined by a competent person in accordance with 6.1; or

b) be examined visually by a competent person to ensure freedom from defects provided that the chain and each component have been certified as having been subjected to the manufacturing test as specified in:

- 1) EN 818-1 and EN 818-2 for short link chain of grade 8;
- 2) prEN 1677-1 to prEN 1677-4 for components of grade 8 for chain slings (see 5.1).

INTRODUCTION – TO WIRE ROPE CLIP

Applications

Wire rope clips are used on wire rope eye-loop connections or complete loops, end-to-end connections where socketing or splicing is not feasible or when a temporary joint is required.

Range

Ableforge offers a wide range of wire rope clips, specifically standardized models such as EN 13411-5 and DIN wire rope clips.

Design

Ableforge wire rope clips are drop forged and have a bridge with grooves to tighten the wire rope properly in the clip; the DIN wire rope clips have a malleable base, without grooves.

Certification

Specific details of certificate availability can be found on each product page. Please verify your certification requirements with Ableforge at time of order.

Finish

The finish is hot dipped galvanized.

Instructions for use

Wire rope clips should be inspected before use to ensure that:

- All markings are legible;
- A wire rope clip with the correct dimensions has been selected;
- The nuts or any other locking system cannot vibrate out of position;
- The wire rope clip is free from nicks, gouges and cracks;
- Never modify, repair or reshape a wire rope clip by machining, welding, heating or bending as this may affect their performance.

The wire rope clip should be fitted to the wire rope as shown in below figures. The bridge of the wire rope clip should always be placed on the load bearing part of the rope. The U-bolt of the clip should be placed on the ropetail, also known as the dead end of the rope.

turn back enough wire rope length so that the required minimum number of clips can be installed according to the instructions below.

The first clip must be placed one bridge width from the turned-back rope tail or dead end of the rope, according to figure 1. Tighten the nuts to the specified torque.



figure 1

The second clip must be placed immediately against the thimble. Take care that the correct tightening of the clip does not damage the outer wires of the wire rope (figure 2). Tighten the nuts firmly but not yet to the specified torque.

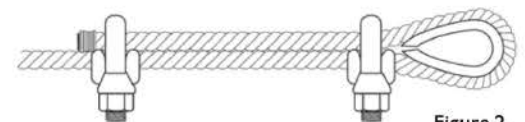


Figure 2

The following clips should be placed on the wire rope between the first and second clip in such a way that they are separated by at least 1 1/2 times the clip-width with a maximum of 3 times the clip-width, according to figure 3.

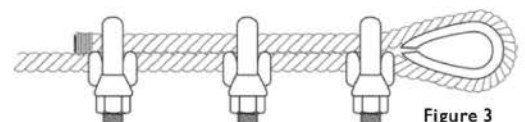
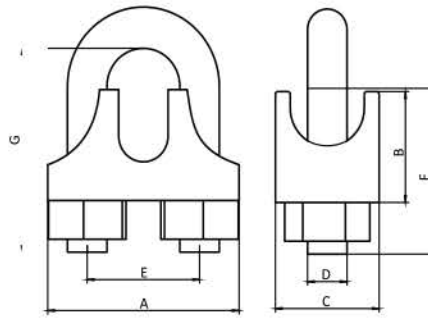


Figure 3

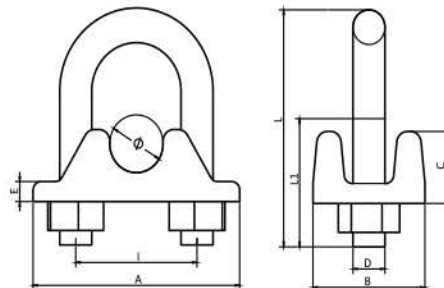
Apply light tension on the rope and tighten all nuts evenly, alternating until reaching the specified torque.

DIN741 TYPE MALLEABLE WIRE ROPE CLIP



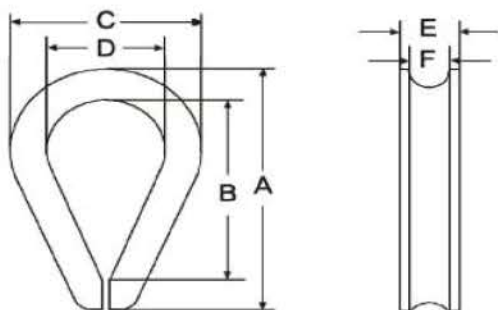
SIZE MM	A MM	B MM	C MM	D MM	E MM	F MM	G MM	WEIGHT 100PCS/KG
3MM	M4	21	10	10	9	12	16.6	1.4
5MM	M5	23	10	11	11	13	19.65	1.5
6MM	M5	26	11	12	13	15	23.65	2.1
8MM	M6	30	15	14	16	19	28.85	4.1
10MM	M8	34	17	18	19	22	35	6.8
11MM	M8	36	18	19	20	22	37	7.2
13MM	M10	40	21	23	24	30	46.24	13
14MM	M10	44	22	23	25	30	48.24	13.5
16MM	M12	50	26	26	29	33	52.5	21
19MM	M12	54	30	29	32	38	64.5	28
22MM	M14	61	34	33	37	44	72.5	40
26MM	M14	65	37	35	41	45	82.5	44
30MM	M16	74	43	37	48	50	95.6	66
34MM	M16	80	50	42	52	55	105.6	85
40MM	M16	88	55	45	58	60	125.6	104
40/50MM	M20	105	63	52	69	98	176	200

ITALIAN TYPE FORGED WIRE ROPE CLIP



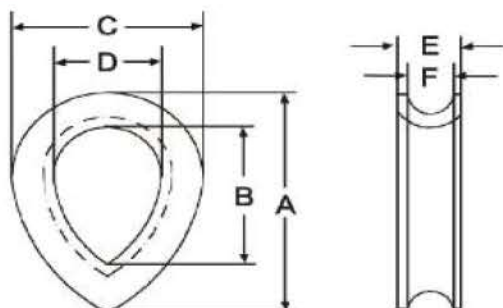
SIZE MM	A MM	B MM	C MM	D MM	E MM	I MM	L MM	L1 MM
3-4	21	14	9	4	4.5	9	20	11
5	25	17	10	5	4.5	11	24	13
6	30	19	11	6	5	14	33	18
8	34	20	12	6	5	16	35	18
10	38	22	14	8	6	18.5	44	22
11	41	24	14.3	8	7	22	44	22
12	45	25	16	10	7	24	55	33
14	46	27	17	10	7.5	24	55	33
16	53	31	18	10	8	30	65	33
18	59	33	20	12	8	30	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

US TYPE HEAVY DUTY G-414 WIRE ROPE THIMBLE



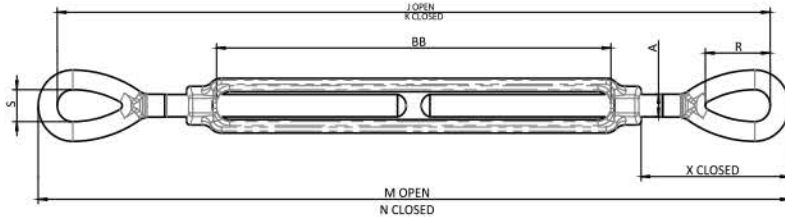
SIZE IN	A MM	B MM	C MM	D MM	E MM	F MM	WEIGHT KG/PC
1/8"	49.53	33.53	28.92	17.78	6.35	4	0.012
3/16"	49.53	33.53	28.92	17.78	6.35	4	0.012
1/4"	55.62	41.4	38.1	22.35	10.41	7.11	0.012
5/16"	63.5	47.75	45.97	26.92	12.7	8.64	0.05
3/8"	73.5	54.1	54.1	28.7	16	10.41	0.1
7/16"	82.55	60.45	60.45	31.75	18.29	11.94	0.136
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	0.32
3/4"	127	92.25	99.77	50.8	31	19.81	0.6
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	1.06
1-1/8"-1-1/4"	177.8	130.3	149.35	73.15	45.97	33.27	1.54
1-3/8"	0.12	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	7.1
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

BS464 WIRE ROPE THIMBLE



SIZE IN	A MM	B MM	C MM	D MM	E MM	F MM	WEIGHT 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"	1/8"	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"	5/16"	1-1/4"	13/16"	9/16"	0.172
5/8"	3-7/8"	2-5/16"	5/16"	1-5/8"	7/8"	5/8"	0.26
11/16"	4-1/4"	2-5/8"	3-1/8"	1-3/4"	1/8"	3/4"	0.34
3/4"	4-7/8"	2-7/8"	5/8"	2"	1/8"	13/16"	0.45
7/8"	4-1/4"	3-1/4"	4"	2-1/4"	1/4"	7/8"	0.62
15/16"	5-3/4"	3-5/8"	1/16"	2-1/2"	1-5/16"	1"	0.8
1"	6-3/8"	4-1/4"	1/16"	2-3/4"	3/8"	1-1/16"	0.95
1 1/8"	7"	4-3/8"	5-1/4"	3"	1/8"	1-1/8"	1.27
1 1/4"	7-3/4"	5-1/4"	6"	3/4"	5/8"	1-5/16"	1.6
1 3/8"	9"	6"	6-7/8"	1/8"	7/8"	1/2"	2.35
1 1/2"	10"	6-1/2"	7-3/4"	1/2"	2-1/8"	5/8"	3.3
1 5/8"	10"6	-4/2"	7-3/4"	-1/2"	/16"	-3/4"	3.35
1 3/4"	11-1/4"	7"	9"	5"	1/4"	2"	6.25
1 7/8"	12-1/4"	7-1/2"	9-3/4"	1/4"	5/8"	2-1/8"	7.7
2"	13"	8"	10-1/8"	1/2"	2-3/4"	2-3/8"	8.05
2 1/8"	13"	8"	10-1/8"	5-1/2"2	-3/4"	1/2"	8.3
2 1/4"	14"	8-1/2"	10-5/8"	5-3/4"	3"	5/8"	8.6
2 1/2"	16-1/4"	9-1/2"	12-1/4"	6-1/4"	3/4"	3/4"	17

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	RS		X Closed	BB	
1/4X4	500	0.26	0.25	11.8	7.8	12.25	8.25	0.78	0.34	1.75	4	
5/16X4-1/2	800	0.45	0.31	13.56	9.06	14.12	9.62	0.94	0.44	2.09	4.5	
3/8X6	1200	0.76	0.38	17.47	11.47	18.16	12.16	1.12	0.53	2.52	6	
1/2X6	2200	1.56	0.5	19.08	13.08	19.96	13.96	1.44	0.71	3.23	6	
1/2X9	2200	1.13	0.5	25.08	16.08	25.96	16.96	1.44	0.72	3.23	9	
1/2X12	2200	2.14	0.5	31.08	19.08	31.96	19.96	1.44	0.71	3.23	12	
5/8X6	3500	3.28	0.63	20.68	14.68	21.68	15.68	1.75	0.88	3.9	6	
5/8X9	3500	2.83	0.63	26.68	17.68	27.68	18.68	1.75	0.88	3.9	9	
5/8X12	3500	3.42	0.63	32.68	20.68	33.68	21.68	1.75	0.88	3.9	12	
3/4X6	5200	3.97	0.75	22.38	16.38	23.62	17.62	2.09	1	4.69	6	
3/4X9	5200	4.61	0.75	28.38	19.38	29.62	20.62	2.09	1	4.69	9	
3/4X12	5200	5.48	0.75	34.38	22.38	35.62	23.62	2.09	1	4.69	12	
3/4X18	5200	7.19	0.75	46.38	28.38	47.62	29.62	2.09	1	4.69	18	
7/8X12	7200	7.22	0.88	35.32	23.32	36.82	24.82	2.38	1.25	5.1	12	
7/8X18	7200	9.95	0.88	47.32	29.32	48.82	30.82	2.38	1.25	5.1	18	
1X6	10000	9.04	1	25.97	19.97	27.72	21.72	3	1.43	6.36	6	
1X12	10000	11.5	1	37.97	25.97	39.97	21.72	3	1.43	6.36	12	
1X18	10000	14	1	49.97	31.97	51.72	33.72	3	1.43	6.36	18	
1X24	10000	17.25	1	61.97	37.97	63.72	39.72	3	1.43	6.36	24	
1-1/4X12	15200	19	1.25	40.31	28.31	42.56	30.56	3.56	1.82	7.72	12	
1-1/4X18	15200	23	1.25	52.31	34.31	54.56	36.56	3.56	1.82	7.72	18	
1-1/4X24	15200	27	1.25	64.31	40.31	66.56	42.56	3.56	1.82	7.72	24	
1-1/2X12	21400	27.5	1.5	42.5	30.5	45	33	4.06	2.12	8.62	12	
1-1/2X18	21400	31	1.5	54.5	36.5	57	39	4.06	2.12	8.62	18	
1-1/2X24	21400	37.5	1.5	66.5	42.5	69	45	4.06	2.12	8.62	24	
1-3/4X18	28000	52.5	1.75	57.38	39.38	60.38	42.38	4.62	2.38	10	18	
1-3/4X24	28000	58	1.75	69.38	45.38	72.38	48.38	4.62	2.38	10	24	
2X24	37000	82.25	2	75.69	51.69	79.19	55.18	5.75	2.69	13.09	24	
2-1/2X24	60000	144.25	2.5	78.62	54.62	82.62	58.62	6.5	3.12	13.78	24	
2-3/4X24	75000	194	2.75	81	57	85.5	61.5	7	3.25	15.22	24	



INTRODUCTION – TO SHACKLE

APPLICATIONS

Shackles are used in lifting and static systems as removable links to connect (steel) wire rope, chain and other fittings. Screw pin shackles are used mainly for non-permanent applications. Safety bolt shackles are used for long-term or permanent applications or where the load may slide on the pin causing rotation of the pin.

Chain or dee shackles are mainly used on one-leg systems where as anchor or bow shackles are mainly used on multi-leg systems.

CERTIFICATION

Upon request at time of order, all load shackles can be supplied with any of the following documents or certificates:

- Manufacturer test certificate
- EC Declaration of Conformity
- ABS certificate
- DNV certificate

SIDE LOADS

Side loads should be avoided as well, as the products are not designed for this purpose. If side loads cannot be avoided, the following reduction factors must be taken into account:

Reduction of Work Load Limits

Work load limits on shackles are subject to downward adjustment in case of side loading

45° reduce to 70% of WLL

90° reduce to 50% of WLL

If extreme temperature conditions are applicable

0 - 200° 1.00 x WLL

201 - 300° 0.90 x WLL

301 - 400° 0.75 x WLL

above 400° do not use

GENERAL NOTES

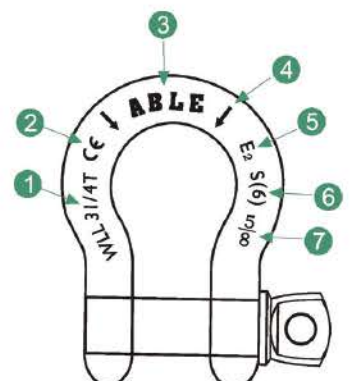
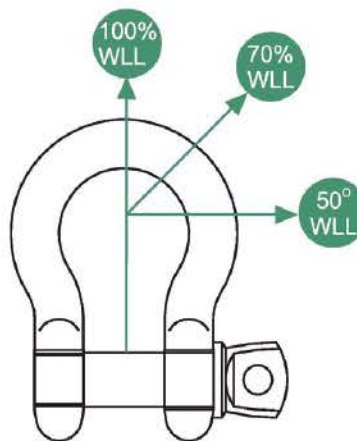
a) Shackles should be inspected before use to ensure that:

- The body and pin of the shackle are both identifiable as being of the same size, type and make
- All markings are readable
- The threads of the pin and the body are undamaged
- The body and the pin are not distorted
- The body and the pin are not unduly worn
- The body and the pin are free from nicks, gouges, cracks and corrosion

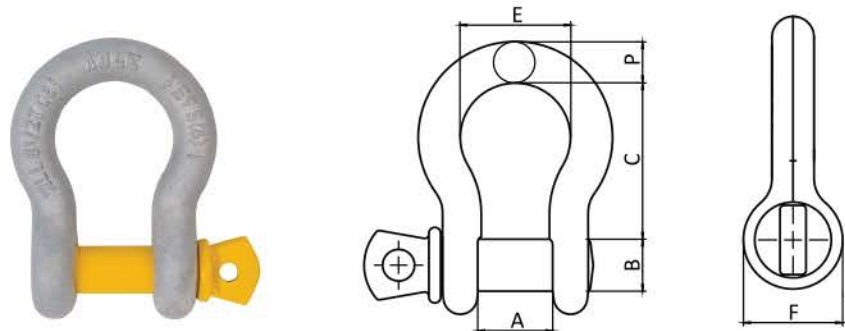
INSTRUCTIONS FOR USE

Shackles should be inspected before use to ensure that:

- All markings are legible;
- The body and pin are both identifiable as being of the same size, type and make;
- The threads of the pin and the body are undamaged;
- Never use a safety bolt type shackle without using a securing pin;
- The body and the pin are not distorted or unduly worn;
- The body and pin are free from nicks, gouges, crack, and corrosion;
- Shackles may not be heat treated as this may affect their Working Load Limit;
- Never modify, repair or reshape a shackle by machining, welding, heating or bedding as this will affect the Working Limit.

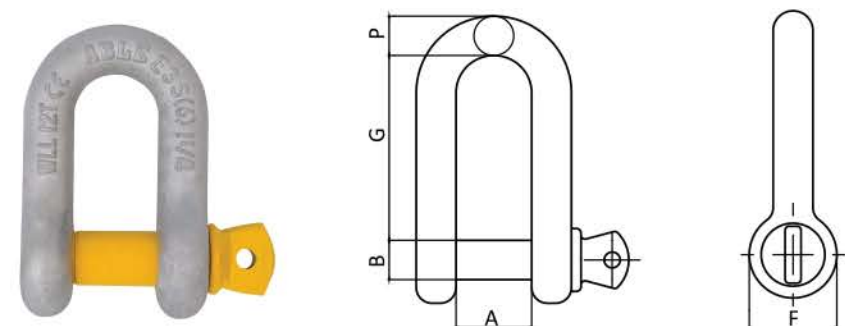


US TYPE DROP FORGED G-209 SCREW PIN BOW SHACKLE



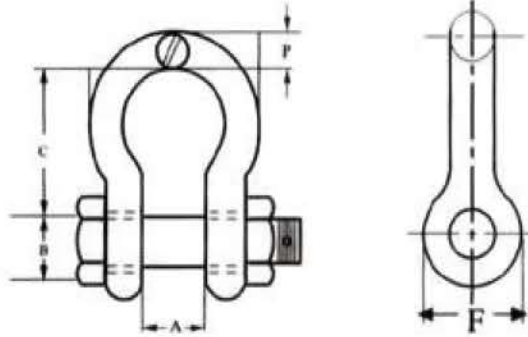
NOMINAL SIZE IN	WLL TON	WEIGHT KG/PC	DIMENSIONS(IN.)					
			A	B	C	P	E	F
3/16"	1/3	0.02	3/8"	1/4"	7/8"	3/16"	11/16"	
1/4"	1/2	0.05	1/2"	5/16"	1-1/8"	1/4"	25/32"	11/16"
5/16"	3/4	0.09	17/32"	3/8"	1-7/32"	5/16"	27/32"	13/16"
3/8"	1	0.14	21/32"	7/16"	1-7/16"	3/8"	1-1/32"	31/32"
7/16"	1-1/2	0.17	23/32"	1/2"	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"

US TYPE DROP FORGED G-210 SCREW PIN DEE SHACKLE



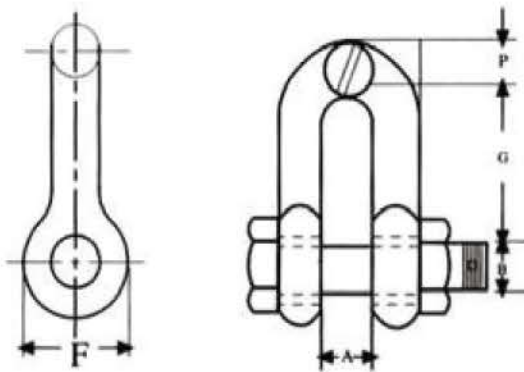
NOMINAL SIZE IN	WLL TON	WEIGHT KG/PC	DIMENSIONS(IN.)				
			A	B	G	P	F
1/4"	1/2	0.05	15/32"	5/16"	7/8"	1/4"	11/16"
5/16"	3/4	0.08	17/32"	3/8"	1-1/32"	5/16"	13/16"
3/8"	1	0.11	21/32"	7/16"	1-1/4"	3/8"	31/32"
7/16"	1-1/2	0.17	23/32"	1/2"	1-7/16"	7/16"	1-1/16"
1/2"	2	0.23	13/16"	5/8"	1-5/8"	1/2"	1-3/16"
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"

US TYPE DROP FORGED G-2130 SAFETY BOLT BOW SHACKLE



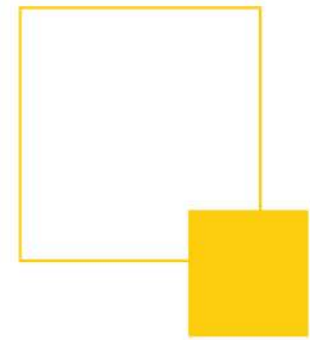
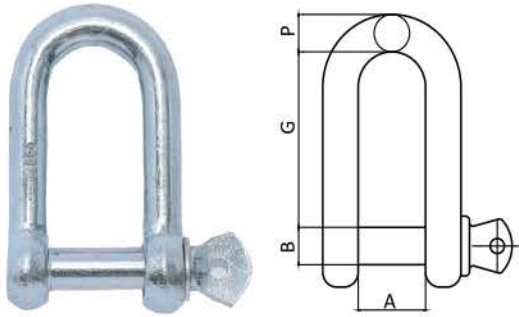
NOMINAL SIZE IN	WLL TON	WEIGHT KG/PC	DIMENSIONS(IN.)				
			A	B	C	P	F
1/2"	2	0.36	13/16"	5/8"	1-7/8"	1/2"	1-3/16"
5/8"	3-1/4	0.76	1-1/16"	3/4"	2-3/8"	5/8"	1-9/16"
3/4"	4-3/4	1.23	1-1/4"	7/8"	2-13/16"	3/4"	1-7/8"
7/8"	6-1/2	1.79	1-7/16"	1"	3-5/16"	7/8"	2-1/8"
1"	8-1/2	2.78	1-11/16"	1-1/8"	3-3/4"	1"	2-3/8"
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	120.2	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"

US TYPE DROP FORGED G-2150 SAFETY BOLT DEE SHACKLE



NOMINAL SIZE IN	WLL TON	WEIGHT KG/PC	DIMENSIONS(IN.)				
			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	4.9	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"

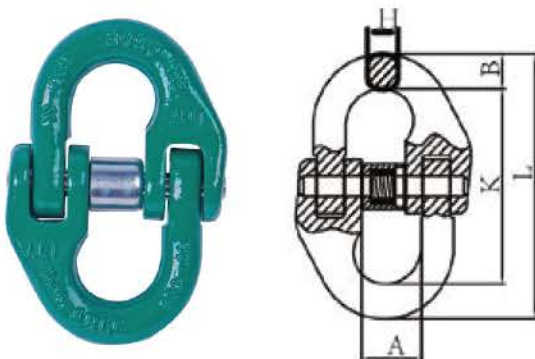
GALVANIZED D SHACKLE (JIS TYPE)



SIZE MM	A MM	G MM	P MM	B MM	WEIGHT 100pcs/kg	WLL KG
5	11	19	4.5	4.5	1.2	80
6	14	25	5.5	5.5	2.2	100
8	16	28.5	7	7	4.5	200
10	17	33	8.8	8.8	7.5	300
12	24	41	10.7	10.7	14	500
16	30	58	14.5	14.5	35	800
20	38	57	18	18	60	1000
22	39	60	20	20	80	1100
25	44	71	22	22	110	1500
32	60	93	28	30	235	3000
36	68	112	32	32	375	3500
38	67	117	35	35	460	4000
42	73	133	38	40	600	5000
45	77	132	42	42	780	6000
50	89	149	48	48	1100	7000

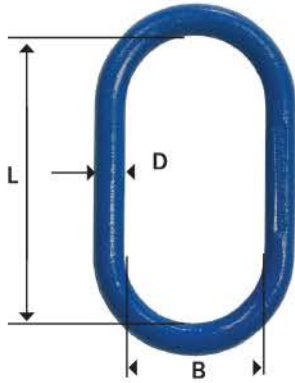


G80 EUROPEAN TYPE CONNECTING LINK



SIZE MM	WEIGHT KG/PC	WLL TON	B.L TON	A MM	B MM	L MM	K MM	H MM
6	0.08	1.12	4.48	15	7.5	58	42	7
7	0.145	1.5	6	19	8.5	71.8	54.8	8.5
7/8	0.146	2	8	18	9.5	79.5	60.5	8.5
8	0.16	2	8	19.5	9.5	79.5	60.5	8.5
10	0.3	3.15	12.6	25	12	90.5	68	11.5
13	0.65	5.3	21.2	29	15	117	87	15
16	1.15	8	32	34.5	19.8	148	108.4	19.8
18	1.84	10	40	38	21	154.5	112	21
20	2.1	12.5	50	41	24	169.5	121.5	24
22	2.87	15	60	48	26	193.5	141.5	26
26	4.5	21.2	84.8	57.5	31	220	158	30
32	8.21	31.5	126	67	38	281	205	37

NORWAY TYPE MASTER LINK



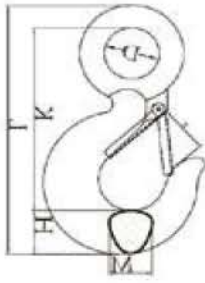
Code	WLL (Ton)	Diameter (mm)			Weight (Kgs)
		D	B	L	
13B6	2.4	13	60	115	0.4
16B6	3.8	16	70	120	0.6
16B7	2.8	16	100	190	0.9
20B6	6.4	20	82	150	1.1
20B7	5.8	20	90	170	1.3
22B6	7.6	22	90	170	1.6
22B7	6.4	22	110	210	1.9
25B6	10	25	103	190	2.3
28B6	12.7	28	113.5	209	3.2
28B7	10.5	28	140	270	4
32B6	15.2	32	140	270	5.3
38B6	25.1	38	140	270	7.5
38B7	17	38	220	420	11

NORWAY TYPE MASTER LINK ASSEMBLY



Code	WLL (Ton)	Dimension Details (Refer Masterlink)		Weight (Kgs)
		Main Link	Inter Link	
Q16B	3.8	16B6	13B5	1.2
Q20B	5.8	20B7	16B6	2.5
Q22B	7.6	22B6	20B6	3.8
Q25B	10	25B6	20B6	4.5
Q28B	12.7	28B6	22B6	6.4
Q32B	15.2	32B6	25B6	9.9
Q38B	25	38B6	32B6	18.2
Q45B	34	45B6	38B6	27.7

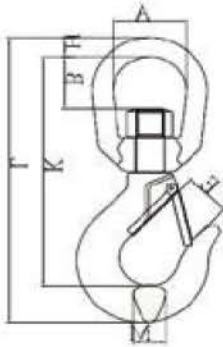
S-320 LIFTING EYE HOOKS



WLL(TON)		DIMENSIONS(MM)						WEIGHT KG/PC
CARBON	ALLOY	D	E	H	K	M	L	
1/2	3/4	16.5	19	17	72	16	97	0.21
3/4	1	19	22	19	82	16	110	0.28
1	1-1/2	23	23	21	93.5	17.5	125	0.4
1-1/2	2	28	24	26	103	21	140.5	0.65
2	3	31	27.5	28	119	23	162	0.81
3	5	39	33	37	146	30	201	1.75
5	7	51	40	46.5	186.5	38	256	3.77
7-1/2	11	62	51	57	231.5	46	317	6.8
10	15	73	57	70	260	55	360	9.96
15	22	89	75	76	318	68.5	434	15.33
20	30	90	82	91	360	70	495.5	27.2

78

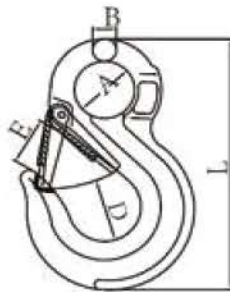
S-322 SWIVEL HOOKS



WLL(TON)		DIMENSIONS(MM)							WEIGHT KG/PC
CARBON	ALLOY	A	E	B	H	K	L	M	
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	0.34
1	1-1/2	37.5	22.5	29.5	12	133.5	163	16	0.57
1-1/2	2	42.5	26	33	15.8	150.5	192	17.5	1.02
2	3	42.5	26	33	15.8	163	209	23	1.24
3	5	48	32.5	39	18	191	246	31	2.25
5	7	64	43	53	25	243.5	313	34	4.66
7-1/2	11	70	49.5	53	28.5	277	364	41.5	7.4
10	15	79	54.5	62	32	332	431	55.7	10.6
15	22	105	81	108	40	427	543	70	21.4
20	30	105	100	96	40	465	596	76.2	32

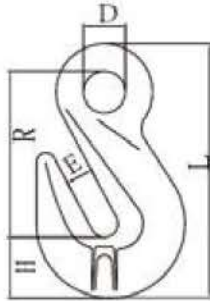
HOOKS

G80 EYE SLING HOOK WITH LATCH



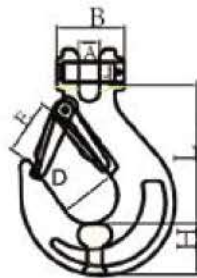
SIZE MM	WEIGHT KG/PC	WLL TON	B.L TON	DIMENSIONS(MM)				
				A	B	E	D	L
6	0.3	1.12	4.48	20	9	24	21	108
7/8	0.4	2	8	25	11	30	26	133
10	0.9	3.15	12.6	38	15	34	39	167
13	1.7	5.3	21.2	43	19	39	54	213
16	3.2	8	32	50	23	46	64	255
20	5.8	12.5	50	62	24	48	80.4	305
22	8.5	15	60	62	32	71	100	348
26	13	21.2	84.8	64	35	81	108	394
32	17	31.5	126	88	37	102	112	480

G80 EYE SHORTENING GRAB HOOK WITH WINGS



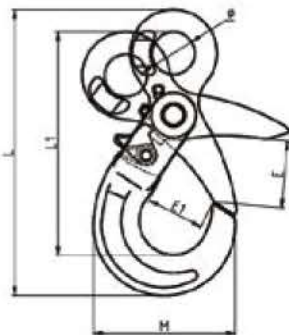
SIZE MM	WEIGHT KG/PC	WLL TON	B.L TON	DIMENSIONS(MM)				
				E	D	H	R	L
6	0.14	1.12	4.48	8	13.5	17.9	51.4	75.3
7/8	0.245	2	8	10.8	18	20	61.5	91.2
10	0.65	3.15	12.6	13	20	29	80	122
13	1.39	5.3	21.2	16.5	26	42.8	99.7	158
16	2.2	8	32	20	30.5	47.7	104	169
20	4.6	12.5	50	25	37.5	56	140	219
22	8.2	15	60	28	44	68	165	259
26	9.8	21.2	84.8	30	44	77	188.8	298
32	19.4	31.5	126	38	57	95	228	361

G80 CLEVIS SLING HOOK WITH LATCH



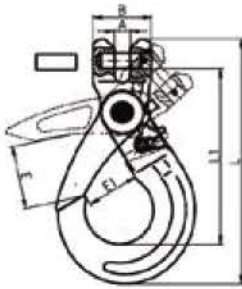
SIZE MM	WEIGHT KG/PC	WLL TON	B.L TON	DIMENSIONS(MM)					
				A	B	E	D	H	L
6	0.32	1.12	4.48	8	32	26	35	23	76
7/8	0.48	2	8	9.5	37	29	37	32.5	85.5
10	0.95	3.15	12.6	13	49	39	46	35	104
13	1.8	5.3	21.2	16.5	56.5	47	56	42.5	128
16	3.4	8	32	21.5	70.5	55	60	54	150
20	6	12.5	50	24	77	61	79	58	180
22	10.4	15	60	27	91	72	101	62	213
26	14.5	21.2	84.8	30	117	85	115	75	250
32	27	31.5	126	35	150	106	140	88	317

G80 EYE TYPE SELF LOCKING SAFETY HOOK



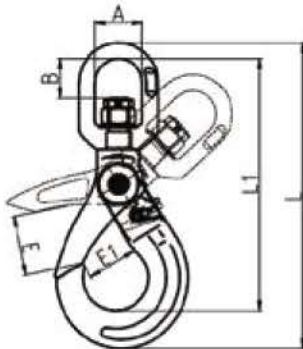
SIZE MM	WEIGHT KG/PC	WLL TON	B.L TON	DIMENSIONS(MM)				
				Φ	E	E1	L1	L
6	0.5	1.12	4.48	21	35	28	110	141
7/8	0.88	2	8	25	40	35	136	175
10	1.58	3.15	12.6	34.5	50	45	168	214
13	3	5.3	21.2	40	60	52.5	207	268
16	5.9	8	32	50	65	63.3	254	332
18/20	7	12.5	50	64.5	80	86	274.5	332
22	12.3	15	60	70	83	76	319	415
26	20	21.2	84.8	80	106	96	362	472
32	44	31.5	126	105	140	133	470	614

G80 CLEVIS TYPE SELF LOCKING SAFETY HOOK



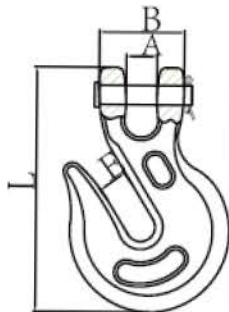
SIZE MM	WEIGHT KG/PC	WLL TON	B.L TON	DIMENSIONS(MM)					
				A	B	E	E1	L1	L
6	0.44	1.12	4.48	8	32	35	28	96	131
7/8	0.8	2	8	9.5	38.5	40	35.8	119.3	161.8
10	1.38	3.15	12.6	12.5	46	50	45	142	195
13	2.81	5.3	21.2	15	59	60	52.5	179	249
16	6	8	32	18.5	77	65	63.3	224.8	310
18/20	7.25	12.5	50	25	77	80	86	238.3	335
22	12.8	15	60	25	97.5	83	76	277	392
26	21.8	21.2	84.8	30	118	106	96	321	450
32	49.6	31.5	126	35	150	140	135	416	589.6

G80 SWIVEL TYPE SELF LOCKING SAFETY HOOK



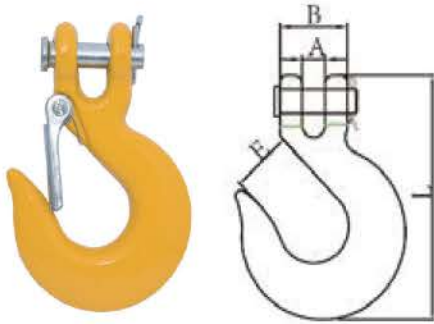
SIZE MM	WEIGHT KG/PC	WLL TON	B.L TON	DIMENSIONS(MM)					
				A	B	E	E1	L1	L
6	0.71	1.12	4.48	32.5	24	35	28	152.5	184
7/8	1.15	2	8	36	29.5	40	35.8	189	228
10	1.86	3.15	12.6	42	35	50	48	224	270
13	3.51	5.3	21.2	50	41	60	52.5	267	324
16	7.33	8	32	61	56.8	65	63.3	355.6	406
18/20	10.3	12.5	50	72	63	80	86	378.2	460.5
22	17.5	15	60	97	98	83	76	466	564
26	23	21.2	84.8	123	115	106	96	544	661
32	81	31.5	126	140	146	140	135	679	892

CLEVIS GRAB HOOK H330/A330



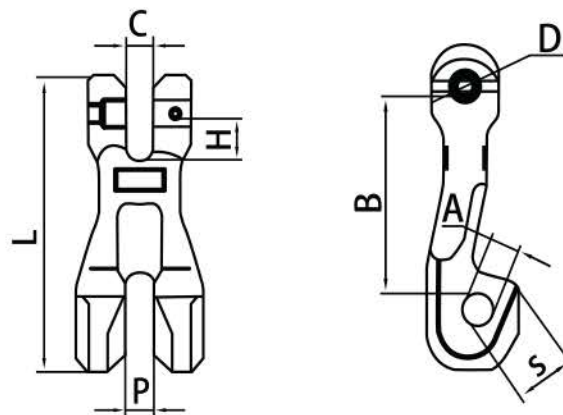
SIZE IN	WLL(LBS)		DIMENSIONS(MM)				WEIGHT LBS/PC
	CARBON	ALLOY	A	B	E	L	
1/4"	2600	3150	8.5	25	9.2	78.5	0.36
5/16"	3900	4700	10	30.5	11	93	0.62
3/8"	5400	6600	13	35	12.7	114.5	1
7/16"	7200	8750	17	42	14.5	126	1.5
1/2"	9200	11300	19	47	17	144	2.22
5/8"	13000	15800	23	56	20	177	4.41
3/4"	20200	24700	24	66.5	24	207.5	6.5

CLEVIS SLIP HOOK H331/A331



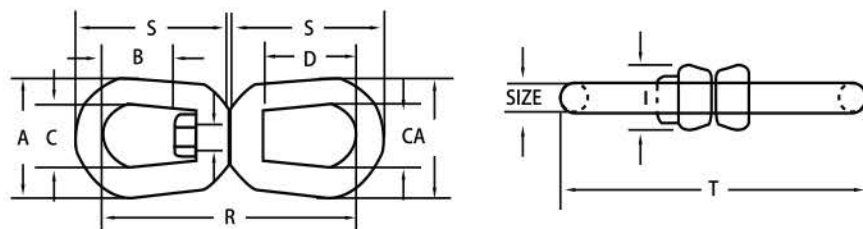
SIZE IN	WLL(LBS)		DIMENSIONS(MM)				WEIGHT LBS/PC
	CARBON	ALLOY	A	B	L	E	
1/4"	2600	3150	11	27	100	23.5	0.55
5/16"	3900	4700	12.5	33	114	26	0.82
3/8"	5400	6600	15	39	132.5	32	1.21
7/16"	7200	8750	17	44	147	40	2.09
1/2"	9200	11300	19	48	166	42.5	2.99
5/8"	13000	15800	18.5	58.7	200.5	51	4.85
3/4"	20200	24700	30	81	257	64.5	11.28

CLEVIS SHORTENING CLUTCH



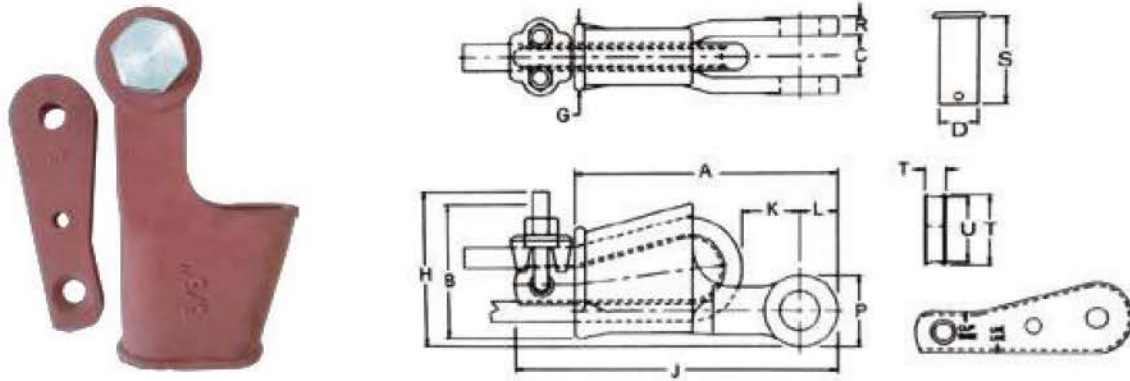
SIZE MM	WEIGHT KG/PC	WLL TON	B.L TON	P MM	C MM	A MM	B MM	H MM	S MM	L MM	D MM
6	0.17	1.12	4.48	7.5	7.5	8	44	10.23	12	73.5	7.8
7/8	0.37	2	8	9.5	9.5	10.5	61.7	14	17	101	9.2
10	0.97	3.15	12.6	13	13	12.4	92	18.4	28	138	13.2
13	2.01	5.3	21.2	16.5	16.5	16	115	22.7	34.5	177	16.2
16	3.32	8	32	21	21	19.5	143	28.5	40	200	20
20	6.2	12.5	50	23.5	23.5	23	152	33.6	46	238	24.3
22	8.5	15	60	25.5	25.5	26	195	39	57.5	295	28.1

US TYPE DROP FORGED G-402 REGULAR SWIVEL



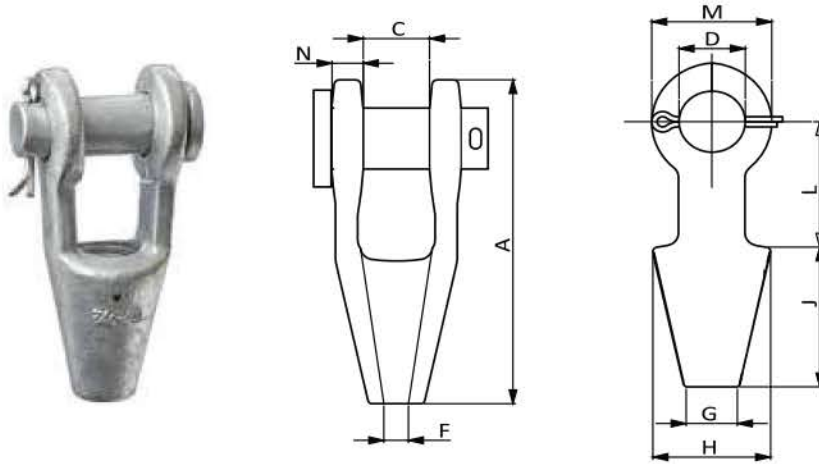
SIZE IN	WLL LBS	WEIGHT LBS	DIMENSIONS(IN.)								
			A	B	C	D	J	M	R	S	T
1/4"	850	0.21	1.25	0.69	0.75	1.06	0.69	0.31	2.94	1.69	3.44
5/16"	1250	0.39	1.63	0.81	1	1.25	0.81	0.38	3.56	2.06	4.19
3/8"	2250	0.71	2	0.94	1.25	1.5	1	0.5	4.31	2.5	5.06
1/2"	3600	1.32	2.5	1.31	1.5	2	1.31	0.63	5.44	3.19	6.44
5/8"	5200	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	8.95	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	1.38	11.13	6.75	13.36
1-1/2"	45200	45.79	7	4.19	4	4.19	4	2.25	17.13	10	20.13

US TYPE WEDGE SOCKET



WIRE ROPE DIA. IN	DIMENSIONS(MM)														
	A	B	C	D	G	H	J	K	L	P	R	S	T	U	V
3/8"	143	70	20	20	35	79	187	40	22	40	11	54	11	31	35
1/2"	173	90	25	25	41	98	222	30	27	49	12	62	13	44	48
5/8"	207	110	32	30	54	116	263	42	30	57	14	79	17	50	55
3/4"	248	122	38	35	62	136	305	55	35	66	16	92	19	60	65
7/8"	283	118	44	41	68	160	355	56	42	79	19	106	22	68	75
1"	324	129	50	50	65	178	402	69	50	95	22	118	26	73	83
1-1/8"	365	140	57	57	84	197	450	63	57	108	25	137	30	80	90
1-1/4"	406	200	63	63	90	-	-	86	63	120	28	148	33	85	96

G416 OPEN SPELTER SOCKET



SIZE IN	WEIGHT LBS/PC	DIMENSIONS(IN)									
		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

ENDLESS ROUND SLING



Item	Colourcoded according to EN1492-1	Working Load Limit with 1 round sling						Working Load Limit with 2 round slings				
		Straight lift	Choked lift	0-7	β				Straight lift up to 45	Choked lift up to 45	Straight lift 45-60	Choked lift 45-60
					0-7	7-45	45-60	45-60				
		1.0	0.8	2.0	1.4	1.0	0.7	0.5	1.4	1.12	1.0	0.8
RSEL-01	WLL 1T	1.000	800	2.000	1.400	1.000	700	500	1.400	1.120	1.000	800
RSEL-02	WLL 2T	2.000	1.600	4.000	2.800	2.000	1.400	1.000	2.800	2.240	2.000	1.600
RSEL-03	WLL 3T	3.000	2.400	6.000	4.200	3.000	2.100	1.500	4.200	3.360	3.000	2.400
RSEL-04	WLL 4T	4.000	3.200	8.000	5.600	4.000	2.800	2.000	5.600	4.480	4.000	3.200
RSEL-05	WLL 5T	5.000	4.000	10.000	7.000	5.000	3.500	2.500	7.000	5.600	5.000	4.000
RSEL-06	WLL 6T	6.000	4.800	12.000	8.400	6.000	4.200	3.000	8.400	6.720	6.000	4.800
RSEL-08	WLL 8T	8.000	6.400	16.000	11.200	8.000	5.600	4.000	11.200	8.960	8.000	6.400
RSEL-10	WLL 10T	10.000	8.000	20.000	14.000	10.000	7.000	5.000	14.000	11.200	10.000	8.000
RSEL-12	WLL 12T	12.000	9.600	24.000	16.800	12.000	8.400	6.000	16.800	13.400	12.000	9.600

1. Comply to Comply to EN1492-2:2000 + A1:2008*
2. Available Safety factor 6:1 and 7:1
3. Contact us for custom size / length / design of webbing sling and round sling
4. Third party load test certification service available upon request
5. Low elongation
6. 100% high tenacity polyester of out sleeve and inner core

ALWAYS:










- Store and handle roundslings correctly.
- Inspect roundslings and accessories before use and before placing into storage.
- Follow safe slinging practices, as given overleaf.
- Position the bight for choke lift at 120°(natural angle).
- Apply correct mode factor for the slinging arrangement.
- Use protection (to avoid cutting, friction etc) and fittings which allow the sling to form smooth radii.

NEVER:

- Attempt to shorten, knot or tie roundslings.
- Expose roundslings to direct heat or flames.
- Use roundslings at temperatures above 80°C or below 0°C without consulting the supplier.
- Expose roundslings to chemicals without consulting the supplier.
- Shock load roundslings.
- Use roundslings with cut or damaged outer covers.
- Use a sling with a missing/damaged label or illegible markings

POLYESTER FLAT WEBBING SLING



Colour coded according to EN 1492-1	Working Load Limit with 1 webbing sling					Working Load Limit with 2 webbing sling			
	Straight lift	Choked lift	β			Straight lift up to 45	Choked lift up to 45	Straight lift 45-60	Choked lift 45-60
			0-7	7-45	45-60				
									
1.0	0.8	2.0	1.4	1.0	1.4	1.12	1.0	0.8	
WLL 1T	1.000	800	2.000	1.400	1.000	1.400	1.120	1.000	800
WLL 2T	2.000	1.600	4.000	2.800	2.000	2.800	2.240	2.000	1.600
WLL 3T	3.000	2.400	6.000	4.200	3.000	4.200	3.360	3.000	2.400
WLL 4T	4.000	3.200	8.000	5.600	4.000	5.600	4.480	4.000	3.200
WLL 5T	5.000	4.000	10.000	7.000	5.000	7.000	5.600	5.000	4.000
WLL 6T	6,000	4,800	12,000	8,400	6,000	8,400	6,720	6,000	4,800
WLL8T	8,000	6,400	16,000	11,200	8,000	12,000	8,960	8,000	6,400
WLL10T	10,000	8,000	20,000	14,000	10,000	14,000	11,200	10,000	8,000
WLL 12T	12,000	9,600	24,000	16,800	12,000	16,800	13,440	12,000	9,600

1. Comply to EN1492-1:2000 + A1:2008*
2. Available Safety factor 6:1 and 7:1
3. 1ply to 4ply up to 64tons
4. Contact us for custom size / length / design of webbing sling and round sling
5. Third party load test certification service available upon request
6. Low elongation
7. 100% high tenacity polyester

ALWAYS:

- Store and handle webbing slings correctly.
- Inspect webbing slings and accessories before use and before placing into storage.
- Follow safe slinging practices, as given overleaf.
- Position the bight for choke lift at 120° (natural angle).
- Position the sling so that the load is uniformly spread over its width and protect the sling from sharp edges.
- Apply the correct mode factor for the slinging arrangement.

NEVER:

- Attempt to shorten, knot or tie webbing slings.
- Expose webbing slings to direct heat or flames.
- Use webbing slings at temperatures above 80°C or below 0°C without consulting the supplier.
- Expose webbing slings to chemicals without consulting the supplier.
- Shock load webbing slings.
- Use webbing slings which are cut or which have loose or damaged stitching.
- Use a sling with a missing/damaged label or illegible markings

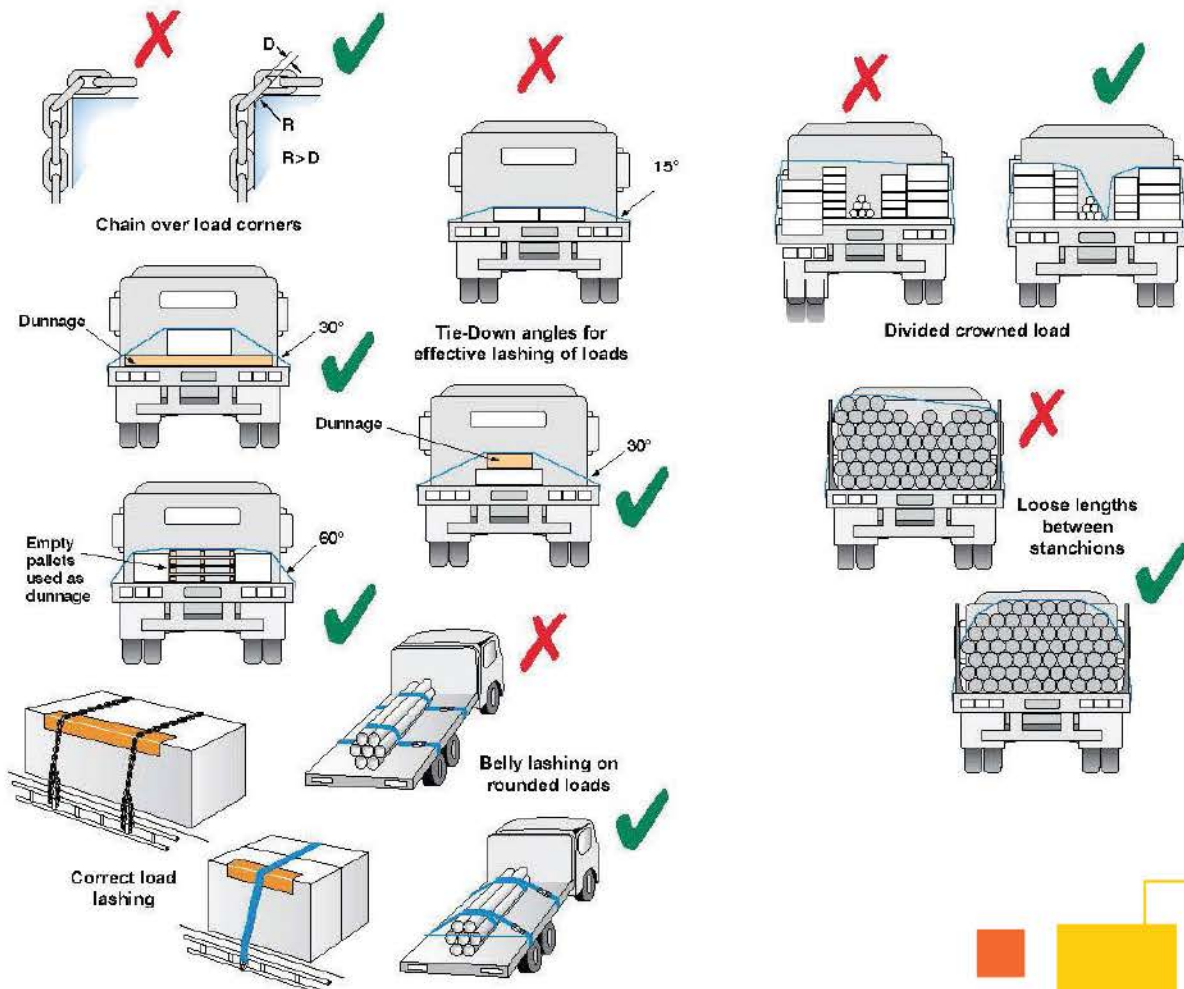
RATCHET TIE DOWN



Width (Inch)	SWL (KG) STRAIGHT	SWL (KG) Top Over Lashing	SAFETY FACTOR	Common Length (MTR)
1	500	1000	2:1	4.5
1.5	1000	2000		6
2	2000 - 2500	4000 - 4500		6
3 - 4	5000	10000		8,9,10,12

1. Comply to EN12195-2
2. Contact us for custom size / length / design of ratchet tie down
3. Low elongation
4. 100% high tenacity polyester of lashing strap

INSTRUCTION OF USING RATCHET TIE DOWN:



CHAIN - BLOCK VC & CB-II SERIES

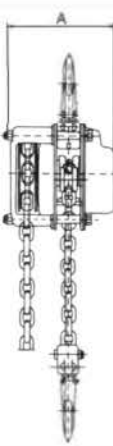
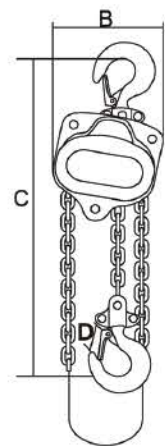
Model: VC



Sealed roller bearings inside

TECHNICAL BENEFITS

- **High-tech load chains** are approved by DIN 5684, one of the world's most rigid standards. This is the special heat treated load chain of ISO Grade T (900N/mm²) whose tensile strength far surpasses ISO T class.
- **Double pawls supporting fail-safe brake mechanism.**
Even if by any chance one of the two pawls becomes unserviceable, the other will still remain operative, and the brake system remains secure.
- **Hooks of easier handling shape.**
The opening of the hooks has been made wider for easier handling and working. However if by any chance the hook is overloaded there is not fear of it breaking, it will simply gradually start straightening out, avoiding any load drop or personal injury.
- **Tough Framing.**
The tough gear case, reinforced with four ribs and four knock pins, provides accurate gear centering and high mechanical efficiency.
- **Rolled-edge handwheel cover.**
This provides smooth operation of the hand chain when pulled side ways. Strong and least corrosive electrostatic powder painting.
- **Wet friction discs with longer life.**
- **Load sheave with sealed roller bearing.**
- **Anchor plate avoiding over lowering.**



Moving products from one place to another



Laying conduits and pipelines



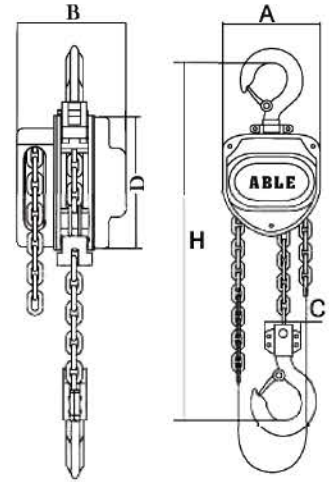
Uprooting trees



Installing underwater pump

TECHNICAL BENEFITS

- **Superior Grade 80 load chain - Din standard. MBL is 400% of WLL, Elongation>10%.**
- **Forged and Heat Treated load Hooks with ABLE mark and stretch indicators**
- **Double Pawls supporting fail-safe brake mechanism.**
 Even if by any chance one of the two pawls becomes unserviceable, the other will still remain operative, and the brake system remains secure.
- **Asbestos free Brake Linings**
 Individually proof load tested to 1.5XWLL with individual serial number
- **Low maintenance**
 Enclosed housing allows outdoor use. The load brake requires no lubrication.
- **Quality features**
 1. Wheel cover with guide slots guards against jamming and slipping of chain.
 2. Forged swivel hooks with latches prevent twisting of chain and reduce unintentional unhooking of the unit or the load.
 3. Chain guide and stripper ensure proper fit of chain over pocket wheel.
 4. Two-stage gear reduction with hardened gears and pinion.



HOIST WITH THE LIFT IN EXTRA LENGTHS IS AVAILABLE BY EXTRA COST UPON REQUEST.

Conform & tested acc to EN 13 157-2010.

Product Code	Capacity Ton	Standard lift(m)	Test Load Ton	Pulling Efforts kg	Chainfall No.	Load chain Dia(mm)	Dimensions(mm)				Net Weight kg
							A	B	C	D	
VC 005	0.5	3.0	0.75	16	1	5.0	127	144	285	27	9.0
VC 010	1.0	3.0	1.50	24	1	6.3	147	157	315	30	11.9
VC 015	1.5	3.0	2.25	28	1	7.1	179	174	340	34	14.2
VC 020	2.0	3.0	3.00	32	1	8.0	179	204	380	37	20.2
VC 020A	2.0	3.0	3.00	30	2	6.3	147	174	380	37	20.8
VC 030	3.0	3.0	4.50	32	2	7.1	179	206	475	43	37.3
VC 050	5.0	3.0	7.50	36	2	9.0	179	263	635	46	61.2
VC 100	10.0	3.0	15.00	38	4	9.0	179	367	760	61	97.6
VC 150	15.0	5.0	22.50	38x2	6	9.0	207	754	850	84	118.0
VC 200	20.0	5.0	30.00	38x2	8	9.0	207	873	870	96	170.9

Individually proof load tested with individual serial number



Chrome finish also available



Hoist with the lift in extra lengths is available by extra cost upon request.

Product Code	Capacity Ton	Standard lift(m)	Test Load Ton	Pulling Efforts kg	Chainfall No.	Load chain Dia(mm)	Dimensions(mm)				Net Weight kg
							A	B	C	D	
CB-II 005	0.5	3.0	0.75	22	1	6	125	111	24	134	8.9
CB-II 010	1.0	3.0	1.50	31	1	6	147	126	28	154	11.4
CB-II 015	1.5	3.0	2.25	35	1	8	183	141	34	192	17.1
CB-II 020	2.0	3.0	3.00	30	1	8	315	163	38	224	16.9
CB-II 030	3.0	3.0	4.50	35	2	8	183	141	38	192	24.5
CB-II 050	5.0	3.0	7.50	39	2	10	215	163	48	224	38.8
CB-II 100	10.0	3.0	15.00	41	4	10	360	163	64	224	69.5
CB-II 200	20.0	5.0	30.00	41x2	8	10	585	191	82	224	185.0
CB-II 300	30.0	5.0	45.00	47x2	12	10	705	485	75	85	263.4
CB-II 500	50.0	5.0	75.00	47x2	24	10	746	660	110	128	-

*Conform & tested ace to EN 13157-2010.



LEVER BLOCK - LB-I SERIES

Model: LB-I



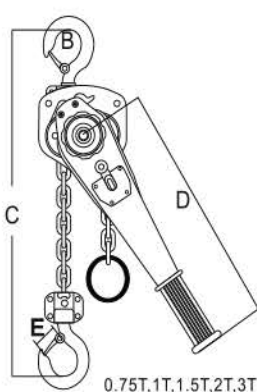
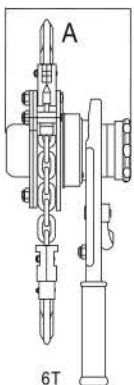
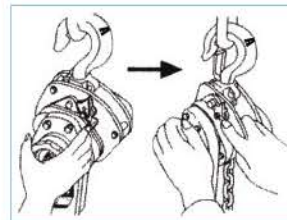
Model: VL

TECHNICAL BENEFITS

- One touch operation for free chain adjustment
- Grade 80 alloy load chain ISO and JIS standard
- Forged and Heat Treated load Hooks with batch trace ability and stretch indicators

IDLING OPERATION

- Depress the retaining pawl all the way and pull the grip ring towards you
- The chain can be adjusted up and down by hand.
- To terminate the idling: Set the change lever in the down (↓) position. (See diagram as below). Then, depressing the retaining pawl as far as possible, push the grip ring gently so as to let the pawl engage the outer edge of the retaining plate. Next, grip the grip ring and handle with a single hand and push them while turning them counter-clockwise. the retaining pawl returns to its original position.



The specifications on this leaflet may be modified for improvement without notice.

Conform & tested acc to EN 13157-2010

Product Code	Capacity Ton	Standard lift(m)	Test Load Ton	Pulling Efforts kg	Chainfall No.	Load chain Dia(mm)	Dimensions(mm)					Net Weight kg
							A	B	C	D	D	
LB-I / VL 050	0.50	1.5	0.75	11	1	6.0	148	128	295	256	45	6.9
LB-I / VL 075	0.75	1.5	1.50	15	1	6.3	148	128	295	256	45	6.9
LB-I / VL 100	1.00	1.5	2.25	16	1	6.3	152	128	310	256	48	7.0
LB-I / VL 150	1.50	1.5	3.00	18	1	7.1	161	148	335	368	52	9.7
LB-I / VL 200	2.00	1.5	3.00	24	1	8.0	168	148	350	368	60	10.1
LB-I / VL 300	3.00	1.5	4.50	38	1	9.0	191	180	405	368	66	16.1
LB-I / VL 600	6.00	1.5	7.50	39	2	9.0	191	180	550	368	80	26.7

Individually proof load tested with individual serial number

SV PLUS VERTICAL - LIFTING CLAMP



Jaw and floor Material: 20CrMnTi

BENEFITS

- Long product life
- Meets standard BS EN13155
- Guaranteed performance
- Embossed branding ABLE
- All forged and heat treated Parts
- Safety and Reliability with individual serial number
- Easily disassembled and reassembled
- Permanent PI code for good Traceability

APPLICATIONS

Standard VLC clamp is designed for vertical lifting and turning over of plates, the clamp possesses a safety device by which the lock is not disengaged even if the lifting rope is slackened. This clamp can be applied for a wide range of works which maintains a structure for safety against ground-touching shocks of the loads.



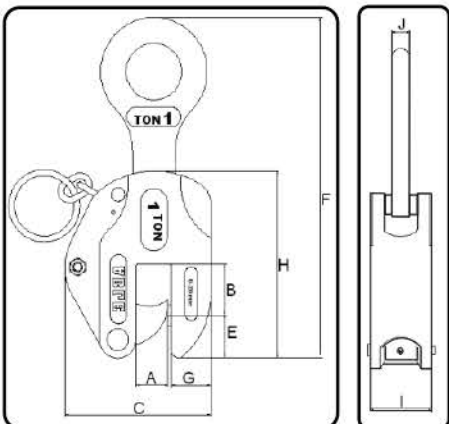
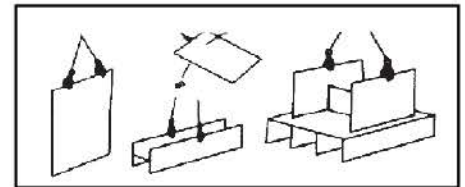
WORKING FIELDS

- Shipyards
- Subway sites
- Construction sites
- Metal Production Workshop
- Max.load: 1 - 5 tons Range
- Jaw Opening: 0 - 50mm
- Safety factor: 6 times
- Safety latch mechanism



SUBJECT TO RIGOROUS ABLE QUALITY APPROVAL INSPECTION PROCEDURES

- Vertical lifting of flat plates
- Turning over of flat plates
- Lifting of shaped steels



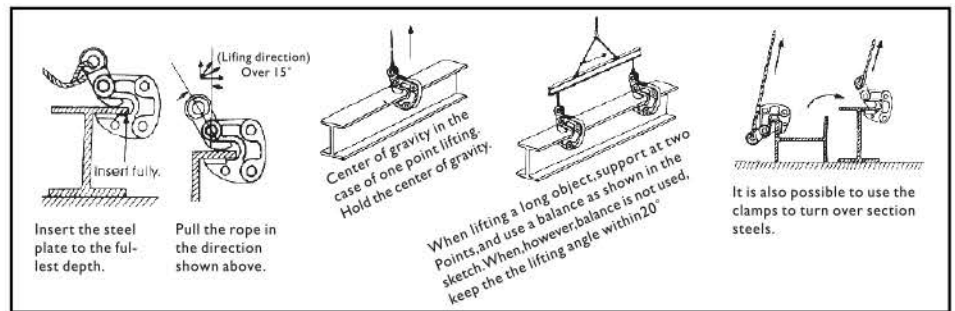
Product Code	WLL (ton)	Opening (mm)	Dimensions(mm)									Weight (kg)	
			A	B	C	D	E	F	G	H	I		J
VLC1	1	0-22	24	32	123	46	22	274	29	142	52	12	4.3
VLC2	2	0-32	35	42	152	50	25	302	38	188	63	14	7.1
VLC3	3	0-36	38	48	170	58	35	360	45	203	68	19	11.3
VLC5	5	0-50	52	54	220	62	58	458	58	236	76	20	17.4

SV PLUS - HORIZONTAL LIFTING CLAMP



Jaw ad floor Material: 20 CrMnTiMeets standard BS EN13155

THIS HLC CLAMP is used for horizontal lifting and transfer of steel plates and is particularly suited to this application due to the special thin ground plate and buffer cams which facilitate easy insertion and removal under the plate being lifted. It can also be used hanging vertically under a spreader. These clamps are light in weight relative to their lifting capacity. Please note that the WLL of these clamps is given base on a pair. The clamps are suitable for surface hardnesses up to 37RC (345,HB)

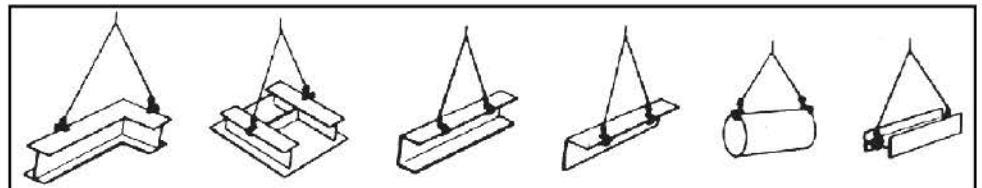


WARNING

Inspection prior to use as per ABLE operating manual

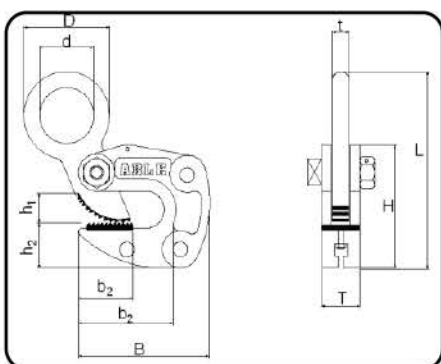
WORKING FIELDS

- At building construction field
- At ship building field
- Metal production workshop
- At subway construction (civil engineering construction) sites



SAFETY TECHNICAL FEATURE

- Embossed branding, PI code for good traceability and quality guarantee
- All forged parts with stock availability at any time.
- High strength and durability with MBL of 500% of capacity, better



Product Code	WLL(Ton)		Opening (mm)	Dimensions(mm)											Weight (kg)
	Single	Double		L	T	T	H	H1	H2	B	B1	B2	D	D	
HLC1	1	2	1-13	166	12	32	100	22	36	102	64	42	70	46	2.1
HLC2	2	4	3-22	235	16	40	132	33	46	130	84	56	92	56	4.8
HLC3	3	6	12-35	276	18	44	178	40	66	172	92	70	82	42	8.5



PLATE - LIFTING CLAMP

FLEXIBLE SOLUTION



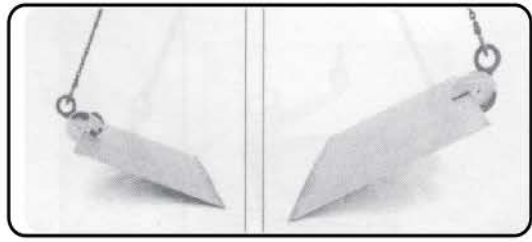
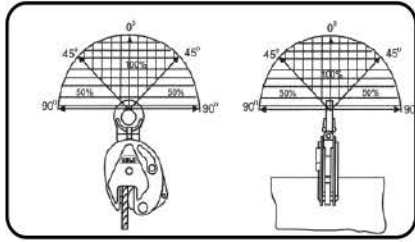
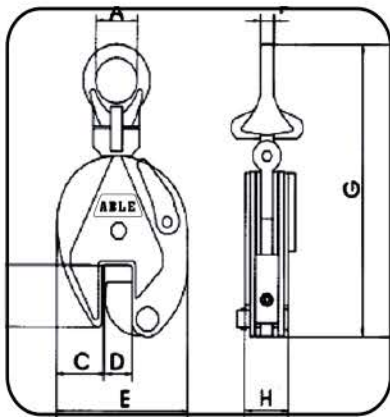
TECHNICAL SPECIALITIES

- The Universal vertical PLC clamp is designed to ensure that the load can be lifted and turned (180°). Whilst at the same time ensuring that the load is positively retained.
- These clamps have a wide range of uses and are particularly suited for the lifting and turning of steel plates, ship sections and the extraction of pile sheets.
- Fitted with a hinged hoisting eye moving in all directions so as to enable the user to place and lift the load from any directions.
- Clamps are fitted with special hook-up facilities to enable easy fitment of the clamp in horizontal position.
- The new models have a greater jaw aperture enabling plates of varying thickness to be lifted with the same clamp.
- The clamp is fitted with a safety latch which ensures the proper use by mean of a double locking device, both in open as well as closed position.
- This also guarantees a pre-load on the material being lifted.
- The clamps are suitable for surface harnesses up to 37 Rc (345HB). Small overall dimension with a relatively high lifting capacity.
- Overall forged structure with good traceability and the safety factor of 6 times.



Working Load Limit (WLL) for loading capacity please consult diagram as above

Product Code	Capacity Ton	Test Load Ton	Dimensions (mm)								Net weight kg
			A	B	C	D	E	F	G	H	
PLC 05	0.5	1.0	30	43	34.5	0-15	103	10	212	36	1.8
PLC 10	1.0	2.0	48	63	51	0-20	138	12	294	50	4.7
PLC 20	2.0	4.0	68	76	59	0-25	164	16	370	52	8.2
PLC 30	3.0	6.0	74	85	56	0-30	193	20	418	78	14.9
PLC 50	5.0	10.0	80	90	65	0-50	240	22	450	88	20.8
PLC 80	8.0	16.0	80	140	81	38.5-83	328	24	560	120	38.3



PULLEY - SNATCH BLOCK



K TYPE PULLEY BLOCK-SINGLE WITH HOOK

SIZE IN	S.W.L TON	DIA OF ROPE MM	WEIGHT KG
3	0.5	8	1.23
4	1	10	2.3
5	1.5	13	3.6
6	2	16	5.9
7	3	19	9.15
8	4	22	12.2
10	5	25	16.2
12	6	28	26



K TYPE PULLEY BLOCK-SINGLE WITH EYE

SIZE IN	S.W.L TON	DIA OF ROPE MM	WEIGHT KG
3	0.5	8	1.2
4	1	10	2.3
5	1.5	13	3.6
6	2	16	5.6
7	3	19	9
8	4	22	12
10	5	25	15.8
12	6	28	25.5

VISUAL INSPECTION

INSPECTION FREQUENCY PER ASME B30.9

A visual inspection for damage shall be performed by the user or designated person each day or shift the sling is used. A complete inspection for damage shall be performed periodically by a designated person, at least annually. Written records of most recent periodic inspection shall be maintained.

REJECTION CRITERIA PER ASME B30.9

Missing or illegible sling identification; evidence of heat damage; slings that are knotted; fittings that are pitted, corroded, cracked, bent, twisted, gouged, or broken; other conditions, including visible damage, that cause doubt as to the continued use of the sling.

WIRE ROPE SLINGS

- Excessive broken wires, for strand-laid and single part slings, ten randomly distributed broken wires in one rope lay or five broken wires in one strand in one rope lay
- Severe localized abrasion or scraping, kinking, crushing, birdcaging
- Any other damage resulting in damage to the rope structure
- Severe corrosion of the rope or end attachments

WEB SLINGS

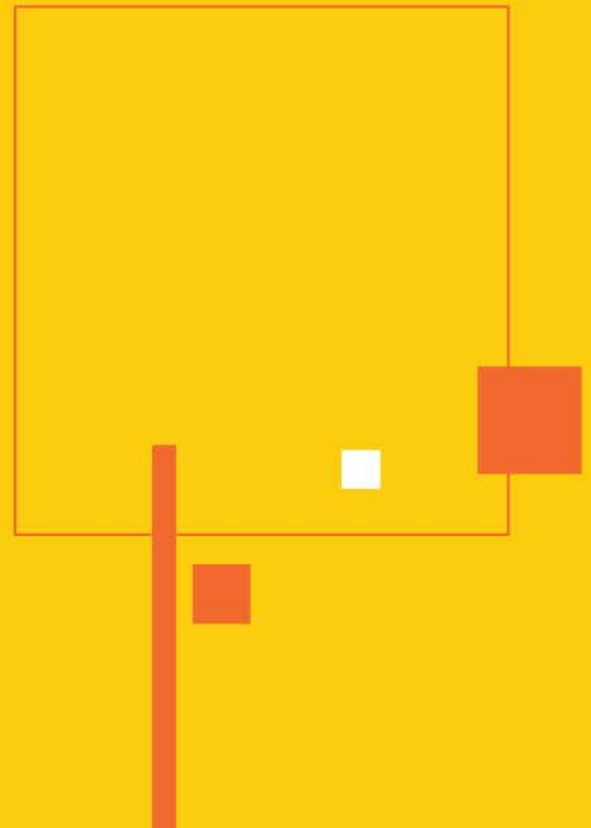
- Acid or caustic burns
- Melting or charring of any part of the sling
- Holes, tears, cuts or snags
- Broken or worn stitching in load bearing splices
- Excessive abrasive wear
- Discoloration and brittle or stiff areas on any part of the sling, which may mean chemical or ultraviolet/sunlight damage

ROUND SLINGS

- Acid or caustic burns
- Evidence of heat damage
- Holes, tears, cuts, abrasive wear or snags that expose the core yarns
- Broken or damaged core yarns
- Weld splatter that exposes any core yarns
- Discoloration and brittle or stiff areas on any part of the slings, which may mean chemical or other damage

CHAIN SLINGS

- Cracks or breaks
- Excessive wear, nicks or gouges
- Stretched chain links or components
- Bent, twisted or deformed chain links or components
- Excessive pitting or corrosion
- Lack of ability of chain or components to hinge freely
- Weld splatter



PROOF LOAD TEST AND - BREAKING TEST

Our test bed complies with the requirement of ISO17020. It can perform proof load and breaking test up to 500 Ton. All tests are performed by certified tester and are performed only after detailed visual inspection. Our laboratory meets the requirements of ISO17025.

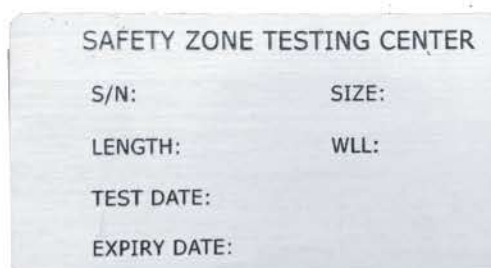


General Requirements for the Competence of Testing:

Besides performing non-destructive tests in our workshop, our experienced team can also provide on-site services by using telemetry load links, which could hold a capacity up to 250 Ton. All of our mechanisms are certified by a recognized third party.

Certificates and metal tags will be issued upon the acceptance of the test result.

**Telemetry load links are available for rent upon request.
 A third party witness could be arranged upon request with our partners: ABS, Bureau Veritas, SGS, TUV, LLOYDS or based on the customer's request.



Address:
Setia Business Park II,
No.40, Jalan Perniagaan Setia 7,
Taman Perniagaan Setia,
81100 Johor Bahru,
Johor, Malaysia.

Tel: +607 - 555 9739
Email: qliftsupply@gmail.com
Website: www.qlift.com.my

