CONTENTS


Quality Guarantee 1


Powerform® Rope Selection 3


Bend Fatigue Testing 5


Guide To Application & Rope Duty 6


Powerform® 35/35P 7


Hyflex 35/35P 9


Powerform® 18 11


Hyflex 18 13


Powerform® 6/6P 15


Powerform® 8/8P 17


Hyflex 8/8P 19


Powerform® 8PC 21


Hyflex 4 23


Hyflex 6x36 25


Hyflex 6x19 27


Hyflex 6x29Fi 29


Safety Information 31

Sigle Part Slings 33

Combinations of Multiple Leg Slings 34

Combinations of Multiple Wire Rope Leg Slings
With Double Aluminum Ferrule 35

Grommet and Flemish Eye Slings 36

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

QUALITY GUARANTEE

Guaranteed Raw Material Quality

Good raw material input at the beginning of the ropemaking process combined with tight process control ensure consistently high quality in the finished rope. Usha Martin manufacture steel and rod to International standards and to even more exacting internal standards through its mini blast furnace - arc furnace - ladle furnace - vacuum degassing electromagnetic stirring - continuous casting route.

A close and unique co-operation between company owned ISO 9001:2008 certified steelmaking, rod manufacturing and wire drawing facilities guarantee production feed materials which are "tailor made" to attain the required properties of ductility and tensile strength which are essential in the finished rope.

Guaranteed Breaking Force

As well as operating a rigorous programme of testing throughout the production process Usha Martin confirm the minimum breaking force of each and every finished rope with an actual test to destruction.

The test certificate which is supplied with every rope will indicate a minimum guaranteed breaking force and the actual breaking force at which the test sample broke.
The Usha Martin testing facility is approved by Lloyds Register of Shipping and The American Bureau of Shipping.

Guaranteed Quality Systems

Certification to ISO 9001 requires that Usha Martin document all work procedures, processes and related activities covering design, development, production, shipping and commercial activity.

ISO 9001 is our customer's guarantee that we will do exactly what we say we are going to do. Wire and Wire Ropes Division at Ranchi is the first and the only one in India to receive the prestigious award for excellence in TPM from Japanese Institute of Productivity Management (JIPM).

Guaranteed Bending Fatigue Characteristics

Bending fatigue resistance is the ability of the wire rope to withstand repeated bending over a sheave under constant or fluctuating loads.

The ability to withstand bending fatigue will, along with other factors, determine the life of

the rope and is therefore of interest to both the ropemaker and the crane operator.

Usha Martin operate an ongoing fatigue testing programme which is designed to give comparative fatigue performance for various rope constructions and to provide information relative to product improvement and development. More information on fatigue testing is available on page 6.

Guaranteed Rotational Characteristics



Each wire rope construction will have an inherent torque characteristic where both ends of the rope are secured and an applied force will generate torque at the fixing points. Each wire rope construction will have an inherent turn characteristic where one end of the rope is free to rotate and an applied force will cause the free end of the rope to turn.

With correct rope selection these characteristics should not cause a problem in service provided the rope has been correctly "balanced" in design and manufacture.

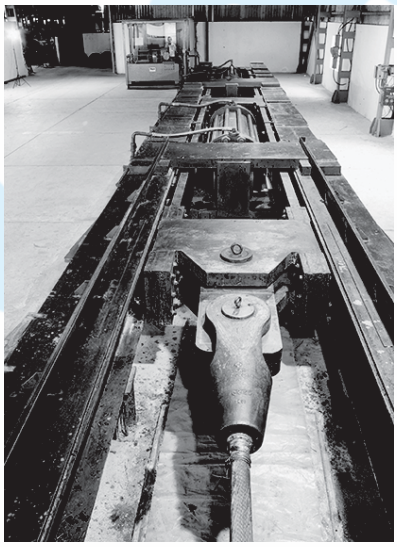
Usha Martin operate their own Torque/Turn testing machine which is used to confirm that all rotation resistant wire ropes possess the required rotational characteristics.

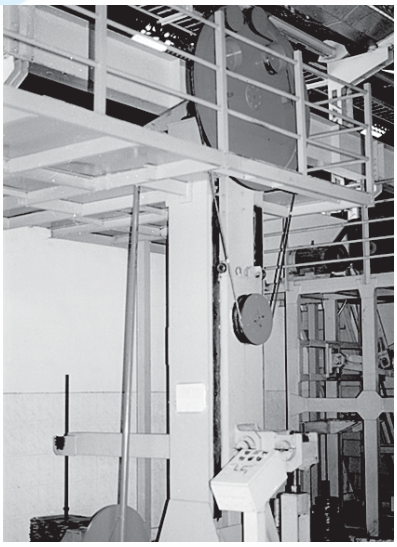
Guaranteed Performance and Consistency

A simple way to guarantee performance and consistency is to make sure that you are using an Usha Martin rope.

Many wire ropes available today may look similar to Usha Martin products but offer considerably less in terms of overall quality, performance, reliability and consistency. In order to protect our customers we have adopted a policy of identifying each rope with an internal marker tape.

Are you buying the "Real Thing"?







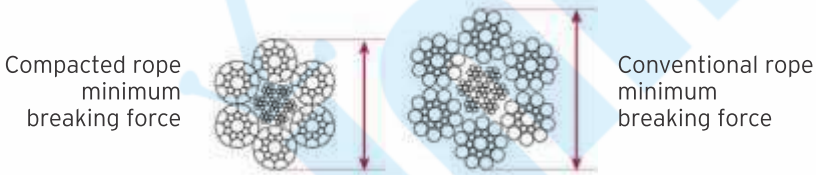
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

POWERFORM® COMPACTED ROPE

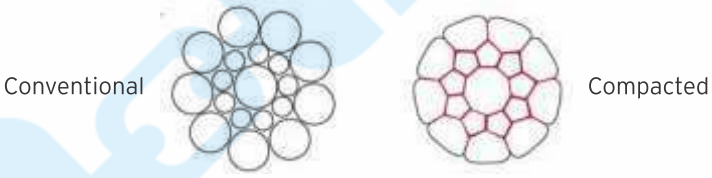


Conventional Strand | Conventional Rope | Compacted Strand | Compacted Rope

A Powerform• compacted rope is a steel wire rope which has been manufactured using individually compacted strands.During the compaction process the outside diameter of the strand is reduced and steel moves into the empty voids between the wires within the strand. The forming process also produces a very smooth exterior strand surface.



The resultant rope has a very high steel fill factor and consequently a relatively high minimum breaking force for any given diameter when compared with a conventional rope.



The compacted strand has very favourable internal contact conditions when compared with the point contact of round wires within a normal strand.



Exterior contact conditions are equally favourable. The smooth surface of the compacted rope offers a wider bearing surface to the sheave or drum groove.

Inter strand contact and contact between adjacent laps of rope on the winch drum is also improved.



6x36 | 18x7 | 35x7

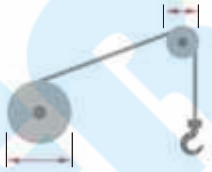
Usha Martin compacted ropes are referred to as "Powerform®" and are available in a number of constructions.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

POWERFORM® SELECTION

Optimised crane design

The high breaking load to size relationship can allow crane manufacturers to optimise the design of crane components such as the winch drum and sheaves whilst still complying with international crane design standards.



Long life

Laboratory fatigue testing indicates that it is possible to achieve up to two times normal rope life when comparing a Powerform® rope with a conventional rope of equivalent construction.



Greater resistance to crushing in multi-layer coiling situations

Powerform® ropes are recommended for all multi-layer coiling situations where crushing on lower layers is inevitable. The more solid cross section of the Powerform® rope offers much greater resistance to this type of damage.



More effective resistance to crushing at crossover points

Because of the higher steel fill factor Powerform® ropes offer much better resistance to crushing damage at crossover points on the winch drum.



Greater resistance to "Interference" at the drum

Abrasive wear between adjacent laps of rope which is normally most severe where the rope moves on and off the drum can be minimised by using a Powerform® rope.



Reduced wear on sheaves

The smooth exterior of the Powerform® rope can lead to reduced abrasive wear on both the sheave and rope.



SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

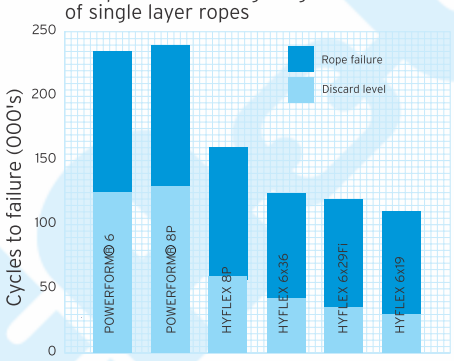
BEND FATIGUE TESTING

Resistance to bend fatigue is a key factor in determining the service life of wire rope and is therefore of great interest to both the rope manufacturer and the crane operator. Extensive comparative bend fatigue testing is carried out at Usha Martin in order to continuously develop and improve crane rope products.

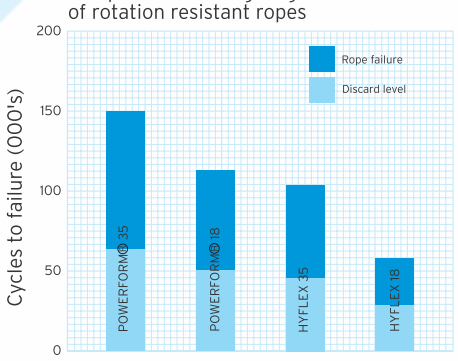
Fatigue testing involves cycling a length of rope through a sheave at a constant tension. The number of operating cycles is recorded at a point where the rope is rejectable under recommended discard levels specified under ISO 4309. The test continues until the rope under test is unable to sustain the load any longer and again the number of cycles is recorded.

Based on results obtained from an ongoing bend fatigue testing programme the following charts give an indication of the likely comparative performance which can be obtained from various rope constructions. The lower charts show the importance of lubrication in-service and the relative improvement in performance as sheave diameter (D:d ratio) increases.

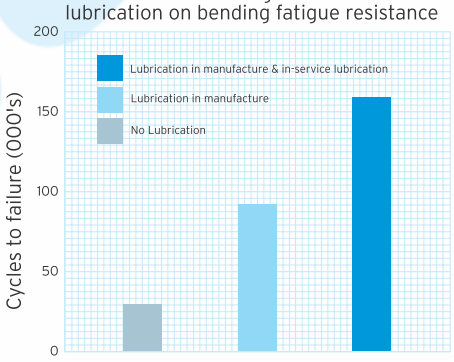
Comparative bending fatigue resistance of single layer ropes



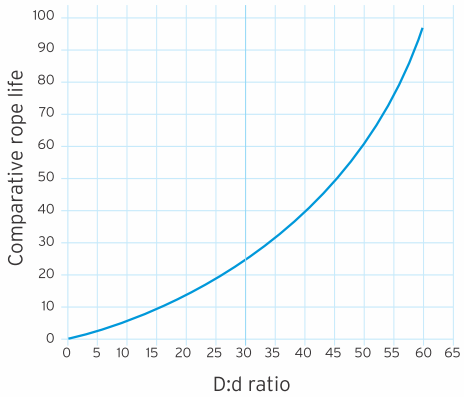
Comparative bending fatigue resistance of rotation resistant ropes



Effect of manufacturing lubricant and in-service lubrication on bending fatigue resistance



Effect of D:d ratio on wire rope service life

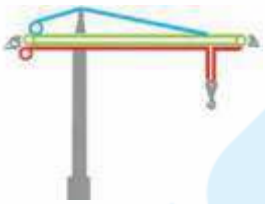


SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

GUIDE TO APPLICATION & ROPE DUTY



MOBILE



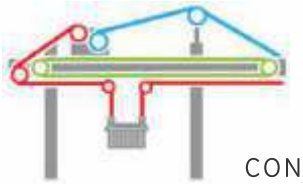
TOWER



DOCKSIDE



OFFSHORE PEDESTAL



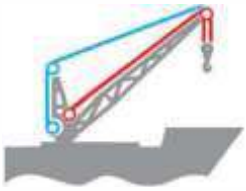
CONTAINER



LATTICE BOOM



PILING



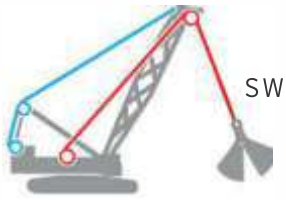
DECK CRANE



STEELWORKS LADLE



UNLOADER



SWIMGRAB

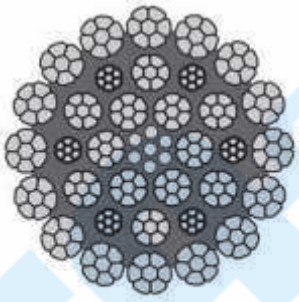
- MAIN HOIST
- BOOM HOIST
- TROLLEY/RACKING ROPE
- WHIP HOIST

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

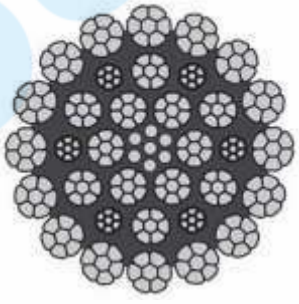
POWERFORM®35/35P

- Powerform® 35/35P has the highest strength of all low rotation hoist ropes.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.
- Maximum resistance to rotation.
- Suitable for use on single part and multi-part hoist reeving systems.
- High fatigue life resulting from the unique compaction process.
- Increased resistance to crushing. Recommended for multi-layer spooling operations.
- Increased abrasion resistance resulting from the unique compaction process.
- Optional plastic impregnation. (P) signifies full plastic impregnation of the Steel Core.
- Fully lubricated in manufacturing.





Powerform® 35



Powerform® 35P

Standard Characteristics Powerform® 35/35P			
Construction	10mm-40mm	35xK7(16xK7:6xK7+6xK7-6xK7-1x7)	
	42mm-60mm	35xK19S(16xK19S:6xK19S+6xK19S-6xK19S-1x19S)	
Compacted		Yes	No
		◆	
Tensile Grade N/mm2		1960	2160
		◆	◆
Finish		Bright	Galvanised
		◆	◆
Lay Direction		Right Hand	Left Hand
		◆	
Lay Type		Ordinary	Langs
			◆
Average Fill Factor (%)		74.5	
Turn value at 20% of breaking force degrees/rope lay		0.2	
Nominal rope lay length (NRD = Nominal Rope Diameter)		6.0 x NRD	
Discard Criteria		Refer to ISO 4309:1990	

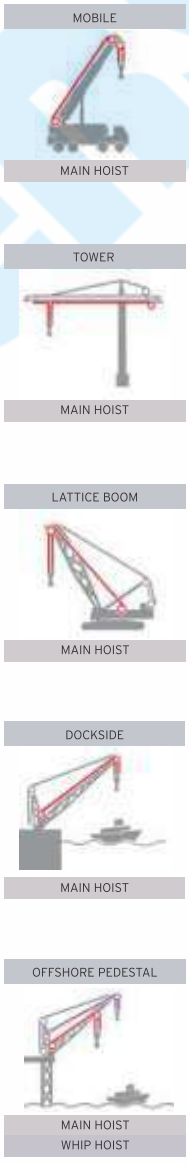
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX.* MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1960 N/mm²		2160 N/mm²	
			kN	tonnes	kN	tonnes
	1/2	81.1	148	15.1	160	16.3
13		85.0	155	15.8	167	17.0
14		98.6	180	18.3	192	19.6
16	5/8	129	233	23.8	252	25.7
18		163	300	30.6	321	32.7
19	3/4	182	331	33.7	358	36.
20		201	372	37.9	399	40.7
21		222	402	41.0	434	44.2
22		243	444	45.3	484	49.3
	7/8	249	453	46.2	490	49.9
24		290	531	54.1	572	58.3
	1	325	591	60.2	640	65.2
26		340	621	63.3	661	67.4
28		394	720	73.4	788	80.3
	1-1/8	411	748	76.2	810	82.6
30		453	827	84.3	904	92.2
32	1-1/4	515	944	96.2	1035	106.0
35	1-3/8	616	1125	115.0	1216	124.0
63		652	1185	121.0	1286	131.0
38	1-1/2	726	1326	135.0	1437	146.0
40		805	1477	151.0	1588	162.0
42		887	1485	151.0		
44		974	1618	165.0		
	1-3/4	994	1646	168.0		
46		1064	1765	180.0		
48		1159	1935	197.0		
50		1258	2078	212.0		
	2	1298	2150	219.0		
52		1360	2256	230.0		

* Mass per unit length of POWERFORM 35P increases by approx. 3%

Note:
- POWERFORM 35P is available on special request and prior confirmation.
- Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

Typical Applications



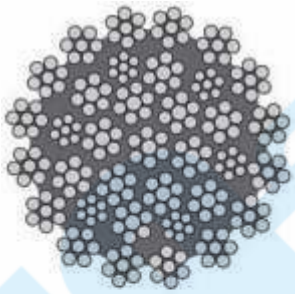
MAIN HOIST
WHIP HOIST

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

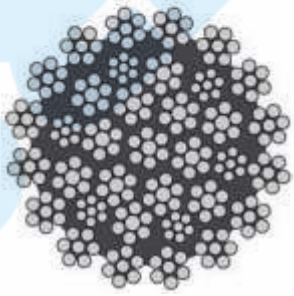
HYFLEX 35/35P

- Hyflex 35 is a high strength flexible hoist rope.
- Maximum resistance to rotation verified by testing on the in-house torque/turn machine.
- Suitable for use on single part and multi-part hoist reeving systems.
- Langs lay construction offers maximum resistance to wear.
- A sample of rope from each production batch is tested to destruction in order to confirm
- compliance with catalogue breaking force values.
- Optional plastic impregnation (P) signifies full plastic impregnation of the steel core.
- Fully lubricated in manufacturing.





Hyflex 35



Hyflex 35P

Standard Characteristics Hyflex 35		
Construction	35x7(16x7:6x7+6x7-6x7-1x7)	
Compacted	Yes	No
		◆
Tensile Grade N/mm^2	1960	2160
		◆
Finish	Bright	Galvanised
		◆
Lay Direction	Right Hand	Left Hand
	◆	
Lay Type	Ordinary	Langs
	◆	◆
Average Fill Factor (%)	63.5	
Turn value at 20% of breaking force degrees/rope lay	0.2	
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.0 x NRD	
Discard Criteria	Refer to ISO 4309:1990	

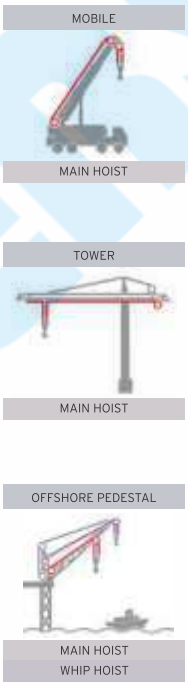
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX.* MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1960 N/mm²		2160 N/mm²	
			kN	tonnes	kN	tonnes
10		44.8	76	7.7	86.5	8.8
11		54.2	91	9.3	104.0	10.6
12		64.5	107	10.9	125.0	12.7
	1/2	72.0	123	12.5	137.0	14.0
13		76.0	128	13.0	146.0	14.9
14		88.0	148	15.1	168.0	17.1
16	5/8	115.0	194	19.8	221.0	22.5
18		145.0	242	24.7	277.0	28.2
19	3/4	162.0	277	28.2	312.0	31.8
20		179.0	301	30.7	337.0	34.4
21		198.0	335	34.1	370.0	37.7
22		217.0	370	37.7	412.0	42.0
	7/8	221.0	376	38.3	418.0	42.6
24		258.0	441	45.0	498.0	50.8
	1	289.0	491	50.1	546.0	55.7
26		303.0	517	52.7	581.0	59.2
28		351.0	599	61.1	681.0	69.4
	1-1/8	366.0	621	63.3	704.0	71.8
30		403.0	679	69.2	775.0	79.0
32	1-1/4	459.0	769	78.4	865.0	88.2
35	1-3/8	549.0	945	96.3	1044.0	106.0
63		581.0	983	100.0	1085.0	111.0
38	1-1/2	647.0	1078	110.0	1205.0	123.0
40		717.0	1202	123.0	1335.0	136.0
42		790.0	1227	125.0		
44		867.0	1347	137.0		
	1-3/4	885.0	1375	140.0		
46		948.0	1472	150.0		
48		1032.0	1603	163.0		
50		1120.0	1740	177.0		
	2	1156.0	1796	183.0		
52		1211.0	1881	192.0		

* Mass per unit length of HYFLEX 35P increases by approx. 3%

Note:
- HYFLEX 35P is available on special request and prior confirmation.
- Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

Typical Applications



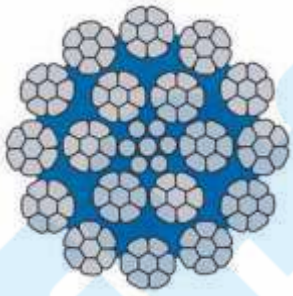
MAIN HOIST
WHIP HOIST

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

POWERFORM®18

- Powerform® 18 is a high strength rotation resistant hoist rope.
- A sample of rope from each production batch is tested to destruction in order to confirm
- compliance with catalogue breaking force values.
- Good resistance to rotation verified by testing on the in-house torque/turn machine.
- Suitable for use on single part and multi-part hoist reeving systems.
- High fatigue life resulting from the unique compaction process.
- Increased resistance to crushing. Recommended for multi-layer spooling operations.
- Increased abrasion resistance resulting from the unique compaction process.
- Fully lubricated in manufacturing.





Powerform® 18

Standard Characteristics Powerform® 18			
Construction	6mm-19mm	18xK7(12xK7:6xK7-1x7)	
	20mm-32mm	18xK19S(12xK19S:6xK19S -1x19S)	
Compacted		Yes	No
		◆	
Tensile Grade N/mm²		1960	2160
		◆	
Finish		Bright	Galvanised
			◆
Lay Direction		Right Hand	Left Hand
		◆	
Lay Type		Ordinary	Langs
			◆
Average Fill Factor (%)		66.3	
Turn value at 20% of breaking force degrees/rope lay		4	
Nominal rope lay length (NRD = Nominal Rope Diameter)		6.25 x NRD	
Discard Criteria		Refer to ISO 4309:1990	

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1960 N/mm²		2160 N/mm²	
			kN	tonnes	kN	tonnes
6		17.5	29.4	3.0		
7		23.3	88.0	3.9		
8		31.0	51.8	5.3		
9		39.3	64.6	6.6		
10		48.5	80.8	8.2		
11		58.7	101.0	10.3	111	11.3
12		69.8	116.0	11.8	127	12.9
	1/2	78.2	135.0	13.8	148	15.1
13		82.0	141.0	14.4	155	15.8
14		95.1	160.0	16.3	177	18.0
15		109.0	182.0	18.6	201	20.5
16	5/8	124.0	209.0	21.3	232	23.6
71		140.0	237.0	24.2	262	26.7
18		157.0	266.0	27.1	295	30.1
	3/4	175.0	291.0	29.7	322	32.8
20		194.0	320.0	32.6	359	36.6
22		235.0	379.0	38.6	424	43.2
	7/8	240.0	387.0	39.4	433	44.1
24		279.0	462.0	47.1	523	53.3
	1	313.0	517.0	52.7	585	59.6
26		328.0	542.0	55.2	613	62.5
28		380.0	632.0	64.4	710	72.4
30		437.0	721.0	73.5	809	82.5
32	1-1/4	497.0	820.0	83.6	920	93.8

Note: Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

Typical Applications

MOBILE



MAIN HOIST

DOCKSIDE



MAIN HOIST

OFFSHORE PEDESTAL



MAIN HOIST
WHIP HOIST

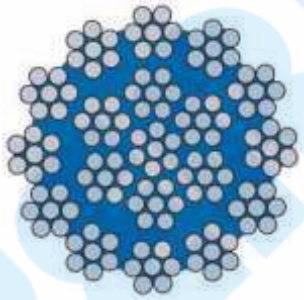
MAIN HOIST
WHIP HOIST

Note : For higher lifting heights consideration should be given to using a 35x7 construction with improved rotational characteristics.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

HYFLEX 18

- Hyflex 18 is a high quality rotation resistant hoist rope.
- Good resistance to rotation verified by testing on the in-house torque/turn machine.
- Consistent performance.
- Fully lubricated in manufacturing.
- Also available in fibre core construction.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.



Hyflex 18

Standard Characteristics Hyflex 18		
Construction	18x7(12x7:6x7-1x7)	
Compacted	Yes	No
Tensile Grade N/mm^2	1960	2160
Finish	Bright	Galvanised
Lay Direction	Right Hand	Left Hand
Lay Type	Ordinary	Langs
Average Fill Factor (%)	61.5	
Turn value at 20% of breaking force degrees/rope lay	5	
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.25 x NRD	
Discard Criteria	Refer to ISO 4309:1990	

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com



NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1960 N/mm²		2160 N/mm²	
			kN	tonnes	kN	tonnes
6		14.6	25.0	2.5	27.0	2.8
7		19.9	34.0	3.5	36.7	3.7
8		26.0	45.0	4.6	48.6	5.0
9		32.9	56.5	5.8	61.0	6.2
10		40.6	70.0	7.1	75.6	7.7
11		49.1	84.0	8.6	90.7	9.2
12		58.5	101	10.3	109	11.1
	1/2	65.5	113	11.5	121	12.3
13		68.6	118	12.0	127	12.9
14		79.6	137	14.0	148	15.1
15		91.4	157	16.0	169	17.2
16	5/8	104	180	18.3	194	19.8
17		117	203	20.7	219	22.3
18		132	226	23.0	244	24.9
	3/4	147	253	25.8	273	27.8
20		162	279	28.4	301	30.7
22		197	339	34.6	366	37.3
	7/8	201	346	35.3	374	38.1

Note: Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

Typical Applications





MAIN HOIST ■

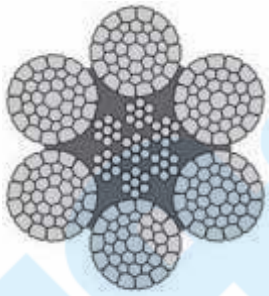
Note : For higher lifting heights, consideration should be given to using a 35x7 construction with improved rotational characteristics.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

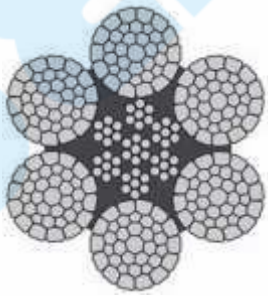
POWERFORM®6/6P

- Powerform® 6 is a high strength rugged six strand rope ideal for situations where longer service life is required.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.
- Powerform® 6 can be substituted for any six strand construction to improve service life and reduce total cost.
- High fatigue life resulting from the unique compaction process.
- Maximum resistance to crushing. Recommended for multi-layer spooling operations.
- Increased abrasion resistance resulting from the unique compaction process.
- Fully lubricated in manufacturing.
- Optional plastic impregnation (P) signifies full plastic impregnation of the steel core.





Powerform® 6



Powerform® 6P

Standard Characteristics Powerform® 6/6P		
Construction	6xK36SW(14-7+7-7-1)-CWR 6xK41SW(16+8+8-8-1)-CWR	
Compacted	Yes	No
	◆	
Tensile Grade N/mm²	1770	1960
	◆	◆
Finish	Bright	Galvanised
	◆	◆
Lay Direction	Right Hand	Left Hand
	◆	◆
Lay Type	Ordinary	Langs
	◆	
Average Fill Factor (%)	67.5	
Turn value at 20% of breaking force degrees/rope lay	58	
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.5 x NRD	
Discard Criteria	Refer to ISO 4309:1990	
Warning : Powerform® 6/6P in Langs lay must only be used in applications where both ends are secured and are unable to rotate.		

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1770 N/mm²		1960 N/mm²	
			kN	tonnes	kN	tonnes
10		46.4	69.5	7.1	85.7	8.7
11		56.1	83.8	8.5	98.6	10.1
12		66.8	100.0	10.2	114.0	11.6
	1/2	74.8	113.0	11.5	140.0	14.3
13		78.4	118.0	12.0	147.0	15.0
14		90.9	137.0	14.0	170.0	17.3
15		104.0	157.0	16.0	195.0	19.9
16	5/8	119.0	178.0	18.1	218.0	22.2
17		134.0	201.0	20.5	246.0	25.1
18		150.0	225.0	22.9	276.0	28.1
19	3/4	168.0	251.0	25.6	304.0	31.0
20		186.0	278.0	28.3	335.0.	34.1
22		225.0	336.0	34.3	400.0	40.8
	7/8	229.0	343.0	35.0	408.0	41.6
24		267.0	400.0	40.8	489.0	49.8
	1	299.0	449.0	45.8	552.0	56.3
26		314.0	470.0	47.9	578.0	58.9
28		364.0	545.0	55.6	657.0	67.0
30		418.0	626.0	63.8	757.0	77.2
32	1-1/4	475.0	712.0	72.6	846.0	86.2
34		518.0	804.0	82.0	916.0	93.4
63		581.0	901.0	91.8	1065.0	109.0
38	1-1/2	647.0	1004.0	102.0	1165.0	119.0
40		717.0	1112.0	113.0	1295.0	132.0
42		790.0	1226.0	125.0	1425.0	145.0
44		867.0	1246.0	127.0	1505.0	153.0
46		948.0	1362.0	139.0	1665.0	170.0
48		1032.0	1483.0	151.0	1885.0	192.0
50		1120.0	1609.0	164.0	1975.0	201.0
52		1211.0	1741.0	177.0	2135.0	218.0
54		1306.0	1877.0	191.0	2325.0	237.0
56		1405.0	2019.0	206.0	2475.0	252.0
58		1507.0	2166.0	221.0	2650.0	270.0
60		1613.0	2317.0	236.0	2810.0	286.0

* Mass per unit length of POWERFORM 6P increases by approx. 3%

Note:
- Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.
- POWERFORM 6P ia available only for 16 mm and above on special request and prior confirmation.

Typical Applications

CONTAINER



MAIN HOIST
BOOM HOIST
TROLLEY

LATTICE BOOM



MAIN HOIST *
BOOM HOIST

DOCKSIDE



BOOM HOIST

STEELWORKS LADLE



MAIN HOIST

OFFSHORE PEDESTAL



BOOM HOIST

UNLOADER



MAIN HOIST
BOOM HOIST
RACKING

BOOM HOIST
MAIN HOIST
RACKING/ TROLLEY

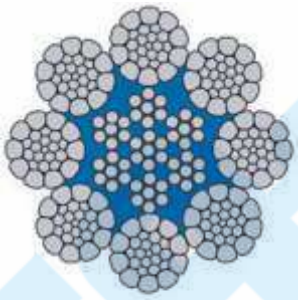
* For higher lifting heights a rotation resistant rope should be selected.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

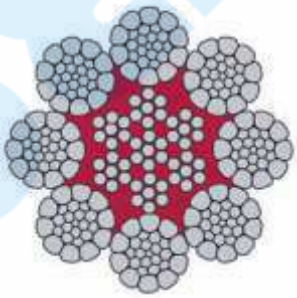
POWERFORM®8/8P

- Powerform® 8P is a high strength eight strand rope with plastic impregnated core ideal for situations where longer service life is required.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.
- High fatigue life resulting from the unique compaction process.
- Maximum resistance to crushing. Recommended for multi-layer spooling operations.
- Increased abrasion resistance resulting from the unique compaction process.
- Greater surface contact area resulting from the eight strand construction and compacted finish give longer rope life and reduced sheave wear.
- Fully lubricated in manufacturing.
- Optional plastic impregnation of the steel core. (P) signifies full plastic impregnation of the steel core.





Powerform® 8



Powerform® 8P

Standard Characteristics Powerform® 8/8P		
Construction	8xK26SW(10-5+5-5-1)-CWR 8xK36SW(14-7+7+7-1)-CWR	
Compacted	Yes	No
	◆	
Tensile Grade N/mm²	1960	2160
	◆	
Finish	Bright	Galvanised
	◆	◆
Lay Direction	Right Hand	Left Hand
	◆	◆
Lay Type	Ordinary	Langs
	◆	
Average Fill Factor (%)	65.5	
Turn value at 20% of breaking force degrees/rope lay	94	
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.5 x NRD	
Discard Criteria	Refer to ISO 4309:1990	
Warning : Powerform® 8/8P in Langs lay must only be used in applications where both ends are secured and are unable to rotate.		

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1960 N/mm²		2160 N/mm²	
			kN	tonnes	kN	tonnes
10		46.0	87.8	9.0	94	9.6
11		55.7	106.0	10.8	114	11.6
12		66.2	126.0	12.8	135	13.8
	1/2	74.2	142.0	14.5	152	15.5
13		77.7	148.0	15.1	159	16.2
14		90.2	172.0	17.5	184	18.8
15		104.0	198.0	20.2	211	21.5
16	5/8	118.0	225.0	22.9	241	24.6
17		133.0	254.0	25.9	272	27.7
18		149.0	284.0	29.0	304	31.0
19	3/4	166.0	317.0	32.3	339	34.6
20		184.0	351.0	35.8	376	38.3
22		223.0	425.0	43.3	455	46.4
	7/8	227.0	434.0	44.2	464	47.3
24		265.0	506.0	51.6	541	55.1
	1	297.0	567.0	57.8	606	61.8
26		318.0	594.0	60.6	635	64.7
28		368.0	688.0	70.1	737	75.1
	1-1/8	384.0	717.0	73.1	767	78.2
30		423.0	790.0	80.5	846	86.2
32	1-1/4	481.0	899.0	91.6	960	97.9
34		543.0	1013.0	103.0	1083	110.0
63		609.0	1138.0	116.0	1218	124.0
38	1-1/2	679.0	1268.0	129.0	1357	138.0
40		752.0	1405.0	143.0	1503	153.0
42		847.0	1535.0	156.0	1651	168.0
44		929.0	1700.0	173.0	1819	185.0
	1-3/4	948.0	1735.0	177.0	1856	189.0
46		1016.0	1858.0	189.0	1985	202.0
48		1106.0	2023.0	206.0	2162	220.0
50		1200.0	2200.0	224.0	2349	239.0
	2	1239.0	2266.0	231.0	2425	247.0
52		1298.0	2374.0	242.0	2541	259.0

* Mass per unit length of POWERFORM 8P increases by 3%

Note:
- Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.
- POWERFORM 8P is available for rope diameter 16 mm and above on special request and prior confirmation.

Typical Applications

CONTAINER



MAIN HOIST
BOOM HOIST
TROLLEY

LATTICE BOOM



BOOM HOIST

DOCKSIDE



BOOM HOIST

OFFSHORE PEDESTAL



BOOM HOIST

UNLOADER



MAIN HOIST
BOOM HOIST
RACKING

SWIMGRAB



BOOM HOIST

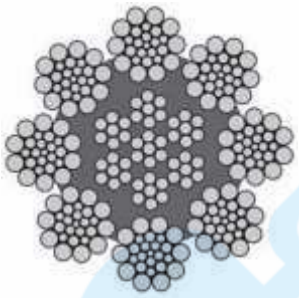
BOOM HOIST
MAIN HOIST
RACKING/ TROLLEY

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

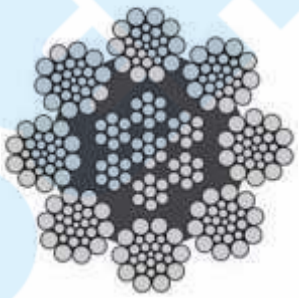
HYFLEX 8/8P

- Hyflex 8P is a flexible high strength eight strand steel wire rope with plastic impregnated core.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.
- Good bending fatigue life.
- Greater surface contact area resulting from the eight strand construction.
- Fully lubricated in manufacturing.
- Optional plastic impregnation of the steel core. (P) signifies full plastic impregnation of the steel core.





Hyflex 8



Hyflex 8P

Standard Characteristics Hyflex 8/8P		
Construction	8x26SW(10-5+5-5-1)-CWR 8x36SW(14-7+7-7-1)-CWR	
Compacted	Yes	No
		◆
Tensile Grade N/mm^2	1960	2160
	◆	
Finish	Bright	Galvanised
	◆	◆
Lay Direction	Right Hand	Left Hand
	◆	◆
Lay Type	Ordinary	Langs
	◆	
Average Fill Factor (%)	59.8	
Turn value at 20% of breaking force degrees/rope lay	87	
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.5 x NRD	
Discard Criteria	Refer to ISO 4309:1990	
Warning : Hyflex 8/8P in Langs lay must only be used in applications where both ends are secured and are unable to rotate.		

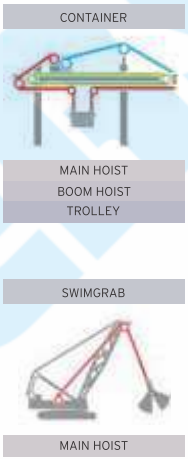
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1960 N/mm2		2160 N/mm2	
			kN	tonnes	kN	tonnes
10		43.5	72.9	7.4	81.4	8.3
11		52.6	86.1	8.8	96.5	9.8
12		62.6	105	10.7	117.0	11.9
	1/2	70.2	123	12.5	131.0	13.4
13		73.5	124	12.6	138.0	14.1
14		85.3	143	14.6	160.0	16.3
15		97.9	164	16.7	183.0	18.7
16	5/8	111.0	187	19.1	208.0	21.2
17		126.0	211	21.5	239.0	24.4
18		141.0	239	24.4	267.0	27.2
19	3/4	157.0	269	27.4	300.0	30.6
20		174.0	295	30.1	331.0	33.7
22		211.0	356	36.3	400.0	40.8
	7/8	215.0	360	36.7	402.0	41.0
24		251.0	423	43.1	475.0	48.4
	1	281.0	470	47.9	525.0	53.5
26		297.0	500	51.0	562.0	57.3
28		345.0	572	58.3	642.0	65.4
	1-1/8	359.0	596	60.8	665.0	67.8
30		396.0	656	66.9	733.0	74.7
32	1-1/4	451.0	747	76.1	836.0	85.2
34		509.0	843	85.9	945.0	96.3
36		570.0	935	95.3	1053.0	107.0
38	1-1/2	635.0	1043	106.0	1172.0	119.0
40		704.0	1162	118.0	1313.0	134.0
42		785.0	1305	133.0	1462.0	149.0
44		862.0	1412	144.0	1577.0	161.0
	1-3/4	879.0	1441	147.0	1613.0	164.0
46		942.0	1543	157.0	1731.0	176.0
48		1025.0	1680	171.0	1885.0	192.0
50		1113.0	1833	187.0	2065.0	210.0
	2	1148.0	1882	192.0	2101.0	214.0
52		1203.0	1972	201.0	2202.0	224.0

* Mass per unit length of HYFLEX 8P increases by approx. 3%

Note:
- Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.
- HYFLEX 8P ia available for rope diameter 16 mm and above on special request and prior confirmation.

Typical Applications

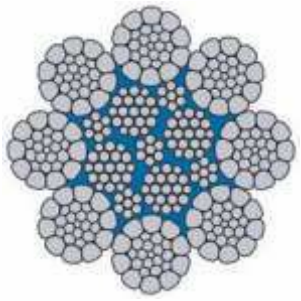


BOOM HOIST
MAIN HOIST
TROLLEY

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

POWERFORM®8PC

- Powerform® 8PC is a high strength parallel closed steel wire rope.
- High fatigue life resulting from the unique compaction process and the parallel closed construction.
- Maximum resistance to crushing. Recommended for multi-layer spooling operations.
- Increased abrasion resistance resulting from the unique compaction process.
- Greater surface contact area resulting from the eight strand construction and compacted finish give longer rope life and reduced sheave wear.
- Fully lubricated in manufacturing.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.



Powerform® 8PC



Standard Characteristics Powerform® 8PC			
Construction	5mm-9mm	8xK7-CWRP(F4x7-4x7-1x7)	
	10mm-50mm	8xK26SW-CWRP (F4x7-4x19W-1x7)	
Compacted		Yes	No
		◆	
Tensile Grade N/mm²		1960	2160
			◆
Finish		Bright	Galvanised
		◆	◆
Lay Direction		Right Hand	Left Hand
		◆	◆
Lay Type		Ordinary	Langs
		◆	
Average Fill Factor (%)		70.5	
Turn value at 20% of breaking force degrees/rope lay		64	
Nominal rope lay length (NRD = Nominal Rope Diameter)		6.5 x NRD	
Discard Criteria		Refer to ISO 4309:1990	

Warning : Powerform® 8PC must only be used in applications where both ends of the rope are secured and unable to rotate.

Powerform® 8PC should not be used in any reeving system where the fleet angle exceeds 1.5 degrees.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1960 N/mm²		2160 N/mm²	
			kN	tonnes	kN	tonnes
8		31.7	60.5	6.2	66.5	6.8
9		40.1	76.6	7.8	84.2	8.6
10		49.5	94.7	9.7	103.0	10.5
11		59.9	112.0	11.4	121.0	12.3
12		71.3	138.0	14.1	150.0	15.3
	1/2	79.8	152.0	15.5	164.0	16.7
13		83.7	159.0	16.2	172.0	17.5
14		97.0	181.0	18.5	197.0	20.1
15		111.0	213.0	21.7	232.0	23.6
16	5/8	127.0	239.0	24.4	260.0	26.5
17		143.0	269.0	27.4	292.0	29.8
18		160.0	300.0	30.6	326.0	33.2
19	3/4	179.0	341.0	34.8	371.0	37.8
20		198.0	375.0	38.2	408.0	41.6
22		240.0	448.0	45.7	487.0	49.6
	7/8	245.0	457.0	46.6	497.0	50.7
24		285.0	527.0	53.7	574.0	58.5
	1	319.0	592.0	60.3	646.0	65.9
26		335.0	620.0	63.2	677.0	69.0
28		388.0	735.0	74.9	801.0	81.7

Note: Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

Typical Applications

CONTAINER



TROLLEY

LATTICE



BOOM HOIST

DOCKSIDE



BOOM HOIST

OFFSHORE PEDESTAL



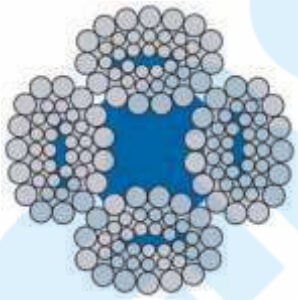
BOOM HOIST

BOOM HOIST ■
TROLLEY ■

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

HYFLEX 4

- Rugged 4 strand steel wire rope.
- Good rotation resistance.
- Recommended for severe applications.
- Fully lubricated in manufacturing.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.



Hyflex 4

Standard Characteristics Hyflex 4		
Construction	4x39(15-15/9-CFS)-CFS	
Compacted	Yes	No
		◆
Tensile Grade N/mm^2	1770	1960
		◆
Finish	Bright	Galvanised
	◆	
Lay Direction	Right Hand	Left Hand
	◆	
Lay Type	Ordinary	Langs
	◆	
Average Fill Factor (%)	50.8	
Discard Criteria	Refer to ISO 4309:1990	
Warning : Hyflex 4 in Langs lay must only be used in applications where both ends are secured and are unable to rotate.		



SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1770 N/mm²		1960 N/mm²	
			kN	tonnes	kN	tonnes
10		44.8	64.0	6.5	69.4	7.1
12		65.4	92.3	9.4	99.9	10.2
14		88.8	125.5	12.8	136.5	13.9
16	5/8	117.0	164.5	16.8	177.4	18.1
18		149.0	207.5	21.2	224.5	22.9
19	3/4	167.0	231.5	23.6	250.5	25.5
20		183.0	256.5	26.2	277.5	28.3
22		214.0	310.0	31.6	336.0	34.3
	7/8	218.0	317.0	32.3	343.0	35.0
24		253.0	369.0	37.6	400.0	40.8
25		275.0	399.0	40.7	432.0	44.1
	1	284.0	413.0	42.1	448.0	45.7
26		298.0	433.0	44.2	469.0	47.8
28		346.0	502.0	51.2	544.0	55.5
30		398.0	576.0	58.7	624.0	63.6
32	1.1/4	456.0	656.0	66.9	689.0	70.3
34		512.0	740.0	75.5	802.0	81.8
63		574.0	830.0	84.6	898.0	91.6
38	1.1/2	640.0	924.0	94.2	1002.0	102.0
40		709.0	1002.0	102.0	1082.0	110.0
42		782.0	1102.0	112.0	1192.0	122.0
44		859.0	1212.0	124.0	1312.0	134.0
45		898.0	1272.0	130.0	1372.0	140.0

Note: Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

Typical Applications

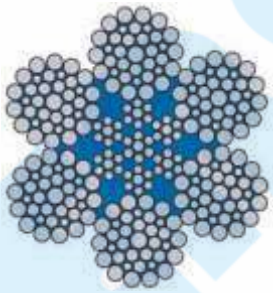


BOOM HOIST
MAIN HOIST

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

HYFLEX 6X36

- High quality flexible 6x36 class crane rope.
- Consistent performance.
- Fully lubricated in manufacturing.
- Independent wire rope core.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.
- Supplied in high strength 1960N/mm² tensile steel as standard.



Hyflex 6x36

Standard Characteristics Hyflex 6X36		
Construction	6X36(14-7+7-7-1)-CWR 6x41(16-8+8-8-1)-CWR	
Compacted	Yes	No
		◆
Tensile Grade N/mm²	1770	1960
		◆
Finish	Bright	Galvanised
	◆	◆
Lay Direction	Right Hand	Left Hand
	◆	◆
Lay Type	Ordinary	Langs
	◆	
Average Fill Factor (%)	60.9	
Turn value at 20% of breaking force degrees/rope lay	56	
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.5 x NRD	
Discard Criteria	Refer to ISO 4309:1990	
Warning : Hyflex 6x36 in Langs lay must only be used in applications where both ends are unable to rotate.		



Fiber core breaking load in 8% less than steel core.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1770 N/mm²		1960 N/mm²	
			kN	tonnes	kN	tonnes
8		26.1	40.3	4.1	44.7	4.6
9		33.2	51.0	5.2	56.5	5.8
10		40.8	63.0	6.4	69.8	7.1
11		49.4	76.2	7.8	84.4	8.6
12		58.8	90.7	9.2	101.0	10.3
	1/2	66.0	102.0	10.4	113.0	11.5
13		69.2	107.0	10.9	118.0	12.0
14		80.2	124.0	12.6	137.0	14.0
16	5/8	104.0	161.0	16.4	179.0	18.3
18		132.0	204.0	20.8	226.0	23.0
20		163.0	252.0	25.7	279.0	28.4
22		197.0	305.0	31.1	338.0	34.5
	7/8	201.0	311.0	31.7	345.0	35.2
24	15/16	235.0	363.0	37.0	402.0	41.0
	1	263.0	407.0	41.5	450.0	45.9
26		276.0	426.0	43.4	472.0	48.1
28		320.0	494.0	50.4	547.0	55.8
32	1.1/4	418.0	645.0	65.8	715.0	72.9
63		531.0	817.0	83.3	904.0	92.2
40		655.0	1010.0	103.0	1120.0	114.0
44		793.0	1220.0	124.0	1350.0	138.0
48	1.7/8	943.0	1450.0	148.0	1610.0	164.0
52		1111.0	1700.0	173.0	1890.0	193.0
56		1281.0	1980.0	202.0	2190.0	223.0
60	2.3/8	1471.0	2270.0	231.0	2510.0	256.0

Note: Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

Typical Applications

CONTAINER



MAIN HOIST
BOOM HOIST
TROLLEY

LATTICE BOOM



MAIN HOIST *

STEELWORKS LADLE



MAIN HOIST

UNLOADER



MAIN HOIST
BOOM HOIST
RACKING

BOOM HOIST
MAIN HOIST
RACKING/ TROLLEY

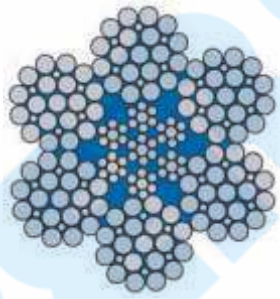
* For higher lifting heights a rotation resistant rope should be selected.

Fiber core breaking load in 8% less than steel core.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

HYFLEX 6X19

- High quality flexible 6x19 class crane rope.
- Good resistance to abrasion.
- Consistent performance.
- Fully lubricated in manufacturing.
- Independent wire rope core.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.



Hyflex 6x19

Standard Characteristics Hyflex 6X19		
Construction	6x19S(9-9-1)-CWR 6x19W(6+6-6-1)-CWR 6x25F(12-6F-6-1)-CWR 6x26SW(10-5+5-5-1)-CWR	
Compacted	Yes	No
		◆
Tensile Grade N/mm^2	1770	1960
		◆
Finish	Bright	Galvanised
	◆	◆
Lay Direction	Right Hand	Left Hand
	◆	◆
Lay Type	Ordinary	Langs
	◆	
Average Fill Factor (%)	59.6	
Turn value at 20% of breaking force degrees/rope lay	42	
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.5 x NRD	
Discard Criteria	Refer to ISO 4309:1990	
Warning : Hyflex 6x19 in Langs lay must only be used in applications where both ends are unable to rotate.		



Fiber core breaking load in 8% less than steel core.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED & UNGALVANISED ROPE GRADE			
			1770 N/mm²		1960 N/mm²	
			kN	tonnes	kN	tonnes
6		14.3	22.7	2.3	25.1	2.6
7		19.5	30.9	3.1	34.2	3.5
8		25.5	40.3	4.1	44.7	4.6
9		32.2	51.0	5.2	56.5	5.8
10		39.8	63.0	6.4	69.8	7.1
11		48.2	76.2	7.8	84.4	8.6
12		57.3	90.7	9.3	101.0	10.3
	1/2	64.2	102.0	10.4	113.0	11.5
13		67.3	107.0	10.9	118.0	12.0
14		78.0	124.0	12.6	137.0	14.0
16	5/8	102.0	161.0	16.4	179.0	18.3
18		129.0	204.0	20.8	226.0	23.0
20		159.0	252.0	25.7	279.0	28.4
22		193.0	305.0	31.1	338.0	34.5
	7/8	197.0	311.0	31.7	345.0	35.2
24	15/16	229.0	363.0	37.0	402.0	41.0
	1	257.0	407.0	41.5	450.0	45.9
26		269.0	426.0	43.4	472.0	48.1
28		312.0	494.0	50.4	547.0	55.8
32	1.1/4	408.0	645.0	65.8	715.0	72.9
63		516.0	817.0	83.3	904.0	92.2
40		637.0	1010.0	103.0	1120.0	114.0
44		771.0	1220.0	124.0	1350.0	138.0
48	1.7/8	917.0	1450.0	148.0	1610.0	164.0
52		1076.0	1700.0	173.0	1890.0	193.0
56		1248.0	1980.0	202.0	2190.0	223.0
60		1433.0	2270.0	231.0	2510.0	256.0

Note: Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

Typical Applications



BOOM HOIST ■

Fiber core breaking load in 8% less than steel core.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

HYFLEX 6X29Fi

- High quality flexible crane rope.
- Consistent performance.
- Fully Lubricated in manufacturing.
- Independent wire rope core.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.



Hyflex 6X29Fi

Standard Characteristics Hyflex 6X29Fi		
Construction	6X29F(14-7F-7-1)-CWR	
Compacted	Yes	No
		◆
Tensile Grade N/mm^2	1620	1770
		◆
Finish	Bright	Galvanised
	◆	
Lay Direction	Right Hand	Left Hand
	◆	◆
Lay Type	Ordinary	Langs
	◆	
Average Fill Factor (%)	61.2	
Turn value at 20% of breaking force degrees/rope lay	52	
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.5 x NRD	
Discard Criteria	Refer to ISO 4309:1990	
Standard	JIS G. 3525	
Warning : Hyflex 6x29Fi in Langs lay must only be used in applications where both ends are unable to rotate.		

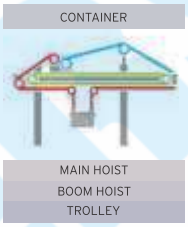


SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

NOM. ROPE DIA. mm	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED AND UNGALVANISED	
		1620 N/mm2	1770 N/mm2
		GRADE A	GRADE B
		kN	kN
10	44	63.6	67.7
11.2	55.2	79.8	84.9
12.5	68.8	99.4	106.0
14	86.3	125.0	133.0
16	113.0	163.0	173.0
18	143.0	206.0	219.0
20	176.0	254.0	271.0
22.4	221.0	319.0	340.0
25	275.0	398.0	423.0
28	345.0	499.0	531.0
30	396.0	573.0	609.0
31.5	437.0	631.0	672.0
33.5	494.0	714.0	760.0
35.5	555.0	802.0	853.0
37.5	619.0	895.0	952.0
40	704.0	1020.0	1080.0
42.5	795.0	1150.0	1220.0
45	891.0	1290.0	1370.0
47.5	993.0	1440.0	1530.0
50	1100.0	1590.0	1690.0
53	1240.0	1790.0	1900.0
56	1380.0	2000.0	2120.0
60	1580.0	2290.0	2440.0

Note: Rope Sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.

Typical Applications



BOOM HOIST
MAIN HOIST
TROLLEY

SAFETY INFORMATION

- Wire rope will fail if worn out, shock loaded, overloaded, misused, damaged, improperly maintained or abused.
- Always inspect wire rope for wear, damage or abuse before use.
- Never use a wire rope which is worn out, damaged, corroded or abused.
- Never overload or shock load a wire rope.
- Use the correct design factor for the application.
- Inform yourself : Read and understand the machinery manufacturers handbook and guidance from the wire rope manufacturer.
- Refer to applicable directives, regulations, standards and codes concerning inspection, examination and rope removal criteria.

All statements, technical information and recommendations contained herein are believed to be reliable, but no guarantee is given as to their accuracy and/or completeness. The user must determine the suitability of the product for his own particular purpose, either alone or in combination with other products and shall assume all risk and liability in connection therewith.

Whilst every attempt has been made to ensure accuracy in the content of the tables, the information contained in this catalogue does not form any part of a contract.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

METRIC – IMPERIAL DIAMETER CONVERSION

in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	mm.
5/32	3.97	1/2	12.7	15/16	23.8	1 1/2	38.1	2 1/2	63.5	4 1/4	108.0
3/16	4.76	9/16	14.3	1	25.4	1 5/16	41.3	2 3/4	69.9	4 1/2	114.3
7/32	5.56	5/8	15.9	1 1/16	27.0	1 3/4	44.5	3	76.2	4 3/4	120.7
1/4	6.35	11/16	17.5	1 1/8	28.6	1 7/8	47.6	3 1/4	82.6	5	127.0
5/16	7.94	3/4	19.0	1 3/16	30.2	2	50.8	3 1/2	88.9		
3/8	9.53	13/16	20.6	1 1/4	31.8	2 1/8	54.0	3 3/4	95.3		
7/16	11.1	7/8	22.2	1 3/8	34.9	2 1/4	57.2	4	101.6		

CONVERSION TABLE

Length	1m	= 1000 mm	= 3,281ft	= 39,37 inch
Force	1kN	= 101,97kp	= 0,10197 t metric-f	= 224lbs-f
Tensile Strength	1N/mm^2	= 0,10197 kp/mm^2	= 145,04 p.s.i.	= 10 bar
Cross Section	1 mm^2	= 0,00155 sq.inch		
Weight	1 metric t	= 1000 kg = 1,102 short t	= 0,9842 long t	= 2204,6 lbs
Weight per Length Unit	1 kg/m	= 0,672 lbs/ft		

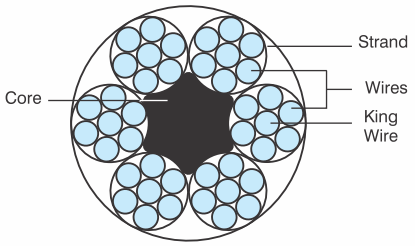
KEY TO ABBREVIATIONS

K	Compacted
P/PI	Full Plastic Impregnation of the Steel Core
S	Seale Construction
W	Warrington Construction
SW	Seale Warrington Construction
CWS	Wire Strand Core
CWR	Wire Rope Core
CFS	Core man made fibre (Poly)
CWRP	Core Strand closed parallel with outer strands of rope

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Wire Rope Components

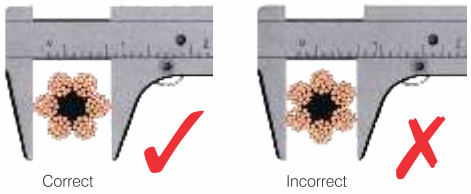
- Wire
- Strand
- Core



WIRE ROPE

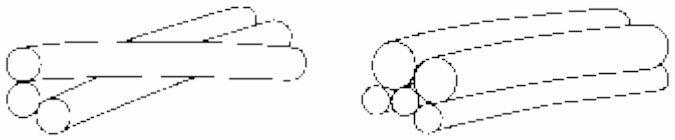
Rope Size

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



Method of Measuring Rope Diameter

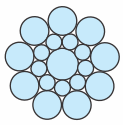
Fundamental Constructions


Cross Lay — Equal Lay


Single Layer

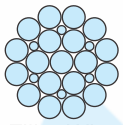
Single Layer

- Single wire centre with six wires of the same diameter


Seale

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

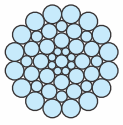
Filler Wire

- 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

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 wire rest in the valleys and the smaller ones on the crowns of the inner layer


Combined

Combined

- 1Combination of above constructions. e.g. Seale-Filler, Warrington-Seale etc.

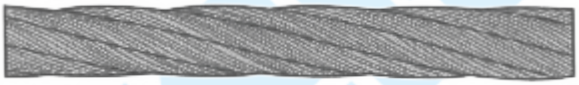
Authorised Distributor
usha martin

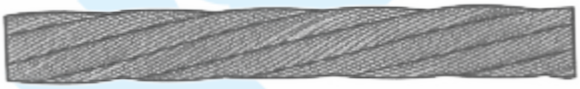
LAY

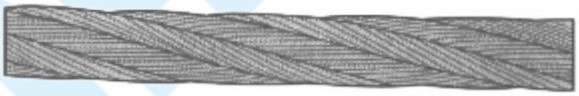
Direction of Wire & Strand Helix


Right Hand Regular Lay (RHRL/RHO/sZ)


Left Hand Regular Lay (LHRL/LHO/zS)


Right Hand Langs Lay (RHLL/RHL/zZ)

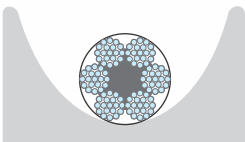

Left Hand Langs Lay (LHLL/LHL/sS)

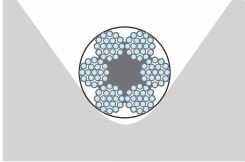

Alternate Lay (Combination of Langs & Regular)

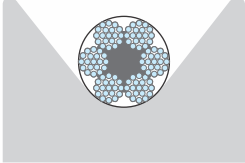

Special Alternate Lay (2 Langs 1 Regular)

Ideal Pulley Groove

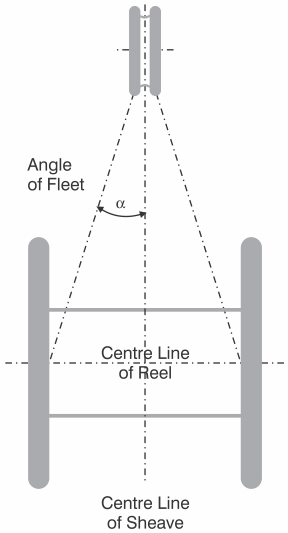
Greater contact area between the rope and the pulley reduces abrasion and enhances service life.


Wrong
Sheave groove too wide


Wrong
Sheave groove too narrow


Right
Sheave groove of correct size

FLEET ANGLE

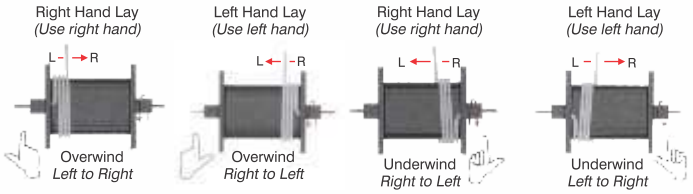


Note:
Recommended angle
Grooved drum: $\alpha \leq 2.5°$
Flat drum: $0.5° \leq \alpha \leq 1.5°$

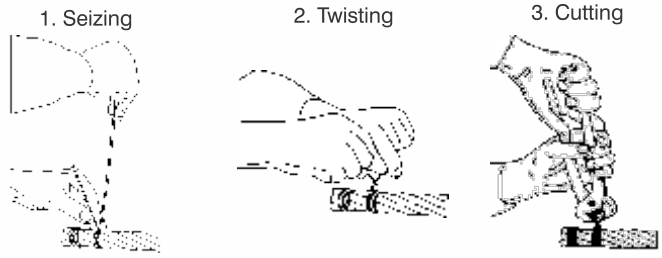
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Spooling / Anchorage of Rope on Drum

- Ropes are supplied with zero internal torque
- Improper spooling induces torque in rope, reducing rope life



Rope Cutting Procedure

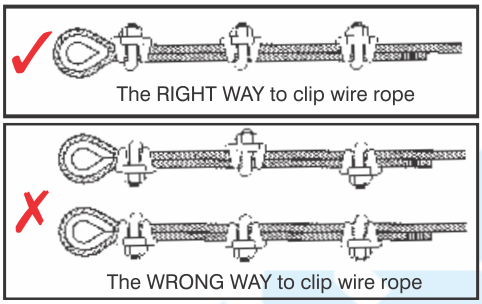


Note:

Seizing wire recommendation

- for ungalvanised rope, use annealed wire
- for galvanised rope, use soft, zinc-coated wire
- Diameter of wire: 8 - 24 mm = 1 mm
  26 - 36 mm = 1.6 mm
  38 - 56 mm = 2 mm
- Recommendedsizing length. = 1xdmin or 10 wraps

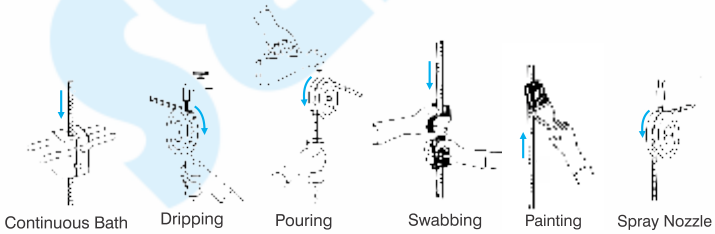
Rope Clamping

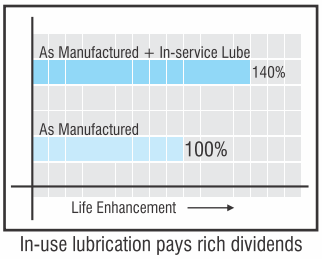


Note:
Improper fixing of clamps may lead to safety hazards. For proper clamping standards, refer applicable standards or OEM recommendations.

In-Use Lubrication

- Usha Martin ropes are supplied with a special lubricant
- Periodic lubrication during usage is necessary to derive enhanced performance

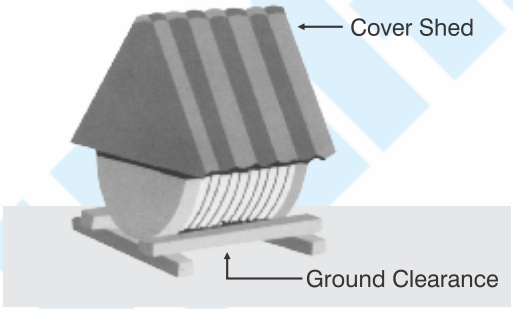




In-use lubrication pays rich dividends

Storage

- Must be stored in a well ventilated shed
- Free from moisture, dust and fumes
- Suitable lubricant to be applied every 3 months to the outer layers
- Reel containing ropes to be rolled through 90 degree after every 3 months
- Protect wooden reels from the attack of termites
- In no case should the reels be put on the ground or uncemented floor



TYPES OF TYPICAL FAILURE



Authorised Distributor

usha martin

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Wire Ropes

DISCARD CRITERIA

- For single-layer construction, if the reduction in diameter is greater than 8% (eg. 6x7).
- For multiplayer construction, if the reduction in diameter is greater than 5% (eg. 6x19, 6x36 etc.)
- Total no. of visible broken wires exceed 10% of total no. of wires in the rope, in a length of 8 x dia. of rope or 3 or more adjacent broken wires in a strand.
- Evidence of considerable plastic wear or surface embrittlement.
- Localised distortion, damage or kink, bird-caging, crushing.
- Localised diameter reduction or lay variation associated with waviness.
- Collapsed core or one strand broken coupled with wire looseness and bulging.
- Corrosion / chain pitting and associated fatigue of wires.
- Damage due to heat / fire.
- Rope has been subjected to severe shock load or overload due to some accident with equipments.
- End-fitting / attachments damaged or cracked or deformed or worn out.

Note:
The inspector should also refer to International Standards like ISO 4309 and BS 6570 or any other relevant standard for the purpose, as a tool, for discarding a wire rope.

RECOMMENDED DO'S & DON'TS

DO'S

- Lubricate ropes with good quality acid free and moisture free lubricant.
- Regularly inspect the sheaves, rollers or pulleys, the life of a rope largely depends on their conditions.
- Inspect ropes and fittings/terminations periodically.

DON'T'S

- Do not allow ropes in store to deteriorate
- Do not mishandle ropes when uncoiling or unreeling and allow kinks to form.
- Do not use Langs lay with a swivel
- Do not use a rope with too large groove diameter on drums and pulleys.
- Do not cut a rope without seizing.
- Do not use rope which is not sufficiently flexible for the size of drum or pulley.
- Do not load the rope beyond its safe working load. Reduction of safety factor may jeopardise not only rope, but also equipment, job and men.

Note:
Remember - Care in handling, installation, and careful inspection gives more life and enormous dividends.

SAFETY INFORMATION

- ▲Wire rope will fail if worn out, shock loaded, overloaded, misused, damaged, improperly maintained or abused.
- ▲Always inspect wire rope for wear, damage or abuse before use.
- ▲Never use a wire rope which is worn out, damaged, corroded or abused.
- ▲Never overload or shock load a wire rope.
- ▲Use the correct design factor for the application.
- ▲Inform yourself : Read and understand the machinery manufacturers handbook and guidance from the wire rope manufacturer.
- ▲Refer to applicable directives, regulations, standards and codes concerning inspection, examination and rope removal criteria.

Specimen copy of original Usha Martin wire rope test certificate


usha martin

SPECIMEN

HOW TO IDENTIFY USHA MARTIN ROPE



Every genuine Usha Martin rope has this identification tape inside

Always order from authorised dealer

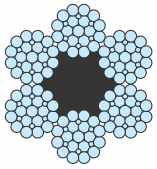

usha martin

USHA MARTIN LIMITED

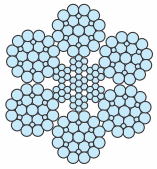
DEALERSHIP CERTIFICATE

This is to certify that M/s. SEA LINKERS PVT. LTD. with their office at BPT PLOT NO.107, QUAY ROAD, DARUKHANA, MUMBAI 400010 have been authorised by us to deal in and exclusively source wire rope & accessories manufactured and supplied by us. This certificate is valid up to 31st MARCH 2007

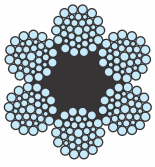
Place KOLKATA Date 1st APRIL 2006 Authorised Signatory



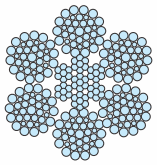
ROUND STRAND (Fibre Core)
6/19F (12-6F+6-1) Page # 4



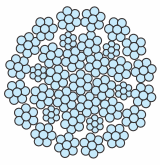
ROUND STRAND (Steel Core)
6/19F (12-6F+6-1) Page #4



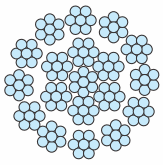
ROUND STRAND (Fibre Core)
6/36SW (14-7+7-7-1) Page #4



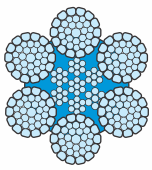
ROUND STRAND (Steel Core)
6/36SW (14-7+7-7-1) Page # 5



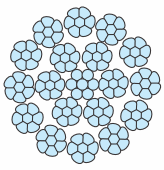
HYFLEX 35
Page # 5



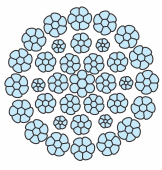
HYFLEX 18
Page # 5



POWERFORM 6P
Page # 6



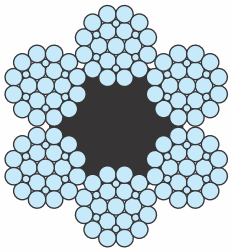
POWERFORM 18
Page # 6



POWERFORM 35
Page # 6

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

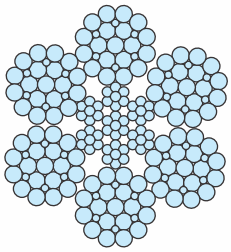
Wire Ropes



ROUND STRAND
(Fibre Core) 6/19F (12-6F+6-1)

NOM. ROPE DIA.	APPROX. MASS	MINIMUM BREAKING FORCE
	Kg/100m	1960N/mm²
mm	FIBRE CORE	kN
8	24	42
10	38	66
12	55	95
13	64	112
14	75	130
16	97	169
18	123	214
19	137	239
20	152	265
22	184	320
24	219	381
26	257	447
28	298	519
32	389	678
34	439	765
36	493	858
38	549	956
40	608	1059
44	736	1281
46	804	1401
48	876	1525
52	1028	1790
58	1279	2227
60	1369	2383
64	1557	2711

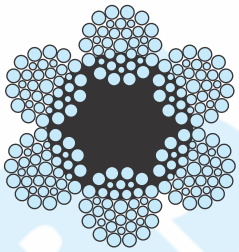
Note: All intermediate sizes also available.



ROUND STRAND (Steel Core)
IWRC 6/19F (12-6F+6-1)

NOM. ROPE DIA.	APPROX. MASS	MINIMUM BREAKING FORCE
	Kg/100m	1960N/mm²
mm	STEEL CORE	kN
8	27	46
10	42	71
12	60	103
13	71	121
14	82	140
16	107	183
18	135	232
19	151	258
20	167	286
22	202	346
24	241	412
26	283	483
28	328	560
32	428	732
34	484	826
36	542	926
38	604	1032
40	669	1144
44	810	1384
46	885	1513
48	964	1647
52	1131	1933
58	1407	2403
60	1506	2573
64	1714	2928

Note: All intermediate sizes also available.



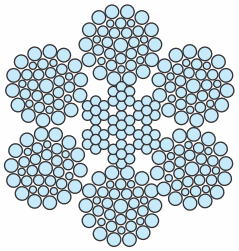
ROUND STRAND (Fibre Core)
6/36SW (14-7+7-7-1)

NOM. ROPE DIA.	APPROX. MASS	MINIMUM BREAKING FORCE
	Kg/100m	1960N/mm²
mm	STEEL CORE	kN
8	24	41
9	31	53
10	38	65
11	46	79
12	55	93
13	64	110
14	75	127
16	97	166
18	123	209
20	152	259
22	184	313
24	219	372
25	238	406
28	298	507
32	389	662
36	493	838
38	549	934
40	608	1035
44	736	1252
46	804	1375
48	876	1490
52	1030	1748
56	1190	2028
60	1369	2328
64	1557	2648

Note:
- All intermediate sizes also available.
- Sizes from 8-16 mm available by 6/31 SW and 6/36 SW

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

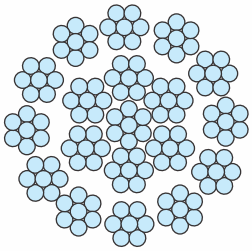
Wire Ropes



ROUND STRAND (Steel Core)
IWRC 6/36SW (14-7+7-7-1)

NOM. ROPE DIA.	APPROX. MASS	MINIMUM BREAKING FORCE
	Kg/100m	1960N/mm²
mm	STEEL CORE	kN
8	27	45
9	34	57
10	42	70
11	51	85
12	60	101
13	71	118
14	82	137
16	107	179
18	135	226
19	153	240
20	167	279
22	202	338
24	241	402
25	262	436
28	328	548
32	428	715
36	542	905
38	604	1008
40	669	1117
44	810	1352
46	885	1478
48	964	1609
52	1130	1888
56	1310	2190
58	1405	2349
60	1506	2514
76	2415	4034
80	2675	4469

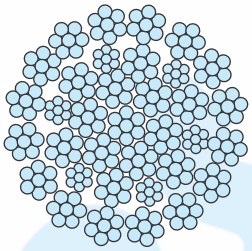
Note:
- All intermediate sizes also available.
- The following construction holds good for the above chart: 6x41/6x47/6x43/6x49/6x52 SW - 38-90mm & 6x61SW - 57-125mm
- Sizes from 8-16 mm available in 6/31 SW and 6/36 SW



HYFLEX 18

NOM. ROPE DIA.	NOM. ROPE DIA.	APPROX. MASS	MINIMUM BREAKING FORCE
			1960N/mm²
mm	in	Kg/100m	kN
6		15	25
7		20	34
8		26	45
9		33	57
10		41	70
11		49	84
12		59	101
	1/2	66	113
13		69	118
14		80	137
15		91	157
16	5/8	104	180
17		117	203
18		132	226
	3/4	147	253
20		162	279
22		197	339
	7/8	201	346

Note: Rope sizes and breaking force not shown in standard table, may be available on request



HYFLEX 35

NOM. ROPE DIA.	NOM. ROPE DIA.	APPROX. MASS	MINIMUM BREAKING FORCE
			1960N/mm²
mm	in	Kg/100m	kN
10		45	76
12		65	107
	1/2	72	123
14		88	148
16	5/8	115	194
19	3/4	162	277
20		179	301
22		217	370
	7/8	221	376
24		258	441
	1	289	491
26		303	517
28		351	599
	1-1/8	366	621
30		403	679
32	1-1/4	459	769
35	1-3/8	549	945
36		581	983
38	1-1/2	647	1078
42		790	1227
44		867	1347
	1-3/4	885	1375
48		1032	1603
	2	1156	1796
52		1211	1881

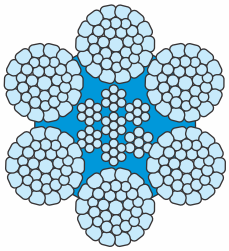
Note:
- 'P' signifies full plastic impregnation of the steel core.
- HYFLEX 35P is available on special request and prior confirmation.
- Rope sizes and Breaking Force not shown in the standard table, may be available on request and prior confirmation.
- Mass per unit length of HYFLEX 35P increases by approx. 3%

Authorised Distributor

usha martin

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

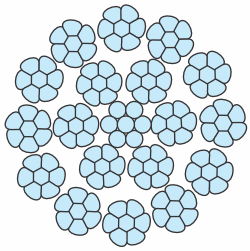
Wire Ropes



POWERFORM 6P

NOM. ROPE DIA.	NOM. ROPE DIA.	APPROX. MASS	MIN. BREAKING FORCE 1960N/mm²
mm	in	Kg/100m	kN
10		46	86
12		56	99
	1/2	75	140
13		78	147
14		91	170
16	5/8	119	218
18		150	276
19	3/4	168	304
20		186	335
22		225	400
	7/8	229	408
24		267	489
	1	299	552
28		364	657
32	1-1/4	475	846
34		518	916
36		581	1065
38	1-1/2	647	1165
40		717	1295
46		948	1665
48		1032	1885
50		1120	1975
52		1211	2135
56		1405	2475
58		1507	2650
60		1613	2810

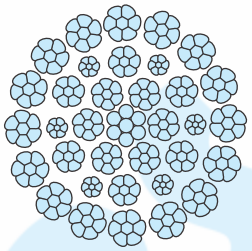
Note:
- 'P' signifies full plastic impregnation of the steel core.
- POWERFORM 6P is available only for 16mm and above.
  Rope sizes and MBL not shown in standard table, may be available on request.
- Mass per unit length of POWERFORM 6P increases by approx 3%



POWERFORM 18

NOM. ROPE DIA.	NOM. ROPE DIA.	APPROX. MASS	MINIMUM BREAKING FORCE 1960N/mm²
mm	in	Kg/100m	kN
6		18	29
7		24	38
8		31	52
9		39	65
10		49	81
11		59	101
12		70	116
	1/2	78	135
13		82	141
14		95	160
15		109	182
16	5/8	124	209
17		140	237
18		157	266
	3/4	175	291
20		194	320
22		235	379
	7/8	240	387
24		279	462
	1	313	517
26		328	542
28		380	632
30		437	721
32	1-1/4	497	820

Note:
- 'P' signifies full plastic impregnation of the steel core.
- Rope sizes and MBL not shown in standard table, may be available on request.



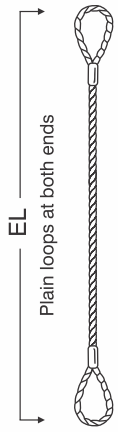
POWERFORM 35

NOM. ROPE DIA.	NOM. ROPE DIA.	APPROX. MASS	MINIMUM BREAKING FORCE 1960N/mm²
mm	in	Kg/100m	kN
	1/2	81	148
14		99	180
16	5/8	129	233
18		163	300
19	3/4	182	331
20		201	372
22		243	444
	7/8	249	453
24		290	531
	1	325	591
26		340	621
28		394	720
	1-1/8	411	748
30		453	827
32	1-1/4	515	944
35	1-3/8	616	1125
38	1-1/2	726	1326
40		805	1477
42		887	1485
	1-3/4	994	1646
46		1064	1765
48		1159	1935
	2	1298	2150
52		1360	2256

Note:
- POWERFORM 35P is available on special request.
- Rope sizes and MBL not shown in standard table, may be available on request.
- Mass per unit length of POWERFORM 35P increases by approx 3%

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Single Part Slings



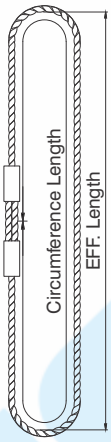
SPL-1



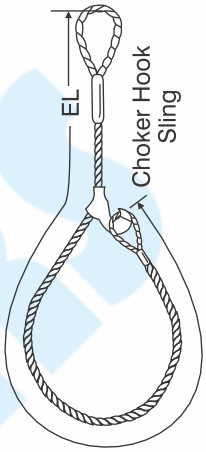
SPL-2



SPL-23

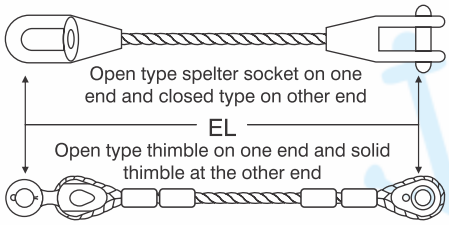


SPL-7



SPL-8

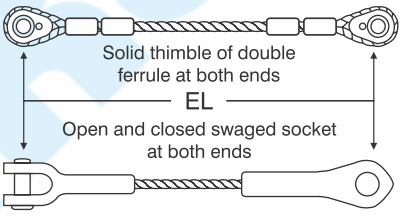
SPL-9



SPL-10

GANTRY ROPES APPLIED IN CRANES

SPL-11

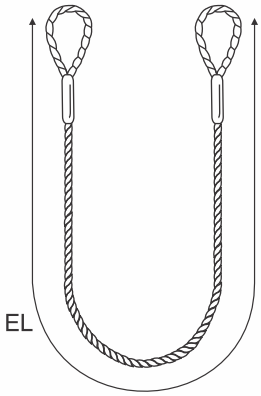


SPL-12

LOOP TYPE SINGLE PART SLINGS

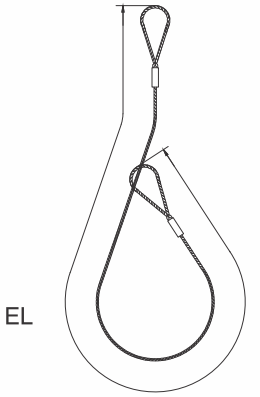
Max. Safe Working Load in Tons for 6 x 19, 6 x 36 Construction

Rope	Fibre Core			Steel Core		
Dia. (mm)	Vertical	Basket	Choker	Vertical	Basket	Choker
6	0.4	0.8	0.3	0.5	1.0	0.4
8	0.8	1.5	0.6	0.8	1.7	0.7
9	1.0	2.0	0.8	1.1	2.1	0.8
10	1.2	2.4	1.0	1.3	2.6	1.1
12	1.8	3.5	1.4	1.9	3.8	1.5
13	2.1	4.1	1.6	2.2	4.4	1.8
14	2.4	4.8	1.9	2.6	5.2	2.1
16	3.1	6.2	2.5	3.4	6.7	2.7
18	4.0	7.9	3.2	4.3	8.5	3.4
19	4.4	8.8	3.5	4.8	9.5	3.8
20	4.9	9.7	3.9	5.3	10.5	4.2
22	5.9	11.8	4.7	6.4	12.7	5.1
24	7.0	14.0	5.6	7.2	14.4	5.8
25	7.5	15.0	6.0	7.6	15.2	6.1
26	8.1	16.1	6.4	8.7	17.4	6.9
28	9.3	18.7	7.5	10.1	20.1	8.1
32	12.2	24.4	9.8	13.2	26.3	10.5
35	14.4	28.8	11.5	15.7	31.5	12.6
38	17.6	35.2	14.1	18.6	37.1	14.8
40	18.4	36.9	14.8	20.6	41.1	16.5
44	23.1	46.1	18.4	24.9	49.8	19.9
50	27.4	54.8	21.9	34.8	69.5	27.8
56	37.0	74.0	29.6	40.3	80.7	32.3
64	48.0	96.0	38.4	52.7	105.3	42.1
70	55.0	110.0	44.0	65.0	130.0	52.0



Basket Hitch

SPL-13



Choker Hitch

SPL-14

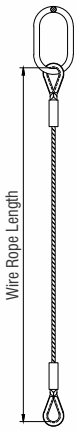
FACTOR OF SAFETY 5:1 TENSILE STRENGTH : 1770/1960 N/mm^2

Note: The capacity indicated in the above table, for basket hitch and choker hitch is for guidance only, vertical column is the actual load the slings can be tested and certified in other words safe working load is applicable for vertical lift only.

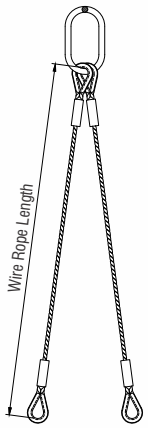
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Combinations of Multiple Leg Slings

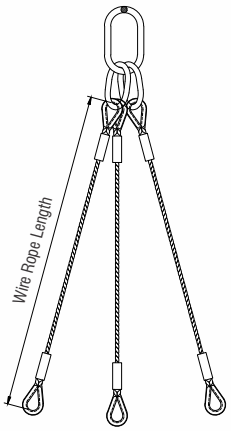
SPL-5B



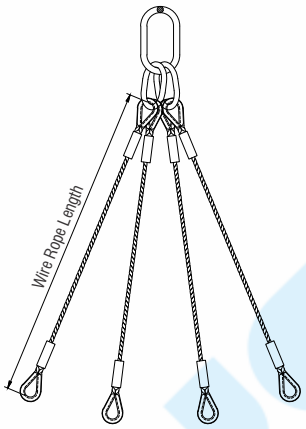
SPL-17B



SPL-24B

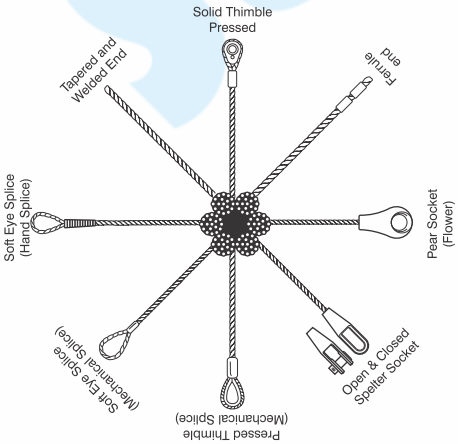


SPL-18B



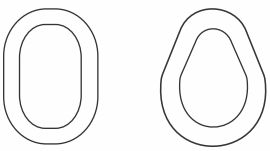
Leg wire rope sling with master link on top
Also available: nut bolt bow, round pin bow & screw pin d shackle,

WORE ROPE SLING CAPACITIES									12
WIRE ROPE IMPROOVED PLOW STEEL - IWRC - 6 X 19, 6 X 36 AND 8 X 36 FITTED WITH TURNBACK TERMINATION TENSILE STRENGTH 1770 kN/mm² DESIGN FACTOR 5/1									
WIRE ROPE SIZE		Crosby Q&T CARB. SHACKLE MIN. SHACKLE SIZE FOR A D/d >1 AT LOAD CONNECTION		ANGLE 120°	TWO LEG SLINGS				
MM	MBL (kN)	SHACHLE SIZE	VERTICAL (SINGEL LEG)	CHOKER	ß 0° - 45°	ß 45° - 60°	ß 0° - 45°	ß 45° - 60°	
8	40.3	3/8	.75	.60	1.05	.75	1.55	1.10	
10	63.0	7/16	1.15	.92	1.60	1.15	2.40	1.70	
12	90.7	1/2	1.70	1.36	2.30	1.70	3.55	2.50	
13	106	5/8	2.00	1.60	2.80	2.00	4.15	3.00	
14	124	5/8	2.25	1.80	3.15	2.25	4.80	3.40	
16	161	3/4	3.00	2.40	4.20	3.00	6.30	4.50	
18	204	7/8	3.70	2.96	5.20	3.70	7.80	5.65	
20	252	7/8	4.60	3.68	6.50	4.60	9.80	6.90	
22	305	1	5.65	4.52	7.80	5.65	11.80	8.40	
24	363	1-1/8	6.70	5.36	9.40	6.70	14.00	10.00	
26	426	1-1/8	7.80	6.24	11.00	7.80	16.50	11.50	
28	494	1-1/4	9.00	7.20	12.50	9.00	19.00	13.50	
32	645	1-3/8	11.80	9.44	16.50	11.80	25.00	17.50	
36	817	1-1/2	15.00	12.00	21.00	15.00	31.50	22.50	
RATED CAPACITIES (t) BASED ON PIN DIAMETER OR HOOK NO LARGER THAN THE NATURAL EYE WIDTH (1/2 X EYE LENGTH) OR LESS THAN THE NOMILAN SLING DIAMETER. TURNBACK EFFICIENCY : k = 0,9 FLEMISH EYE TERMINATION OFFERS A HIGHER EFFICIENCY									
REFER TO prEN 13414-1 FOR FULL DETAILS VERTICAL SLING ANGLES GREATER THAN 60° ARE NOT RECOMMENDED!									



Examples of Rope End Terminals

Master links also available in the following varieties

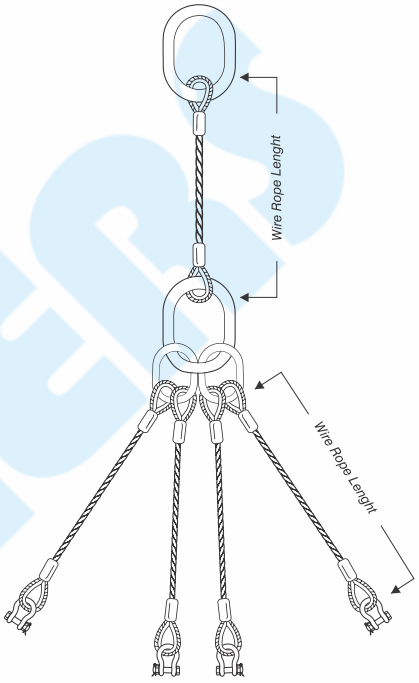


Oval type

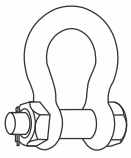
Pear shaped

Multiple Leg Slings

SPL-22 A



Four leg wire rope sling with master link on top and bow type nut bolt shackle at bottom connected to mother sling (5th leg)



Bow Shackle
SPL-2130



Swivel Hook
SPL-322



Eye Hoist Hook.
SPL-320



Eye Self Locking Hook
SPL-316



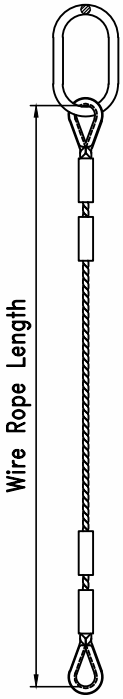
Swivel Self Locking Hook.
SPL-326

and fitting available in thats followings varieties

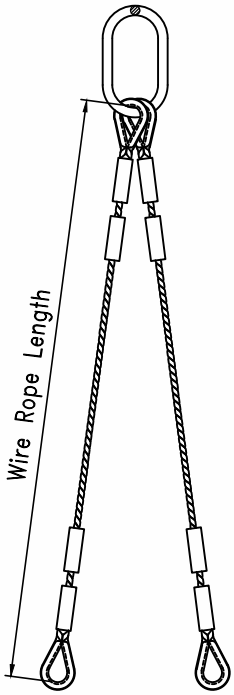
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Combinations of Multiple Wire Rope Leg Slings with Double Ferrule

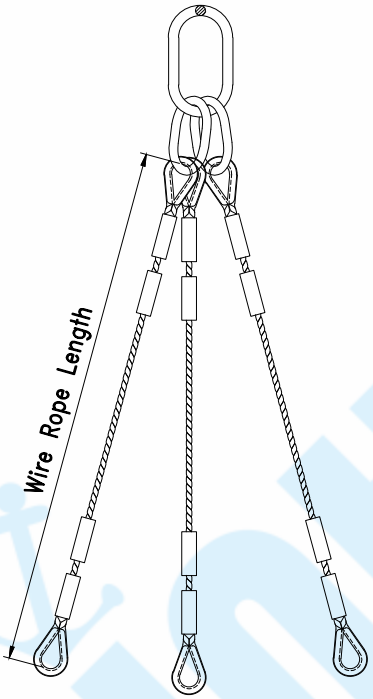
SPL-5B



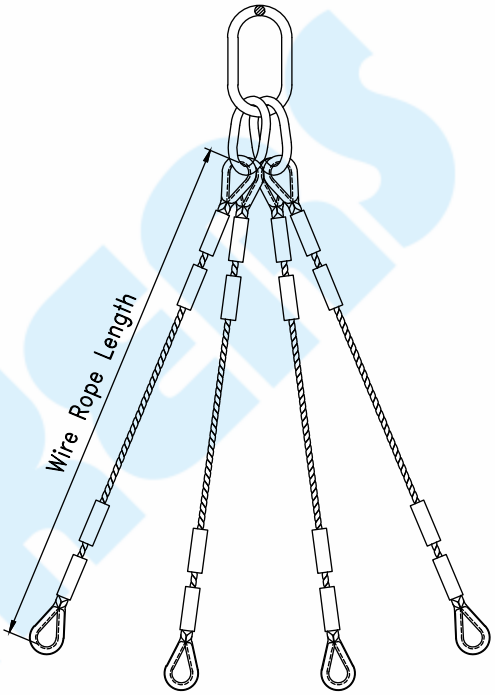
SPL-17B



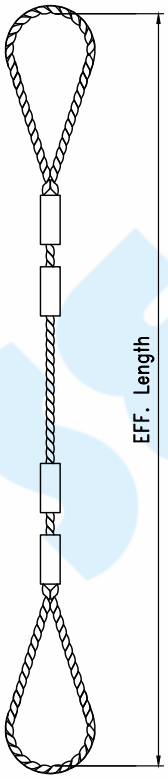
SPL-24B



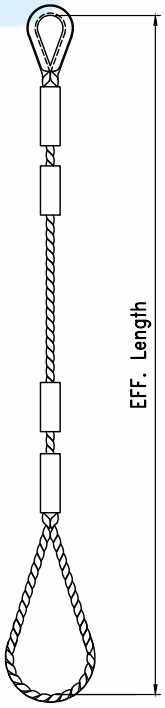
SPL-18B



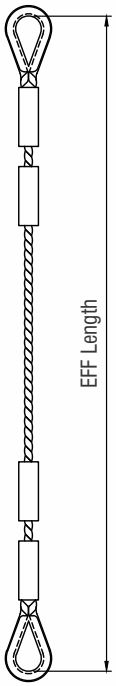
Double Aluminum Ferrule Wire Rope



SPL-1DF



SPL-23DF



SPL-2DF

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Grommet Slings

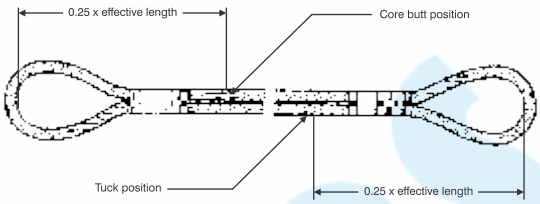


Grommet Round

Applications for Grommet

- Grommet Slings can be fabricated in very short circumferences. The reason is this: Grommet Slings are made from one continuous length of strand or wire rope. This requires only one tuck-in point as compared with the six tuck-in points needed to manufacture an endless sling.
- A grommet consists of an endless rope having 6/1 construction and is used where high ultimate breaking strength of the rope is required beyond the limits of a single part rope.
- A strand of sufficient length to complete the grommet shall be obtained by either of the following methods:
  Method A: An outer strand shall be unlaid from a specimen of 6/1 rope conforming to the requirement of the customer.
  Method B: Unlaying from a specimen of 6/4 rope having strands in all respects equivalent to those obtained by method A above.
  Method C: Using a virgin strand either preformed or post formed and in all other respects equivalent to those obtained by methods A and B
- During the course of construction of a grommet the preformed lay of the strand shall be maintained and shall not be interfered with except when laying in the core for which purpose length of strand left to form the core should be straightened.
- The length of the strand required to form a grommet shall be equal to about 7.5 times the perimeter of the grommet in case of spliced grommet, but in case of complete streamline splicing length shall be 4 times the effective length.

Grommet and Flemish Eye Slings



Nominal of Single Part of Grommet		Nominal Diameter of Component Ropes	Calculated Breaking Load (On Double Part)		
inches	mm	mm	tonnes	tons (200 lb)	tons (2240 lb)
2	52	18	211	233	208
2 ½	64	22	316	348	311
3	76	26	442	486	434
3 ½	89	30	589	650	580
4	102	34	756	833	744
4 ½	115	38	944	1040	930
5	125	42	1152	1268	1132
5 ½	140	48	1509	1668	1489
6	152	52	1775	1954	1744
6 ½	165	58	2030	2262	2020
7	180	60	2356	2593	2315



Endless Slings

BUTT SPLICE

The two ends of the rope shall be joined together by two five-tuck splices.

NUMBER OF TUCKS

The splices shall be tucked three times with the full size of the strand, a fourth time with the strands each reduced to half the original number and a fifth time with the strands each further reduced to one third the original number. The heart strand is to be rowed in during tucking so that a double heart is produced for at least the length of the first three tucks in both directions.

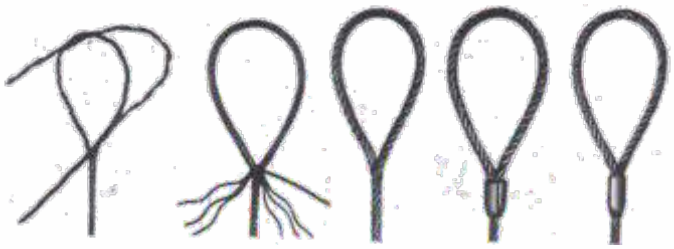
METHOD OF TUCKING

The tucks of the splice shall be made over one strand and under one strand against the lay of the rope. The heart strand of the rope shall not be removed when the strands are opened out for tucking, but may be cut to a suitable length.

FINISHING

The ends of the splice in way of the twisted-off ends of wire, that is, between the end and the third tuck, shall be tightly served with seizing wire, after parceling with canvas, hessian or wax paper.

Flemish Eye & Mechanical Spliced



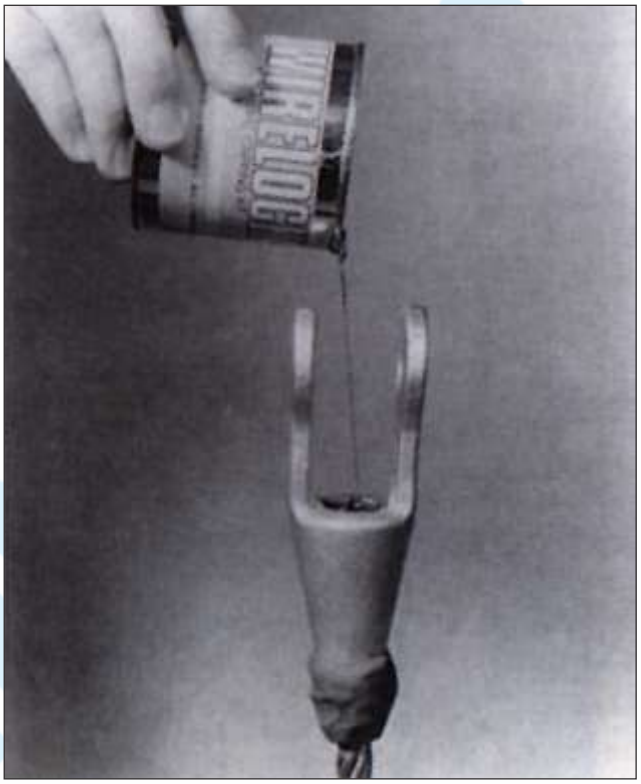
1. Bind the rope from the end at a distance equal to the length of the loop desired, plus an additional length of about 10 times the diameter of the rope. Split the rope by separating three adjacent strands, leaving the other three strands and core intact. Bend the larger section (three strands core) into the desired size loop and start laying the three separated strands into the grooves of the bent section, as close to the throat as possible.
2. Completely lay the three strands around the loop as deep into the throat as possible, allowing the six-strand ends and the core to project close to the throat of the loop.
3. In application of pressed on ferrule is rolled-in eye splice. Notice how smoothly the fabric is joined.
4. Position the special ferrule over the rolled in splice in preparation for swaging. Ends are still flat.
5. By administration of tremendous force by swaging machine, ferrule is tapered.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Salient features

- 100% termination efficiency
- Temperature operating range is -54°C to +114°C
- Ideal for onsite applications
- No hazardous molten metal
- Improved fatigue life
- Pouring temperature without booster pack is 9°C to 43°C
- One booster pack if pouring temperature is 0°C to 9°C
- Two booster packs if pouring temperature is -10°C to 0°C
- Refer to Wirelock technical manual for more information
- Meets the performance requirements of EN13411-4:2002





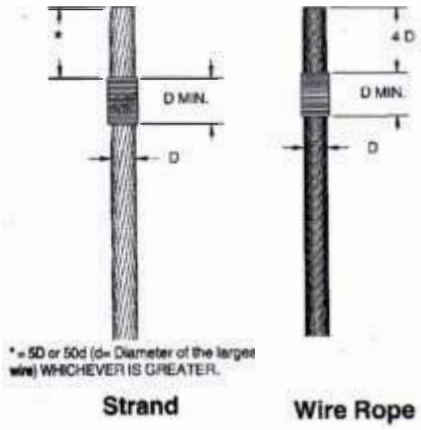
Guide to Wirelock required

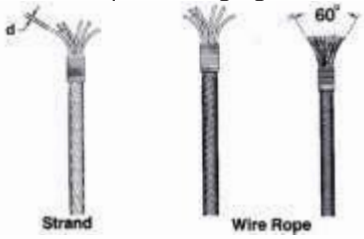
Wire Rope Size		WIRELOCK Required (cc)	Wire Rope Size		WIRELOCK Required (cc)
(mm)	(in.)		(mm)	(in.)	
6-7	1/4	9	44	1-3/4	700
8	5/16	17	48	1-7/8	700
9-10	3/8	17	51	2	1265
11	7/16	35	54	2-1/8	1265
13	1/2	35	56	2-1/4	1410
14	9/16	52	60	2-3/8	1410
16	5/8	52	64	2-1/2	1830
20	3/4	86	67	2-5/8	1830
22	7/8	125	70	2-3/4	2250
26	1	160	76	3	3160
28	1-1/8	210	82	3-1/4	3795
32	1-1/4	350	88	3-1/2	4920
36	1-3/8	350	94	3-3/4	5980
40	1-1/2	420	102	4	7730
42	1-5/8	495	-	-	-

Step-by-step instructions to be followed for Wire Rope Socketing.

STEP 1-SOCKET SELECTION

1. WIRELOCK® is recommended for use with Crosby 416-417 Spelter Sockets.
2. For use with sockets other than Crosby 416-417 consult the socket manufacturer or Crosby Engineering.
3. Sockets used with WIRELOCK® shall comply with Federal or International (CEN,ISO) Standards.
4. WIRELOCK®, as with all socketing media, depends upon the wedging action of the cone within the socket basket to develop full efficiency. A rough finish inside the socket may increase the load at which seating will occur. Seating is required to develop the wedging action.



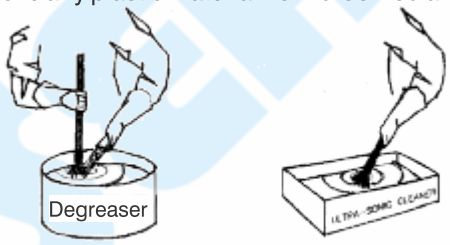


STEP 2-SEIZING

Seize the wire rope or strand as shown using soft annealed iron wire.

STEP 3-BROOMING

1. Unlay the strands of the wire rope and IWRC as far as the seizing.
2. Cut out any fibre core.
3. Unlay the individual wires from each strand, including the IWRC, completely, down to the seizing.
4. Remove any plastic material from broomed area.

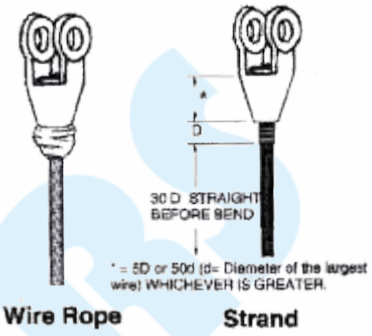


STEP 4-CLEANING

1. The method of cleaning will depend on the lubricant and/or coating on the wire.
2. The methods and materials used for cleaning should comply with the current EPA regulations.
3. Consult the Wire Rope Technical Board, your Wire Rope supplier or the Wire Rope manufacturer for recommended materials and methods.
4. The currently recommended Trichlorethane does not comply with the "Clean Air Act of 1990, Section 611, Ozone Depletion Substances."

STEP 5-POSITIONING OF SOCKET

1. Position socket over the broom until the wires are LEVEL with the top of the socket basket or to a minimum embedded length as shown.
2. Clamp rope and socket vertically ensuring alignment of their axes.
3. CAUTION : DO NOT USE OVERSIZED SOCKETS FOR WIRE ROPE.



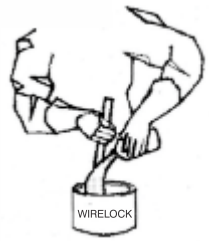
STEP 6-SEAL SOCKET

Seal the base of the socket with putty or plasticine to prevent leakage of the WIRELOCK®.



STEP 7-WIRELOCK® KITS

1. WIRELOCK® kits are pre-measured and consist of two(2) containers - one(1) with resin and one(1) with granular compound.
2. Use the complete kit - NEVER MIX LESS THAN THE TOTAL CONTENTS OF BOTH CONTAINERS.
3. Each kit has a shelf life clearly marked on each container and this must be observed. NEVER USE OUT OF DATE KITS.





STEP 8-MIXING AND POURING

1. Mix and pour WIRELOCK® within the temperature range of 9 to 43°C. Booster kits are available for reduced temperatures.
2. Pour all the resin into a container containing all the granular compound and mix thoroughly for two (2) minutes with a flat paddle.
3. Immediately after mixing, slowly pour the mixture down one side of the socket until the socket basket is full.

STEP 9 - CURING

1. WIRELOCK® will gel in approximately 15 minutes, in a temperature range 18 to 24°C.
2. The socket must remain in the vertical position for an additional ten (10) minutes after gel is complete.
3. The socket will be ready for service 60 minutes after gelling.
4. Never heat sockets to accelerate gel or curing.

STEP 10-RE-LUBRICATION

Re-lubricate wire rope as required.

STEP 11-PROOF LOADING

Wherever possible, the assembly should be proof loaded. All slings with poured sockets, in accordance with ASMEB30.9, shall be Proof Loaded.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com



VITALIFE 400®

Wire Rope Lubricant

FIELD USAGE RECOMMENDATIONS

Wire ropes should be inspected regularly to determine if lubrication is needed. Regular re-lubrication can significantly extend rope life by keeping the rope clean, controlling surface rust and preventing the initial lubricant on the inner wires from drying out.

The frequency of re-lubrication is much more important to good rope life than the quantity of lubricant applied at one time.

Remember that there will be some loss from spillage and handling during application of Vitalife 400 products to a rope under field conditions. It is, therefore, advised that these figures be used only as a guide in your lubrication practices.

Unlike most wire rope lubricants, which are greasy and stay on the external portion of the rope, **Vitalife 400®** penetrates to the core of the wire rope.

Vitalife 400® provides several benefits

- Provides inner strand preservation and lubricity
- Allows for visual inspection of rope
- reduces the friction between the strands of the wire rope
- Extends rope life
- Adheres to surface of strands forming an outer film, providing excellent corrosive protection
- Available in 12 oz. spray cans, 5 gallon pails and 55 gallon drums

Perfect for applications such as bridges, cranes, drag lines and mining.

Diameter of Wire Rope (in.)	Gallons of Vitalife 400 per 1,000 ft.	Diameter of Wire Rope (in.)	Gallons of Vitalife 400 per 1,000 ft.
1/2	0.15	1-1/8	0.55
5/8	0.20	1-1/4	0.60
3/4	0.30	1-3/8	0.70
7/8	0.40	1-1/2	0.75
1	0.45	2	0.90

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Vitalife Wire Rope Lubricant

Vitalife® products are the preferred wire rope lubricants in the industry because of their ability to penetrate into wire rope and displace water and contaminants, thus reducing wear and corrosion throughout the rope.

- Available in a variety of container sizes.
- Provides inner strand preservation and lubricity.
- Allows for easy visual inspection of the ropes.
- Reduces the friction between the strands of the wire rope, thus extending rope life.
- Adheres to surface of strands, forming an outer film which provides excellent corrosive protection.
- Non-tacky (will not attract dust)
- Vitalife® in aerosol form is a regulated dangerous good. See MSDS sheet for shipping instructions.
- Vitalife® Bio-Lube has been developed especially for environmentally friendly applications.
- Vitalife® 500 has been developed exclusively for ski lifts and tramways.
- Vitalife® 600 has been developed exclusively for elevator applications.

VITALIFE® 400

VITALIFE® 400
12 OZ.



VITALIFE® 410

VITALIFE® 410 BIO-LUBE
12 OZ.



VITALIFE® 400

VITALIFE® 400
5 GALLON



VITALIFE® 400

VITALIFE® 400
55 GALLON



Vitalife® Type	Container Size	Vitalife® Stock No.	Weight Each (kg)
Vitalife® 400 (Standard)	340 grammes	1038946	0.45
	18.9 Litre	1038955	18.6
	208 Litre	1038964	191
Vitalife® 410 BIO-LUBE (Environmentally Friendly)	340 grammes	1039004	0.45
	18.9 Litre	1039013	18.6
	208 Litre	1039022	191
Vitalife® 500 (Ski Lifts and Tramways)	18.9 Litre	1038973	18.6
	208 Litre	1038982	191
Vitalife® 600 (Elevator Cables)	.94 Litre	1038034	0.91
	3.7 Litre	1039037	3.72
	18.9 Litre	1039040	18.6
	208 Litre	1039043	191

VSP VITALIFE®

SPRAY APPLICATORS BACKPACK SPRAYER
4 GALLON



VSP Vitalife® Spray Applicators

- Designed and manufactured to work in the rugged field conditions of the construction industry.
- All applicator seals are specially designed to work with Vitalife® 400 and BIO-LUBE products.

Description	VSP Stock No.	Weight Each (kg)
15 Liter Backpack Sprayer	1039092	5.3

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Official distributor for Crosby



Mooring
Spelter Socket
G-517



Swaging Sleeve
S-505



Swage Buttons
S-409



Shank Hook
S-319



Swivel Hooks
S-322AN



Weld on Hook
BH-313



Weld-On
Pivot Link S-265



Sorting
Hook
A-378



Chain
Swivels
A-401



Regular
Swivels
A-402



Jaw End
Swivels
A-403



Lifting Clamps
IPU10



Lifting Clamps
IPH10E

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Official distributor for Crosby

Load Rated QUIC-CHECK



Jaw & Hook Swivels S-1



Jaw & Jaw Swivels S-2



Jaw & Eye Swivels S-3



Eye & Jaw Swivels S-4



Eye & Eye Swivels S-5



Eye & Hook Swivels S-6

Fatigue Rated



Eye Grab Hook A-328



Clevis Grab Hook A-338

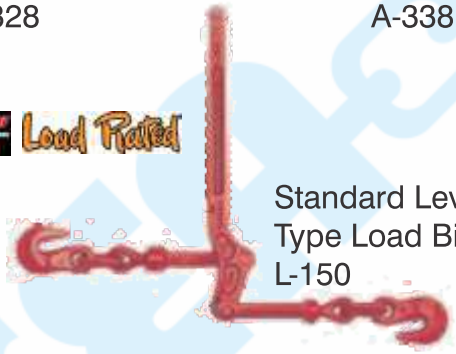


Clevis Chain Hook with Integrated Latch S-314A



Eye Chain Hook with Integrated Latch S-315A

Load Rated



Standard Lever Type Load Binders L-150

Load Rated



Standard Ratchet Type Load Binders L-140

Fatigue Rated



Snatch Blocks With Hook 420



Snatch Blocks With Shackle 421



Snatch Blocks Tail Board 406

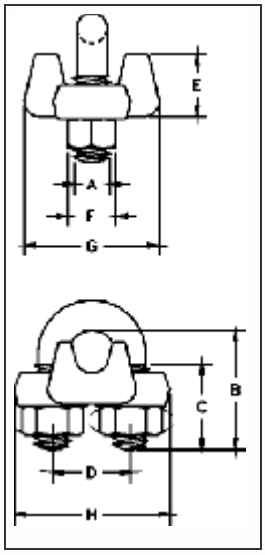
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

SEA-LINKERS

Crosby Forged Wire Rope Clips



G-450



Rope Size (mm)*	G-450 Stock No.	Std. Package Qty.	Weight Per 100 (kg)	Dimensions (mm)							
				A	B	C	D	E	F	G	H
* 3-4	1010015	100	2.72	5.60	18.3	11.2	11.9	10.4	9.65	20.6	23.9
* 5	1010033	100	4.54	6.35	24.6	14.2	15.0	12.7	11.2	23.9	29.5
6-7	1010051	100	8.62	7.85	26.2	12.7	19.1	16.8	14.2	30.2	36.6
8	1010079	100	12.7	9.65	35.1	19.1	22.4	18.3	17.5	33.3	42.9
9-10	1010097	100	21.8	11.2	38.1	19.1	25.4	23.1	19.1	41.4	49.3
11	1010113	50	35.4	12.7	47.8	25.4	30.2	26.2	22.4	46.0	58.0
12-13	1010131	50	36.3	12.7	47.8	25.4	30.2	28.7	22.4	48.5	58.0
14-15	1010159	50	49.4	14.2	57.0	31.8	33.3	31.0	23.9	52.5	63.5
16	1010177	50	49.9	14.2	60.5	31.8	33.3	34.0	23.9	52.5	63.5
18-20	1010195	25	64	15.7	70.0	36.6	38.1	35.8	26.9	57.0	72.0
22	1010211	25	96	19.1	79.0	41.1	44.5	40.4	31.8	62.0	80.5
24-26	1010239	10	114	19.1	89.0	46.0	47.8	45.2	31.8	67.0	88.0
28-30	1010257	10	128	19.1	98.5	51.0	51.0	48.5	31.8	71.5	91.0
32-34	1010275	10	199	22.4	108	54.0	58.5	55.5	36.6	79.5	105
36	1010293	10	200	22.4	118	58.5	60.5	58.5	36.6	79.5	106
38	1010319	10	247	22.4	125	60.5	66.5	62.0	36.6	86.5	113
41-42	1010337	Bulk	319	25.4	135	66.5	70.0	67.5	41.4	92.0	121
44-46	1010355	Bulk	424	28.7	146	70.0	77.5	74.5	46.0	97.0	134
48-52	1010373	Bulk	590	31.8	164	76.0	86.0	83.5	51.0	113	149
56-58	1010391	Bulk	726	31.8	181	81.0	98.5	81.0	51.0	114	162
62-65	1010417	Bulk	862	31.8	195	87.5	105	93.5	51.0	103	168
** 68-72	1010435	Bulk	1043	31.8	211	90.5	111	124	51.0	127	175
75-78	1010453	Bulk	1406	38.1	233	98.5	121	119	60.5	149	194
** 85-90	1010426	Bulk	1814	38.1	273	114	140	152	60.5	157	213

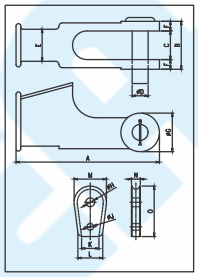
* Electro-plated U-Bolt and Nuts. ** 70 mm and 89mm base is made of cast steel.

S-421T Wedge Sockets

QUIC-CHECK



S-421T



Wire Rope Dia. (mm.)	S-421T Stock No.*	Wedge Only Weight Each (kg)	S-421TW Stock No. Wedge Only	Weight Each (kg.)	Optional G-4082 Bolt, Nut & Cotter	
					G-4082 Stock No.	G-4082 Weight Each (kg.)
9-10	1035000	1.44	1035555	.23	1092227	.17
11-13	1035009	2.79	1035564	.48	1092236	.31
14-16	1035018	4.40	1035573	.81	1092254	.52
18-19	1035027	6.58	1035582	1.18	1092281	.86
20-22	1035036	9.75	1035591	1.82	1092307	1.46
24-26	1035045	13.9	1035600	2.44	1092325	2.44
28	1035054	20.5	1035609	3.56	1092343	3.40
30-32	1035063	29.4	1035618	4.80	1092372	4.70

Wire Rope Dia. (mm.)*	S-421T Stock No.*	Dimensions (mm)														
		A	B	C	D	G	H	J†	K†	L	P	R	S	T	U	V
9-10	1035000	145	69.1	20.6	20.6	35.1	77.7	198	47.8	22.4	39.6	11.2	54.1	11.2	31.8	35.1
11-13	1035009	175	88.1	25.4	25.4	41.1	95.5	226	32.0	26.9	49.3	12.7	65.0	13.5	44.5	47.8
14-16	1035018	210	109	31.8	30.2	53.8	114	273	50.5	31.0	57.2	14.2	82.6	17.5	51.0	55.5
18-19	1035027	251	130	38.1	35.1	62.0	134	314	61.2	35.6	66.8	16.8	92.2	19.8	59.5	65.0
20-22	1035036	286	149	44.5	41.4	68.5	156	365	63.0	42.4	79.5	19.1	109	22.4	68.5	74.5
24-26	1035045	325	161	51.0	51.0	74.7	177	414	77.2	51.0	95.5	22.4	119	26.2	73.0	83.5
28	1035054	365	176	57.0	57.0	84.0	194	466	65.0	57.0	108	25.4	138	27.9	82.6	90.5
30-32	1035063	415	222	66.5	63.5	90.5	239	520	74.7	59.5	114	26.9	156	30.2	117	125

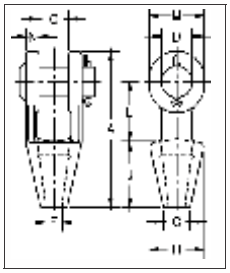
* S-421T TERMINATOR™ Assembly includes Socket, Wedge, Pin and Wire Rope Clip. † Nominal
NOTE: For intermediate wire rope sizes, use next larger size socket.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Crosby Open Spelter Sockets



G-416/S-416



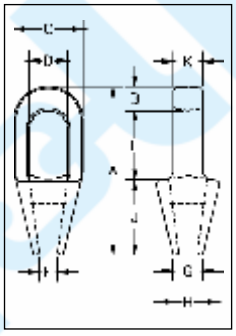
Rope Dia. (mm)*	Structural Strand Dia. (mm)	Stock No. G-416 Galv.	Stock No. S-416 S.C.	Weight Each (kg)	Dimensions (mm) A	C	D	F	G	H	J	L	M	N
6-7	-	1039619	1039628	.50	116	19.1	17.5	9.65	17.5	39.6	57.0	39.6	33.3	9.10
8-10	-	1039637	1039646	.59	123	20.6	20.6	12.7	20.6	42.9	57.0	44.5	38.1	11.2
11-13	-	1039655	1039664	1.02	141	25.4	25.4	14.2	23.9	47.8	63.5	51.0	47.8	12.7
14-16	12-13	1039673	1039682	1.63	171	31.8	30.2	17.5	28.7	57.0	76.0	63.5	57.0	14.2
18	14-16	1039691	1039708	2.64	202	38.1	35.1	20.6	31.8	66.5	89.0	76.0	66.5	15.7
20-22	18-19	1039717	1039726	4.38	235	44.5	41.4	23.9	38.1	82.5	102	89.0	79.5	20.3
24-26	20-22	1039735	1039744	7.03	268	51.0	51.0	28.7	44.5	95.5	114	102	95.5	22.4
28-30	24-26	1039753	1039762	9.75	300	57.0	57.0	31.8	51.0	105	127	117	105	25.4
32-35	28	1039771	1039780	14.1	335	63.5	63.5	38.1	57.0	121	140	127	121	28.7
38	30-32	1039799	1039806	21.4	384	76.0	70.0	41.4	70.0	133	152	152	137	30.2
* 40-42	33-35	1039815	1039824	24.9	413	76.0	76.0	44.5	76.0	140	165	165	146	33.3
* 44-48	36-40	1039833	1039842	37.2	464	89.0	89.0	51.0	79.5	162	191	178	165	39.6
* 50-54	42-45	1039851	1039860	59	546	102	95.5	57.0	95.5	187	216	229	178	46.0
* 56-60	46-48	1039879	1039888	76	597	114	108	63.5	102	210	229	254	197	54.0
* 64-67	50-54	1041633	1041642	114	648	127	121	73.0	114	235	248	274	216	60.5
* 70-73	56-62	1041651	1041660	143	692	133	127	79.0	124	267	279	279	229	73.0
* 75-80	64-67	1041679	1041688	172	737	146	133	86.0	133	282	305	287	241	76.0
* 82-86	70-73	1041697	1041704	197	784	159	140	92.0	146	302	330	300	254	79.0
* 88-92	76-80	1041713	1041722	255	845	171	152	98.5	165	314	356	318	274	82.5
* 94-102	-	1041731	1041740	355	921	191	178	108	184	346	381	343	318	89.0

* Cast Alloy Steel.

Closed Spelter Sockets



G-417 / S-417



Rope Dia. (mm) †	Structural Strand Dia. (mm)	Stock No. G-417 Galv.	Stock No. S-417 S.C.	Weight Each (kg)	Dimensions (mm) A	B	C	D *	F	G	H	J	K	L
6-7	-	1039897	1039904	.23	116	12.7	39.6	22.4	9.65	17.5	39.6	57.2	12.7	46.0
8-10	-	1039913	1039922	.34	125	15.8	42.9	24.6	12.7	20.6	42.9	57.2	17.5	52.3
11-13	-	1039931	1039940	.68	140	17.5	51.0	29.5	14.2	23.9	51.0	63.5	22.4	58.7
14-16	12-13	1039959	1039968	1.13	162	20.6	67.0	35.8	17.5	30.2	67.0	76.2	25.4	65.0
18	14-16	1039977	1039986	1.92	194	26.9	76.2	42.2	22.4	33.3	70.0	89.0	31.8	77.7
20-22	18-19	1039995	1040000	3.28	226	33.3	92.0	49.3	25.4	38.1	82.5	102	38.1	90.5
24-26	20-22	1040019	1040028	4.76	254	36.6	105	58.5	28.7	44.5	95.5	114	44.5	103
28-30	24-26	1040037	1040046	6.46	283	39.6	114	65.0	31.8	51.0	105	127	51.0	116
32-35	28	1040055	1040064	8.95	309	41.4	127	71.0	38.1	58.5	119	138	56.5	129
38	30-32	1040073	1040082	13.24	355	49.3	137	81.0	41.4	70.5	132	151	62.5	155
† 40-42	33-35	1040091	1040108	16.32	390	54.0	146	82.5	44.5	76.2	140	165	70.0	171
† 44-48	36-40	1040117	1040126	25.96	445	55.5	171	95.5	51.0	79.5	162	191	76.2	198
† 50-54	42-45	1040135	1040144	35.83	505	62.0	194	111	57.2	95.5	187	216	82.5	224
† 56-60	46-48	1040153	1040162	47.62	546	70.0	216	127	66.8	105	210	229	92.0	248
† 64-67	50-54	1041759	1041768	63.50	597	79.5	241	140	74.5	114	235	248	102	270
† 70-73	56-62	1041777	1041786	99.79	645	79.5	273	159	79.5	124	259	279	124	286
† 75-80	64-67	1041795	1041802	125	689	85.6	292	171	86.0	133	292	305	133	298
† 82-86	70-73	1041811	1041820	142	743	102	311	184	92.0	146	311	330	146	311
† 88-92	76-80	1041839	1041848	181	787	102	330	197	98.5	160	330	356	159	330
† 94-102	-	1041857	1041866	246	845	108	362	216	108	184	362	381	178	356

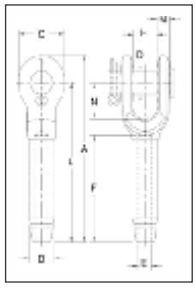
* Diameter of pin must not exceed pin used on companion 416 socket. Reference adjacent page "D" dimension. † Cast Alloy Steel.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

SEA-LINKERS



S-501



Crosby

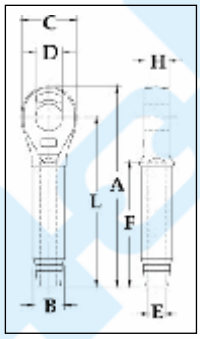
Open Swage Sockets

S-501 Open Socket Specifications														Press / Die Data			
			Before Swage Dimensions											Stock No.		Side Load	
S-501 Stock No.	Rope Size (mm)*	Weight Each (kg)	A	B	C	D	E	F	H	L	M	N	Max. After Swage Dim. (mm)	Die Description	500 1000 1500 Ton 5 x 7	1500 3000 Ton 6 x 12	1500 Ton 6 x 12	3000 Ton 6 x 12
1039021	6	0.24	122	12.7	35.1	17.5	6.85	54.0	17.5	102	9.65	38.1	11.7	1/4 Socket	1192845	-	-	-
1039049	8	0.51	159	19.6	41.1	20.6	8.65	81.0	20.6	135	11.9	44.5	18.0	5/16-3/8 Socket	1192863	-	-	-
1039067	9-10	0.59	159	19.6	41.1	20.6	10.4	81.0	20.6	135	11.9	44.5	18.0	5/16-3/8 Socket	1192863	-	-	-
1039085	11-12	0.94	198	24.9	51.0	25.4	12.2	108	25.4	170	14.2	51.0	23.1	7/16-1/2 Socket	1192881	-	-	-
1039101	13	0.94	198	24.9	51.0	25.4	14.0	108	25.4	170	14.2	51.0	23.1	7/16-1/2 Socket	1192881	-	-	-
1039129	14	2.12	241	31.8	60.5	30.2	15.5	135	31.8	207	17.3	57.0	29.5	9/16-5/8 Socket	1192907	-	-	-
1039147	16	2.05	241	31.8	60.5	30.2	17.0	135	31.8	207	17.3	57.0	29.5	9/16-5/8 Socket	1192907	-	-	-
1039165	18-20	3.62	294	39.4	70.0	35.1	20.3	162	38.1	254	19.8	70.0	36.1	3/4 Socket	1192925	-	-	-
1039183	22	5.23	341	43.2	79.5	41.1	23.9	189	44.5	295	23.9	82.5	39.4	7/8 Socket	1192943	-	-	-
1039209	24-26	8.07	393	50.5	93.5	51.0	26.9	216	51.0	340	26.9	95.5	45.7	1 Socket	1192961	-	-	-
1039227	28	11.5	440	57.0	103	57.0	30.2	243	57.0	381	30.2	108	52.0	1-1/8 Socket	1192989	-	-	-
1039245	32	16.1	484	64.5	114	63.5	33.8	270	63.5	419	31.0	121	58.5	1-1/4 Socket	1193005	-	-	-
1039263	34-36	19.8	532	71.0	127	63.5	36.8	297	63.5	461	35.1	133	65.0	1-3/8 Socket	1193023	-	-	-
1039281	38-40	26.5	581	78.0	140	70.0	40.1	324	76.0	502	42.9	146	71.5	1-1/2 Socket	1193041	1191267	1195355	1195192
1039307	44	40.3	676	86.0	170	89.0	47.2	378	89.0	584	53.5	171	77.5	1-3/4 Socket	1193069	1191276	1195367	1195209
1042767	48-52	66	799	100	203	95.5	53.5	432	102	683	60.0	203	90.5	2 Socket	1193087	1191294	1195379	1195218

* Maximum Proof Load shall not exceed 50% of XXIP rope catalog breaking strength.



S-502



Closed Swage Sockets

S-502 Closed Socket Specifications												Press / Die Data			
			Before Swage Dimensions									Stock No.		Side Load	
S-502 Stock No.	Rope Size (mm)*	Weight Each (kg)	A	B	C	D	E	F	H	L	Max. After Swage Dim. (mm)	Die Description	500 1000 1500 Ton 5 x 7	1500 3000 Ton 6 x 12	1500 Ton 6 x 12	3000 Ton 6 x 12
1039325	6	0.15	109	12.7	35.1	19.1	6.85	54.0	12.7	89.0	11.7	1/4 Socket	1192845	-	-	-
1039343	8	0.34	138	19.6	41.1	22.4	8.65	81.0	17.0	114	18.0	5/16-3/8 Socket	1192863	-	-	-
1039361	9-10	0.33	138	19.6	41.1	22.4	10.4	81.0	17.0	114	18.0	5/16-3/8 Socket	1192863	-	-	-
1039389	11-12	0.64	176	24.9	51.0	26.9	12.2	108	21.8	146	23.1	7/16-1/2 Socket	1192881	-	-	-
1039405	13	0.64	176	24.9	51.0	26.9	14.0	108	21.8	146	23.1	7/16-1/2 Socket	1192881	-	-	-
1039423	14	1.32	220	31.8	60.5	31.8	15.5	135	28.7	184	29.5	9/16-5/8 Socket	1192907	-	-	-
1039441	16	1.29	220	31.8	60.5	31.8	17.0	135	28.7	184	29.5	9/16-5/8 Socket	1192907	-	-	-
1039469	18-20	2.27	261	39.4	73.0	36.6	20.3	162	33.3	219	36.1	3/4 Socket	1192925	-	-	-
1039487	22	3.08	303	43.2	79.0	42.9	23.9	189	38.1	257	39.4	7/8 Socket	1192943	-	-	-
1039502	24-26	4.72	344	50.5	92.0	52.5	26.9	216	44.5	292	45.7	1 Socket	1192961	-	-	-
1039520	28	6.72	382	57.0	102	58.5	30.2	243	51.0	324	52.0	1-1/8 Socket	1192989	-	-	-
1039548	32	9.78	430	64.5	114	65.0	33.8	270	57.0	365	58.5	1-1/4 Socket	1193005	-	-	-
1039566	34-36	12.9	473	71.0	127	65.0	36.8	297	57.0	400	65.0	1-3/8 Socket	1193023	-	-	-
1039584	38-40	17.3	511	78.0	140	71.5	40.1	324	63.5	432	71.5	1-1/2 Socket	1193041	1191267	1193355	1195192
1039600	44	23.1	598	86.0	159	90.5	47.2	378	76.0	508	77.5	1-3/4 Socket	1193069	1191276	1195367	1195209
1042589	48-52	40.5	702	100	184	96.5	53.5	432	82.5	584	90.5	2 Socket	1193087	1191294	1195379	1195218

* Maximum Proof Load shall not exceed 50% of XXIP rope catalog breaking strength.

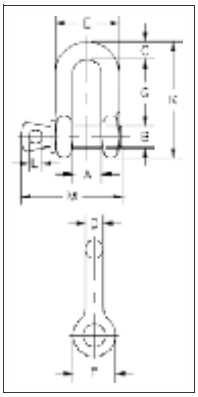
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com



Crosby Screw Pin Chain Shackles

Load Rated | Fatigue Rated | QT | QUICK CHECK Q | MAXTOUGH

G-210



Nominal Size (in.)	Working Load Limit (t)*	Stock No.		Weight Each (kg)	Dimensions (mm)										Tolerance +/-	
		G-210	S-210		A	B	C	D	E	F	G	K	L	M	G	A
1/4	1/2	1019150	1019169	.05	11.9	7.85	6.35	6.35	24.6	15.5	22.4	40.4	4.85	35.1	1.50	1.50
5/16	3/4	1019178	1019187	.08	13.5	9.65	7.85	7.85	29.5	19.1	26.2	48.5	5.60	42.2	1.50	1.50
3/8	1	1019196	1019203	.13	16.8	11.2	9.65	9.65	35.8	23.1	31.8	58.5	6.35	51.5	3.30	1.50
7/16	1-1/2	1019212	1019221	.20	19.1	12.7	11.2	11.2	41.4	26.9	36.6	67.5	7.85	60.5	3.30	1.50
1/2	2	1019230	1019249	.27	20.6	16.0	12.7	12.7	46.0	30.2	41.4	77.0	9.65	68.5	3.30	1.50
5/8	3-1/4	1019258	1019267	.57	26.9	19.1	15.7	16.0	58.5	38.1	51.0	95.5	11.2	85.0	3.30	1.50
3/4	4-3/4	1019276	1019285	1.20	31.8	22.4	20.6	19.1	70.0	46.0	60.5	115	12.7	101	6.35	1.50
7/8	6-1/2	1019294	1019301	1.43	36.6	25.4	24.6	22.4	81.0	53.0	71.5	135	12.7	114	6.35	1.50
1	8-1/2	1019310	1019329	2.15	42.9	28.7	25.4	25.4	93.5	60.5	81.0	151	14.2	129	6.35	1.50
1-1/8	9-1/2	1019338	1019347	3.06	46.0	31.8	31.8	28.7	103	68.5	91.0	172	16.0	142	6.35	1.50
1-1/4	12	1019356	1019365	4.11	51.5	35.1	35.1	31.8	115	76.0	100	191	17.5	156	6.35	3.30
1-3/8	13-1/2	1019374	1019383	5.28	57.0	38.1	38.1	35.1	127	84.0	111	210	19.1	174	6.35	3.30
1-1/2	17	1019392	1019409	7.23	60.5	41.4	41.1	38.1	137	92.0	122	230	20.6	187	6.35	3.30
1-3/4	25	1019418	1019427	12.1	73.0	51.0	54.0	44.5	162	106	146	279	25.4	231	6.35	3.30
2	35	1019436	1019445	19.2	82.5	57.0	60.0	51.0	184	122	172	312	31.0	263	6.35	3.30
2-1/2	55	1019454	1019463	32.5	105	70.0	66.5	66.5	238	145	203	377	35.1	330	6.35	6.35

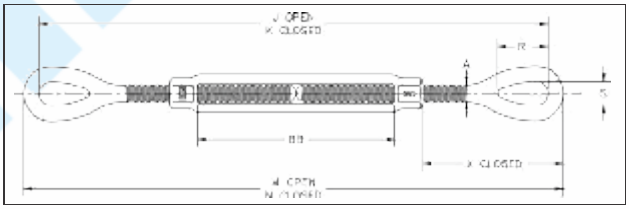
* NOTE: Maximum Proof Load is 2.0 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit.



HG-226

QT | Fatigue Rated

Eye & Eye Turnbuckles



Thread Diameter & Take Up (mm)	HG-226 Stock No.	Working Load Limit (t)*	Weight Each (kg)	Dimensions (mm)								
				A	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
6.35 x 102	1031252	.23	.12	6.35	300	198	311	210	19.8	8.65	44.5	101
7.94 x 114	1031270	.36	.20	7.85	344	230	359	244	23.8	11.1	53.0	114
9.53 x 152	1031298	.54	.34	9.65	444	291	461	309	28.4	13.4	64.0	152
12.7 x 152	1031314	1.00	.70	12.7	510	332	532	355	36.5	18.2	82.0	152
12.7 x 305	1031350	1.00	.97	12.7	815	485	837	507	36.5	18.2	82.0	304
15.9 x 152	1031378	1.59	1.09	16.0	557	373	582	398	44.4	22.3	99.0	152
15.9 x 305	1031412	1.59	1.55	16.0	862	525	887	551	44.4	22.3	99.0	304
19.1 x 152	1031430	2.36	1.72	19.1	607	416	638	448	53.0	25.4	119	152
19.1 x 305	1031476	2.36	2.49	19.1	911	568	943	600	53.0	25.4	119	304
19.1 x 457	1031494	2.36	3.26	19.1	1216	721	1248	752	53.0	25.4	119	457
22.2 x 305	1031519	3.27	3.27	22.4	942	592	980	630	60.4	31.7	130	304
22.2 x 457	1031537	3.27	4.51	22.4	1246	745	1284	783	60.4	31.7	130	457
25.4 x 152	1031555	4.54	4.10	25.4	710	507	755	552	76.0	36.5	162	152
25.4 x 305	1031573	4.54	5.22	25.4	1015	660	1066	704	76.0	36.5	162	304
25.4 x 457	1031591	4.54	6.35	25.4	1320	812	1364	856	76.0	36.5	162	457
25.4 x 610	1031617	4.54	7.82	25.4	1625	964	1669	1009	76.0	36.5	162	609
31.8 x 305	1031635	6.89	8.62	31.8	1087	719	1145	776	90.5	46.0	196	304
31.8 x 457	1031653	6.89	10.4	31.8	1392	871	1449	929	90.5	46.0	196	457
31.8 x 610	1031671	6.89	12.2	31.8	1697	1024	1754	1081	90.5	46.0	196	609
38.1 x 305	1031699	9.71	12.5	38.1	1156	775	1219	838	103	54.0	219	304
38.1 x 457	1031715	9.71	14.1	38.1	1461	927	1524	991	103	54.0	219	457
38.1 x 610	1031733	9.71	17.0	38.1	1765	1080	1829	1143	103	54.0	219	609
44.5 x 457	1031779	12.7	23.8	44.5	1457	1000	1534	1076	117	60.4	254	457
44.5 x 610	1031797	12.7	26.3	44.5	1762	1153	1838	1229	117	60.4	254	609
51.0 x 610	1031813	16.8	38.7	51.0	1923	1313	2011	1402	146	68.5	333	609
63.5 x 610	1031831	27.2	65	63.5	1997	1387	2099	1489	165	79.0	350	609
70.0 x 610	1031859	34.0	88	70.0	2057	1448	2172	1562	177	82.5	387	609

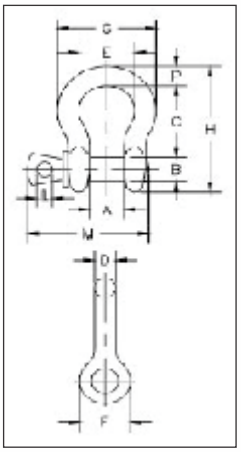
* Proof Load is 2.5 times the Working Load Limit. Ultimate Load is 5 times the Working Load Limit.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Crosby Screw Pin Shackles



G-209 S-209



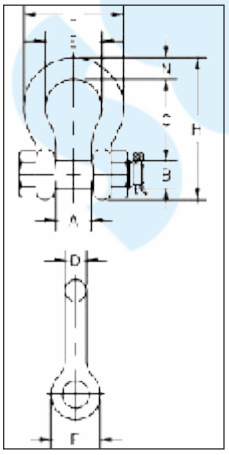
Nominal Size (in.)	Working Load Limit (t) *	Stock No.		Weight Each (kg)	Dimensions (mm)											Tolerance + / -	
		G-209	S-209		A	B	C	D	E	F	G	H	L	M	P	C	A
3/16	1/3	1018357	-	.03	9.65	6.35	22.4	4.85	15.2	14.2	24.9	37.3	4.06	28.4	4.85	1.50	1.50
1/4	1/2	1018375	1018384	.05	11.9	7.85	28.7	6.35	19.8	15.5	32.5	46.7	4.85	35.1	6.35	1.50	1.50
5/16	3/4	1018393	1018400	.09	13.5	9.65	31.0	7.85	21.3	19.1	37.3	53.0	5.60	42.2	7.85	3.30	1.50
3/8	1	1018419	1018428	.14	16.8	11.2	36.6	9.65	26.2	23.1	45.2	63.0	6.35	51.5	9.65	3.30	1.50
7/16	1-1/2	1018437	1018446	.17	19.1	12.7	42.9	11.2	29.5	26.9	51.5	74.0	7.85	60.5	11.2	3.30	1.50
1/2	2	1018455	1018464	.33	20.6	16.0	47.8	12.7	33.3	30.2	58.5	83.5	9.65	68.5	12.7	3.30	1.50
5/8	3-1/4	1018473	1018482	.62	26.9	19.1	60.5	16.0	42.9	38.1	74.5	106	11.2	85.0	17.5	6.35	1.50
3/4	4-3/4	1018491	1018507	1.07	31.8	22.4	71.5	19.1	51.0	46.0	89.0	126	12.7	101	20.6	6.35	1.50
7/8	6-1/2	1018516	1018525	1.64	36.6	25.4	84.0	22.4	58.0	53.0	102	148	12.7	114	24.6	6.35	1.50
1	8-1/2	1018534	1018543	2.28	42.9	28.7	95.5	25.4	68.5	60.5	119	167	14.2	129	26.9	6.35	1.50
1-1/8	9-1/2	1018552	1018561	3.36	46.0	31.8	108	29.5	74.0	68.5	131	190	16.0	142	31.8	6.35	1.50
1-1/4	12	1018570	1018589	4.31	51.5	35.1	119	32.8	82.5	76.0	146	210	17.5	156	35.1	6.35	1.50
1-3/8	13-1/2	1018598	1018605	6.14	57.0	38.1	133	36.1	92.0	84.0	162	233	19.1	174	38.1	6.35	3.30
1-1/2	17	1018614	1018623	7.80	60.5	41.4	146	39.1	98.5	92.0	175	254	20.6	187	41.1	6.35	3.30
1-3/4	25	1018632	1018641	12.6	73.0	51.0	178	46.7	127	106	225	313	25.4	231	57.0	6.35	3.30
2	35	1018650	1018669	20.4	82.5	57.0	197	53.0	146	122	253	348	31.0	263	61.0	6.35	3.30
2-1/2	55	1018678	1018687	38.9	105	70.0	267	69.0	184	145	327	453	35.1	330	79.5	6.35	6.35

* NOTE: Maximum Proof Load is 2.0 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit.

Crosby Bolt Type Shackles



G-2130 S-2130



Nominal Size (in.)	Working Load Limit (t) *	Stock No.		Weight Each (kg)	Dimensions (mm)									Tolerance +/-	
		G-2130	S-2130		A	B	C	D	E	F	H	L	N	C	A
3/16	1/3,	1019464	-	.03	9.65	6.35	22.4	4.85	15.2	14.2	37.3	24.9	4.85	1.50	1.50
1/4	1/2	1019466	-	.05	11.9	7.85	28.7	6.35	19.8	15.5	46.7	32.5	6.35	1.50	1.50
5/16	3/4	1019468	-	.10	13.5	9.65	31.0	7.85	21.3	19.1	53.0	37.3	7.85	3.30	1.50
3/8	1	1019470	-	.15	16.8	11.2	36.6	9.65	26.2	23.1	63.0	45.2	9.65	3.30	1.50
7/16	1-1/2	1019471	-	.22	19.1	12.7	42.9	11.2	29.5	26.9	74.0	51.5	11.2	3.30	1.50
1/2	2	1019472	1019481	.36	20.6	16.0	47.8	12.7	33.3	30.2	83.5	58.5	12.7	3.30	1.50
5/8	3-1/4	1019490	1019506	.76	26.9	19.1	60.5	16.0	42.9	38.1	106	74.5	17.5	6.35	1.50
3/4	4-3/4	1019515	1019524	1.23	31.8	22.4	71.5	19.1	51.0	46.0	126	89.0	20.6	6.35	1.50
7/8	6-1/2	1019533	1019542	1.79	36.6	25.4	84.0	22.4	58.0	53.0	148	102	24.6	6.35	1.50
1	8-1/2	1019551	1019560	2.57	42.9	28.7	95.5	25.4	68.5	60.5	167	119	26.9	6.35	1.50
1-1/8	9-1/2	1019579	1019588	3.75	46.0	31.8	108	28.7	74.0	68.5	190	131	31.8	6.35	1.50
1-1/4	12	1019597	1019604	5.31	51.5	35.1	119	31.8	82.5	76.0	210	146	35.1	6.35	1.50
1-3/8	13-1/2	1019613	1019622	7.18	57.0	38.1	133	35.1	92.0	84.0	233	162	38.1	6.35	3.30
1-1/2	17	1019631	1019640	9.43	60.5	41.4	146	38.1	98.5	92.0	254	175	41.1	6.35	3.30
1-3/4	25	1019659	1019668	15.4	73.0	51.0	178	44.5	127	106	313	225	57.0	6.35	3.30
2	35	1019677	1019686	23.7	82.5	57.0	197	51.0	146	122	348	253	61.0	6.35	3.30
2-1/2	55	1019695	1019702	44.6	105	70.0	267	66.5	184	145	453	327	79.5	6.35	6.35
3	† 85	1019711	-	70	127	82.5	330	76.0	200	165	546	365	92.0	6.35	6.35
3-1/2	† 120 ‡	1019739	-	120	133	95.5	372	92.0	229	203	626	419	105	6.35	6.35
4	† 150 ‡	1019757	-	153	140	108	368	104	254	229	653	468	116	6.35	6.35

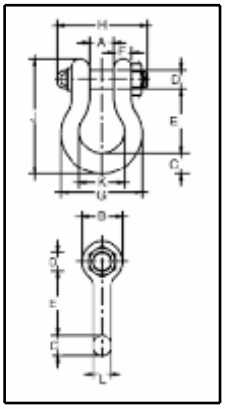
NOTE: Maximum Proof Load is 2.0 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit. For Working Load Limit reduction due to side loading applications, see page 68. † Individually Proof Tested with certification. ‡ Furnished in Anchor style only and furnished with Round Head Bolts with welded handles.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Load Rated QT QUICK CHECK



G-2140 / S-2140



Crosby Alloy Bolt Type Shackles

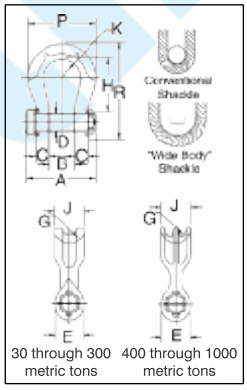
Nominal Shackle Size (in.)	Working Load Limit (t)*	Stock No.		Weight Each (kg)	Dimensions (mm)											Tolerance +/-	
		G-2140	S-2140		A	B	C	D	E	F	G	H	J	K	L	A	E
1-1/2	30	1021110	1021129	9.43	60.5	92.0	41.1	41.4	146	35.3	175	197	254	98.5	39.1	3.30	6.35
1-3/4	40	1021138	1021147	15.4	73.0	106	57.0	51.0	178	44.5	225	230	313	127	46.7	3.30	6.35
2	55	1021156	1021165	23.6	82.5	122	61.0	57.0	197	51.0	253	264	348	146	53.0	3.30	6.35
2-1/2	85	1021174	1021183	43.5	105	145	79.0	70.0	267	66.5	327	344	453	184	69.0	6.35	6.35
3	120	1021192	-	81	127	165	92.0	82.5	330	76.0	365	419	546	200	79.0	6.35	6.35
3-1/2	†150	1021218	-	120	133	203	105	95.5	372	95.5	419	483	625	229	92.0	6.35	6.35
4	† 175	1021236	-	153	140	229	116	108	368	102	468	502	626	254	104	6.35	6.35
4-3/4**	† 200	1021414	-	204	184	267	152	121	397	95.5	533	521	743	279	114	6.35	6.35
5**	† 250	1021432	-	272	216	305	165	127	508	98.5	622	558	889	330	114	6.35	6.35
6**	† 300	1021450	-	352	213	305	172	152	495	121	635	618	895	330	127	6.35	6.35
7**	† 400	1021478	-	500	210	356	184	178	572	165	660	710	1022	330	152	6.35	6.35

Note: Maximum Proof Load is 2.0 times the Working Load Limit. Minimum Ultimate Load is 4 times the Working Load Limit on 200 thru 400 metric Tons.
For sizes 30 thru 175 metric Tons, Minimum Ultimate Load is 5.4 times the Working Load Limit. ** Cast Alloy Steel.
† Furnished with Round Head Bolts with welded handle.



Load Rated QT

G-2160



Crosby Wide Body Shackles

Working Load Limit (t)*	G-2160 Stock No.	Weight Each (kg)	Dimensions (mm)										
			A	B +/- 6.35	C	D +/- .5	E	G	H	J	K	P	R
† 30	1021575	11.3	197	60.5	35.1	41.4	90.4	51.0	165	79.5	63.5	232	279
† 40	1021584	15.9	230	73.2	44.5	51.0	102	58.7	205	95.3	76.2	270	346
† 55	1021593	32.2	264	82.5	51.0	57.4	118	66.8	238	114	88.9	327	394
† 75	1021290	45	346	105	54.0	70.0	121	64.0	290	120	92.5	313	465
† 125	1021307	73	400	130	65.0	80.0	145	80.0	365	150	110	380	576
† 200	1021316	227	508	150	85.0	105	185	110	480	205	137	495	757
† 300	1021325	368	591	185	102	133	235	140	600	265	160	601	950
†† 400	1021334	472	715	220	131	160	280	160	575	320	185	690	985
†† 500	1021343	625	809	250	142	180	318	170	630	340	225	790	1085
†† 600	1021352	831	913	275	153	200	350	185	700	370	247	865	1200
†† 700	1021361	1109	992	300	167	215	376	200	735	400	270	940	1275
†† 800	1021254	1368	986	325	183	230	400	210	750	420	277	975	1323
†† 900	1021389	1559	1050	350	198	250	430	220	757	440	293	1025	1373
††1000	1021370	1824	1176	380	212	270	450	230	760	460	308	1075	1405

Ultimate Load is 5 times the Working Load Limit.
† Forged Alloy Steel. Proof Load is 2 times the Working Load Limit. †† Cast Alloy Steel. Proof Load is 1.33 times the Working Load Limit.

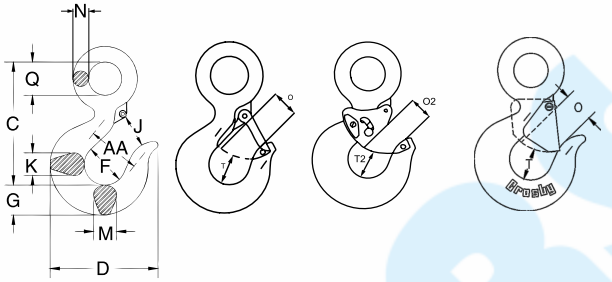
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Crosby Eye Hooks



Load Rated Fatigue Rated

Crosby



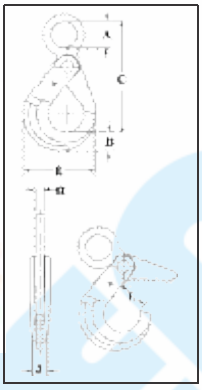
S-320/ S-320 N

Alloy	Alloy S-320A S-320AN S.C.	Alloy L-320A L-320AN S.C.	Weight Each (kg.)	Dimensions (mm) C	D	F	G	J	K	M	N	O †	O2 ††	Q	T †	T2 ††	AA
1.25	1022375	1022380	.28	85.0	72.0	31.8	18.5	22.9	16.0	16.0	9.14	22.6	-	19.1	22.1	-	38.1
1.6	1022386	1022391	.40	97.0	79.0	35.1	21.3	23.6	18.0	18.0	10.7	23.1	-	23.1	24.9	-	50.8
2.5	1022397	1022402	.65	105	89.5	38.1	25.4	25.4	22.4	22.4	14.0	25.4	-	28.7	26.2	-	51.0
3.2	1022406	1022413	.94	119	101	41.4	28.7	28.7	23.9	23.9	14.7	27.7	-	31.8	29.5	-	50.8
5.4	1022419	1022424	1.95	147	122	51.0	36.6	37.3	33.3	33.3	18.3	34.5	25.4	39.6	38.9	38.1	63.5
8	1022430	1022435	3.76	187	159	63.5	46.0	44.5	42.2	42.2	22.9	40.9	33.3	51.0	49.8	47.8	76.2
11.5	1022441	1022446	6.80	230	189	76.0	57.0	58.0	47.8	41.4	28.2	53.0	46.0	62.0	62.5	57.2	102
16	1022452	1022457	9.42	256	211	82.5	66.0	63.5	55.5	49.3	32.3	57.5	51.0	72.0	66.5	58.7	102
22	1022465	1022468	17.9	318	262	108	76.0	84.0	68.5	60.5	39.6	76.5	69.9	89.0	72.0	65.0	127
31.5	1023546	1022477	27.2	357	346	127	92.0	102	76.0	76.2	44.5	82.5	-	89.0	87.5	-	165
37	1023564	-	47.6	462	357	137	116	108	102	81.0	51.0	76.0	-	114	98.5	-	178
45	1023582	-	67	511	392	152	129	121	114	82.6	55.4	86.0	-	125	121	-	203
60	1023608	-	103	602	470	178	152	146	140	99.3	64.3	105	-	145	145	-	254

Carbon eye hooks .75tC-40tC: proofload is 2 times working load limit. Designed with a 5 to 1 safety factor.
Alloy eye hooks 1.25tA-31.5tA : proofload is 2.5 times working load limit. Designed with a 4 to 1 safety factor.
Alloy eye hooks 37tA - 60tA: proofload is 2 times working load limit. Designed with a 4 to 1 safety factor.
† 3/4tC - 22tA dimensions shown are for S-4320 Latch Kits. Dimensions for sizes 20 ton carbon and larger are for PL Latch Kits.
†† Dimensions are for PL-N latch kits.

Crosby SHUR-LOC Hooks





Fatigue Rated

S-1316

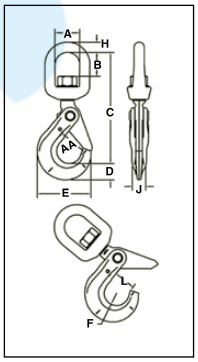
Chain Size (in.)	Chain Size (mm)	Working Load Limit (t)*	S-1316 Stock No.	Weight Each (kg)	Dimensions (mm) A	C	D	E	J	L
-	6	1.4	1022896	.39	20.1	100	20.1	66.0	16.0	29.0
1/4-5/16	7-8	2.6	1022914	.82	24.9	135	27.9	89.0	20.6	37.1
3/8	10	4	1022923	1.47	33.0	167	29.7	112	23.9	46.5
1/2	13	6.8	1022932	2.70	46.0	209	42.4	138	29.5	53.5
5/8	16	10	1022941	5.78	56.0	256	51.8	167	38.1	63.0
3/4	18-20	16	1022942	7.7	66.5	274	56.4	197	51.6	89.4
7/8	22	19	1022943	12.2	72.9	317	62.2	222	55.9	97.3
1	26	27	1022944	22.2	80.0	371	81.5	251	68.1	104

* Minimum Ultimate Load is 4 times the Working Load Limit.

Crosby SHUR-LOC Swivel Hooks

Crosby 8/10™ Fatigue Rated





S-1326

S-1326 SHUR-LOC® Swivel Hooks • Suitable for infrequent, non-continuous rotation under load.

Chain Size (in.)	Chain Size (mm)	S-1326 Stock No.	Grade 100 Alloy Chain Working Load Limit (t) 4:1*	Weight Each (kg)	Dimensions (mm) A	B	C	D	E	F	H	J	L	AA
-	6	1004304	1.5	.57	38.1	33.5	189	20.1	66.0	17.0	12.7	16.0	28.7	38.1
1/4-5/16	7-8	1004313	2.6	1.18	44.5	40.4	235	27.9	88.9	22.1	16.0	20.6	35.1	51.0
3/8	10	1004322	4.0	2.13	50.8	43.9	274	29.7	112	27.9	19.1	23.9	44.5	63.5
1/2	13	1004331	6.8	3.92	63.5	60.5	351	42.4	139	32.0	25.4	29.5	53.6	76.2
5/8	16	1004340	10.3	7.71	69.9	68.6	410	51.8	167	38.1	28.7	38.1	63.2	89.0
3/4	18-20	1004349	16.0	10.9	71.9	64.0	442	56.4	197	51.1	27.9	51.6	89.4	127
7/8	22	1004358	20.0	13.2	87.4	81.0	418	62.2	222	57.4	33.0	55.9	97.3	152

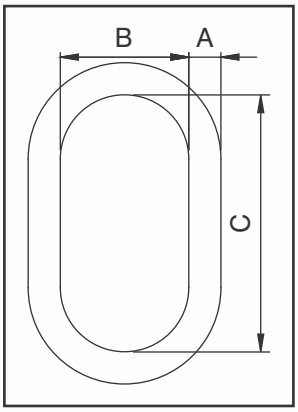
* Ultimate Load is 4 times the Working Load Limit.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Crosby



A-342



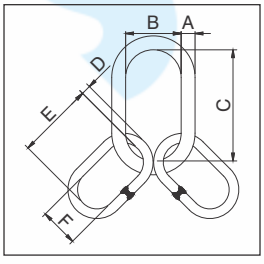
Alloy Master Links

Size "A" (mm)	A-342 Stock No.	WLL S.F.= 5/1 for Rope (t) *	WLL S.F.= 4/1 for Chain (t) *	Proofload in kN **	Weight Each (kg)	Dimensions (mm)		
						B	C	Deformation Indicator
** 13	1014262	3.17	2.54	63	0.37	63.5	127	76
** 16	1014280	4.08	3.26	81	0.69	76.0	152	89
** 19	1014306	5.58	4.46	127	0.94	70.0	140	89
** 22	1014315	6.80	5.45	134	1.59	95.5	162	114
** 25	1014324	11.05	8.83	217	2.20	89.0	178	114
** 32	1014342	16.42	13.13	323	4.34	111	222	140
** 38	1014360	25.67	20.54	504	7.36	133	267	165
** 44	1014388	38.51	30.81	756	11.4	152	305	191
** 51	1014404	46.54	37.23	913	16.8	178	356	229
†† 57	1014422	65.6	52.47	1287	24.5	203	406	-
**†† 63	1014468	72.6	58.06	1311	30.7	203	406	-
†† 70	1014440	98.4	78.71	1930	39.8	241	406	-
†† 76	1014486	103	82.73	2029	52	229	457	-
†† 83	1014501	119	95.13	2334	66	254	508	-
†† 89	1014529	126	101	2483	91	305	610	-
†† 95	1015051	152	122	2990	90	254	508	-
†† 102	1015060	169	135	3319	103	254	508	-
†† 108	1015067	160	128	3150	137	305	610	-
†† 114	1015079	163	130	3204	156	356	711	-
†† 121	1015088	176	141	3462	198	356	711	-
†† 127	1015094	179	143	3515	234	381	762	-

* Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees. ** Proof test load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9-1.4 for the chain size and number of legs. For use with chain slings, see page 202.
†† Welded Master Link.



A-347



Welded Master Links

Chain Size (mm)	A-347 Stock No.	Working Load Limit (t)*		Weight Each (kg)	Dimensions (mm)						Engineered Flat Size for S-325A (in.) - (mm)
		4:1	5:1		A	B	C	D	E	F	
13/12	1257692-4	2.36	2.4	.81	13	60	120	12	85	45	No Flat
17/13	1257762-4	3.15	3.2	1.56	17	90	160	13	120	60	No Flat
19/13	1257832-4	4.25	4.2	1.79	19	90	160	13	120	60	1/4"-5/16", 7-8mm
22/17	1257972-4	6.7	8	3.29	22	100	180	17	160	90	3/8", 10mm
28/22	1258142-4	11.2	12	7.00	28	145	275	22	180	100	1/2", 13mm
31/25	1258182-4	17	17	9.43	31	145	275	25	210	115	5/8", 16mm
40/31	1258332-4	23.6	25	18.28	40	160	300	31	270	140	No flat
45/36	1258402-4	31.5	31.5	26.39	45	180	340	36	285	155	No flat
51/45	1258462-4	45	45	42.88	51	190	350	45	340	180	No flat

* WLL for included angle of maximum 90 degrees. For larger included angles, the WLL should be reduced.

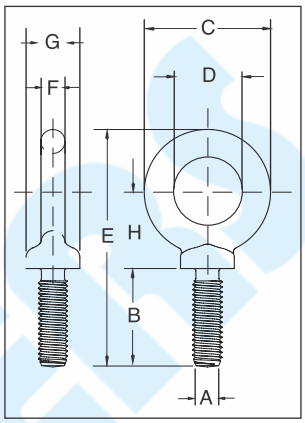
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Forged Machinery Eye Bolts



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

- Forged Steel - Quenched & Tempered.
- Working Load Limits shown are for in-line pull. For angle loading, see page 202.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles. traceability, not addressed by ASME B30.26.
- Recommended for in-line pull.
- S-279 threaded UNC.
- M-279 metric threaded.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these bolts meet other critical performance requirements including fatigue life, impact properties and material



Fatigue Rated®

QUIC-CHECK®

SEE APPLICATION AND WARNING INFORMATION
On Pages 200-201
Para Español: www.thecrosbygroup.com

S-279 UNC Shoulder Type Machinery Eye Bolts

Size (mm)	S-279 Stock No.	Working Load Limit (t)*	Weight Each (kg)	Dimensions (mm)							
				A** Thread	B	C	D	E	F	G	H
6.35 x 25.4	9900182	.29	.02	1/4 - 20	25.9	28.7	19.1	58.0	4.85	13.5	19.6
7.94 x 28.6	9900191	.54	.04	5/16 - 18	29.2	35.1	22.4	69.5	6.35	15.0	24.1
9.53 x 31.8	9900208	.70	.06	3/8 - 16	32.3	41.1	25.4	78.0	7.85	17.5	26.7
12.7 x 38.1	9900217	1.18	.12	1/2 - 13	38.9	49.5	30.2	94.0	9.65	23.1	32.3
15.9 x 44.5	9900226	2.35	.24	5/8 - 11	45.5	60.5	35.1	113	12.7	28.7	38.9
19.1 x 51.0	9900235	3.26	.43	3/4 - 10	52.0	70.0	38.1	129	16.0	35.1	43.4
22.2 x 57.0	9900244	4.80	.70	7/8 - 9	58.5	82.5	44.5	149	19.1	39.6	50.8
25.4 x 63.5	9900253	6.03	1.1	1 - 8	65.5	95.5	51.0	169	22.4	46.0	58.4
28.5 x 70.0	9900257	6.80	1.5	1-1/8 - 7	69.8	107	57.1	183	24.6	52.3	59.7
31.8 x 76.0	9900262	9.52	1.8	1-1/4 - 7	78.5	114	63.5	202	25.4	58.0	69.3
38.1 x 89.0	9900271	10.8	3.2	1-1/2 - 6	91.5	140	76.0	241	31.8	70.0	83.3
44.5 x 95.0	9900280	15.4	4.7	1-3/4 - 5	95.2	159	88.9	266	35.0	76.2	91.4
51 x 102	9900289	19.0	8.6	2 - 4-1/2	102	194	101	313	46.0	85.9	114
63.5 x 127	9900298	29.5	14.5	2-1/2 - 4	127	223	114	378	53.8	108	140

*Ultimate Load is 5 times the Working Load Limit. Maximum Proof Load is 2 times the Working Load Limit. ** All bolts threaded UNC.

M-279 Metric

Size (mm)	M-279 Stock No.	Working Load Limit (t)*	Weight Each (kg.)	Dimensions (mm)							
				A** Thread	B	C	D	E	F	G	H
M6 x 13	1045753	.20	.03	M6 x 1.0	13.0	28.7	19.1	47.0	4.9	13.5	19.6
M8 x 13	1045789	.40	.05	M8 x 1.25	13.0	35.1	22.4	54.6	6.4	15.0	24.1
M10 x 17	1045833	.64	.07	M10 x 1.5	17.0	41.1	25.4	64.3	7.9	17.5	26.5
M12 x 20.5	1045869	1.0	.11	M12 x 1.75	20.5	49.5	30.2	77.7	9.7	23.1	32.8
M16 x 27	1045913	1.8	.25	M16 x 2.0	27.0	60.5	35.1	96.0	12.7	28.7	38.9
M20 x 30	1045995	2.5	.42	M20 x 2.5	30.0	70.0	38.1	108	16.0	35.1	43.4
M24 x 36	1046029	4.0	1.05	M24 x 3.0	36.0	95.5	51.0	142	22.4	46.0	58.4
M27 x 69.8	1046038	5.0	1.42	M27 x 3.0	69.8	107	57.1	183	24.6	52.3	59.7
M30 x 45	1046075	6.0	1.77	M30 x 3.5	45.0	114	63.5	171	25.4	58.0	69.3
M36 x 54	1046109	8.5	3.12	M36 x 4.0	54.0	140	76.0	207	31.8	70.0	83.3
M42 x 95.2	1046118	14.0	4.58	M42 x 4.5	95.2	159	88.9	266	35.0	76.2	91.4
M48 x 102	1046127	17.3	8.71	M48 x 5.0	102	194	101	313	46.0	85.9	114
M64 x 127	1046136	29.5	14.74	M64 x 6.0	127	223	114	378	53.8	108	140

*Ultimate Load is 5 times the Working Load Limit. Maximum Proof Load is 2 times the Working Load Limit. ** On Request: Special threading or as forged bolts for customer conversion.

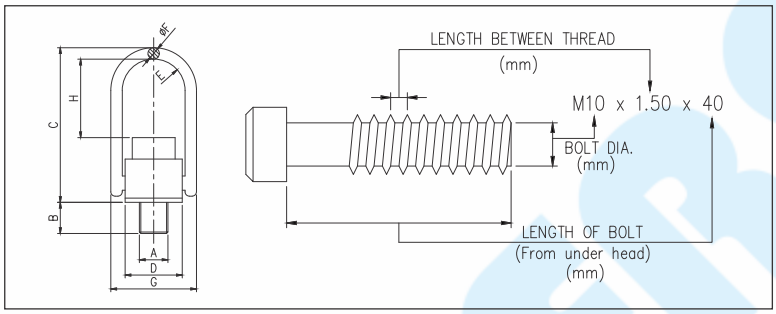
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Crosby Metric Swivel Hoist Rings



HR-125M

Load Rated Fatigue Rated

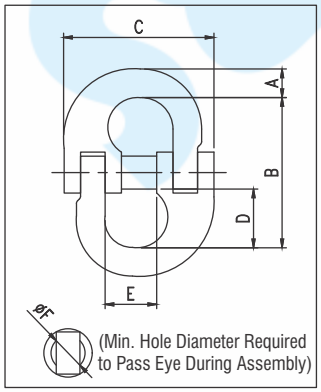


HR-125M Stock No.	Working Load Limit (kg) At a 5:1 Design Factor†	Working Load Limit (kg) At a 4:1 Design Factor†	Torque in Nm*	Dimensions (mm) Bolt Size (A) ††	Effective Thread Length (B)	C	D	Radius E	Diam. F	G	H	Weight Each (kg)
1016602	400	500	10	M8X 1.25 X 40	16.9	68.1	25.4	11.8	8.5	42.9	28.2	.19
1016613	450	550	16	M10 X 1.50 X 40	16.9	68.1	25.4	11.8	8.5	42.9	27.69	.19
1016624	1050	1300	38	M12 X 1.75 X 50	17.2	124.5	50.8	22.3	17.5	82.7	58.17	1.13
1016635	1900	2400	81	M16 X 2.00 X 60	27.2	124.5	50.8	22.3	17.5	82.7	56.13	1.22
1016644	2150	2700	136	M20 X 2.50 X 65	31.2	124.5	50.8	22.3	17.5	82.7	52.07	1.36
1016657	3000	3750	136	M20 X 2.50 X 75	28.1	167.0	76.2	34.7	25.4	120.1	75.69	3.18
1016668	4200	5250	312	M24 X 3.00 X 80	33.1	167.0	76.2	34.7	25.4	120.1	74.93	3.18
1016679	7000	8750	637	M30 X 3.50 X 120	65.1	220.0	95.3	44.5	30.5	152.4	102.0	6.70
1016690	11000	13750	1005	M36 X 4.00 X 150	60.6	315.3	120.7	57.2	44.5	203.2	124.2	14.95
1016701	12500	15600	1005	M42 X 4.50 X 160	70.6	315.3	120.7	57.2	44.5	203.2	150.6	16.33
1016712	13500	16900	1350	M48 X 5.00 X 160	70.6	315.3	120.7	57.2	44.5	203.2	137.9	16.33

The tightening torque values shown are based upon threads being clean, dry and free of lubrication.
† Individually proof loaded to 2-1/2 times the Working Load Limit based on the 4:1 design factor.
‡ Bolt specification is a Grade 12.9 Alloy socket head cap screw to Din 912. All threads are metric (ASME/ANSI B18.3.1m).



A-1337



GT Fatigue Rated

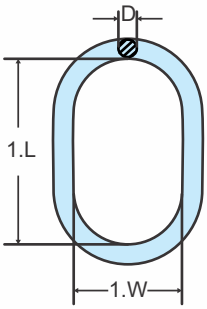
Grade 100 Alloy Chain

Chain Size (in.)	Chain Size (mm)	A-1337 Stock No.	Pkg. Qty.	Weight Each (kg)	Working Load Limit (t)*	Dimensions (mm) A	B	C	D	E	F
9/32 (1/4)	7	1015109	60	.13	2	8.40	47.8	47.0	19.8	16.0	14.2
5/16	8	1015118	50	.15	2.5	9.15	55.4	50.0	23.1	16.8	16.0
3/8	10	1015127	40	.34	4	11.4	64.3	63.5	26.2	21.6	19.1
1/2	13	1015136	12	.75	6.7	16.3	87.4	81.8	36.6	27.7	23.9
5/8	16	1015145	10	1.30	10	19.1	105	96.0	43.9	35.1	28.7
3/4	20	1015154	1	2.26	16	23.6	118	118	53.1	40.4	32.5
7/8	22	1015163	1	3.41	19.4	26.9	140	143	58.7	50.0	36.6
1	25	1015172	1	5.00	27	31.0	152	157	63.5	56.4	47.8
1-1/4	32	1015181	1	9.25	41	38.1	189	194	78.5	64.3	55.6

* Ultimate Load is 4 times the Working Load Limit.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

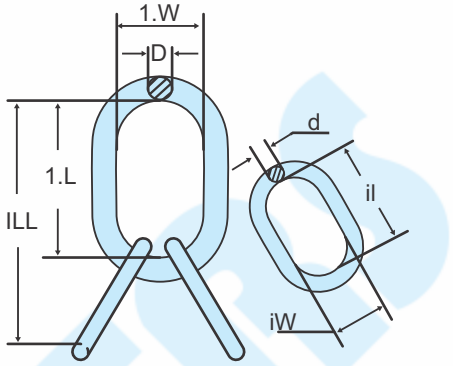
Forged Master Link



SPL - 342

Working Load Limit	Dimension (mm)			N.W.
WLL(T)	D	IL	IW	Kg
2.2	13	127	63	0.36
3	16	152	76	0.7
4.7	19	140	70	0.93
6.4	22	160	90	1.5
11	25	178	89	2.1
16	32	220	110	4.24
21.7	38	267	133	7.17
28.4	45	305	152	11.55
44.3	51	355	178	17.2
65	57	406	203	24.5
66.8	63	406	203	30.9
98	70	406	241	39.5
103	76	457	229	50.34
119	83	508	254	65.68
126	89	610	305	90.24
152	95	508	254	89.27
169	102	508	254	103.43

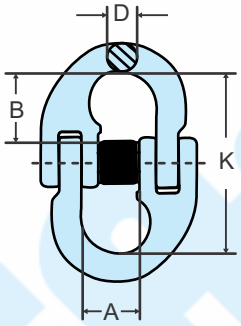
Master Link Assembly



SPL - 347

Working Load Limit	Main Ring			Intermediate		
WILL (T)	D	IL	IW	d	il	iw
2	14	100	60	12	85	40
2.5	18	160	90	14	100	60
4	20	160	90	14	100	60
6.4	22	180	100	18	150	70
9.6	28	270	140	22	160	90
13.9	32	270	140	25	180	100
21*	40	300	160	31	270	140
30*	45	340	180	36	285	155
40*	51	350	190	45	340	180

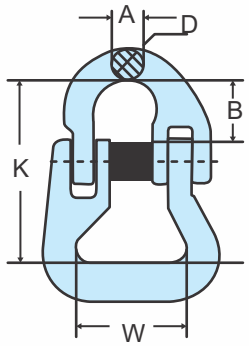
Connecting Link, (Hammer Lock)



SPL - 337

Working Load Limit	For GR8 Chain	Dimension (mm)				N.W.
Ton	mm	K	A	D	B	Kg
1.2	6	42	16	7	17	0.14
2.0	7.8	57	20	10	22	0.2
3.2	10	68	28	11	26	0.38
5.4	13	90	30	15	35	0.76
8.2	16	105	36	20	41	1.20
12.5	18.20	124	44	24	48	1.95
16.0	22	146	51	26	57	2.80
20.6	26	160	58	30	62	4.75
32.8	32	214	68	37	85	9.40

Web Sling Connector



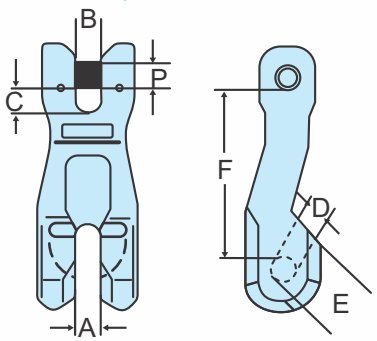
SPL - 336

Working Load Limit	Dimension (mm)					N.W.
Ton	A	B	D	K	H	Kg
2.0	18	22	9	62	40	0.3
3.2	25	26	12	78	47	0.6
5.4	30	35	16	95	53	1.0
8.0	36	41	20	115	67	2.0
12.5	42	46	23	132	80	3.0
15.5	50	60	25	187	125	7.0
21.6	58	61	30	209	150	11.6

Working Load Limit	For GR8 Chain	Dimension (mm)					N.W.
Ton	mm	A,B	C	D	E	F	Kg
1.1	6	6.7	8	7	11	45	0.16
2.0	7.8	8.7	10	9	16	62	0.40
3.2	10	12.5	14	12	25	87	0.94
5.4	13	16.5	17	15	32	115	1.92
8.0	16	20.5	19	19	39	143	3.16
12.5	18-20	21.5	23	22	46	152	6.20

SPL - 311

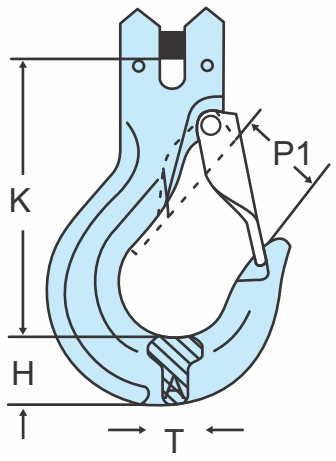
Clevis Claw Hook. (G80 Shortening Hook)



Minimum Breaking Load=4xWorking Load Limit

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

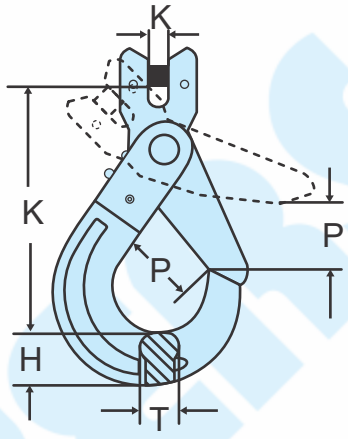
Clevis Chain Sling Hook.



SPL - 314

Working Load Limit	For GR8 Chain	Dimension (mm)				N.W.
Ton	mm	K	P_1	T	H	Kg
1.2	6	75	22	16	26	0.49
2.0	7-8	104	26	22.5	30	0.67
3.2	10	128	31	29	40	1.36
5.4	13	175	45	41	48	3.2
8.0	16	180	48	45	52	4.0
12.5	18-20	195	62	52	53	6.70

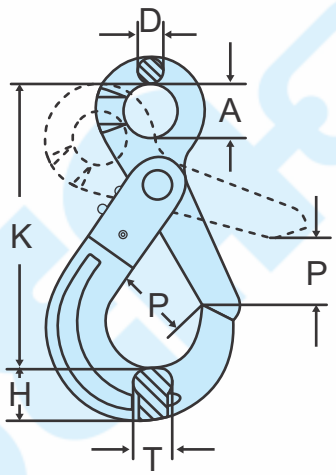
Clevis Self Locking Hook.



SPL - 317

Working Load Limit	For GR8 Chain	Dimension (mm)					N.W.
Ton	mm	K	P	A	T	H	Kg
1.20	6	95	27	8.5	14	19	0.45
2.0	7.8	98	34	9.5	19	24	0.85
3.2	10	142	44	12	24	31	1.45
5.4	13	181	53	15	27	40	2.90
8.2	16	222	60	18	36	53	5.6
12.5	18-20	239	80	25	47	55	6.50
15.0	22	256	82	28	48	64	16

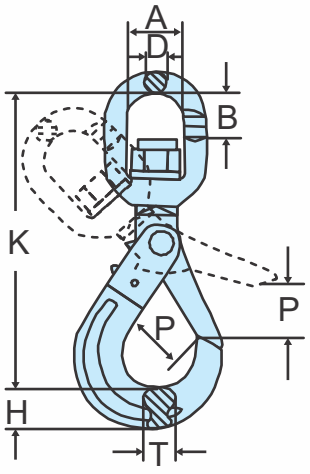
Eye Self Locking Hook.



SPL - 316

Working Load Limit	For GR8 Chain	Dimension (mm)						N.W.
Ton	mm	K	P	A	D	T	H	Kg
1.20	6	110	28	22	10	15	19	0.46
2.0	7.8	134	34	25	12	19	24	0.75
3.2	10	170	45	32	13	24	31	1.5
5.4	13	206	54	40	17	27	40	2.80
8.2	16	249	63	56	22	36	53	5.80
12.5	18-20	273	81	64	24	47	55	7.80
15.0	22	320	82	70	25	48	64	14.00

Swivel Self Locking Hook.



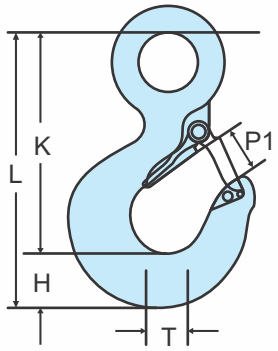
SPL - 326

Working Load Limit	For GR8 Chain	Dimension (mm)							N.W.
Ton	mm	K	P	B	A	D	T	H	Kg
1.20	6	150	28	23	33	11	15	20	0.71
2.0	7.8	185	34	27	34	13	19	24	1.30
3.2	10	217	45	35	42	16	23	30	2.10
5.4	13	268	54	41	48	21	27	40	4.60
8.2	16	330	62	54	61	22	37	49	7.10
12.5	18.20	365	108	70	72	24	45	57	12.00

Minimum Breaking Load=4xWorking Load Limit

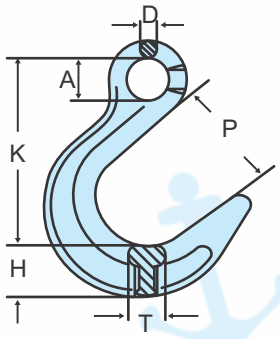
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Eye Hoist Hook.
SPL - 320



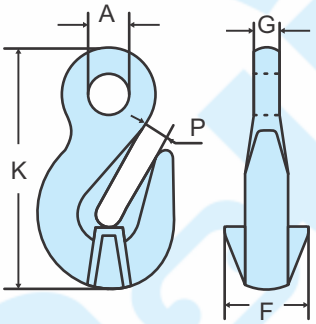
Working Load Limit	For GR8 Chain	Dimension (mm)				N.W.
chain	mm	P_1	H	K	L	Kg
1.12	6-8	22	19	80	110	0.28
2	7/8-8	25	25	103	140.5	0.65
3.15	10.8	27.5	28	118	162	0.94
5.3	13.8	33	35	145	201	1.95
8	16.8	40	45	180	256	3.77
12.5	20.8	51	57	230	317	6.8
15	22.8	57	70	280	380	9.8
21.2	26.8	75	78	318	434	16.25
31.5	32.8	98	91	360	495.5	27.5

Eye Foundry Hook.
SPL - 358



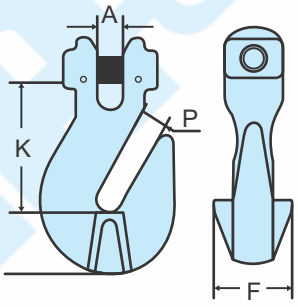
Working Load Limit	For GR8 Chain	Dimension (mm)						N.W.
Ton	mm	K	P	A	D	T	H	Kg
2.0	7-8	121	62	24	12	19	27	0.7
3.2	10	150	75	32	14	24	32	1.2
5.4	13	182	90	40	18	32	38	2.3
8.0	16	215	103	49	22	47	42	4.0
12.5	19	250	111	58	26	45	57	6.0
21.6	26	300	113	66	38	69	78	17.0
32.0	32	384	145	80	48	82	101	35.0

Eye Grab Hook.
SPL - 328



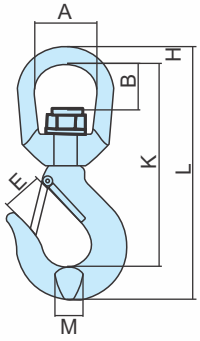
Working Load Limit	For GR8 Chain	Dimension (mm)					N.W.
Ton	mm	P	A	G	K	F	Kg
1.2	6-8	8	13	8	73	33.5	0.14
2.0	7-8	10.8	17	9.5	88	33.5	0.25
3.2	10	13	20	13	121	46	0.65
5.4	13	16.5	26	15.5	158	57.5	1.4
8.2	16	19.2	30	19	169	72	2.1
12.5	20	24	37	23	259	74	6.4
15.5	22	28	34	26	259	90	6.4

Clevis Grab Hook
SPL - 338



Working Load Limit	For GR8 Chain	Dimension (mm)				N.W.
Ton	mm	P	A	K	F	Kg
1.2	6	8	8	42	26	0.20
2.0	7	10.8	11	55	33.5	0.28
3.2	10	13.5	12.5	75	46	0.73
5.4	13	16.5	15	92	57.5	1.6
8.2	16	19.2	19.5	98	74	2.0
12.5	18-20	22	25	113	85	4.25

Swivel Hook with Latch
SPL - 322



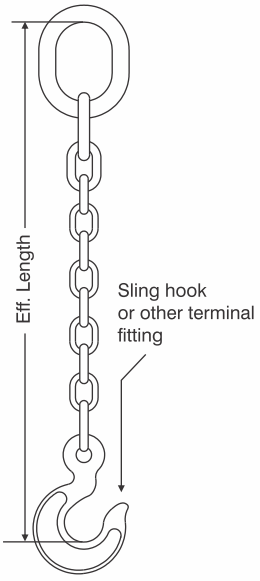
Working Load Limit	For GR8 Chain	Dimension (mm)							N.W. Kg
Ton	mm	A	E	B	H	K	L	M	
1.12	6-8	32	22	17	9	109	137	16	0.34
2	7/8-8	42	21.5	35	15.8	150	192	21	1.02
3.15	10-8	42.5	26	35	15.8	162.5	208.5	23	1.24
5.3	13-3	48	32.5	39	18	191	246	31	3.60
8.0	16-3	62	43	53	25	243.5	313	34	4.66
12.5	20-8	68	49.5	51	28.5	276.5	363.5	41.5	7.40
15	22-8	79	54.5	65	32	332	431	55.7	10.6
21.2	26-8	105	81	114	40	429.5	545.5	70	21.4
31.8	32-8	108	100	69	40	455.2	595	78.2	32

Minimum Breaking Load=4xWorking Load Limit

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

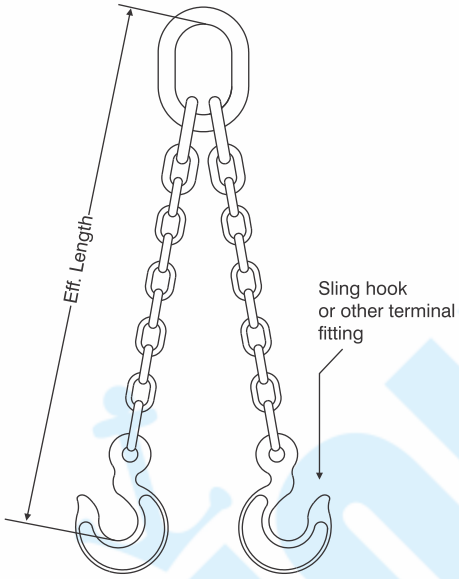
Conventional Welded Chain Slings

Single chain sling



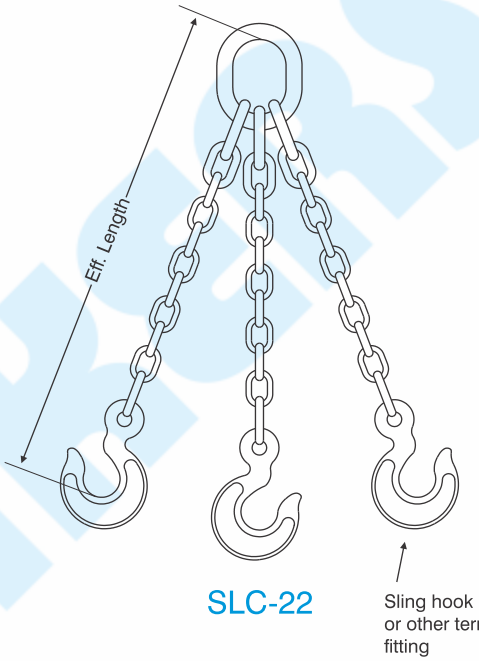
SLC-20

Two leg chain sling



SLC-21

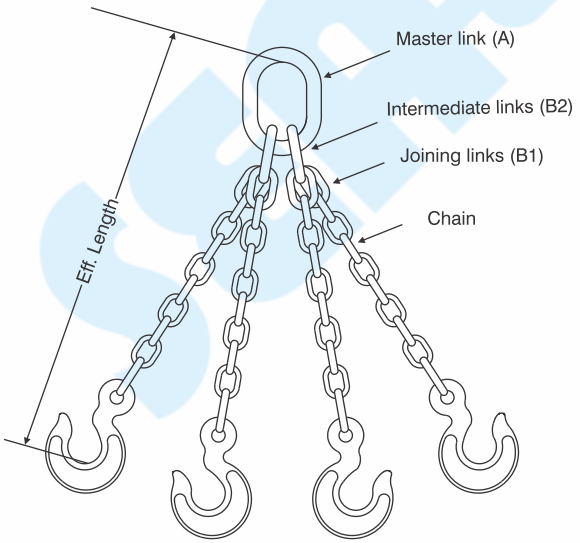
Three leg chain sling



SLC-22

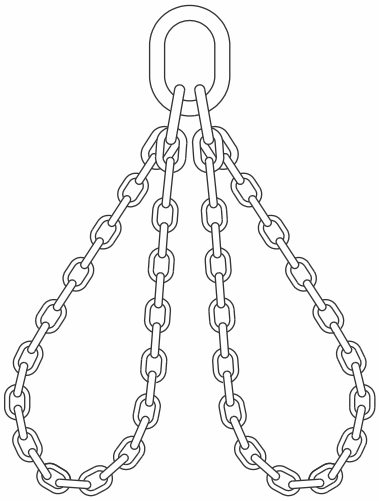
Ring or link at one end, hooks at other ends

Four leg Sling



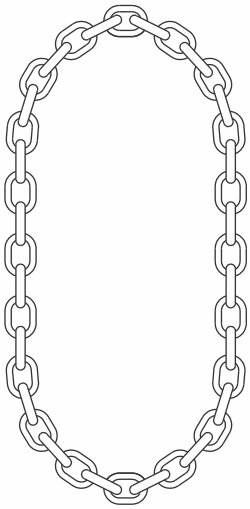
SLC-23

Double loop



SLC-24

Endless Sling

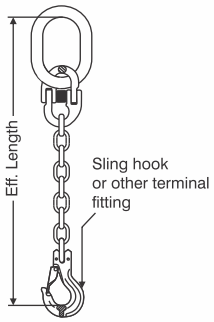


SLC-25

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

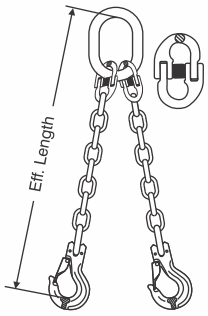
Chain Sling with Shorteners

Single chain sling



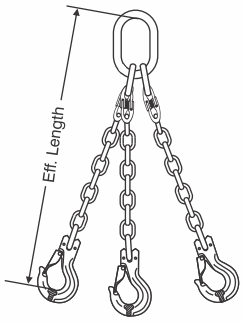
SLC-26

Two leg chain sling



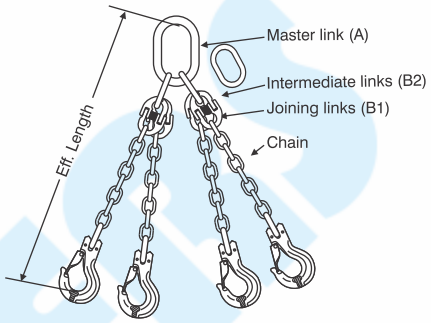
SLC-27

Three leg chain sling

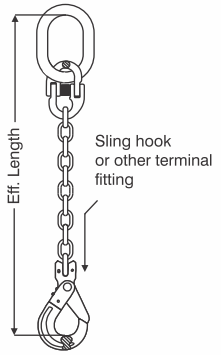


SLC-28

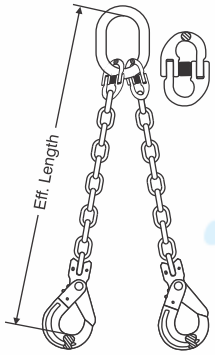
Four leg Sling



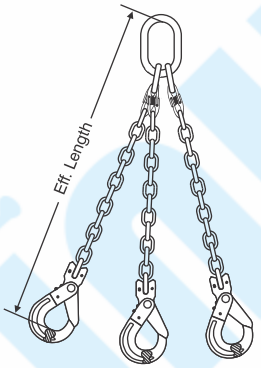
SLC-29



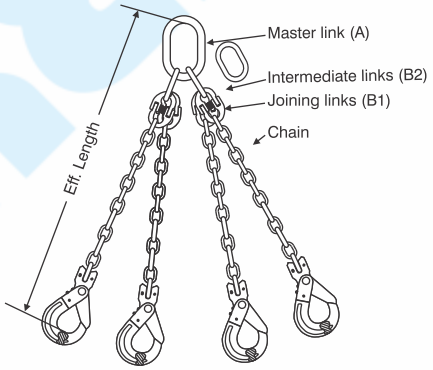
SLC-30



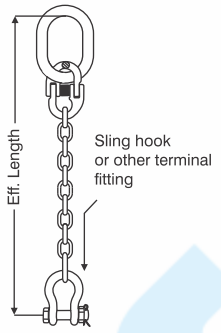
SLC-31



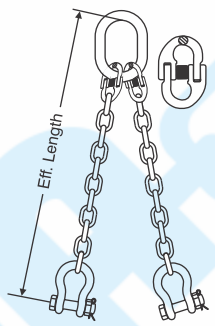
SLC-32



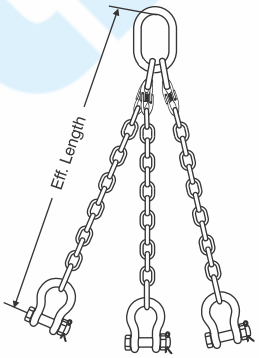
SLC-33



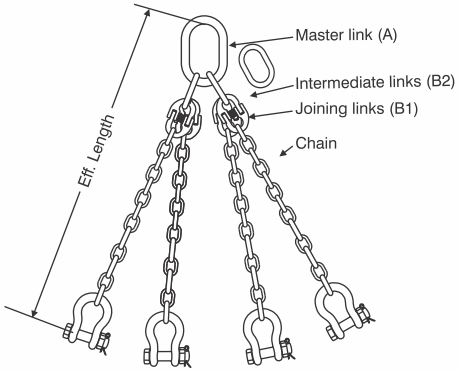
SLC-34



SLC-35

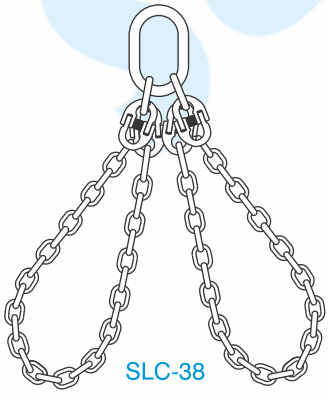


SLC-36

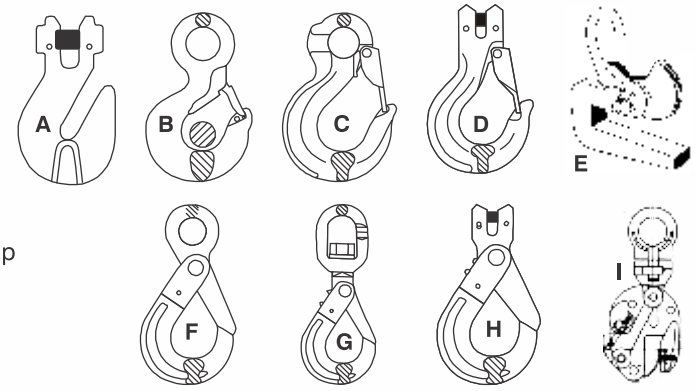


SLC-37

Double loop



SLC-38



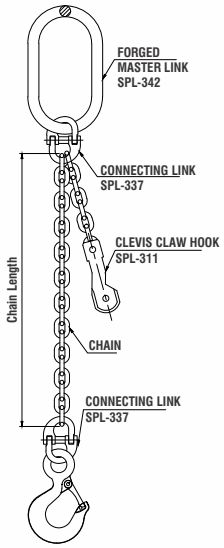
A - Clevis grab hook
B - Eye hook
C - Sling eye hook
D - Clevis sling hook
E - Horizontal plate lifting clamp
F - Eye self locking hook
G - Swivel self locking hook
H - Clevis self locking hook
I - Vertical plate lifting clamp

End fitting available in various option as shown above

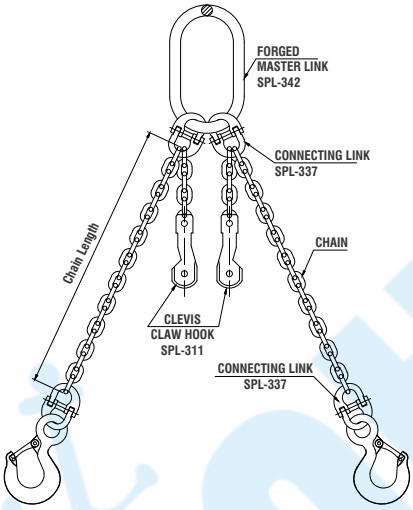
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Chain Sling with Shortness

Single Chain Sling
SLC-43S



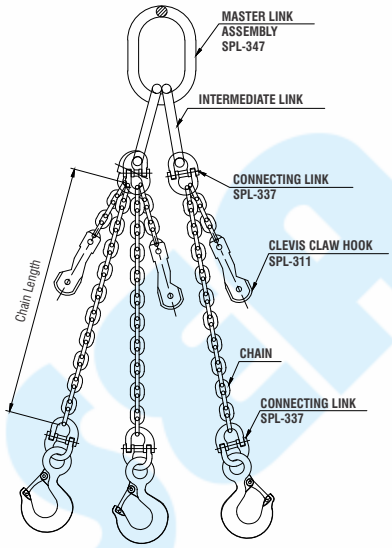
Tow Leg Chain Sling
SLC-44S



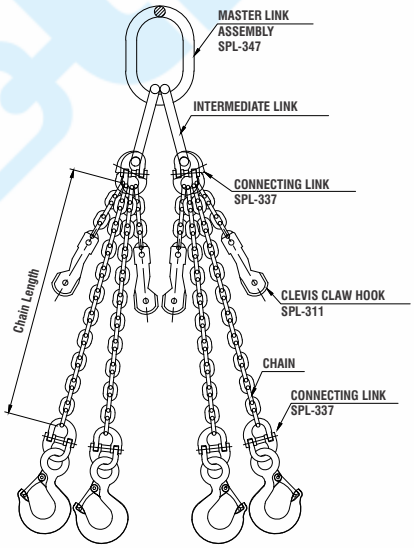
Clevis Grab Hook
SPL - 338



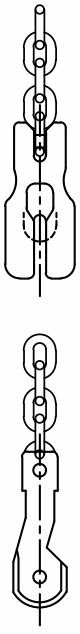
Three Leg Chain Sling
SLC-45S



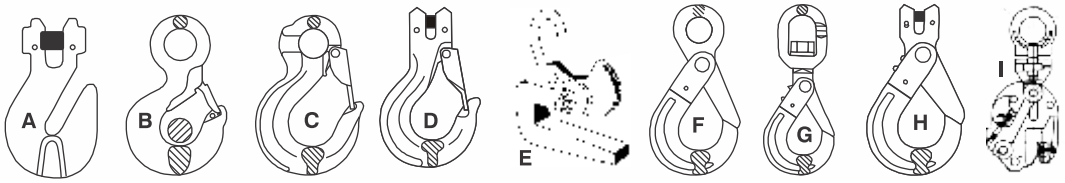
Four Leg Chain Sling
SLC-46S



Clevis Claw Hook with Chain
SPL 311



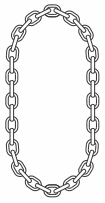
A - Clevis grab hook
B - Eye hook
C - Sling eye hook
D - Clevis sling hook
E - Horizontal plate lifting clamp
F - Eye self locking hook
G - Swivel self locking hook
H - Clevis self locking hook
I - Vertical plate lifting clamp



End fitting available in various option as shown above

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Sling Sheet - Lifting Capacity of Sling / Working Load Limit (MT)

Chain Size mm			Single leg	Endless	Multi-Leg slings at 90° angle			
					2 Legs	3 Legs	4 Legs	2 Loop
GR-30	GR-63	GR-80						
14	9	8	2.0	2.0	2.8	4.2	4.2	2.8
16	10	9	2.5	2.5	3.5	5.2	5.2	3.5
16	12	10	3.2	3.2	4.5	6.7	6.7	4.5
20	14	12	5.0	5.0	7.0	10.5	10.5	7.0
22	16	14	6.3	6.3	8.8	13.2	13.2	8.8
25	18	16	8.0	8.0	11.2	16.8	16.8	11.2
28	20	18	10.0	10.0	14.0	21.0	21.0	14.0
32	22	20	12.5	12.5	17.5	26.2	26.2	17.5
-	25	22	16.0	16.0	22.4	33.6	33.6	22.4
-	28	25	20.0	20.0	28.0	42.0	42.0	28.0
-	32	28	25.0	25.0	35.0	52.5	52.5	35.0
-	36	32	32.0	32.0	44.8	67.2	67.2	44.8

Note: • Slings are generally manufactured in alloy steel grade 80 (GR-80) • For endless chain slings SWL may also be calculated at 1.5 times WLL of each chain

RATING

Single Branch Sling

Single branch slings shall have a working load limit equal to that of the Chain used in their construction.

Multi- Branch Slings

Multi- branch slings shall be rated at a uniform working load limit for an angle between branches of 90°- 120° (45°- 60° to the vertical) or additionally at a uniform working load limit for any angle between branches of 90°- 120° (45°- 60° to the vertical)

Uniform Load Method

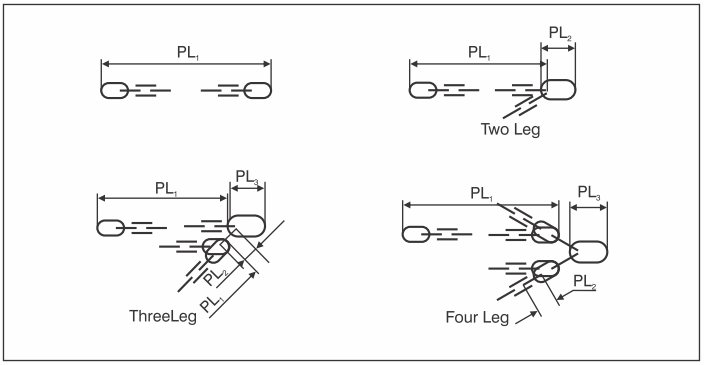
a) **Double branch slings:**
For all angles between branches from 0°- 90° (0°- 45° to the vertical)
WLL = 1.4 x WLL of a single branch made from similar chain. When additionally marked for angles between branches of 90°- 120° (45°- 60° to the vertical)
WLL = 1 x WLL of single branch made from similar chain.

b) **Three and four branch slings:**
For all angles between branches from 0°- 90° (0°- 45° to the vertical)
WLL = 2.1 x WLL of a single branch made from similar chain. When additionally marked for angles between branches of 90°- 120° (45°- 60° to the vertical)
WLL = 1.5 x WLL of single branch made from similar chain.

NOTE: In the case of a three branch sling the angle between branches shall be taken as twice the angle to the vertical, that is 2x. In case of a four branch sling the angle between branches shall be that between diagonally opposite branches.

PROOF LOAD TESTING

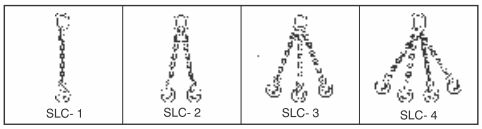
After final heat treatment slings with accessories shall be tested as an assembly, multi- leg chain slings shall be tested in sections. Individual sections of the chain slings shall be subjected to 2.0 times the load to which the section will be subjected when the assembly is subjected to its working load limit in accordance with the following plan.



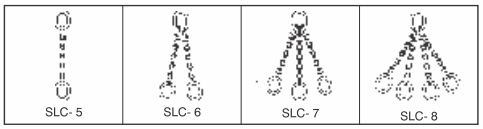
Factors for Working load limit	PL_1	PL_2	PL_3
	1	1.4	2.1
Proof load (2 x WLL)	2	2.8	4.2

NOTE: For working load limits over 25 T, it is permissible to apply proof loads to the links PL_2 and PL_3 reduced in accordance with ILO recommendations.

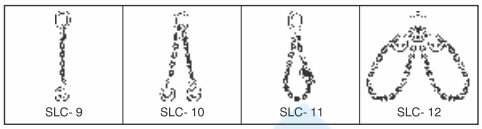
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com



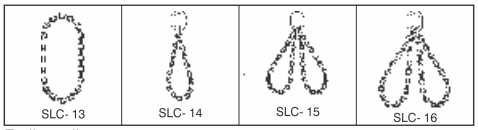
Slings with hook ends ▲



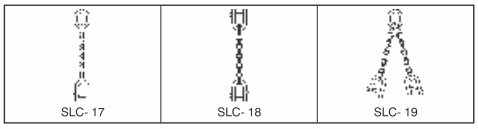
Slings with link ends ▲



Slings with adjustable loops ▲



Endless slings ▲



Miscellaneous slings ▲

Chain Temperature	Reduction on Working load limit %
Up to 200° C	Nil
200° C- 300° C	10
300° C- 400° C	25

Effect of Temperature on chain slings

Slings used at elevated temperatures Sometimes Grade 80 slings may have to be used in conditions where the chain is subjected to higher temperature. The table below gives a general guideline of reduction in working load limit at elevated temperature. We do not recommend the use of chain slings above 400°C.

Important instructions

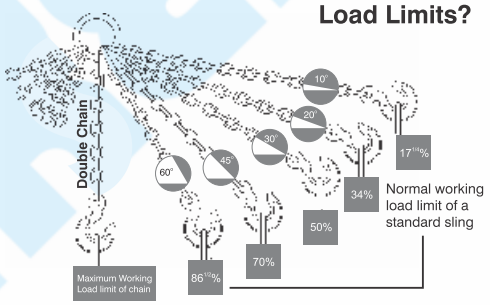
Do's

- Select correct size of sling for the load, taking into account the included angle & possibility of unequal loading in case of multi- leg slings
- Ensure that chain slings are not twisted
- Ensure the load is fully supported in the bowl of the hook, not on tip
- Avoid snatch or sudden loads
- Get your slings inspected by competent person at regular intervals
- Keep register for all slings in use

Dont's

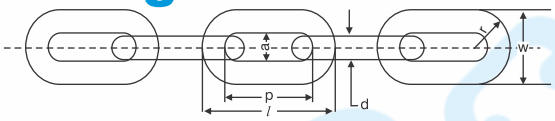
- Leave slings on the floor when not in use. Hang them on hook
- Use sling over sharp corners without protective padding
- Trap the sling under a load
- Use slings which are torn, bent, corroded, locked, stretched or damaged
- Knot a chain
- Heat treat grade 80 slings. This is unnecessary & could be dangerous

How lifting angles reduce Working Load Limits?



Varying lifting angles
Percentages shown are of the maximum Working Load Limit of chain

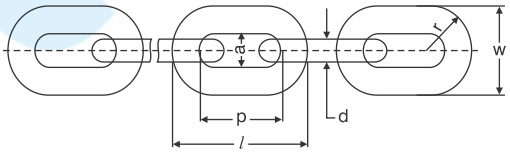
Long Link Chains



1) d = nominal dia of chain
2) p = 4d
3) w = 3.4d
4) l = 6d
5) a = 1.4d

Diameter of Chain d	Grade 1 PL	Grade 2 PL	Approx. mass (27.5m)
mm	KN	KN	Kg
12.5	28.75	41.20	93.5
14	34.78	51.00	117.15
16	47.10	66.20	152.9
17.5	56.35	78.89	182.8
19	66.42	93.60	249.5
20.5	77.33	108.64	275.4
22	89.06	125.40	328.6
24	105.98	149.90	385.0
26	124.38	175.40	449.1
28	144.26	203.80	516.7
30	165.60	234.2	589.4
32	188.42	265.60	664.6
34	212.70	299.90	752.9
36	238.46	336.10	861.2
38	265.70	374.40	957.5

Short Link Chains



GR80 CHAINS CONFIRM TO IS : 6216/82 (CALIBRATED) & IS : 6215/82 (NON-CALIBRATED)

GR30 CHAINS CONFIRM TO IS : 2429/82 PART 2 (CALIBRATED) & IS : 2429/82 PART 1 (NON-CALIBRATED)

Nominal Size dia.	Outside Link Length 5d to 4.75d	Outside Link width 3.25d to 3.5d Max	Pitch 3d	Capacity GR80 SWL	Capacity GR80 MBL	Capacity GR30 SWL	Capacity GR30 MBL	WT /MTR
d	l	w	p	Tons	Tons	Tons	Tons	Kgs
5	25	18	15	0.80	3.20			0.50
6	30	21	18	1.10	4.40	0.44	1.76	0.83
7.1	35.5	25	21.3	1.60	6.40	0.63	2.52	1.10
8	40	28	24	2.00	8.00	0.80	3.20	1.40
9	45	32	27	2.50	10.00	1.00	4.00	1.80
10	50	35	30	3.20	12.80	1.25	5.00	2.10
11	55	39	33	3.80	15.20	1.50	6.00	3.00
12	60	42	36	4.60	18.40	1.80	7.20	3.10
14	70	49	42	6.30	25.20	2.40	9.60	4.50
16	80	56	48	8.00	32.00	3.20	12.80	5.60
18	90	63	54	10.00	40.00	4.00	16.00	7.50
20	100	70	60	12.50	50.00	5.00	20.00	9.00
22	110	77	66	16.00	64.00	6.00	24.00	11.70
25	125	88	75	20.00	80.00	7.80	31.20	14.00
28	140	98	84	25.00	100.00	9.70	38.80	17.60
32	160	112	96	32.00	128.00	12.70	50.80	23.40
36	180	126	108	40.00	160.00	16.00	64.00	29.00
40	200	140	120	50.00	200.00	19.80	79.20	36.00
45	225	158	135	63.00	252.00	25.00	100.00	45.00

Slings also available in grade 100 on request.

SeaLinkers Pvt. Ltd.
B.P.T Plot No. 107, Quay Street, Darukhana, Mumbai - 400 010
Tel: 91-22-2378 8888 • Fax: 91-22-2378 8822 / 2378 8811
Website: www.sealinkers.com • E-mail: sealinkers@sealinkers.com

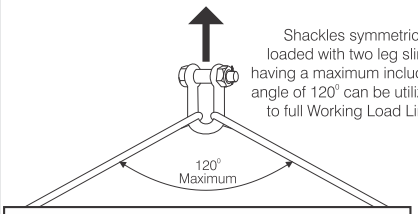
Chain D-Shackles

- Working Load Limit permanently shown on every shackle
- Forged - Quenched and Tempered, with alloy pins
- Capacities 0.5 ton to 55 tons
- Look for the Blue Pin, the mark of genuine SL quality
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Charges for proof testing and certification available when requested at the time of order
- Shackles are galvanized or black
- Made from En8 & Pin-En19



SCREW PIN CHAIN D-SHACKLE

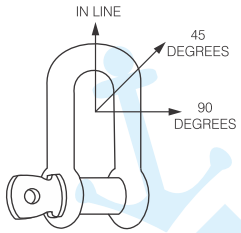
SL-210
Screw pin chain shackles meet the requirements of Federal Specification



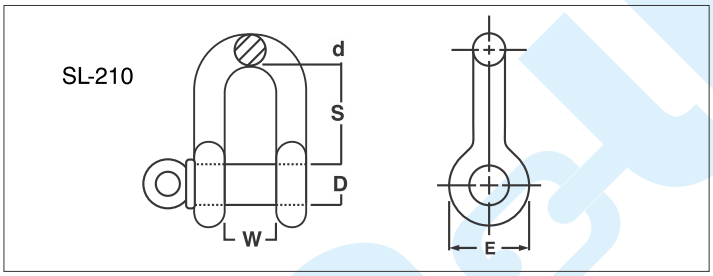
Shackles symmetrically loaded with two leg slings having a maximum included angle of 120° can be utilized to full Working Load Limit.

Never exceed 120° included angle.
Use Bolt Type and Screw Pin Shackles ONLY

Side Loading reduction Chart For Screw Pin & Bolt Type Shackles Only	
Angle of Side load from vertical in line of shackle	Adjusted WLL
0° In Line	100% of Rated WLL
45° From In Line	70% of Rated WLL
90° From In Line	50% of Rated WLL



Angle loads must be applied in the plane of the bow



Working Load Limit Tonnes ISS	BODY DIA mm d	PIN DIA mm D	Jaw Inside Width (mm) W	Inside Length (mm) S	Eye Outside Dia (mm) e	Average weight with Nut Bolt Type Pin (Kg)
0.5	6.4	7.9	11.9	22.4	15.5	0.1
0.75	7.9	9.7	13.5	33.0	19.1	0.1
1.0	9.7	11.2	16.8	31.8	23.1	0.1
1.5	11.2	12.7	19.1	36.6	26.9	0.2
2.0	12.7	16.0	20.6	41.4	30.2	0.3
3.25	16.0	19.1	26.9	51.0	38.1	0.6
4.75	19.1	22.4	31.8	60.5	46.0	1.0
6.5	22.4	25.4	36.6	71.5	53.0	1.4
8.5	25.4	28.7	42.9	81.0	60.5	2.2
9.5	28.7	31.8	46.0	91.0	68.5	3.1
12.0	31.8	35.1	51.5	100.0	76.0	4.1
13.5	35.1	38.1	57.0	111.0	84.0	5.3
17.0	38.1	44.5	60.5	122.0	92.0	7.2
25.0	44.5	51.0	73.0	146.0	106.0	12.1
35.0	51.0	57.0	82.5	171.0	122.0	19.2
55.0	66.5	70.0	105.0	203.0	145.0	32.6

* Note : Maximum Proof Load is 2 times the Working Load Limit or as designated. Minimum Ultimate Load is 5 times the Working Load Limit.
Specifications given are indicative and are subject to change.

Anchor Bow Shackles

- Working Load Limit permanently shown on every shackle
- Forged - Quenched and Tempered, with alloy pins
- Capacities1 ton to 150 tons
- Shackles 55 tons and smaller can be can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification
- Material Certification (Chemical) must be requested at the time of order
- Made from En8 & Pin-En19



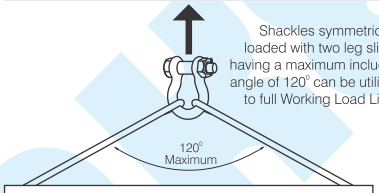
NUT BOLT TYPE ANCHOR BOW SHACKLE

SL-2130
Bolt type anchor shackles with thin head bolt-nut with cotter pin. Meets the requirements of Federal Specification



ROUND PIN ANCHOR BOW SHACKLE

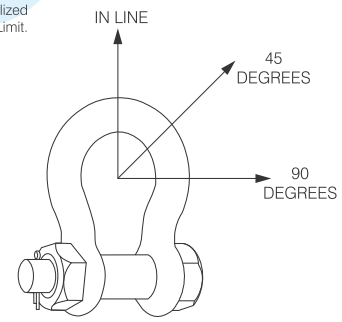
SL-209
Round pin anchor shackles meet the requirements of Federal Specification



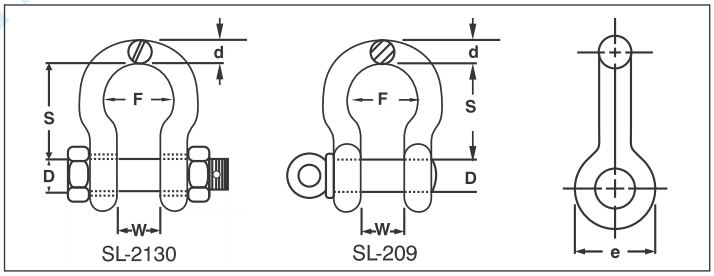
Shackles symmetrically loaded with two leg slings having a maximum included angle of 120° can be utilized to full Working Load Limit.

Never exceed 120° included angle.
Use Bolt Type and Screw Pin Shackles ONLY

Side Loading reduction Chart For Screw Pin & Bolt Type Shackles Only	
Angle of Side load from vertical in line of shackle	Adjusted WLL
0° In Line	100% of Rated WLL
45° From In Line	70% of Rated WLL
90° From In Line	50% of Rated WLL



Angle loads must be applied in the plane of the bow



Working Load Limit Tonnes ISS	BODY DIA mm d	PIN DIA mm D	Jaw Inside Width (mm) W	BOW DIA mm E	Inside Length (mm) S	Eye Outside Dia (mm) e	Average weight with Nut Bolt Type Pin Kg
0.33	4.8	6.4	9.7	15.2	22.3	14.2	0.0
0.5	6.4	7.9	11.9	19.8	28.7	15.5	0.1
0.75	7.9	9.7	13.5	21.3	30.9	19.1	0.1
1.0	9.7	11.2	16.8	26.1	36.5	23.1	0.1
1.5	11.2	12.7	19.1	28.7	42.9	26.9	0.2
2.0	12.7	16.0	20.6	33.3	47.7	30.2	0.3
3.25	16.0	19.1	26.9	42.9	60.5	38.1	0.6
4.75	19.1	22.4	31.8	51.0	71.0	46.0	1.0
6.5	22.4	25.4	36.6	58.0	84.0	53.0	1.5
8.5	25.4	28.7	42.9	68.5	95.0	60.5	2.4
9.5	28.7	31.8	46.0	74.0	108.0	68.5	3.1
12.0	31.8	35.1	51.5	82.5	119.0	76.0	4.3
13.5	35.1	38.1	57.0	92.0	133.0	85.0	6.0
17.0	38.1	41.4	60.5	98.5	146.0	92.0	7.8
25.0	44.5	51.0	73.0	127.0	178.0	106.0	13.8
35.0	51.0	57.0	82.5	146.0	197.0	122.0	20.4
55.0	66.5	70.0	105.0	184.0	267.0	145.0	38.9
85.0	76.0	82.5	127.0	200.0	330.0	165.0	70.0
120.0	92.0	95.0	133.0	229.0	372.0	203.0	120.0
150.0	104.0	108.0	140.0	254.0	368.0	229.0	153.0

* Note : Maximum Proof Load is 2 times the Working Load Limit. Minimum Ultimate Load is 5 times the Working Load Limit.
Specifications given are indicative and are subject to change.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

SL-450

Forged Wire Rope Clamps

SEALINKERS CLAMPS

- Each clamps has a product Identification Code for Material traceability, the name SEALINKERS or “SL”, and a size forged into it.
- Entire Clamps are galvanized / Powder Coated to resist corrosive and rusting action.
- Only Genuine SL Clamps have a Blue colour for instant recognition.
- All Clamps have rolled threads and extra heavy nuts.

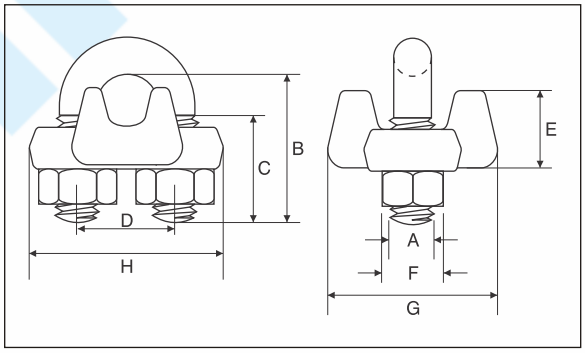
Look for the Blue-U-Bolt your assurance of SL Clamps.



SL Clamps, all sizes 1/4” and larger, meet federal Specification

Rope Size		Weight Per 100	Dimensions (mm)							
(mm)	(in.)	(kg)	A	B	C	D	E	F	G	H
3-4*	1/8*	2.72	5.60	18.3	11.2	11.9	10.4	9.65	20.6	23.9
5*	3/16*	4.54	6.35	24.6	14.2	15.0	12.7	11.2	23.9	29.5
6-7	1/4	8.62	7.85	26.2	12.7	19.1	16.8	14.2	30.2	36.6
8	5/16	12.7	9.65	35.1	19.1	22.4	18.3	17.5	33.3	42.9
9-10	3/8	21.8	11.2	38.1	19.1	25.4	23.1	19.1	41.4	49.3
11	7/16	35.4	12.7	47.8	25.4	30.2	26.2	22.4	46.0	58.0
12-13	1/2	36.3	12.7	47.8	25.4	30.2	28.7	22.4	48.5	58.0
14-15	9/16	49.4	14.2	57.0	31.8	33.3	31.0	23.9	52.5	63.5
16	5/8	49.9	14.2	60.5	31.8	33.3	34.0	23.9	52.5	63.5
18-20	3/4	64	15.7	70.0	36.6	38.1	35.8	26.9	57.0	72.0
22	7/8	96	19.1	79.0	41.1	44.5	40.4	31.8	62.0	80.5
24-26	1	114	19.1	89.0	46.0	47.8	45.2	31.8	67.0	88.0
28-30	1-1/8	128	19.1	98.5	51.0	51.0	48.5	31.8	71.5	91.0
32-34	1-1/4	199	22.4	108	54.0	59.4	55.5	36.6	79.5	105
36	1-3/8	200	22.4	118	58.5	59.4	58.5	36.6	79.5	106
38	1-1/2	247	22.4	125	60.5	66.5	62.0	36.6	86.5	113
41-42	1-5/8	319	25.4	135	66.5	70.0	67.5	41.4	92.0	121
44-46	1-3/4	424	28.7	146	70.0	77.5	74.5	46.0	97.0	134
48-52	2	590	31.8	164	76.0	86.0	77.0	51.0	113	149
56-58	2-1/4	726	31.8	181	81.0	98.5	81.0	51.0	114	162
62-65	2-1/2	862	31.8	195	87.5	105	93.5	51.0	119	168
** 68-72	** 2-3/4	1043	31.8	211	90.5	111	124	51.0	127	175
75-78	3	1406	38.1	233	98.5	121	119	60.5	149	194
** 85-90	** 3-1/2	1814	38.1	273	114	140	152	60.5	157	213

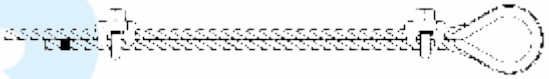
* Electro-plated U-Bolt and Nuts. ** 70mm and 89mm base is made of cast steel.



1. Refer to table I in following these instructions. Turn back specified amount of rope from thimble or loop. Apply first clip one base width from dead end of rope. Apply U-Bolt over dead end of wire rope - live end rests in saddle (Never Saddle a dead horse!). Tighten nuts evenly, alternate from one nut to the other until reaching the recommended torque.

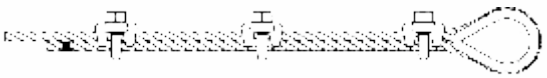


2. When two clips are required, apply the second clip as near the loop or thimble as possible. Tighten nuts evenly, alternating until reaching the recommended torque. When more than two clips are required, apply the second clip as near the loop or thimble as possible, turn nuts on second clip firmly, but do not tighten. Proceed to Step 3.



3. When three or more clips are required space additional clips equally between first two - take up rope slack-tighten nuts on each U-Bolt evenly, alternating from one nut to the other until reaching recommended torque.

4. WIRE ROPE SPLICING PROCEDURES:
The Preferred method of splicing two wire ropes together is to use interlocking turnback eyes with thimbles, using the recommended number of clips on each eye (See Figure 1).An alternate method is to use twice the number of clips as used for a turnback termination. The rope ends are placed parallel to each other, overlapping by twice the turnback amount shown in the application instruction. The minimum number of clips should be installed on each dead end (See Figure 2).Spacing, installation torque, and other instructions still apply.



5. IMPORTANT
Apply first load to test the assembly. This load should be of equal or greater weight than loads expected in use. Next, Check and retighten nuts to recommended torque. In accordance with good rigging and maintenance practices, the wire rope end termination should be inspected periodically for wear, abuse, and general adequacy.



Figure 1

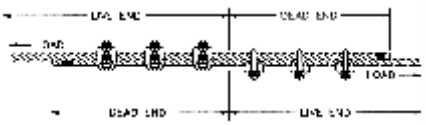
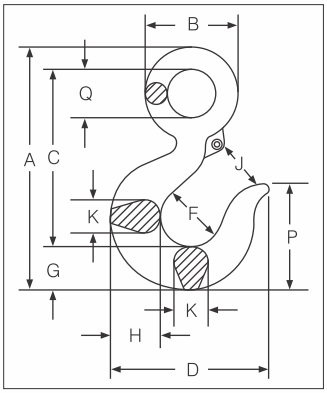


Figure 2

Specifications given are indicative and are subject to change.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com





EYE HOOK SL-320

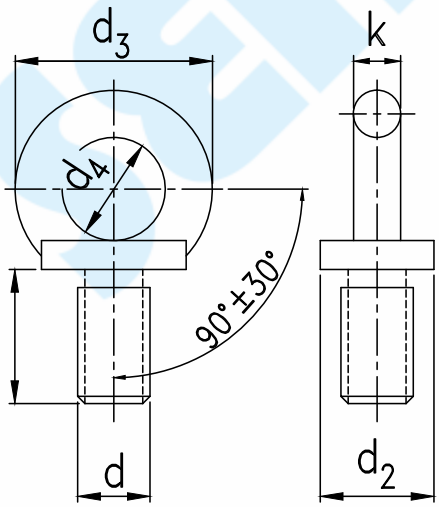
Eye Hooks

- The most complete line of Eye hooks. Available ½ ton to 30 tons.
- Proper design, careful forging and precision controlled quench and tempering give maximum strength.
- Every Eye Hook has a pre-drilled cam which can be equipped with a latch.
- Eye hook is load rated.

Working Load Limit* t	Dimensions (mm)										
Alloy	A	B	C	D	F	G	H	J	K	P	Q
1.25	110	37.3	81.5	73.0	31.8	19.1	20.1	24.6	14.2	51.0	19.1
1.6	125	44.5	93.5	81.0	35.1	21.3	23.9	26.9	15.8	57.0	23.1
2.5	141	51.5	104	92.0	38.1	25.4	29.5	28.5	19.1	64.0	28.7
3.2	162	61.0	119	104	41.4	28.5	33.3	31.8	21.3	72.0	31.8
5.4	201	74.5	147	125	51.0	36.6	41.2	38.1	28.5	90.5	39.6
8	256	97.0	187	165	63.5	46.0	52.0	47.8	35.1	113	51.0
11.5	316	119	230	192	76.0	57.0	66.5	57.0	41.2	140	62.0
16	354	137	255	221	82.5	65.5	74.5	63.5	49.3	157	72.0
22	434	168	318	279	108	75.5	89.0	86.0	60.5	186	89.0
30	495	178	357	346	127	92.0	117	102.0	76.0	223	89.0

*NOTE : Proof load is 2 times Working Load Limit. All carbon hooks-average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 1 - 22 ton - average straightening load (ultimate load) is 4 times Working Load Limit. Alloy eye hooks 30-60 tons-average straightening load (ultimate Load) is 4 times the Working Load Limit. All Alloy hooks-average straightening load (ultimate load) is 4 times Working Load Limit.

Eye Bolts

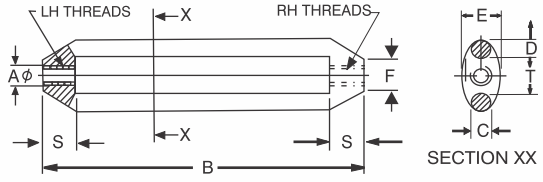


Eye Bolts as per DIN: 589C-15

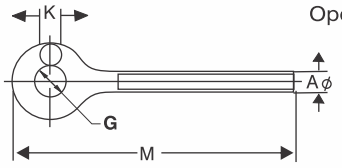
	Maximum Permissible Loads In Kg						
	For 1 Eye Bolt Firmly Tightened	For 2 Eye Bolt Firmly Tightened					
Size							
M			d_2	d_3	d_4	l	k
*6	70	50	20	28	20	13	7
8	140	95	20	36	20	13	8
10	230	170	25	45	24	17	10
12	340	240	30	54	30	20	12
16	700	500	35	63	34	27	14
20	1200	830	40	72	39	30	16
24	1800	1270	50	90	49	36	20
30	3600	2600	65	108	59	45	24
36	5100	3700	75	126	68	54	28
42	7000	5000	85	144	78	66	32
48	8600	6100	100	166	87	70	38
56	11500	8300	110	184	100	84	42
64	16000	11000	120	206	107	92	48
72	21000	15000	150	260	140	100	60
80			170	296	160	112	68

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

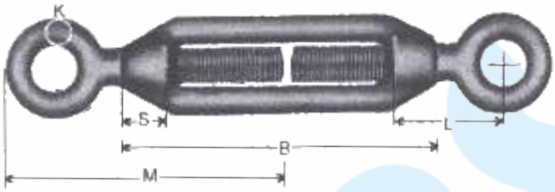
Straining Screws / Turn Buckles



Open Body



Short Screw Eye

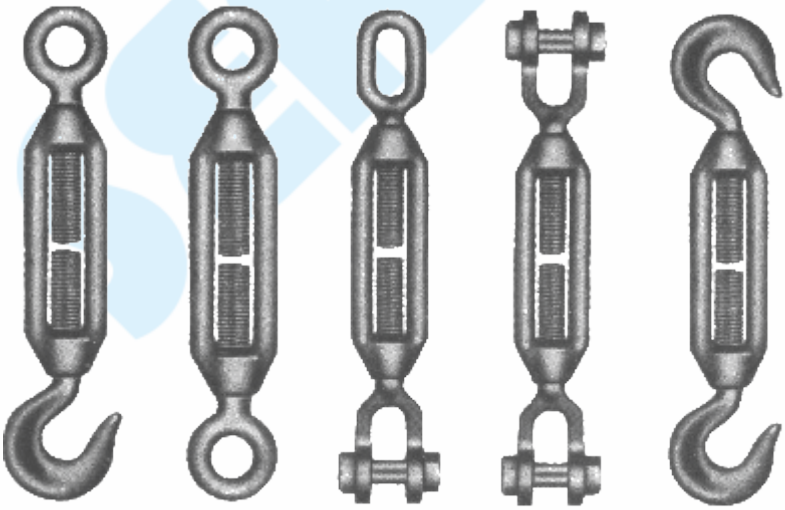


Assembly of double ended type stretching screw



Assembly of Double Ended Type Stretching Screw

Nominal Size	Assembly and Body								Screw Eye			Proof Load	Safe Working Load
A	B	C	D	E	F	L	S	T	G	K	M	KN	KN
M6	100	6	5	12	9	32	10	11	9	6	80	2.0	1.0
M8	125	8	6	16	13	35	13	13	13	8	100	3.0	1.5
M10	160	10	8	19	15	45	15	15	16	10	130	6.0	3.0
M12	200	12	10	22	19	54	18	18	19	12	150	9.0	4.0
M14	225	15	12	25	22	60	21	22	22	12	175	12.0	6.0
M16	250	18	14	29	24	66	24	24	24	14	200	15.2	7.6
M20	315	20	16	33	30	80	30	30	30	16	230	22.4	11.2
M22	355	22	18	41	33	88	32	32	33	18	270	32.4	16.2
M24	400	24	20	43	36	100	35	35	36	18	310	40.0	20.0
M30	450	30	22	50	45	120	42	42	44	24	350	63.0	31.5
M36	450	36	28	60	55	135	50	50	52	28	380	90.0	45.0
M45	450	40	36	75	58	165	60	60	67	35	415	142.0	71.0
M52	450	45	40	100	75	190	70	70	80	42	450	190.0	95.0

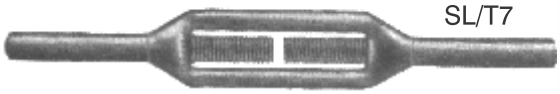


SL/T1 SL/T2 SL/T3 SL/T4 SL/T5

SL/T6



SL/T7



Other types of Turnbuckles

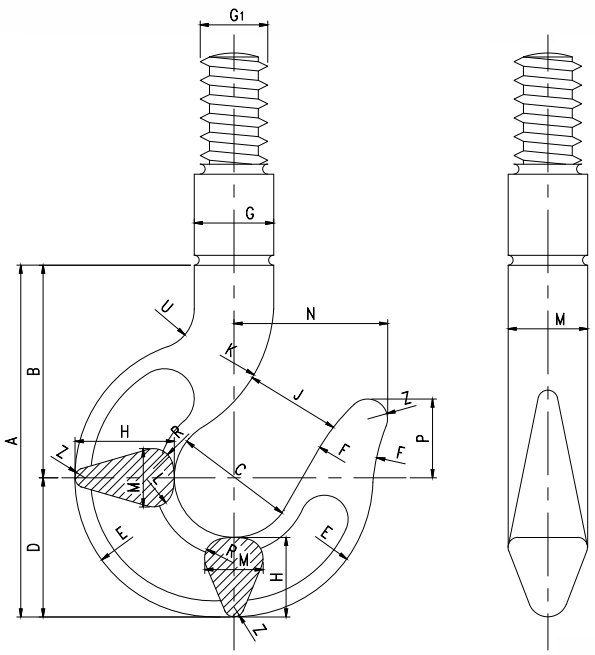
Meets IS: 3121-1981

Specifications given are indicative and are subject to change.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Trapezoidal Shank Hooks

IS: 3815 / 1969



Standard Trapezoidal section point Hooks with Shank

Note - Undercut according to IS - 1369 - 1961

*Calculating formulae for C:

For MS, C = 26.73√P

#Machined shank diameter (Min)

❖See IS: 4218-1967 ISO metric screw threads

$ Boundary dimensions of rolling bearings for general engineering purposes.

MS = Mild Steel / Alloy Steel

Dimensions of screw thread run outs and undercuts

W S.W.L. Tons	P Proof Load Tons	A (2.75C)	B (1.31C)	C*	D (1.44C)	E (1.25C)	F (1.00C)	G*	Thread* Nominal Size G1	Thread* Pitch	H (0.93C)	J (0.75C)	K (0.92C)	L (0.70C)	M (0.60C)	N (1.20C)	P (0.50C)	R (0.50C)	U (0.30C)	Z (0.12C)	Ball Bearing To IS:2313 - 1963$ Bore	Series	Outside Dia.	Width
0.5	1	MS 74	35	27	39	34	27	15	M14		25	20	25	MS 19	16	32	14	14	8	3	15	11	28	9
1.0	2	MS 105	50	38	55	48	38	20	M20		35	28	35	MS 27	23	46	19	19	11	5	20	11	35	10
2.0	4	MS 145	69	53	76	66	53	30	M27		49	40	49	MS 37	32	64	26	26	16	6	30	12	52	16
3.2	6.4	MS 187	89	68	98	85	68	35	M33		63	51	63	MS 48	41	82	34	34	20	8	35	13	68	24
5.0	10	MS 233	111	85	122	106	85	45	M42		79	64	78	MS 60	51	102	42	42	26	10	45	13	85	28
8.0	16	MS 294	140	107	154	134	109	55	M52		100	80	98	MS 75	64	128	54	54	32	13	55	13	105	35
10.0	20	MS 327	156	119	171	149	119	60	M60	Course series with graded pitches	111	89	109	MS 83	71	143	60	60	36	14	60	13	110	35
12.0	25	MS 369	176	134	193	168	134	70	M68		125	100	123	MS 94	80	161	67	67	40	16	70	13	125	40
16.0	32	MS 415	198	151	217	189	151	80	M76	6	140	113	139	MS 106	91	181	76	76	45	18	80	13	140	44
20.0	40	MS 465	221	169	243	211	169	85	M80	6	157	127	155	MS 118	101	203	84	84	51	20	85	13	150	49
25.0	50	MS 520	248	189	272	236	189	100	M90	6	176	142	174	MS 132	113	227	94	94	57	23	100	13	190	63
32.0	60	MS 569	271	207	298	259	207	110	M100	8	193	155	191	MS 145	124	248	104	104	62	25	110	13	210	70
40.0	70	MS 616	293	224	323	280	224	120	M110	8	208	168	206	MS 157	134	268	112	112	67	27	120	13	210	70
50.0	85	MS 680	324	247	356	309	247	130	M120	8	229	187	227	MS 173	148	296	124	124	74	30	130	13	225	75

All dimensions in mm

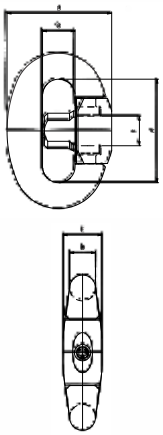
Specifications given are indicative and are subject to change.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Release Link

nemag

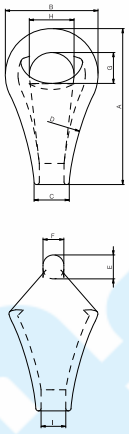




Link No.	Working load*	Breaking load	Size in mm						Weight
4	kg	kg	A	B	0	D	E	F	kg
5	3000	25000	76	76	24,5	19	30	21	0,9
6	4500	33000	84	84	27	21	32,5	23	1,2
7	5000	37500	92	92	29,5	23	35	25	1,5
8	7000	49000	100	100	32	25	38	28	2,0
9	8000	54000	108	108	34,5	27	40,5	31	2,5
10	9500	60000	116	116	37	29	43,5	34	3,1
11	12000	75000	128	128	40,5	32	48	37	4,4
12	15000	95000	140	140	44	35	53	40	5,7
13	17000	110000	152	152	47,5	38	57	43	7,2
14	21000	135000	164	164	51	41	61,5	46	8,7
15	26000	160000	176	173	54	44	66	50	11
17	30000	175000	188	188	58	47	70,5	52	13,5
	42500	260000	222	222	68	56	84	62	23

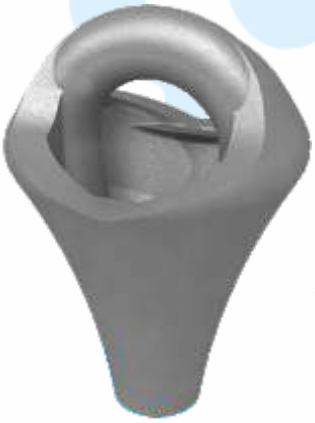
Rope Pear Sockets

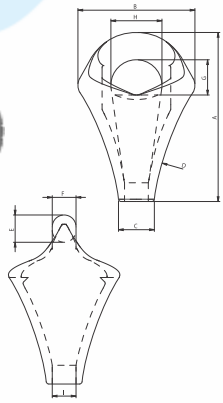




Pear No.	Wire rope Ø	Work. load*	Break. load	Size in mm									Weight
	mm	kg	kg	A	B	C	D	E	F	G	H	I	kg
1	10-11	1500	10000	81	48	22	195	12	11,5	20	24	12	0,4
2	12-13	2000	14000	95	56	25	195	15,5	13,5	22	25	14	0,5
3	14-15	2500	17500	109	64	28	220	17,5	15,5	24	29	16	0,6
4	16-17	3000	22500	123	70	31	220	19,5	17,5	26	31	18	0,9
5	18-19	4500	27500	135	84	33	245	21	19	30	42	20	1,3
6	20-21	5000	35000	152	84	36	310	23	21	33	38	23	1.7
7	22-24	7000	42500	166	100	40	310	26	23	37	48	26	2,3
8	25-27	8000	52500	186	100	43	350	28	25	39	44	29	3,2
9	28-30	11000	70000	202	120	45	350	31	27	40	58	32	4,1
10	31-33	13000	85000	222	120	52	445	32	28,5	45	56	37	5,2
11	34-36	15000	95000	239	142	55	445	36	31,5	50	70	40	6,4
12	37-39	17000	110000	264	142	60	495	39	34,5	51	64	41	7,9
13	40-42	21000	125000	285	166	63	555	43	36,5	59	80	44	9,5
14	43-45	26000	155000	312	166	68	595	47	40	62	72	48	11,2
15	46-48	30000	180000	337	170	75	595	51	44	66	68	53	13
17	52-56	42500	240000	400	220	84	880	60	54	75	90	59	23

Nemag Rope Pear Sockets type S



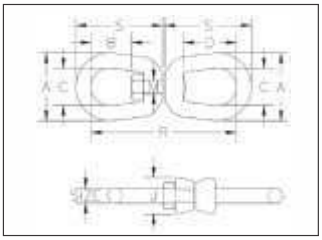


Pear No.	Wire rope Ø	Work. load*	Break. load	Size in mm									Weight
	mm	kg	kg	A	B	C	D	E	F	G	H	1	kg
924	22-24	11000	70000	192	133	40	325	31	27	40	58	27	4
1026	25-27	13000	85000	212	143	43	375	35	30,5	43	60	30	5
1130	28-30	15000	95000	239	156	45	400	36	31,5	50	70	33	7
1232	31-33	17000	110000	249	165	52	450	39	34,5	57	72	36	8,5
1336	34-36	21000	125000	285	184	62	450	43	36,5	60	80	40	9,5
1440	37-40	26000	155000	297	192	60	475	47	40	62	80	44	12
3221	42-44	32500	189000	314	204	66	425	53	46	70	80	47	13,5
1548	46-48	30000	180000	329	192	67	575	51	44	66	80	52	12,5
1648	46-48	36000	215000	343	218	70	500	56	50	75	90	52	18

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

SL-402 Regular Swivels

- Hot dip Galvanized
- Quenched & Tempered





6 - 32 mm size

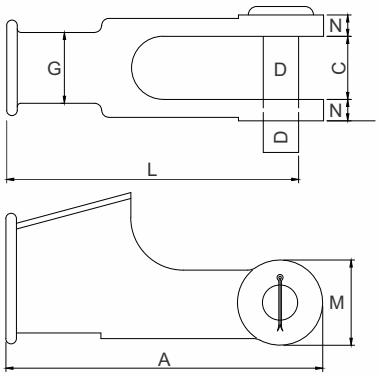
Size (mm)	Working Load Limit (t)*	Weight Each (kg)	Dimensions (mm)							
			A	B	C	D	J	M	R	S
6	.39	.10	31.8	17.5	19.1	26.9	17.5	7.85	74.5	42.9
8	.57	.18	41.4	20.6	25.4	31.8	20.6	9.65	90.0	52.0
10	1.02	.32	51.0	23.9	31.8	38.1	25.4	12.7	109	63.5
13	1.63	.60	63.5	33.3	38.1	51.0	33.3	16.0	138	81.0
16	2.36	1.13	76.0	39.5	44.5	60.5	38.1	19.1	167	98.5
19	3.27	1.82	89.0	44.5	51.0	67.0	47.8	22.4	183	109
22	4.54	2.83	102	52.0	57.0	77.5	54.0	25.4	213	127
25	5.67	4.06	114	58.5	63.5	89.0	60.5	28.7	245	146
32	8.16	7.42	143	68.5	79.5	93.5	76.0	38.1	291	172
38	20.5	20.8	180	98.5	104	98.5	95.2	57.0	424	252

*Ultimate Load is 5 times the Working Load Limit.

SL-421T Wedge Sockets

- Wedge socket terminations have an efficiency rating of 80% based on the catalog strength of wire rope.
- Basket is cast steel.
- Pin diameter and jaw opening allows wedge and socket to be used in conjunction with closed swage and spelter sockets.
- Secures the tail or “dead end” of the wire rope to the wedge, thus eliminates loss or “Punch out” of the wedge.
- The tail, which is secured by the base of the clip and the wedge, is left undeformed and available for reuse.





Wire Rope Die		Dimensions (mm)								Weight
Inch	mm	A	B	C	D	G	L	M	N	(Kgs)
3/8	10	143	22	21	21	29	121	40	11	0.90
1/2	12	173	27	25	25	35	146	59	12	2.15
5/8	16	207	31	32	30	44	176	57	14	3.50
3/4	18/20	248	36	38	35	53	213	67	17	5.30
7/8	22	283	42	44	41	59	241	79	19	9.30
1	25	324	51	51	51	65	273	95	22	13.70
1.1/8	28	365	57	57	57	75	308	108	25	19.70
1.1/4	32	406	65	65	65	80	343	121	28	26.00

Dimensions in (mm)

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

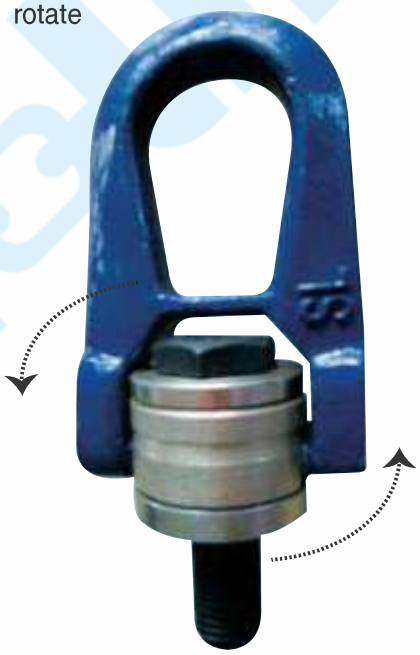
Swivel Hoist Ring



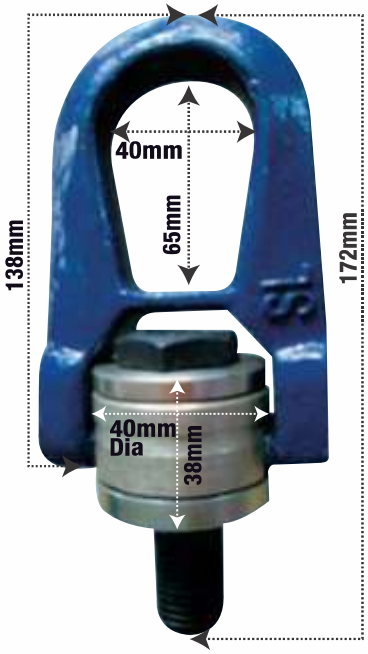
180 degree
pivot



360 degree
rotate



Nominal Dimensions



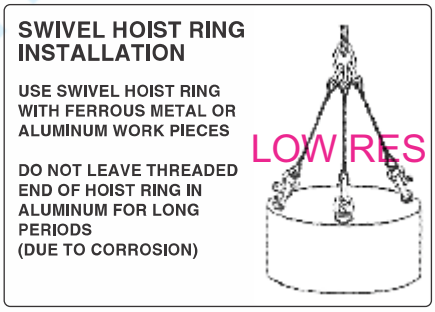
The nominal dimension shown here are for sizes M8 to M20

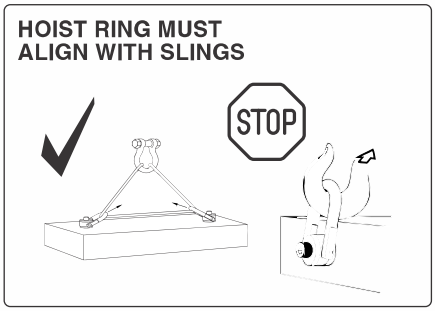
Distributors: Crosby® usha martin GARWARE indef WIRELOCK®

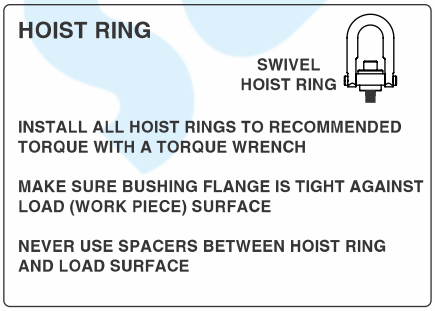
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

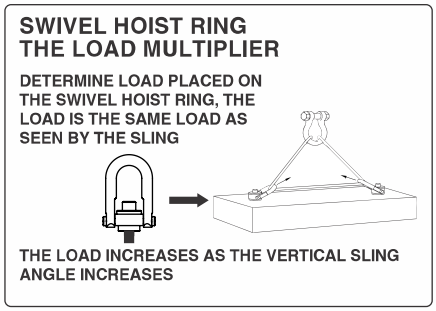
1. Never exceed W.L.L.
2. Use swivel hoist ring only with ferrous (steel and iron) or nonferrous (i.E., Aluminum) loads. Drill and tap the work piece to the correct size to a minimum depth of 1/2 the threaded shank diameter plus the threaded shank length. See rated load limit and bolt torque requirements imprinted on top of the swivel trunnion.
3. Install hoist ring to recommended torque with a torque wrench making sure the bushing flange meets the load (work piece] surface.
4. Never use spacers between bushing flange and mounting surface.
5. Always select proper load rated lifting device for use with swivel hoist ring. Attach lifting device ensuring free fit to hoist ring bail (lifting ring). Apply partial load and check proper rotation and alignment. There should be no interference between load (work piece] and hoist ring bail.
6. When a hoist ring is installed with a retention nut, the nut must have a full thread engagement and must meet one of the following standards to develop the working load limit (W.L.L.). Astm a-563 (a) grade d hex thick (b) grade dh standard hex sae grade 8 - standard hex

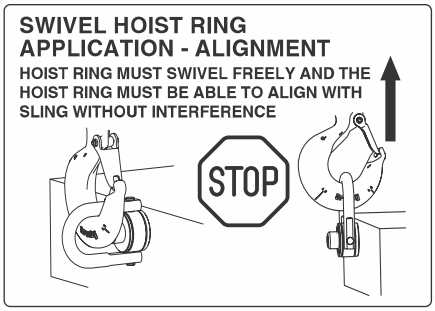
Manufacturing sizes - Bolt threading	Shank length	Working Load Limit (Kg) at a 5:1 design safety factor	Working Load Limit (Kg) at a 4:1 design safety factor
M8	20mm	400	500
M10	20mm	450	550
M12	32mm	1050	1300
M16	32mm	1900	2400
M20	40mm		
M24		4200	5250
M30		7000	8750
M36		11000	13750
M42		12500	15600
M48		13500	16900







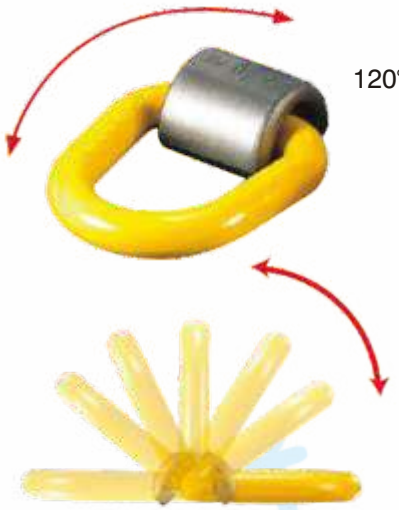




SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Weld-on Point

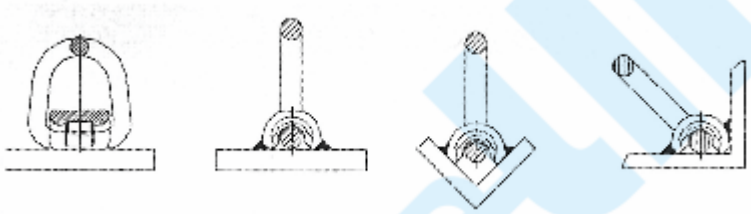
Designed with spring, stop at any angle



120° Pivot



Stop at Any Angle





- Pivots through 180".
- Manufactured from forged alloy steel, quenched and tempered.
- Manufactured and tested in accordance with EN 1677-1.
- Load rated parts are 100% magnaflux crack detected.
- Individual forged parts are traceable to Test Certification.
- Proof tested to 2.5 times the WLL.
- Fatigue rated to 1.5 times the WLL.
- All YOKE Lifting points meet or exceed all the requirements of ASME B30.26.
- WLL forged onto each product fa quick and easy identification.
- Lugs designed to assist the welding process.
- A protected spring keeps the load ring in a required position. The parts are connected in such a way that they remain captive. The spring also reduces noise caused by vibrations.

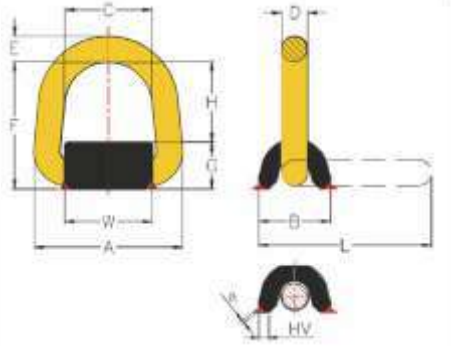
Item No.	Working Load Limit tonnes	Dimensions (mm)									N.W. kg
		A	B	D	F	H	K	L	N	R	
8-057-1T	1.0	83	14	14	27	57	40	109	24	50	0.5
8-057-3T	3.0	98	17	17	31	53	48	114	29	58	0.9
8-057-5T	5.0	120	22	22	41	77	63	157	33	64	1.3
8-057-8T	8.0	121	26	26	54	69	73	169	34	61	2.6
8-057-10T	10.0	146	20	30	54	88	73	191	41	75	3.1

*Design factor 5:1

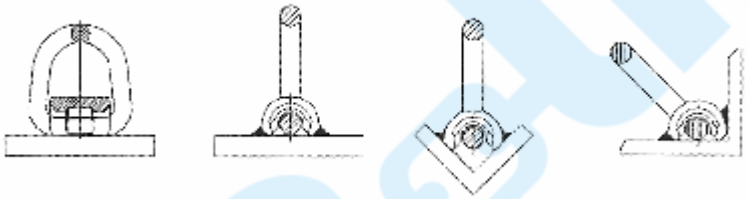
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Weld-on Point.

without spring inside





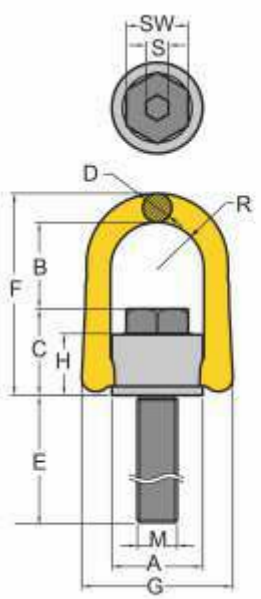


- Pivots through 180°.
- Manufactured from forged alloy steel, quenched and tempered.
- Manufactured and tested in accordance with EN1677-1.
- Load rated parts are 100% magnaflux crack detected.
- Individual forged parts are traceable to Test Certification.
- Proof tested to 2.5 times the WLL.
- Fatigue rated to 1.5 times the WLL.
- All YOKE Lifting points meet or exceed all the requirements of ASME B30.26.
- WLL forged onto each product for quick and easy identification.
- Lugs designed to assist the welding process.

	Item No.	Working Load Limit tonnes	Dimensions (mm)											N.W. kg
			A	C	D	E	F	H	K	L	W	HV	a	
①	8-0573-01	1.0	83	48	14	–	26	49	37	105	48	5	3	0.5
	8-0573-03	3.0	98	58	17	--	31	54	48	112	54	6	3	0.9
	8-0573-05	5.0	120	66	22	--	37	55	56	154	56	7	3	1.3
	8-0573-08	8.0	121	68	26	--	47	75	68	169	55	10	4	2.4
②	8-0573-10	10.0	146	82	20	30	47	78	68	191	70	10	4	2.8
	8-0573-20	20.0**	186.5	100	25	37	70	110	93	234	91	20	4	6.5
	8-0573-30	30.0**	254.5	140	35	45	98	127	130	328	127	20	4	17.2

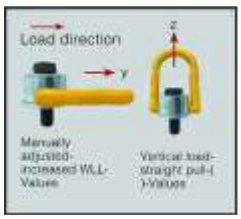
*Design factor 5:1
**Design factor 4:1

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com





- Taiwan Patent
- China Patent



Anchor Point

Metric Thread (8-231)

- Rotates through 360° and pivot 180°, and simultaneously allows lifting from any direction.
- Manufactured from forged alloy steel, quenched and tempered.
- Manufactured and tested in accordance with EN1677-1.
- Load rated parts are 100% magnaflux crack detected.
- Individual forged parts and cap screw are traceable to Test Certification
- Bolt are Metric thread (ASME / ANSI B18.3.1M).
- Proof tested to 2.5 times the WLL.
- Fatigue rated to 1.5 times the WLL.
- All YOKE Lifting points meet or exceed all the requirements of ASME B30.26.
- Quick and simple assembly, just a tapped hole is required.

Item No.	Working Load Limit		Dimensions (mm)													Torque in	N.W. kg
	y	(z)	M	E	Pitch	A	B	C	D	F	G	H	R	S	SW		
	tonnes		mm		DIN13				mm							Nm	
8-231-005	0.5	0.8	M 8	12	1.25	33	42	28	11	80	58	23	17	6	13	30	0.3
8-231-007	0.7	1.2	M 10	15	1.5	33	41	29	11	80	58	23	17	6	17	60	0.3
8-231-010	1.0	2.0	M 12	20	1.75	33	40	31	11	80	58	23	17	8	19	100	0.3
8-231-015	1.5	2.4	M 1A	21	2	50	56	45	17	117	90	36	27	10	22	120	0.9
8-231-020	2.0	3.2	M 16	24	2	50	54	46	17	117	90	36	27	10	24	150	0.9
8-231-025	2.5	5.0	M 18	26	2.5	65	78	57	20	153	108	44	34	12	30	200	1.9
8-231-030	3.0	5.6	M 20	30	2.5	50	52	49	17	117	90	36	27	12	30	250	1.0
8-231-050	5.0	9.2	M24	36	3	72	81	59	25	163	125	44	37	14	36	400	2.6
8-231-056	5.6	9.2	M 27	38	3	87	86	79	30	204	148	62	46	17	41	400	4.9
8-231-078	7.8	12.0	M 30	48	3.5	87	94	81	30	204	148	62	46	17	46	500	5.0
8-231-125	12.5	140	M 36	54	4	110	112	98	36	247	188	75	57	22	55	1000	9.6
8-231-156	15.6	16.0	M42	63	4.5	110	101	108	36	247	188	83	57	24	65	1500	10.9
8-231-200	20.0	20.0	M 48	72	5	110	97	113	36	248	188	83	57	27	75	2000	11.6
8-231-220	22.0	22.0	M 56	84	5.5	123	116	121	36	274	202	91	64	27	85	2100	15.0
8-231-225	22.5	22.5	M 64	100	6	123	111	126	36	274	202	91	64	32	95	2200	16.3

*Proof Loadis2.5 timesthe Working Load Limit on the 4:1 design factor.
Bolt in GEOMET finished on request

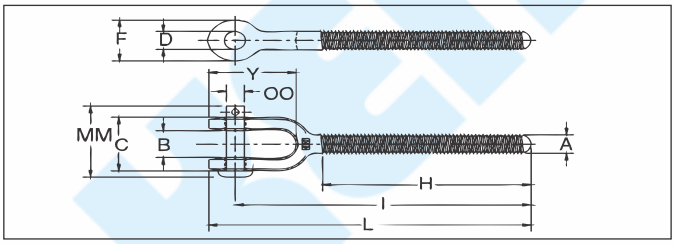
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Turnbuckle - Jaw End Fittings

- Quenched and Tempered or Normalized.
- Hot dip galvanized steel.
- Forged jaw ends are fitted with bolts and nuts on sizes 6 mm through 16 mm, and pins and cotters on sizes 19 mm through 70 mm.
- Modified UNJ thread for improved fatigue properties.
- Fatigue Rated.



JAW & EYE
SL-227



Shank Diameter & Take Up (mm)	Working Load Limit (t)	Weight Each (kg)	Dimensions (mm)										
			A	B	C	D	F	H	I Nom. Min.	L Nom. Min.	Y	MM	OO Bolt Pin
*6.35 x 102	.23	.05	6.35	11.4	23.1	7.62	16.0	65.8	94.5	104	28.7	35.8	6.35
*7.94 x 114	.36	.08	7.94	12.7	25.9	7.62	17.5	76.2	112	122	35.3	35.8	6.35
*9.53 x 152	.54	.13	9.53	13.5	29.2	9.14	20.6	98.6	134	146	37.3	40.1	7.87
12.7 x 152	1.00	.25	12.7	16.3	34.5	10.7	25.4	106	165	180	46.0	47.5	9.40
12.7 x 229	1.00	.29	12.7	16.3	34.5	10.7	25.4	145	203	218	46.0	47.5	9.40
12.7 x 305	1.00	.33	12.7	16.3	34.5	10.7	25.4	183	242	256	46.0	47.5	9.40
15.9 x 152	1.59	.48	15.9	20.1	44.5	14.0	33.3	109	181	201	59.9	62.0	12.7
15.9 x 229	1.59	.54	15.9	20.1	44.5	14.0	33.3	148	219	239	59.9	62.0	12.7
15.9 x 305	1.59	.59	15.9	20.1	44.5	14.0	33.3	186	257	277	59.9	62.0	12.7
19.1 x 152	2.36	.75	19.1	24.6	53.1	17.5	41.4	116	200	225	71.4	65.0	16.0
19.1 x 229	2.36	.83	19.1	24.6	53.1	17.5	41.4	154	238	263	71.4	65.0	16.0
19.1 x 305	2.36	.92	19.1	24.6	53.1	17.5	41.4	192	276	301	71.4	65.0	16.0
19.1 x 457	2.36	1.09	19.1	24.6	53.1	17.5	41.4	268	352	377	71.4	65.0	16.0
22.2 x 305	3.27	1.31	22.2	29.5	65.0	20.6	47.8	198	297	325	82.6	78.5	19.1
22.2 x 457	3.27	1.47	22.2	29.5	65.0	20.6	47.8	275	373	402	82.6	78.5	19.1
25.4 x 152	4.54	1.61	25.4	34.0	70.1	23.9	53.8	129	237	269	94.7	87.4	22.4
25.4 x 305	4.54	1.91	25.4	34.0	70.1	23.9	53.8	205	314	345	94.7	87.4	22.4
25.4 x 457	4.54	2.22	25.4	34.0	70.1	23.9	53.8	281	390	421	94.7	87.4	22.4
25.4 x 610	4.54	2.52	25.4	34.0	70.1	23.9	53.8	357	466	498	94.7	87.4	22.4
31.8 x 305	6.89	3.67	31.8	46.7	94.5	30.2	66.8	213	362	401	125	115	28.7
31.8 x 457	6.89	4.15	31.8	46.7	94.5	30.2	66.8	289	438	477	125	115	28.7
31.8 x 610	6.89	4.62	31.8	46.7	94.5	30.2	66.8	365	514	553	125	115	28.7
38.1 x 305	9.71	5.57	38.1	52.3	106	37.3	79.2	222	383	428	134	130	35.1
38.1 x 457	9.71	6.26	38.1	52.3	106	37.3	79.2	298	459	504	134	130	35.1
38.1 x 610	9.71	6.94	38.1	52.3	106	37.3	79.2	375	535	580	134	130	35.1
44.5 x 457	12.7	8.57	44.5	66.0	118	43.7	88.9	309	470	523	159	152	41.4
44.5 x 610	12.7	9.50	44.5	66.0	118	43.7	88.9	385	546	599	159	152	41.4
51.0 x 610	16.8	16.0	50.8	66.5	142	53.1	106	396	605	670	185	175	50.8
63.5 x 610	27.2	25.3	63.5	77.7	148	60.5	143	437	650	739	230	191	57.2
70.0 x 610	34.0	32.8	69.9	93.7	167	73.2	155	441	679	781	243	213	69.9

* Mechanical Galvanized

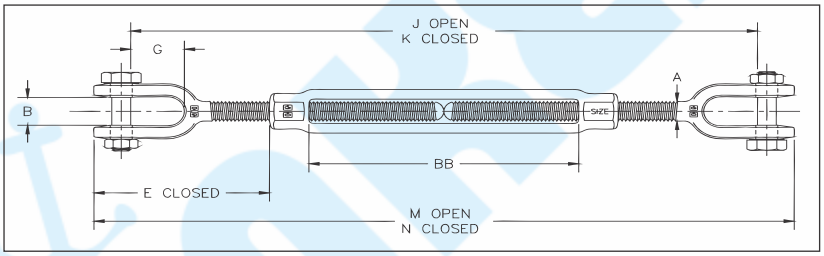
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Turnbuckle - JAW & JAW

- End fittings are Quenched and Tempered or Normalized, bodies heat treated by normalizing.
- Hot Dip galvanized steel.
- Turnbuckles Recommended for Straight or in-line pull only.
- Body has UNC threads.
- Fatigue Rated.



SL-228



Thread Diameter & Take Up (mm)	Working Load Limit (t)*	Weight Each (kg)	Dimensions (mm)								
			A	B	E Closed	G	J Open	K Closed	M Open	N Closed	BB
*6.35 x 102	.23	.17	6.35	11.4	42.0	16.1	284	183	309	208	103
*7.94 x 114	.36	.25	7.94	12.7	51.2	22.0	332	218	359	244	116
*9.53 x 152	.54	.39	9.53	13.5	53.5	21.5	413	260	445	292	155
12.7 x 152	1.00	.83	12.7	16.3	81.8	27.1	474	321	512	359	153
12.7 x 229	1.00	1.04	12.7	16.3	81.3	27.1	633	405	671	443	238
12.7 x 305	1.00	1.23	12.7	16.3	81.3	27.1	786	481	824	519	314
15.9 x 152	1.59	1.46	15.9	20.1	99.1	33.5	501	349	554	402	153
15.9 x 229	1.59	1.79	15.9	20.1	98.8	33.5	662	434	715	487	239
15.9 x 305	1.59	2.08	15.9	20.1	98.8	33.5	815	510	868	563	315
19.1 x 152	2.36	2.18	19.1	24.6	120	38.5	536	383	601	449	156
19.1 x 229	2.36	2.65	19.1	24.6	119	38.5	698	470	764	535	244
19.1 x 305	2.36	3.05	19.1	24.6	119	38.5	851	546	916	612	320
19.1 x 457	2.36	3.83	19.1	24.6	120	38.5	1155	698	1221	764	471
22.2 x 305	3.27	4.25	22.2	29.5	140	44.8	880	575	956	651	309
22.2 x 457	3.27	5.34	22.2	29.5	140	44.8	1197	740	1272	815	473
25.4 x 152	4.54	4.74	25.4	34.0	155	52.1	605	453	690	538	157
25.4 x 305	4.54	6.25	25.4	34.0	155	52.1	910	605	995	690	309
25.4 x 457	4.54	7.77	25.4	34.0	155	52.1	1215	757	1300	843	462
25.4 x 610	4.54	9.51	25.4	34.0	154	52.1	1535	925	1620	1010	631
31.8 x 305	6.89	9.94	31.8	46.7	205	71.5	1000	695	1107	802	306
31.8 x 457	6.89	11.7	31.8	46.7	205	71.5	1305	848	1412	955	459
31.8 x 610	6.89	13.5	31.8	46.7	205	71.5	1624	1014	1731	1121	625
38.1 x 305	9.71	14.8	38.1	52.3	227	71.4	1035	731	1160	855	313
38.1 x 457	9.71	17.2	38.1	52.3	227	71.4	1340	883	1465	1008	465
38.1 x 610	9.71	19.7	38.1	52.3	227	71.4	1661	1051	1786	1176	633
44.5 x 457	12.7	24.3	44.5	66.0	238	85.0	1355	898	1503	1045	467
44.5 x 610	12.7	27.7	44.5	66.0	238	85.0	1660	1050	1807	1198	619
51.0 x 610	16.8	43.7	50.8	66.5	300	95.0	1769	1159	1949	1339	622
63.5 x 610	27.2	75.9	63.5	77.7	337	113	1853	1244	2087	1478	625
70.0 x 610	34.0	90.1	69.9	93.7	379	106	1899	1289	2172	1562	626

Proof Load is 2 times the Working Load Limit. Ultimate Load is 5 times the Working Load Limit.
*Mechanical Galvanized

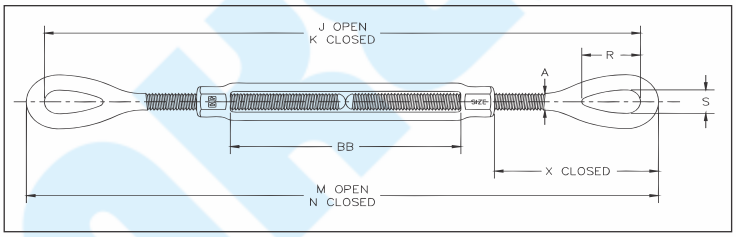
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Eye & Eye Turnbuckles

- End fittings are Quenched and Tempered or Normalized, bodies heat treated by normalizing.
- Hot Dip galvanized steel.
- Turnbuckle eyes are forged elongated, by design, to maximize easy attachment in system and minimize stress in the eye. For turnbuckle sizes 6 mm through 64 mm, a shackle one size smaller can be reeved through eye.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these turnbuckles meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- TURNBUCKLES RECOMMENDED FOR STRAIGHT OR IN-LINE PULL ONLY.
- Fatigue Rated.



SL 226



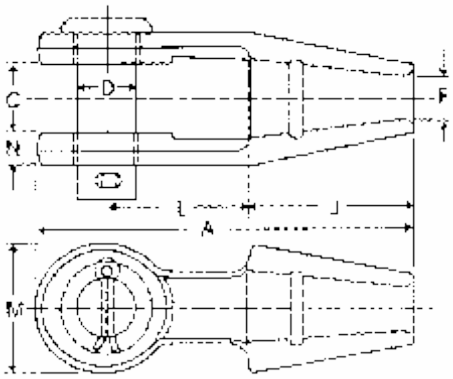
Thread Diameter & Take Up (mm)	Working Load Limit (t)*	Weight Each (kg)	Dimensions (mm)								
			A	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
† 6.35 x 102	.23	.13	6.35	303	202	314	213	20.6	8.64	44.6	103
† 7.94 x 114	.36	.22	7.94	354	239	368	253	24.1	11.2	55.8	116
† 9.53 x 152	.54	.34	9.53	446	294	463	311	28.7	13.5	62.9	155
12.7 x 152	1.00	.78	12.7	506	354	529	376	35.8	18.0	90.4	153
12.7 x 305	1.00	1.19	12.7	819	514	841	536	35.8	18.0	89.9	314
15.9 x 152	1.59	1.25	15.9	552	399	577	425	45.7	22.4	110	153
15.9 x 305	1.59	1.87	15.9	865	560	891	586	45.7	22.4	110	315
19.1 x 152	2.36	1.91	19.1	590	438	622	470	53.1	25.4	130	156
19.1 x 305	2.36	2.78	19.1	905	600	937	632	53.1	25.4	129	320
19.1 x 457	2.36	3.55	19.1	1210	753	1242	785	53.1	25.4	130	471
22.2 x 305	3.27	4.01	22.2	932	627	970	665	60.5	31.8	147	309
22.2 x 457	3.27	5.22	22.2	1249	792	1287	830	60.5	31.8	147	473
25.4 x 152	4.54	4.36	25.4	666	514	711	559	76.2	36.3	165	157
25.4 x 305	4.54	5.88	25.4	971	666	1016	711	76.2	36.3	165	309
25.4 x 457	4.54	7.40	25.4	1276	819	1321	864	76.2	36.3	165	462
25.4 x 610	4.54	9.14	25.4	1596	987	1641	1031	76.2	36.3	164	631
31.8 x 305	6.89	9.01	31.8	1070	766	1127	822	91.2	46.2	216	306
31.8 x 457	6.89	10.8	31.8	1375	918	1432	975	91.2	46.2	216	459
31.8 x 610	6.89	12.6	31.8	1694	1085	1751	1141	91.2	46.2	216	625
38.1 x 305	9.71	13.0	38.1	1124	819	1187	882	104	53.8	240	313
38.1 x 457	9.71	15.4	38.1	1428	971	1492	1035	104	53.8	240	465
38.1 x 610	9.71	17.9	38.1	1749	1139	1813	1203	104	53.8	240	633
44.5 x 457	12.7	23.0	44.5	1457	1000	1534	1076	118	60.5	253	467
44.5 x 610	12.7	26.4	44.5	1762	1153	1838	1229	118	60.5	253	619
51.0 x 610	16.8	37.9	50.8	1922	1313	2011	1402	148	68.3	331	622
63.5 x 610	27.2	67.4	63.5	2011	1402	2113	1503	165	79.2	350	625
70.0 x 610	34.0	79.1	69.9	2066	1456	2180	1571	178	82.6	383	626

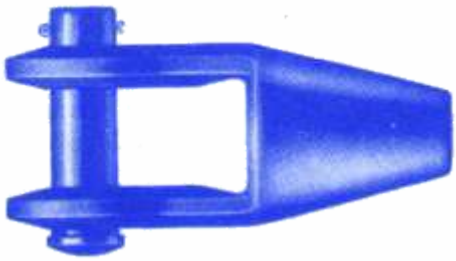
Proof Load is 2 times the Working Load Limit. Ultimate Load is 5 times the Working Load Limit.
† Mechanical Galvanized

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Sockets

Open Spelter Sockets

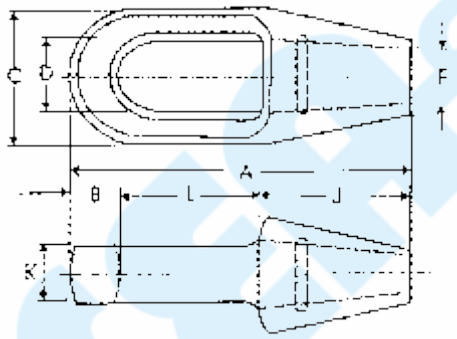




Wire Rope Dia	A	C	D	F	J	L	M	N	Approx. Wt. in Kg.
6	116	18	19	10	57	40	33	8	0.3
8-10	124	21	22	13	57	44	40	11	0.6
11-13	141	25	25	14	64	51	49	13	1.0
14-16	171	32	30	18	76	64	57	14	2
19	202	38	35	21	89	76	67	16	2
22	235	44	41	25	102	89	80	19	4
25	268	51	51	29	114	102	95	22	7
29	300	57	57	32	127	114	105	25	10
32-35	335	64	64	38	140	127	121	29	14
38	384	76	70	41	152	152	137	30	21
41	413	76	76	44	165	165	146	33	27
44-48	464	89	89	51	191	178	165	40	38
51-54	546	102	95	57	216	229	178	46	57
57-60	597	114	108	65	229	254	197	54	76
64-67	648	127	121	73	248	273	216	60	114
70-73	692	133	127	79	279	279	229	73	143
76-79	737	146	133	86	305	286	241	76	172
83-86	784	159	140	92	330	298	254	79	197
89-92	845	171	152	99	356	318	273	83	255
95-102	921	191	178	108	381	343	318	89	355

Dimensions in mm.

Closed Spelter Sockets





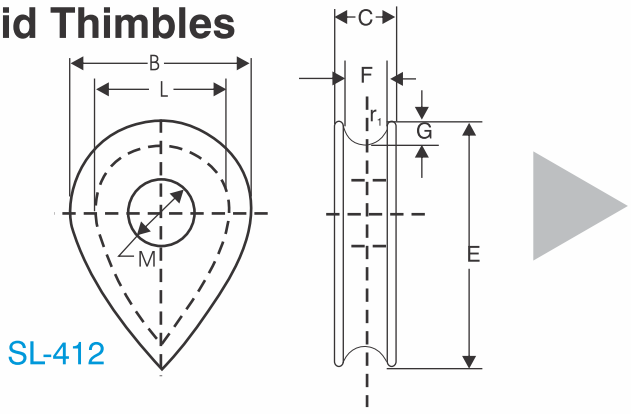
Wire Rope Dia	A	B	C	D	F	J	K	L	Approx. Wt. in Kg
6	116	13	38	21	10	57	13	13	0.2
8-10	125	16	43	24	13	57	18	19	0.3
11-13	140	18	51	29	14	64	22	38	0.7
14-16	162	21	67	35	18	76	25	64	1
19	194	27	76	41	21	89	32	108	2
22	226	33	92	48	25	102	38	184	3
25	254	37	105	57	29	114	44	267	5
29	283	40	114	64	32	127	51	362	6
32-35	313	43	127	70	38	140	57	502	9
38	359	76	137	80	41	152	64	711	13
41	391	54	146	83	44	165	70	972	17
44-48	445	56	171	90	51	191	76	1454	26
51-54	502	62	194	96	57	216	83	1962	35
57-60	549	73	216	109	64	229	92	2667	48
64-67	597	79	241	140	73	248	102	3556	64
70-73	648	76	273	159	79	279	124	5588	100
76-79	686	83	292	171	86	305	133	7010	125
83-86	743	102	311	184	92	330	146	7950	142
89-92	787	102	330	197	99	356	159	10160	181
95-102	845	108	362	216	108	381	178	13716	245

Dimensions in mm.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

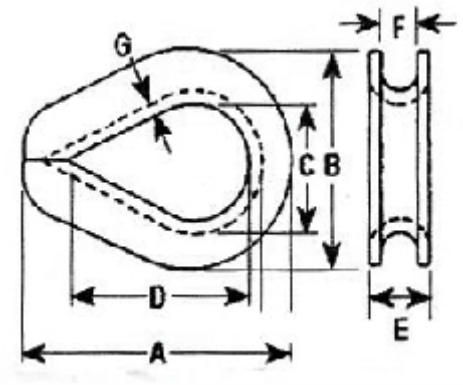
Thimbles

Solid Thimbles



SL-412

Extra Heavy Wire Rope Thimble



SL-414

All dimensions in millimetres.

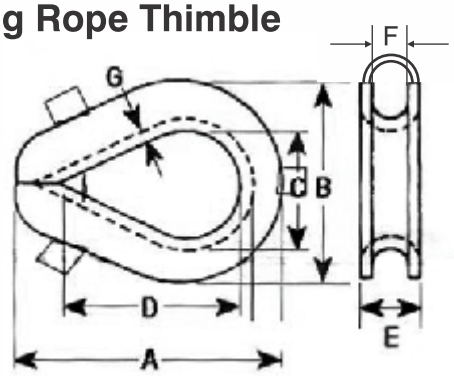
Nominal Size of Rope	B	C	E	F Min	G	r1	L	M Max
08	33	11	46	9	4	3.5	25	12
10	44	15	56	11	6	5.5	32	16
12	60	20	82	13	8	7.5	44	22
14	60	21	82	15	8	7.5	44	22
16	70	23	94	17	10	29.5	50	25
18	80	26	104	19	12	11.0	56	28
20	88	28	116	21	12	11.0	64	32
22	100	30	125	24	14	13.0	72	34
24	104	33	140	26	14	13.0	76	38
25	114	36	150	27	16	14.5	82	42
29	124	39	165	31	18	16.5	88	44
32	140	45	190	34	20	18.5	100	50
35	154	50	208	38	20	18.5	114	56
38	169	56	234	41	22	20.5	125	64
41	169	56	234	44	22	20.5	125	64
44	190	65	260	47	25	22.5	140	68
48	206	67	275	51	28	25.5	150	75
51	229	72	300	55	32	29.5	165	78
54	229	76	300	58	32	29.5	165	78
57	243	78	330	61	34	31.5	115	88
64	276	88	375	69	38	35.5	200	100

Note : For wire ropes of intermediate sizes, the next larger size of thimble shall be used. Dimension M is the standard pin hole and the largest pin-hole for each thimble. Should a smaller pin-hole be required the diameter of this shall be stated in the enquiry and order.

Cut Size Thimbles (Rate per Nos.)
(Size Dimension for mm)

Size	A	B	C	D	E	F	G	Kg.
6	54	39	24	43	12	8	2	0.025
8	66	45	26	51	15	10	2.5	0.050
10	72	52	31	57	18	12	3.2	0.10
12	91	70	39	69	20	14	4	0.20
16	107	76	46	85	25	18	5	0.30
19	128	90	52	102	30	20	6	0.65
22	145	108	59	113	37	24	6	1.50
25	156	125	65	118	40	28	8	1.60
28	175	135	72	135	46	30	8	2.10
32	188	144	76	140	50	36	8	2.40
36	235	170	90	185	58	40	10	3.75
38	240	180	92	189	62	40	14	5.60
44	320	216	115	255	72	47	16	10.60
50	385	263	152	315	79	53	16	14.50
56	435	304	180	360	92	61	20	21.75
64	495	340	205	410	110	70	22	32.00
70	522	370	210	390	120	80	25	40.00
76	540	390	225	400	135	85	28	51.00
80	560	400	235	375	150	95	30	59
88	570	425	250	390	155	105	32	70

Mooring Rope Thimble



SL-415

Mooring Rope Thimbles (Rate per Nos.) (Size Dimension for mm)

Size (in.)	A	B	C	D	E	F	G	Kg.
4	250	210	110	160	60	45	8	3.5
5	270	210	115	170	65	52	8	4.8
6	290	215	130	180	70	58	8	5.6
8	340	248	150	210	85	70	10	9.4
10	400	280	165	250	110	90	10	13.2
12	430	315	175	270	125	105	12	18.5
14	510	345	190	300	155	135	14	31.0
16	550	410	215	345	195	165	16	45.0

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

TITAN Chain Pulley Block







Pawl braking superior design



Shell reinforcement is designed so that the shell strength better long life



Safety overload 05T or more can be optional, superior safety performance



Since all of the gear member 20crmnTi of the material are used the strength of the gear member is better and better toughness



Galvanized lifting chain can guarantee against rust and corrosion features a long time



Finishing lifting the chain sprocket to run more smoothly. Higher Strength

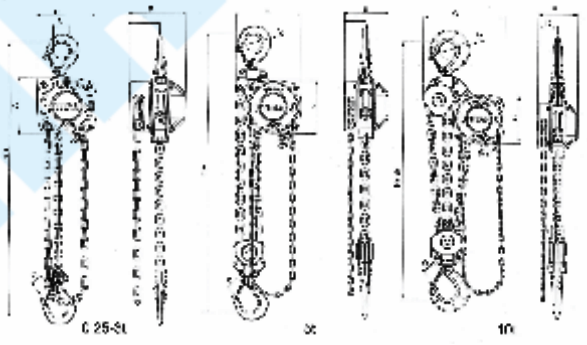


Insurance pieces snap-on design makes lifting safer



The lock ring design in line with European standards

1. Suspension and load hooks are made of anti-ading alloy steel, high strength, deformation occurs when the case will be the first event of overload without sudden fracture.
2. Hook with safety latch securely can roate freely 360 degrees
3. Ergonomic handle design engineering so that the hoist is easy to operate
4. Closed design protects the internal components from contamination
5. All parts of the load disc brakes come on by the high quality steel and anti-corrosion



Model	HSH	DF-025	DF-050	DF-10	DF-20	DF-30	DF-50	DF-100	DF-200	DF-300
Safe Working load	(kg)	250	500	1000	2000	3000	5000	10000	20000	30000
Standardhub	(m)	3	3	3	3	3	3	3	3	3
Number of parts	(m)	1	1	1	1	1	2	3	8	12
Force at hand chain	(N)	220	240	315	340	370	370	380	370	390
Chain size	(mm)	4x12	5x15	6x18	8x24	10x30	10x30	10x30	10x30	10x30
Running Test Load	(kg)	375	1000	1500	3000	4500	7500	15000	30000	45000
Weight	(kg)	4.5	5.7	11	17	26	40	73	186	260
Packing Measurements	cm	31.5x16x12	27.5x14.5x15.5	28x17x18.5	31x17.5x22	39x19x26	44x24x26	58x46.5x24.5		
Gewicht mit standardhub	(kg)	0.341	0.451	0.77	1.36	2.2	4.4	6.6	17.6	26.4
Extra weigh per meter of extra lift	(kg)	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8
Dimensions	a	102	122	152	176	216	216	244	429	519
	b	28	34	40	52	62	65	70	125	150
	c	98	118	152	170	204	204	204	376	370
	d	22	23	29	33	41	45	55	75	85
	e	114	119	145	157	167	167	167	222	218
	f	64	65	79	81	83	83	83	109	108
	Hmin	261	311	361	443	431	660	705	1100	1139

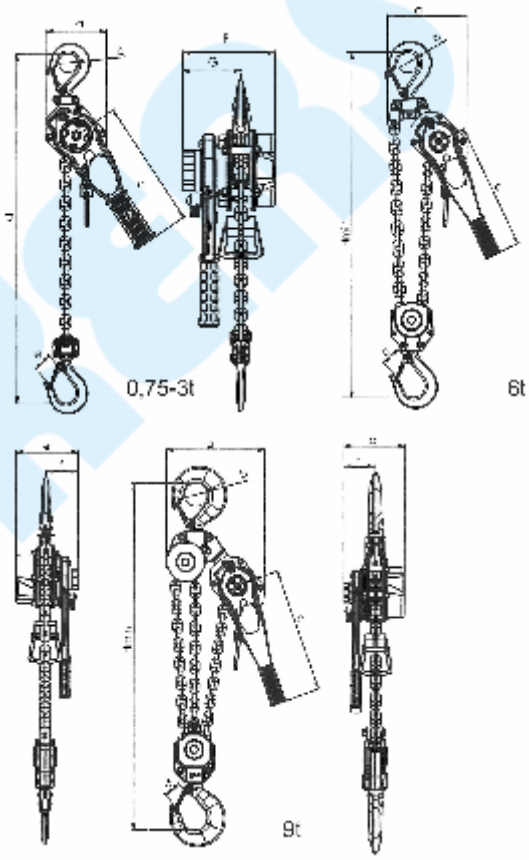
Due to continuous updating of our products. The data is subject to changes without notice.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

TITAN Ratchet Lever Block

NEW





Article Code	Safe Working Load (t)	Standard Lift (m)	Number of Parts	Chain Size (mm)	Lever force (daN)	Weight (kg)
XXXXXXX	0.25	XX	X	XX	XX	XX
DH-0750	0.75	1.5	1	6 x 18	23	7,7
DH-1500	1.5	1.5	1	7,1 x 21	21	8,1
DH-3000	3	1.5	1	9 x 27	33	15
DH-6000	6	1.5	2	9 x 27	36	24
DH-9000	9	1.5	3	9 x 27	36	32,2

DATA TO COME

DATA TO COME

Article Code	Safe Working Load (t)	Measurements (mm)									
		A	B	C	D	E	E1	F	G	H	J
XXXXXXX	0.25	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
DH-0750	0.75	350	230	243	38	30.6	25	136	92	128	84
DH-1500	1.5	355	234	309	45	38.6	30	148	112	160	92
DH-3000	3	470	296	385	62	44.6	33	184	126	182	96
DH-6000	6	620	348	384	68	49.6	39	184	126	182	96
DH-9000	9	642	395	385	72	62	51	184	130	191	103

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Electric Wire Rope Hoist



1. Highly Reliable Braking System Unique to Sealinker

- The hoist detects the amount of lining abrasion. The brake is equipped with an automatic adjusting device to apply brake torque in proportion to the amount of lining abrasion.
- The double braking system consists of the main brake and the auxiliary brake unit

2. Hoisting Motor with a Thermal Protector

- The hoisting motor automatically stops when sensing the heat of the motor coil in order to protect the motor from burning damage caused by heat due to overwork.

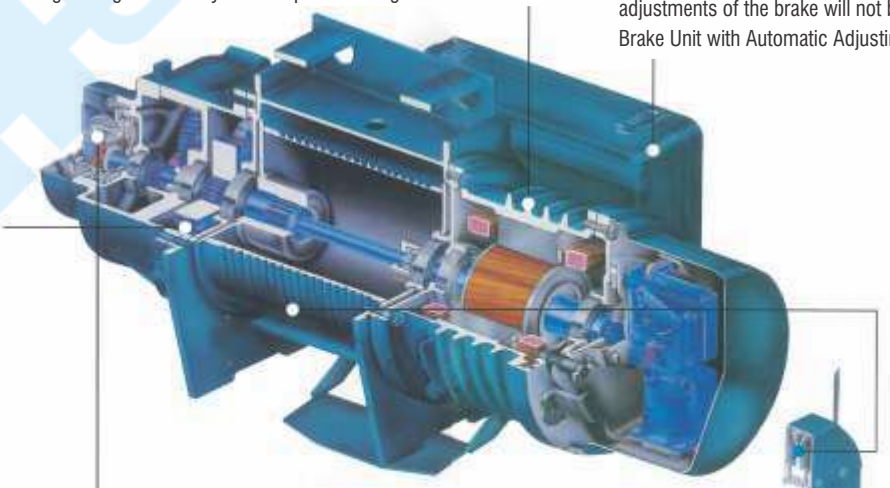
3. Efficient Maintenance is Possible

- The starting time counter in the control box facilitates checking of the lifetime of consumable parts.
- The gear inspection window in the control box allows visual checks of the condition of the gear teeth surface and lubrication to some degree.
- The punch mark on the hook indicates the reference point for the hook inspection of deformation.
- The inspection of the rope end is easy.

Control box

- Starting time counter
  The cumulative number of starting times is indicated on this counter. Because the total number of times the parts have been operated is known on this counter, it is useful for planning the maintenance and procurement of consumable parts such as brakes, electromagnetic switches, and wire ropes.
- Electromagnetic switch with mechanical interlock
  A mechanical interlock is provided for the electromagnetic switch to prevent malfunction.
- Double-limit switch
  When the load block has reached the upper limit, the control circuit of the electromagnetic switch is turned off and the operation is stopped. Should a short-circuit occur, or the main circuit continue to operate due to a reverse phase connection, causing the load block to move further upward, the motor main circuit is cut off.
- Clamp type cover
  The clamp type control box cover facilitates opening and closing.
- Brake unit
  The brake is equipped with an automatic adjusting device, which automatically adjusts brake torque in proportion to the amount of lining abrasion. Conventional adjustments of the brake will not be required.

- Motor unit
  Each hoist is equipped with a motor, which provides optimal starting torque for the hoist. Employing cooling fans and large-capacity ball bearings, the class B insulating motor (class F for 7.5 and 10 tons) can withstand severe operating conditions. The hoisting motor is provided with a thermal protector, which senses the heat of the motor coil and functions to protect the motor from burning damage caused by over-frequent starting times.



Brake Unit with Automatic Adjusting Device

- Reduction gear unit
  With a grease lubricating system, grease is tilled in the gear unit on shipment, eliminating the replenishment prior to use, and prolonging the operation time. The building blocks of the spur gears (helical 1st stage) facilitate the maintenance inspection.



- Auxiliary brake unit
  If the braking force of the main brake is reduced, the auxiliary brake unit, a new system with minimal impact, prevents the drop of the load. Together with the automatic brakes, it composes a double braking mechanism.

Steel drum and sheave

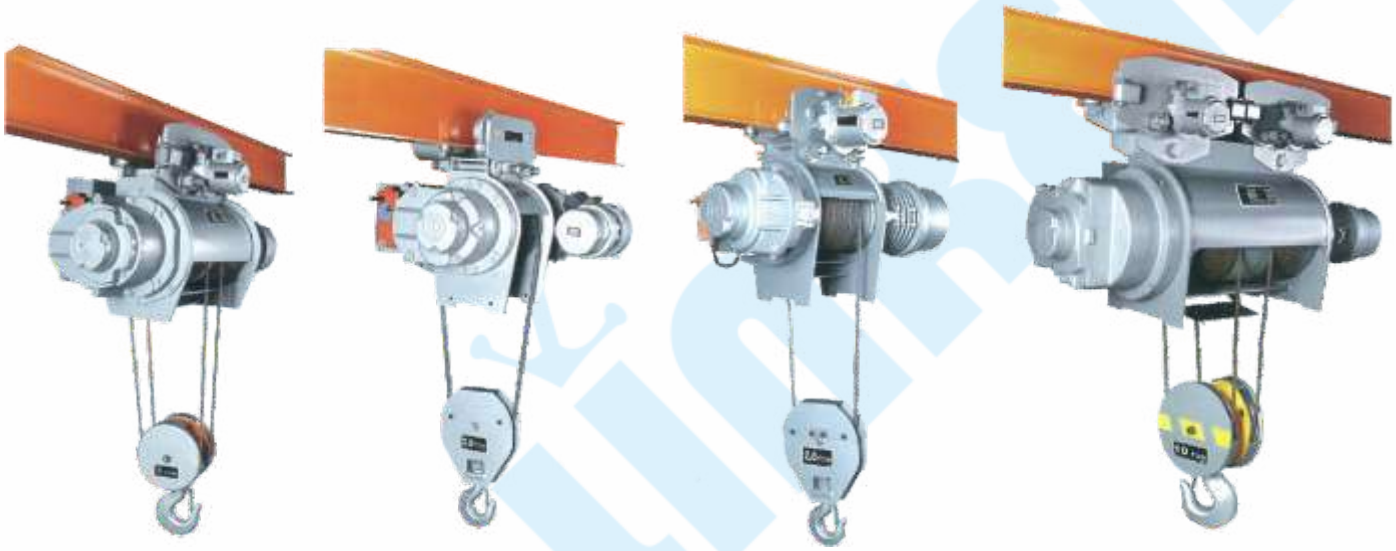
The drums (2- and 4-fall models for 2 to 5 tons, except for ultra high lift hoists) and sheaves (except for 7.5 and 10 tons) are made of steel plate, and the grooves are processed by a special press method. This makes the life of the drums and sheaves about three times longer than existing cast metal ones (compared with our products).



SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Hoist With Motorized Trolley

This is an orthodox type of hoist widely utilized for general purposes. It boasts high performance for use in rugged jobs such as general production in factories, mining, railroads, and warehouses.



Technical Parameters

Capacity (t)				1	2	3	5	5	7.5	10	15	20
Lifting height (m)				6/12	6/12	6/12	6/12	9/12	9/12	9/12	9/12	12
Hoisting	Speed (m/min)		50Hz	11	8.4	7.5	7.5	6.5	6.0	5.0	5.0	4.2
			50Hz	13	10	9	9	8	7.2	6.2	6.2	5.0
	Motor	(Kw)	60Hz	1.9	2.9	4.2	4.2	5.9	7.9	8.8	6.7x2	7.5x2
			60Hz	2.3	3.5	5	5	7	9.5	10.5	8.2	9.2
		No. of Poles		4	4	4	4	4	4	4	4	4
Traversing	Speed (m/min)			21	21	21	21	21	14	14	14	14
				25	25	25	25	25	17	17	17	17
	Motor	(Kw)		0.30	0.30	0.45	0.45	0.63	0.47x2	0.47x2	0.7x2	0.7x2
				0.36	0.36	0.55	0.55	0.75	0.56x2	0.56x2	0.84x2	0.84x2
		No. of Poles		4	4	4	4	4	6	6	4	4
Wire rope	No. of falls			2	2	2	2	4	4	4	4	4
	Composition			6xFi(29)-B								6xFi(29)WRC-B
	Dia. (mm)			ø 8	ø 11.2	ø 14	ø 14	ø 12.5	ø 14	ø 16	ø 20	ø 22.4
Operating method				Puch - Button Operation								
Electric source (3 phase)				200-600V 50Hz/60Hz								

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

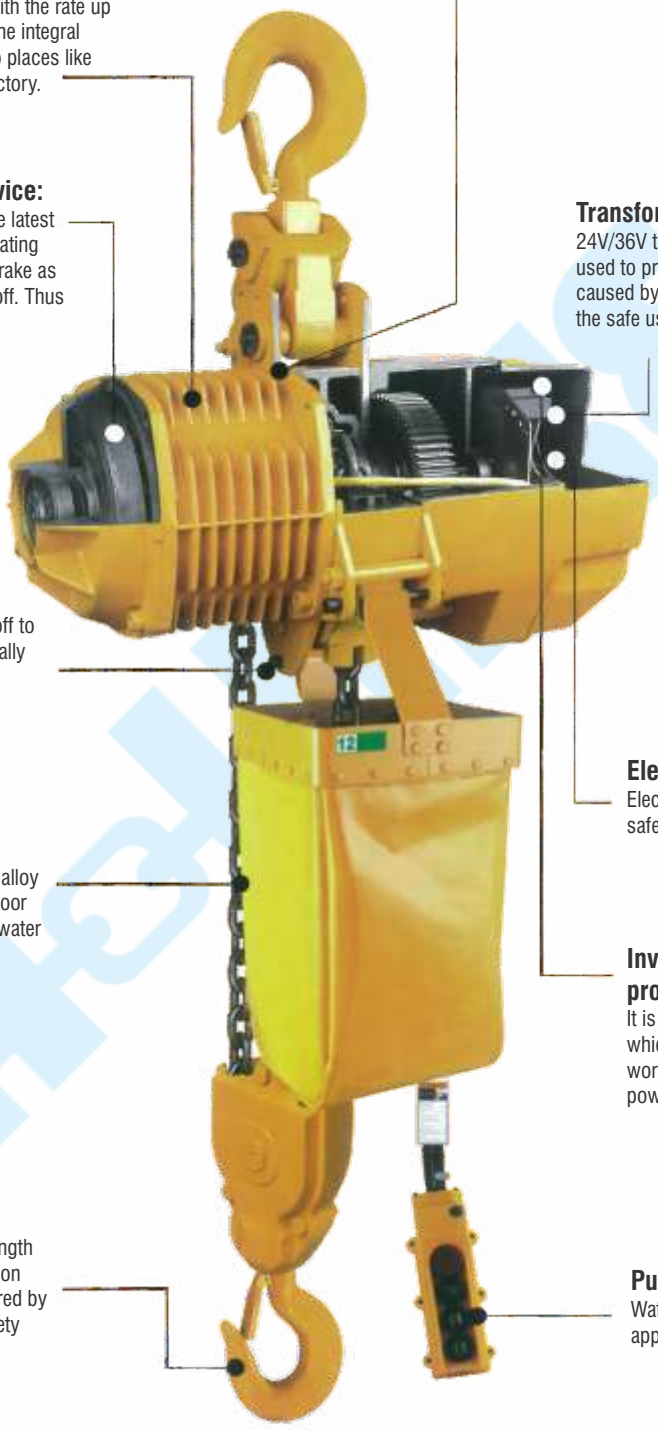
Shell:
It is made of light aluminum alloy shell, light but hard. The cooling fin is specially designed to ensure quick heat dissipation with the rate up to 40% and continuous service. The integral enclosed structure is applicable to places like chemical plant and electroplate factory.

Side magnetic braking device:
The magnetic orce generator is the latest design which is featured for generating magnetic force. It allows instant brake as soon as the electric power is cut off. Thus the braking safety while loading is guaranteed.

Limit switch:
The limit switch device is installed where the weight is lifted on and off to make the motor to stop automatically so as to prohibit the chains from exceeding for safety.

Chain:
The chain shall adopt the Japan FEC80 ultra heat-treatable steel alloy chain. It can be safely used in poor environments such as rain sea water and chemicals.

Hook:
It is hot forging with perfect strength that is hard to break. The operation safety of the lower hook is ensured by its 360 degrees rotation and safety tongue piece.



Support frame:
The loading support frame consists of two steel plates, which is extremely sturdy.

Transformer:
24V/36V transformer device This device is used to prohibit unexpected accidents caused by electric leakage and guarantees the safe use while raining.

Electromagnetic contactor:
Electromagnetic contactor can be used safely under high frequency.

Inverse phases sequence protecting device:
It is the special electrical installation which controls the circuit not to work in case of wiring error in the power supply.

Push button:
Waterproof push button is applied. It is light and durable.

Standard fitting: Chain Bag (1) Control Cable (3m) Push–Button Switch (1)

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Hoist With Hook



Shell: Light aluminum alloy shell shall be adopted which is light but hard and fit for the use in the terrible work environment with a high heat dissipation rate and all tightness design.

Inverse phase sequence protecting device: It is the special electrical installation which control the circuit not to work in case of wiring error in the power supply.

Limit switch: The limit switch device is installed where the weight is lifted on and off to make the motor to stop automatically so as to prohibit the chains from exceeding for safety.

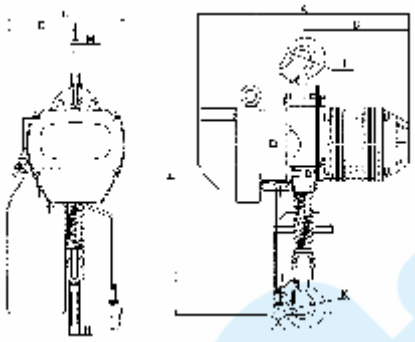
24V/36V device: it is used to prohibit the emergencies from occurring in case of the leakage in the switch.

Side magnetic braking device: This device shall realize the instant brake in case of the power dump.

Chain bag: It shall be light, handsome and durable.

Chain: The chain shall adopt the Japan FEC80 ultra heat-treatable steel alloy chain.

Dimensions



Technical Parameters

Type	Capacity (Ton)	Standard Lifting Height (m)	Lifting Speed (m/min)	Lifting Motor				
				Power (Kw)	Rotation Speed (r/min)	Phases	Voltage (V)	Frequency (Hz/s)
HKD00501S	0.5	3	6.8	0.75	1440	3	200–600	50
HKD0101S	1	3	6.6	1.5	1440	3	200–600	50
HKD0102S	1	3	3.4	0.75	1440	3	200–600	50
HKD01501S	1.5	3	8.8	3.0	1440	3	200–600	50
HKD0201S	2	3	6.6	3.0	1440	3	200–600	50
HKD0202S	2	3	3.3	1.5	1440	3	200–600	50
HKD02501S	2.5	3	5.4	3.0	1440	3	200–600	50
HKD0301S	3	3	5.4	3.0	1440	3	200–600	50
HKD0302S	3	3	4.4	3.0	1440	3	200–600	50
HKD0303S	3	3	2.2	1.5	1440	3	200–600	50
HKD0502S	5	3	2.7	3.0	1440	3	200–600	50

Size Specification

Type	Capacity (Ton)	Unit (mm)											
		H	A	B	D	E	I	J	K	L	M	N	Chain
HKD00501S	0.5	540	455	240	285	165	ø 34	28	ø 34	25	19	19	ø 6.3
HKD0101S	1	650	520	260	300	176	ø 42	32	ø 42	32	24	24	ø 7.1
HKD0102S	1	575	455	240	285	165	ø 34	28	ø 34	25	19	19	ø 6.3
HKD01501S	1.5	800	615	295	430	265	ø 49	40	ø 49	40	30	30	ø 10.0
HKD0201S	2	800	615	295	430	265	ø 49	40	ø 49	40	30	30	ø 10.0
HKD0202S	2	835	520	260	300	265	ø 49	40	ø 49	40	30	30	ø 7.1
HKD02501S	2.5	845	615	295	430	265	ø 59	48	ø 59	48	35	35	ø 11.2
HKD0301S	3	845	615	295	430	265	ø 59	48	ø 59	48	35	35	ø 11.2
HKD0302S	3	950	615	295	430	220	ø 59	48	ø 59	48	35	35	ø 10.0
HKD0303S	3	950	520	260	450	205	ø 59	48	ø 59	48	35	35	ø 7.1
HKD0502S	5	1030	615	295	430	325	ø 60	48	ø 60	48	43	43	ø 11.2

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Hoist With Electric Trolley



Shell: Light aluminum alloy shell shall be adopted which is light but hard and fit for the use in the terrible work environment with a high heat dissipation rate and all tightness design.

Inverse phase sequence protecting device: It is the special electrical installation which control the circuit not to work in case of wiring error in the power supply.

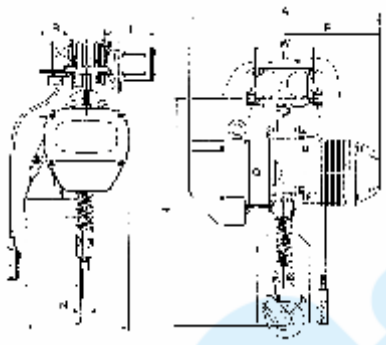
Limit switch: The limit switch device is installed where the weight is lifted on and off to make the motor to stop automatically so as to prohibit the chains from exceeding for safety.

24V/36V device: it is used to prohibit the emergencies from occurring in case of the leakage in the switch.

Side magnetic braking device: This device shall realize the instant brake in case of the power dump. Chain bag: It shall be light, handsome and durable.

Chain: The chain shall adopt the Japan FEC80 ultra heat-treatable steel alloy chain.

Dimensions



Technical Parameters

Type	Capacity (Ton)	Standard Lifting Height (m)	Lifting Speed (m/min)	Lifting Motor					Trolley Motor			I–Beam (mm)
				Power (Kw)	Rotation Speed (r/min)	Phases	Voltage (V)	Frequency (Hz/s)	Power (Kw)	Rotation Speed (r/min)	Trolly Speed (m/min)	
HKDM00501S	0.5	3	6.8	0.75	1440	3	200-600	50	0.4	1440	11/21	58-153
HKDM0101S	1	3	6.6	1.5	1440	3	200-600	50	0.4	1440	11/21	58-153
HKDM0102S	1	3	3.4	0.75	1440	3	200-600	50	0.4	1440	11/21	58-153
HKDM0501S	1.5	3	8.8	3.0	1440	3	200-600	50	0.4	1440	11/21	82-178
HKDM0201S	2	3	6.6	3.0	1440	3	200-600	50	0.4	1440	11/21	82-178
HKDM0202S	2	3	3.3	1.5	1440	3	200-600	50	0.4	1440	11/21	82-178
HKDM02501S	2.5	3	5.4	3.0	1440	3	200-600	50	0.75	1440	11/21	100-178
HKDM0301S	3	3	5.4	3.0	1440	3	200-600	50	0.75	1440	11/21	100-178
HKDM0302S	3	3	4.4	3.0	1440	3	200-600	50	0.75	1440	11/21	100-178
HKDM0303S	3	3	2.2	1.5	1440	3	200-600	50	0.75	1440	11/21	100-178
HKDM0502S	5	3	2.7	3.0	1440	3	200-600	50	0.75	1440	11/21	100-178

Size Specification

Type	Capacity (Ton)	Unit (mm)													
		H	A	B	D	E	I	K	L	N	W	U	R	T	Chain
HKDM00501S	0.5	610	455	240	285	165	ø 31	ø 34	25	19	206	111	142	231	ø 6.3
HKDM0101S	1	665	555	240	285	165	ø 31	ø 42	32	24	206	111	142	231	ø 6.3
HKDM0102S	1	650	520	260	300	176	ø 31	ø 42	25	24	206	111	142	231	ø 7.1
HKDM0501S	1.5	770	615	295	430	265	ø 36	ø 49	40	30	237	127	142	231	ø 10.0
HKDM0201S	2	770	615	295	430	265	ø 36	ø 49	40	30	237	127	142	231	ø 10.0
HKDM0202S	2	815	520	260	300	236	ø 36	ø 49	40	30	237	127	142	231	ø 7.1
HKDM02501S	2.5	830	615	295	430	265	ø 43	ø 59	48	35	265	140	142	231	ø 11.2
HKDM0301S	3	830	615	295	430	265	ø 43	ø 59	48	35	265	140	142	231	ø 11.2
HKDM0302S	3	930	615	295	430	320	ø 43	ø 59	48	35	265	140	142	231	ø 10.0
HKDM0303S	3	340	520	260	350	205	ø 43	ø 59	48	35	265	140	142	231	ø 7.1
HKDM0502S	5	1015	615	295	430	325	ø 54	ø 60	48	43	296	156	142	231	ø 11.2

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

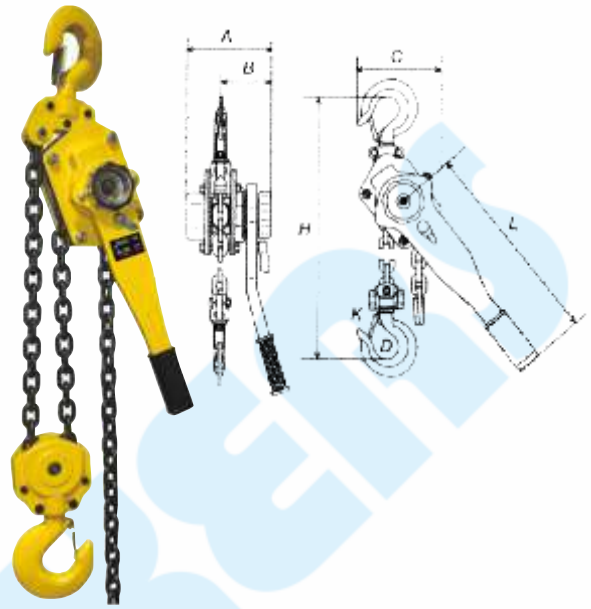
TITAN Ratchet Lever Hoist

Series Chain Block Specification

Capacity		KG	250	500	1000	1500	2000
Standard lift		m	2.5	2.5	2.5	2.5	2.5
Load chain falls			1	1	1	1	1
Load chain		mm	4 x 12	5 x 15	6 x 18	7 x 21	8 x 24
Effort force		N	235	240	250	265	335
Dimensions	A	mm	121	148	172	196	210
	B	mm	114	132	151	173	175
	C	mm	21	23	27	33	35
	D	mm	31	35	40	45	50
	Hmin	mm	280	345	376	442	470
Net weight		KG	6.2	11	12.5	17.8	19.5

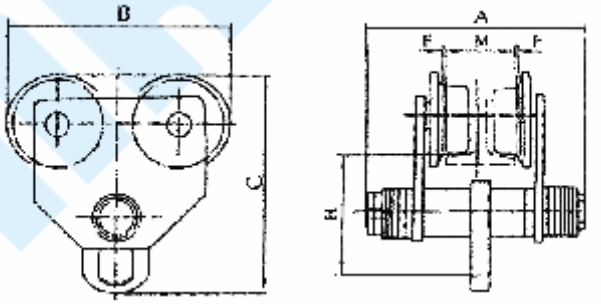
Model		SL-0.75	SL-1.5	SL-3	SL-6	SL-9
Capacity (t)		0.75	1.5	3	6	9
Standard lift (m)		1.5	1.5	1.5	1.5	1.5
Running test load (t)		11	22.5	37.5	75	112.5
Effort Required to Liftman load (N)		140	220	320	340	360
No. of columns of load chain		1	1	1	2	3
Load chain dia. (mm)		6	8	10	10	10
Dimensions (mm)	A	145	175	203	203	203
	B	86	100	118	118	118
	C	122	130	150	205	316
	D	37	45	50	64	85
	H	320	380	480	620	700
	L	285	370	410	410	410
	K	30	36	40	50	58
Net weight (kg)		7.5	11.5	21	31.5	47
Packing measurements(LxWxH)(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

Remarks: In addition to the list, we can accept the orders of Liffing height within 12 meters.



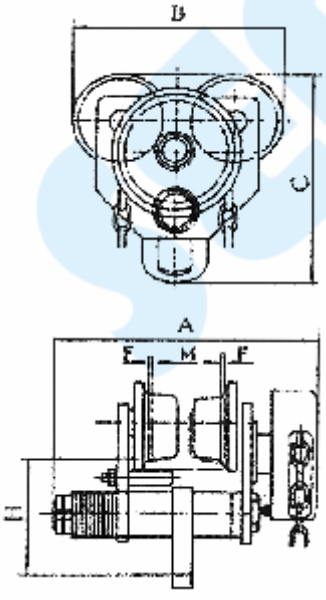
TITAN Pull Push Trolley

- Driving by hand chain power
- Double shafts design ,high-strength soldering sleeve, less deforming
- Install bend-ear type side plate to ensure running saftely
- Circular arc-shaped designed side of the wheel can be used on I & H beams or other orbits widely
- Adjusted by the bushing and washer can meet different widths of the orbit
- Wheel with the deep groove ball bearing to ensure fluent running



Model			GCL 0.5 A	GCL 1 A	GCL 2 A	GCL 3 A
T - Rated Capacity			0.5	1	2	3
KN - Test Load			7.4	14.7	29.4	44.1
M - Min Radius of Curve			0.9	1	1.1	1.3
Dimensions mm	A		172	218	244	250
	B		186	220	254	293
	C		176	226	235	320
	H		104	138	160	194
	F		3			
I-beam recommended GB 706-88	M	mm	64-102	74-130	88-146	94-154

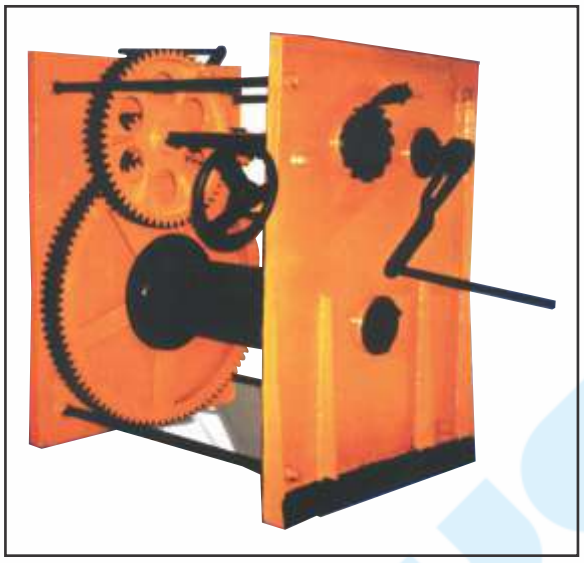
TITAN Geared Trolley

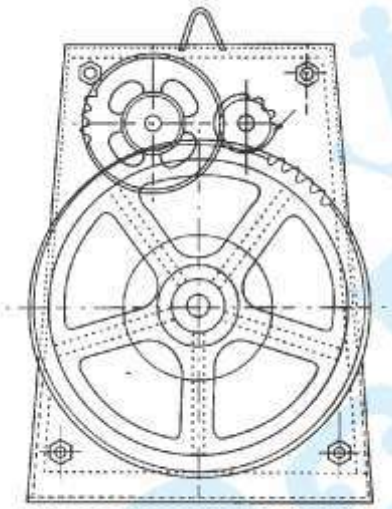


Model			GCL 0.5 A	GCL 1 A	GCL 2 A	GCL 3 A	GCL 5 A	GCL 10 A	GCL 20 A	GCL 30 A
T - Rated Capacity			0.5	1	2	3	5	10	20	30
KN - Test Load			7.4	14.7	29.4	44.1	61.25	122.5	245	320
M - Running Height			2.5	2.5	3	3	3	3	3	3
N - Chain Pull To Lift Ful Load			60	80	140	150	170	320	2 x 320	3 x 320
M - Min Radius of Curve			0.9	1	1.1	1.3	1.4	1.7	5	7
Dimensions mm	A		232	281	297	320	372	410	475	530
	B		186	220	254	293	322	389	420	465
	C		176	226	265	320	376	460	575	605
	H		104	138	160	294	238	237	300	350
	F		3							
	F		3							
I-beam recommended GB 706-88	M	mm	64-102	74-130	88-146	94-154	100-180	122-203	122-203	122-203

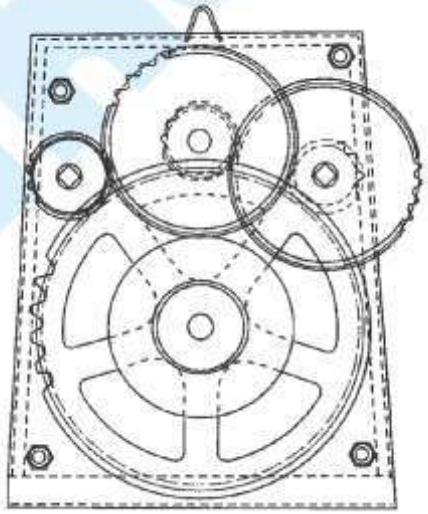
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Winches





Side View Cross Section



Side View Cross Section

Hand operated, Double Purchase Crab Winch

Hand operated, Treble Purchase Crab Winch

Hand operated Crab winch with square type side plate to cover big pinion and reinformed by side angle, fabricated seamless pipe drum, brake with shoe, ratchet, pawl and handles

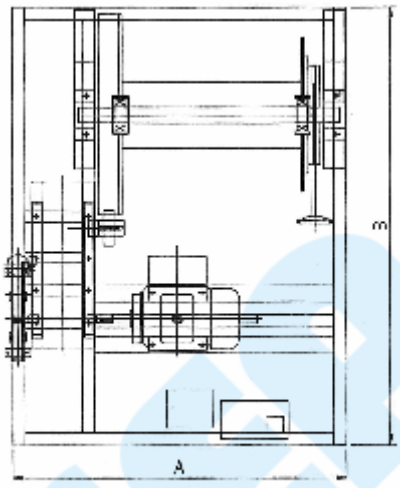
To Lift Direct From Barrel	Drum Dia	Drum Length	Thickness of Side Plate	Main Shaft Dia	No. of Driving Shaft	Dia of Driving Shaft	Dia of Tie Rod	No. of Tie Rod	Height	Width	Purchase	Dia Main Pinion	Flange Dia	Weight of Winch
1 Ton	5 ½"	16"	6mm	32mm	2	1 1/8"	16mm	4	25"	21"	Double	17 1/4"	9"	150
1.5 Ton	5 ½"	18 ½"	6mm	32mm	2	1 1/4"	16mm	4	29"	23"	Double	21 1/4"	9"	175
2 Ton	6 5/8"	22"	8mm	40mm	2	1 3/8"	20mm	4	35"	27"	Double	26 1/4"	11"	250
3 Ton	6 5/8"	24"	8mm	45mm	2	1 ½"	22mm	4	39"	30"	Double	30"	11"	280
5 Ton	8 5/8"	30"	10mm	50mm	2	1 3/4"	25mm	4	48"	34"	Double	35 5/8"	13"	425
7.5 Ton	8 5/8"	30"	10mm	50mm	3	1 3/4"	25mm	4	48"	34"	TRIPLE	35 5/8"	13"	650
10 Ton	8 5/8"	34"	11mm	65mm	3	1.875"	32mm	4	48"	35"	TRIPLE	34"	16"	750

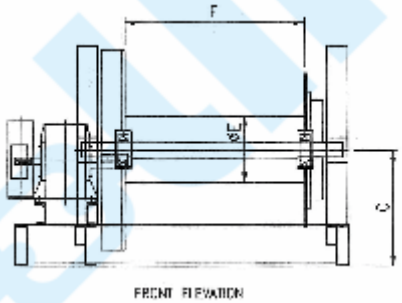
Specifications given are indicative and are subject to change.

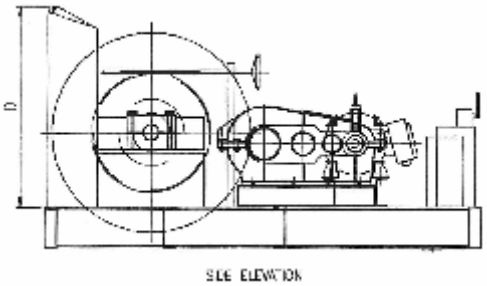
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Electrical Winches









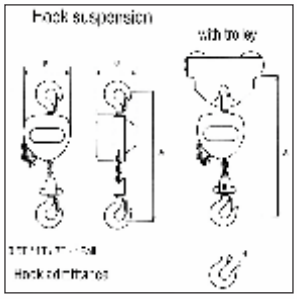
Type No.	Load	Motor	Speed	Drum Capacity	Rope ø	Gear Box Ratio
1	1 ton	3HP 6pole	8-10 m/min	200m	10	30:1
2	2 ton	5HP 6pole	6-10 m/min	250m	12	30:1
3	3 ton	10HP 6pole	6-8 m/min	500m	16	40:1
4	5 ton	15HP 6pole	6-8 m/min	650m	19	40:1
5	10 ton	30HP 6pole	4-6 m/min	750m	25	40:1
6	15 ton	40HP 6pole	4-6 m/min	750m	28	80:1
7	20 ton	60HP 6pole	4-6 m/min	1000m	32	100:1

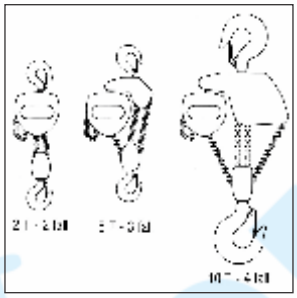
Type No.	Load	A	B	C	D	øE	F
1	1 ton	609	650	150	406	177	406
2	2 ton	762	914	250	508	250	508
3	3 ton	1524	1676	300	762	304	838
4	5 ton	1727	2108	406	965	304	1000
5	10 ton	2032	2413	406	1219	406	1143
6	15 ton	2032	2794	457	1219	508	1143
7	20 ton	2159	3048	508	1397	609	1270

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Chain Pulley Block







(Data tolerance +/_ 10%)
All dimensions in MM.

INDEF M-CPB

- HHL introduces its customers to Indef M Chain Pulley Block providing you features that are light weight & Sturdy making it very easy to handle
- Lifelong Lubrication enhances efficiency of performance with minimal maintenance required.
- Consists of Surface hardened Gears for an extended working life
- Indef M Chain Pulley Block uses needle roller bearings delivering a higher operating efficiency
- Ensuring Smooth passage of load chain with Machined guide rollers
- A Unique cover design that smoothens hand chain operation
- Self sustaining maintenance free friction brake in turn reducing downtime
- Equipped with a Grade 80 Load Chain for strength & wear resistance also a longer chain life
- Elegantly modeled with an Anticorrosive powder coated finish and has better aesthetics

Specifications/Dimensions (mm)									
DIMENSIONS, WEIGHT AND PERFORMANCE DATA									
Capacity - Safe Working Load	KG.	500	1000	2000	2500	3000	5000	8000	10000
Number Of Falls of Load Chain	NO	1	1	2	1	3	2	3	4
Dimensions									
A. Hook Suspension	mm	335	400	461	530	585	805	880	950
hung-in (With Trolley)	mm	-	-	-	-	695	895	1010	1080
hung-in (With indef M trolley range 1&2)	mm	365	430	500	560	-	-	-	-
hung-in (With indef M trolley range 3)	mm	405	470	540	605	-	-	-	-
close-lift (Mono Block)	mm	-	-	-	-	600	800	950	985
close-lift (Range 1&2) (Mono Block)	mm	300	345	446	425	-	-	-	-
close-lift (Range 3) (Mono Block)	mm	340	385	486	470	-	-	-	-
B.	mm	155	180	180	238	268	280	430	480
C.	mm	144	153	153	209	153	209	220	220
H. Hook admittance.	mm	27	32	32	42	42	51	67	75
Minimum Clear Depth of Beam	mm	127	127	150	150	150	225	275	275
Minimum Radius of track Curve	mm	1.5	1.5	1.5	1.5	1.5	2.6	3.2	3.2
Weight - Hook Suspension Unit With Chain For Standard 3m hook-to-hook	kg	10	13	19	29	30	59	94	130
Additional Weight for extra height of lift, per metre	kg	1.4	1.8	2.6	3.5	3.6	5.7	5.9	10.1
Effort On Hand Chain to raise full working load	kg	28	30	33	37	33	41	46	43
Velocity Ratio (movement of hand chain relative to load chain)		27:1	45:1	90:1	78:1	135:1	156:1	234:1	312:1
Safety Factor		4:1	4:1	4:1	4:1	4:1	4:1	4:1	4:1
All Dimensions in mm. Data is subjected to changed without prior notice.									

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Chain Pulley Hoist



- Manufactured in ISO 9001:2000 Certified Company
  Assured Quality & Interchangeability of Parts
- Rugged European Design
  Assured Reliability
- Overload Slipping Clutch
  Safety Assured
- Compact Aluminum Alloy Cast Body
  Light Weight Precision Engineered
- Anticorrosion Powder Coated Finish
  Better Aesthetics
- Imported Grade 80 Surface Hardened Load Chain For Strength & Wear Resistance
  Longer Chain Life
- Built in Electrical Control Panel
  Ready to use
- Ergonomically Designed Pendent Control
  Easy of Usage
- Swiveling Bottom Block
  Free Rotation Handling Of Loads
- Precision Machined & Case Hardened Alloy Steel Gears & Load Chain Wheel
  Long Life, Noiseless Operation

Model	Chain Size Diameter In mm	Capacity in kg	FEM Duty	ISO Duty	Lifting Speed MPM		No Of Falls	Motor KW Main/Creep	Motor RPM	Headroom Hook Susp.	Headroom With PT	Headroom With GT/ET	Weight Hook Susp. (KG) 3M lft	Weight With ET (KG) 3M lft
					Single	DUAL Fast/Slow								
HC1 005 DL	4	50	2m	M5	-	12/3	One	0.25/0.8	2800/700	360	400	420	35	70
HC1 005 DH	4	-	-	-	-	16/4	One	0.25/0.8	2800/700	360	400	420	35	70
HC1 008 NL	4	80	2m	M5	8	-	One	0.25	1500	360	400	420	30	65
HC1 008 DL	4	-	-	-	-	8/2.6	One	0.25/0.08	1500/410	360	400	420	35	70
HC1 008 DH	4	-	-	-	-	12/3	One	0.25/0.08	1500/410	360	400	420	35	70
HC1 012 NH	4	125	1Am	M4	8	-	One	0.25	1500	360	400	420	30	65
HC1 012 DH	4	-	-	-	-	8/2.6	One	0.25/0.08	1500/410	360	400	420	35	70
HC1 025 NL	4	250	1Am	M4	4	-	One	0.25	1500	360	400	420	30	65
HC1 025 DL	4	-	-	-	-	4/1.3	One	0.25/0.08	1500/410	360	400	420	35	70
HC1 025 NH	6	-	-	-	8	-	One	0.55	1500	440	460	460	40	75
HC1 025 DH	6	-	-	-	-	8/2.6	One	0.55/.18	1500/410	440	460	460	44	79
HC2 050 NL	6	500	1Am	M4	4	-	One	0.55	1500	440	460	460	40	75
HC2 050 DL	6	-	-	-	-	4/1.3	One	0.55/.18	1500/410	440	460	460	44	79
HC3 050 NH	7	-	-	-	8	-	One	0.9	1500	440	460	460	55	90
HC3 050 DH	7	-	-	-	-	8/2.6	One	0.85/0.3	1500/460	550	560	560	60	95
90HC3 100 NL	7	1000	1Am	M4	4	-	One	0.9	1500	550	560	560	55	90
HC3 100 DL	7	-	-	-	-	4/1.3	One	0.85/0.3	1500/460	550	560	560	60	95
HC4 100 NH	10	-	-	-	8	-	One	1.84	1500	600	625	625	90	125
HC4 100 DH	10	-	-	-	-	8/2.6	One	1.7/.6	1500/460	600	625	625	94	129
HC4 200 NL	10	2000	1Am	M4	4	-	One	1.84	1500	600	625	625	90	135
HC4 200 DL	10	-	-	-	-	4/1.3	One	1.7/0.6	1500/460	600	625	625	94	139
HC4 250 NL	10	2500	1Am	M4	4	-	One	2.2	1500	600	625	625	90	150
HC4 250 DL	10	-	-	-	-	4/1.3	One	2.5/0.8	1500/490	600	625	625	98	158
HC4 300 NL	10	3000	1Am	M4	4	-	Two	3.5	1500	950	870	870	125	185
HC4 300 DL	10	-	-	-	-	4/1.3	Two	3.5/1.2	1500/460	950	870	870	135	200
HC4 500 NL	10	5000	1Am	M4	4	-	Two	4.5	1500	1000	NA	1000	150	230
HC4 500 DL	10	-	-	-	-	4/1.3	Two	4.5/1.5	1500/460	1000	NA	1000	160	250

Note - Hoisting speeds are changed on various Models by changing any of the parameters/combinations of parameters.i.e. motor rpm, no. of falls, gear box reduction ratio.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

indef



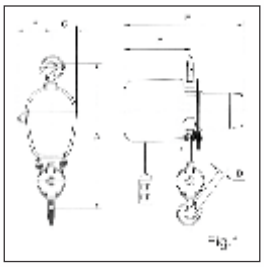
Baby Chain Pulley Hoist

BABY: Standard

- Manufactured in ISO 9001:2000 Certified Company
  Assured quality & Interchangeability of parts
- Grade 80 Load Chain
  Higher safety factor & Longer chain
- Equipped with a Grade 80 Load Chain for Long chain life & a higher safety facto
- Rugged German design in use for more than 30 years
  Assured Reliability
- Assuring you reliability with its Rugged German design and
  Customer Satisfaction spanning more than 30 years
- Precision Machined Case hardened alloy Steel Gears
  Long life, noiseless operation
- Precision Machined Case hardened alloy Steel Gears benefiting longer life span & noiseless operation
- Light weight simple mounting design
  Ease of Installation
- Has a Light weighted simple mounting design for ease of Installation
- Built in electrical control panel
  Ready to use
- Equipped with a built in electrical control panel - Ready to use
- Precision Machined & Hardened Load Chain Wheel
  Longer life of LCW & chain smooth operation
- Precision Machined & hardened Load Chain Wheel benefiting longer life span of LCW & smooth chain operation

Capacity	kgs.	500 KG	1000 KG	2000 KG		500 KG	1000 KG	2000 KG
Chain Falls	no	2	2	4	A	750	750	860
Hoisting Speed	m/min	4.8	4.8	2.4	B	150	150	150
Hoist Motor	H.P.	1.5	1.5	1.5	C	120	120	120
Height Of max Lift (std 3m)	M	9.6	9.6	4.8	D	31	31	37
Length of control cable	M.	At your choice			E	525	525	525
Approx . Wt. With Chains For 3m Lift	kg.	63	63	65	F	285	285	285
Approx . Wt. Per Meter Additional Lift	kg.	2.6	2.6	5.2				

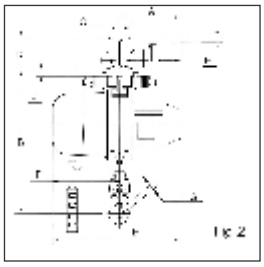
* Higher Lifts Offered On request



"BABY" With Hook Suspension - Fig 1

Capacity	kgs.	500 KG	1000 KG	2000 KG		500 KG	1000 KG	2000 KG
Traveling Motor	m/min.	10	10	10	A for C Max.	493	493	500
Traveling Speed	H.P	0.25	0.25	0.25	A for C Min.	370	370	395
Min. Runaway Bend (radius of curvature)	mm	1500	1500	1500	B	840	840	965
Approx. weight with chains for 3 m lift	kgs.	87	87	96	C Max.	305	305	305
Approx. weight per metre additional lift	kgs.	2.6	2.6	5.2	C Min.	58	58	90
					D Min.	150	150	200
					E	525	525	525
					F	285	285	285
					G	31	31	37
					H Min.	23	23	14
					J Max*	28	28	28

* To calculate clearance under beam subtract beam flange thickness from J.
(Data tolerance +/_ 10%)
All dimensions in MM..

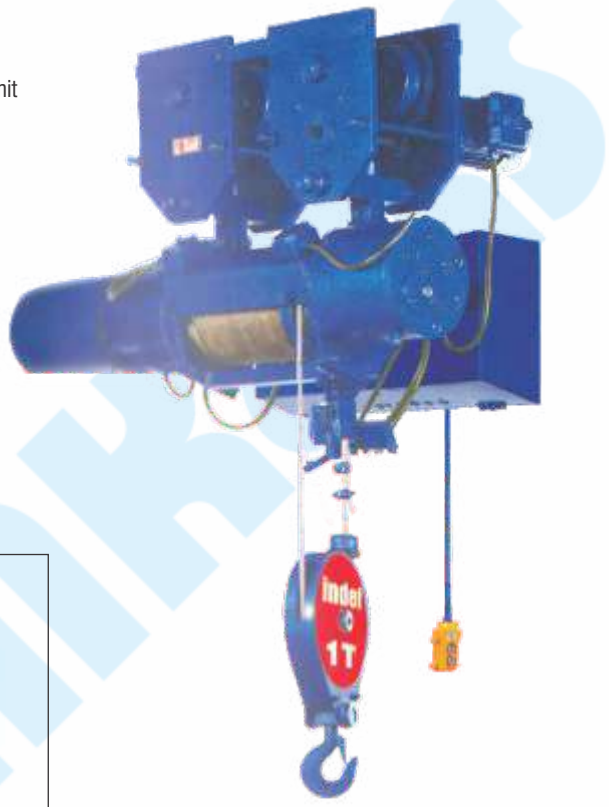


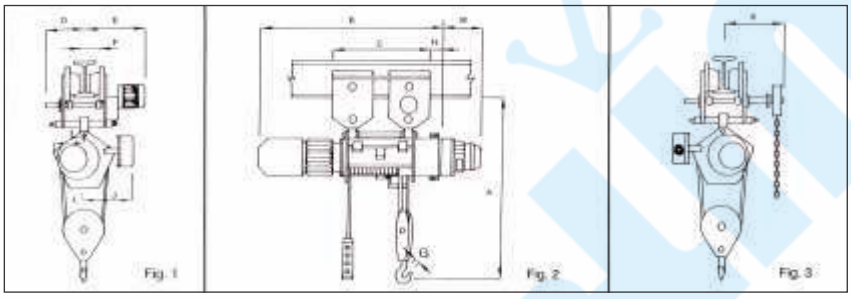
"BABY" With Electric Trolley - Fig 3

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Heavy Duty Wire Rope Hoist

- Heavy Duty Class IV Robust Design
  Smooth operation even in toughest of application
- Manufactured in ISO 9001:2000 Certified Company
  Assured quality and Interchangeability of parts
- Truly Modular Construction
  Easily Accessible separate brake ,motor, drum gear box and panel unit
- Seamless Pipe Accurately Machined rope drum
  Long life
- Unique and Sturdy rope guide arrangement
  Prevents rope slackening and easy change rope
- Precision Machine Cut Case-Hardened Alloy Steal gears
  Noiseless Operation Longlife
- Fail Safe Disk Brake
  Trouble free operation and ease of adjustment
- Built in Control Panel with Std. Electricals
  Ready to Use





Type	WHR I			WHR II			WHR III			WHR I			WHR II			WHR III			WHR III	
Model	NP 101			NP 201			P 301			NP 102			NP 202			P 302			P 303	
Class	IV			IV		II	IV			IV			IV		II	IV			IV	II
S.W.L.. (Tonne)	1.0			2.0		2.5	3.0			2.0			4.0		5.0	6.0			7.5	10.0
Lift (Mtrs.)	6	12	20	6.6	11.4	19.2	7	12	20	3	6	10	3.3	5.7	9.6	3.5	6	10	4	6
Approx. Wt. (Kg.)	264	286	322	386	414	459	533	546	568	296	318	354	478	497	563	638	818	828	900	1000
Dim B	1075	1285	1555	1170	1340	1610	1255	1425	1695	1075	1285	1555	1170	1340	1610	1255	1425	1695	1425	1695
Dim C	552	752	1022	588	758	1028	635	805	1075	552	752	1022	635	805	1075	635	805	1075	1050	1295
Hoisting Speed m/min	9			8			8			4.5			4			4			2.66	
Hoisting Motor H.P (K.W)	3 (2.2)			5 (3.7)			7.5 (5.5)			3 (2.2)			5 (3.7)			7.5 (5.5)			7.5 (5.5)	
Travelling Speed m/min ^	17			17			17			17			17			17			17	
Travelling Motor H.P (k.W)	0.25(0.18)			0.25(0.18)			0.5(0.37)			0.25(0.18)			0.5(0.37)			0.75(0.55)			0.75 (0.55) (2 nos)	
Min.Height of 'T' Beam (mm)	175			175			250			175			250			250			300	
F Min - Max	90-180			90-180			125-210			90-180			125-210			125-210			**	
A headroom	1170			1370			1480			1110			1345			1460			1825	
D Min-Max	151-196			151-196			163-178			151-196			163-178			163-178			452-487	
E * Min-Max	399-444			399-444			412-457			399-444			412-457			412-457			452-487	
G	31			37-42			42			37			51			67			89	
H	130			143			140			130			120			140			371	
I	230			290			330			320			405			480			371	
J	270			315			365			305			350			395			625	
K	-			305			-			-			305			-			495	
M+	-			380			-			-			380			-			380	

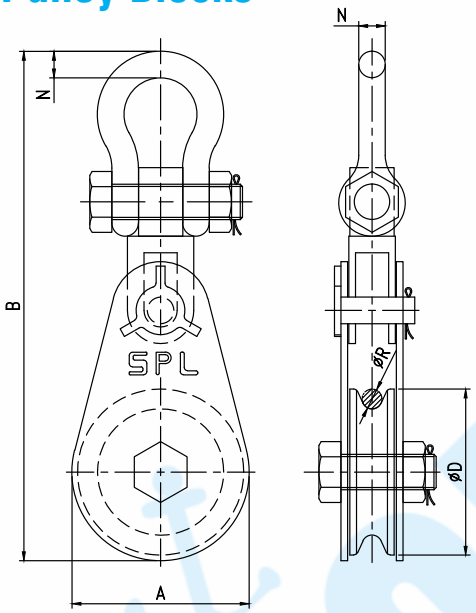
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Snatch Block With Shackle

Wire Rope Pulley Blocks

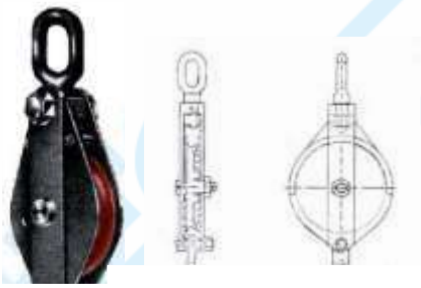


SPL-419



Working Load Limit (T)	Sheave Diameter in Inch (D)	Wire Rope Size in mm (R)	Shackle Model: SL 2130	
			Working Load Limit (t)	Nominal Size in Inch (N)
2	3	8-10	2	0.5
5	4.5	13-16	6.5	0.75
8	6	16-19	8.5	1
10	8	19-22	12	1.25
12	10	25-28	12	1.25
15	10	28-32	17	1.5
20	12	32-36	25	1.75
25	14	32-38	25	1.75
30	14	38-44	35	2
35	16	38-44	35	2
55	16	44-50	55	2.5
75	20	50-56	85	3
100	24	64	120	3.5
125	26	70	150	4
200	30	76	200	4.75

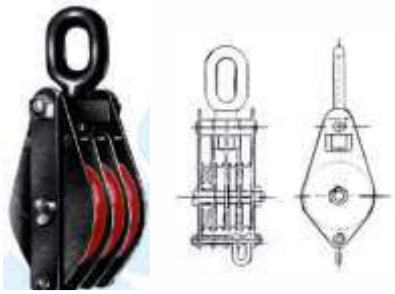
Single Sheave Pulley Block



Double Sheave Pulley Block



Trible Sheave Pulley Block



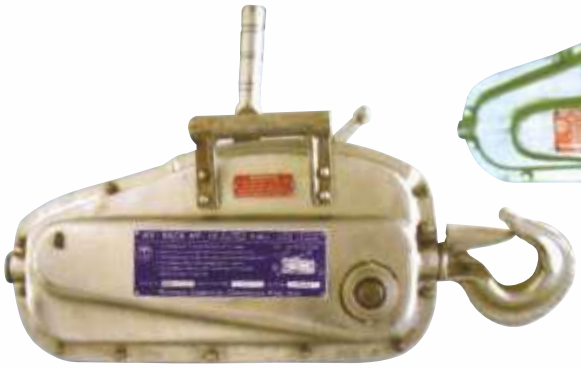
PULLEY BLOCK FOR WIRE ROPES WITH DROP FORGED SWIVEL EYE ON TOP & C. I. PULLEY SFITTED WITH G. M. BUSHING & SELF LUBRICATING SYSTEM GREASE NIPPLE, HIGH TENS ILEPIN WITH TEST CERTIFICATE.

	Single Sheave	Double Sheave	Triple Sheave	Four Sheave
Size	Cap	Cap	Cap	Cap
inches	tons	tons	tons	tons
6 X ½	1.5	3	3.5	6
8 X 5/8	2.5	5	7.5	10
10 X 3/4	3	5	9	12
12 X 1	5	10	15	25
14 X 1.1/4	10	15	20	35
16 X 1.1/2	15	20	25	50

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Pulling & Lifting Machines
Hy-Tack XL Series 2005

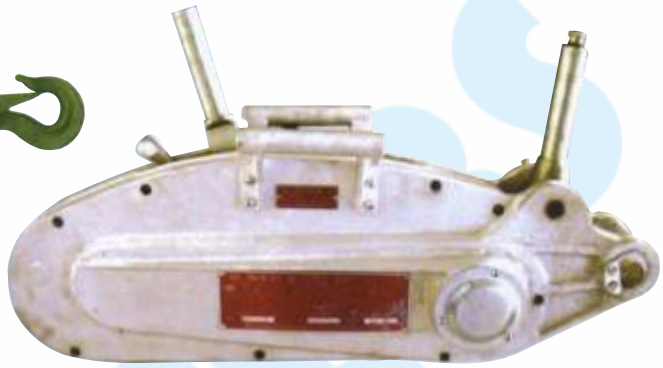
Mfg. As Per IS - 5604
R.D.S.O. APPROVED



HT-13



HT-7



HT-35

Accepted & Widely used by:

- Railways
- Road Transports
- Electricity Board's
- Dockyards
- Navigator
- Mines and Quarries
- Heavy Industries etc.

About the machine : Multipurpose, Universal, Gearless, Hand Operated Pulling and Lifting Machine, complete with Standard Length of Super Flex Plough steel Wire Rope (IS-2266) fitted with 'Eye-Hook' / 'Dee-Shackle' at one end and fused and tapered at the other end along with Telescopic Operating Handle.

Model		HT-7 RDSO App.	HT-13 RDSO App.	HT-20 IS - 5604	HT-35 RDSO App	HT-58 IS-5604
Dimensions (mm)		515 x 195 x 110	600 x 235 x 130	600 x 235 x 150	700 x 400 x 140	810 x 465 x 190
Capacity: S.W.L.	Lifting	0.80 tonne	1.6 tonne	2.0 tonne	3.2 tonne	5.0 tonne
	Pulling	1.25 tonne	2.6 tonne	3.0 tonne	5.2 tonne	8.0 tonne
Velocity of wire rope		45±5 mm/stroke	45±5 mm/stroke	50±5 mm/stroke	25±5 mm/stroke	30±5 mm/stroke
Effort	Lifting Capacity	25 kgf Max.	35 kgf Max.	35 kgf Max.	45 kgf Max.	50 kgf Max.
	Pulling Capacity	25 kgf Max.	35 kgf Max.	35 kgf Max.	45 kgf Max.	50 kgf Max.
Length of Telescopic Operating Handle		530/780 mm	760/1170 mm	760/1170 mm	800/1210 mm	800/1210 mm
Factor of Safety		5 min	5 min	5 min	5 min	5 min
Diameter of rope		8.0 mm	11.0 mm	12.0 mm	16.0 mm	20.0 mm
Standard length of rope / fittings		10m/D-shackle	20m/Hook	20m/Hook	10m/D-Shackle	10m/D-Shackle
Breaking load of wire rope		41.0KN min	9.0 t min	9.6 t min	161.0 KN min	196.0 KN min
Back slippage of wire rope		10% of total lift/Stroke	10 % of total lift/Stroke	10 % of total lift/Stroke	15 % of total lift/Stroke	15 % of total lift/Stroke
Weight (Approx)***		8.0 kgs Max	18.0 kgs Max	19.0 kgs Max	30.0 kgs Max	47.0 kgs Max

****Without operating Handle, Wire Rope, Eye-Hook / Dee-Shackle*

Designs & specifications subject to alterations for the sake of improvement without notice.
All dimensions are in approx. mm unless otherwise stated.

Exclusive Features :

Casing : Made from Pressed Steel (Galvanized) or Graded Aluminium for light weight with a high factor of Safety

Jaw : Manufactured from Special Alloy Steel, accurately machined and Heat Treated, so as to avoid slippage of wire rope under load.

Jaw links : Forged Steel & Heat Treated for greater strength.

Hooks/Dee Shackles : Alloy Steel Forged and Zinc Plated as per IS:1573

Wire Rope : SuperFlex Plough Steel as per IS-2266 with Heavy coatings as per IS-4826.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

I-Beam Clamps

Safe Working Load : 1000 - 20, 000 kgs.

I- Beam (Girder) Clamp can be fixed permanently as well as can be moved easily by unscrewing and screwing for use at the desired points. The clamp serves a variety of applications by quickly creating various stopper points for installing Cranes, Hoists, Chain Pulley Blocks, Deflection Pulleys, Sheave Blocks etc. The spindle mechanism enables equal and opposite movement of Locking jaws. The clamp jaws are specially designed to secure firm seat on I-Beam flange.

IMPORTANT FEATURES :

- Lower construction height due to integrated traverse.
- Reduced Stress on I-Beam flange due to specially designed clamp jaws.
- Adustable for a wide range of I-Beam widths and Profiles (INP, IPE and IPB)
- Strong Industrial Design.
- Clamp corresponds to standard specification for vertical load pick-up.
- Each equipment is serially numbered, tested by a competent authority 50% overload and is given a Test Certificate.



Lifting Girders



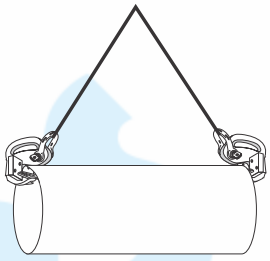
Suspending Chain Pulley Blocks/Hoists



I- BEAM CLAMPS (Model : SL- IBC)	
CAPACITY	FLANGE WIDTH
1	3" - 7"
2	3" - 7"
3	3" - 12"
5	4" - 13"
10	4" - 13"
15	5" - 16"
20	5" - 16"

PIPE LIFTING CLAMPS TEFLON PADS
(Model : SL-PLC)

CAPACITY		Shackle size	Plate Size
EACH	PAIR		
1.5	3	16x19	16
2.5	5	16x19	25
4	8	19x22	28
5	10	19x22	32
7.5	15	25x28	35
10	20	28x32	45

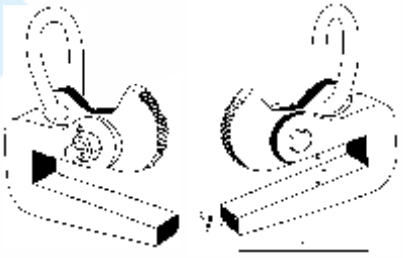


Specifications given are indicative and are subject to change.



SL - PLC Pipe Lifting Clamps

5 Tons on pairs. Specially designed, rubber coated pipe lifting clamps with teflon coated jaw for pipe protection.



Horizontal Plate Lifting Clamps

WARNING :

1. Do not exceed working load limit.
2. Inspect clamp before each lift.
3. Do not lift more than one plate or sheet at a time.
4. Position clamp to balanced load.
5. Insert plate or unit to full depth of throat opening.
6. Lift slowly and smoothly. Do not jerk load.
7. Stand clear of load when lifting.
8. Do not use a damaged clamp.
9. Read manufacturer's instructions before using clamps

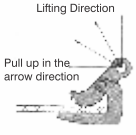
Horizontal Plate Clamps are designed for flat or horizontal lifting and are generally used in pairs. The gripping cam of hardened steel, prevents the clamp from slipping on the load. The cams are available either with serrated teeth or smooth faced, as requested.

Horizontal Plate Lifting Clamps with Hardened Jaws (Model : SL- HPL)							
Capacity In Tons		Jaw Opening A	Plate Admit C	Body Dia B	Cam Dia	Ring Size d X D	Weight Per Pair Kgs
Pair	Each						
SL-HPL 1	0.5	50	150	40	16	16 X 75	12
SL-HPL 2	1	60	170	45	16	20 X 85	13.5
SL-HPL 3	1.5	70	200	55	20	22 X 95	26.5
SL-HPL 5	2.5	85	260	65	25	25 X 95	40
SL-HPL 10	5	95	300	90	32	32 X 135	78
SL-HPL 20	10	150	400	120	40	45 X 200	160

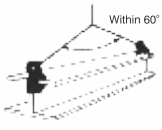
Dimension x can be altered as per customer's requirement
All dimensions in mm

Specifications given are indicative and are subject to change.

Correct method of use



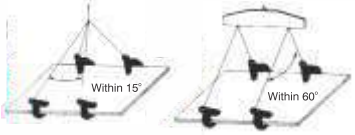
Insert the steel plate to the fullest depth



Lift and carry H or I section steel as shown above.



When lifting a steel plate at tow points, hold at positions above the center of gravity.



To carry a long object, lift at four points, and use a balance as far as possible. (Observe the lifting angle for safety precaution.)

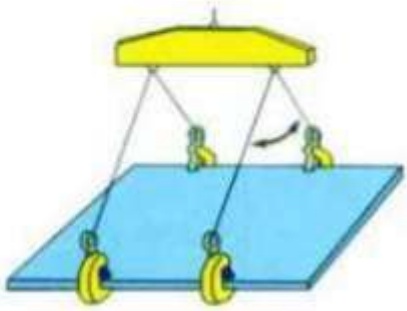
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

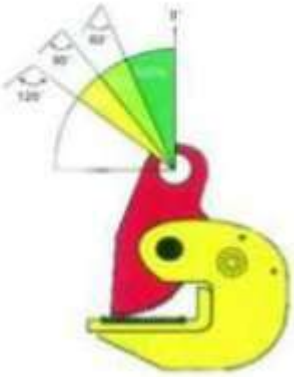
Horizontal Plate Lifting Clamp

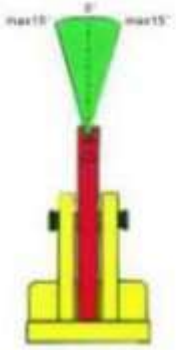


Working load limit (WLL) 0.8-30T

- 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 a authorized to support when used in pairs with a lift angle of 60°
- In lifting operations the clamps can be used in pairs or multiples
- The screw jaw of the body can be changed, also have a safety button







Part No.	Model	Pair WLL (tonnes)	Jaw Opening (mm)	Weight (kg)
RJ-0065	PPD1	1.0	0-30	3.5
RJ-0066	PPD1.6	1.6	0-30	4
RJ-0067	PPD2	2.0	0-40	5
RJ-0068	PPD3.2	3.2	0-45	6
RJ-0070	PPD5	5.0	0-55	7.5
RJ-0073	PPD8	6.0	0-100	22
RJ-0074	PPD10	10.0	0-125	33
RJ-0075	PPD16	16.0	50-150	50
RJ-0076	PPD30	30.0	100-270	108

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

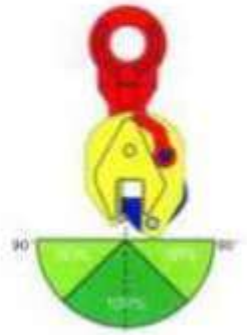
Vertical Plate Lifting Clamp

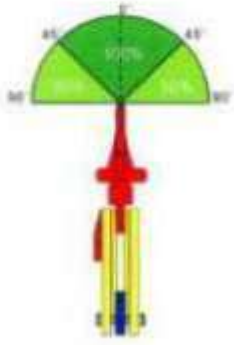


Working load limit (WLL) 0.8-30T

- For lifting and transporting of steel plates and structures from all positions (horizontal Vertical and sidelong)
- Articulated lifting shackle (CD type)
- Clamps are equipped with a safety mechanism, ensuring the clamp does not slip when lifting force is applied and when as in open position
- The clamp is locked in closed as well as in open position
- Manufactured from high quality carbon steel







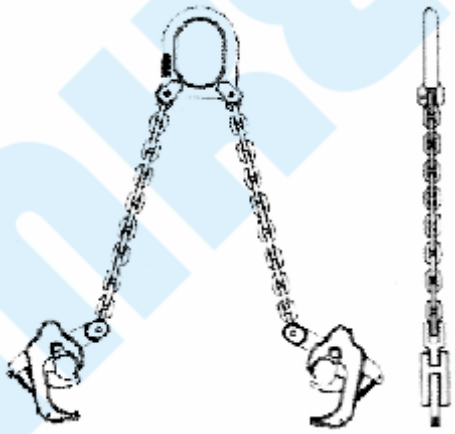


Part No.	Model	Pair WLL (tonnes)	Jaw Opening (mm)	Weight (kg)
RJ-0003	CD1(B)	1.0	0-20	5
RJ-0005	CD2	2.0	0-25	8
RJ-0007	CD3.2(B)	3.2	0-30	15
RJ-0009	CD5(B)	5.0	0-50	23
RJ-0010	CD8	8.0	0-45	37
RJ-0011	CD12	12.0	50-90	50
RJ-0012	CD16	16.0	60-100	65
RJ-0013	CD30	30.0	80-220	120

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Drum Lifting Clamp

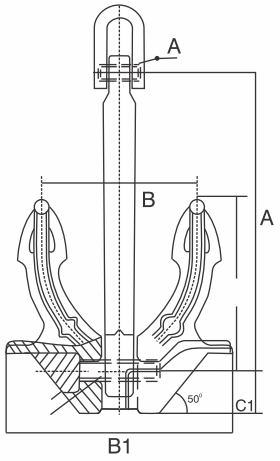


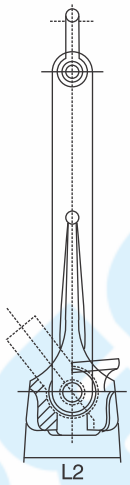


XXXX		XXXX	XXXX		XXXX			XXXX	Net Weight (kg)
XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	
500kg	1000kg	2000kg	6.3mm	516mm	13mm	66mm	93mm	690mm	3.6kg
1100lbs	2200lbs	4400lbs	1/4”	20 1/3”	1/2”	2 3/5”	3 2/3”	27 1/6”	49lbs

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Stockless Anchor



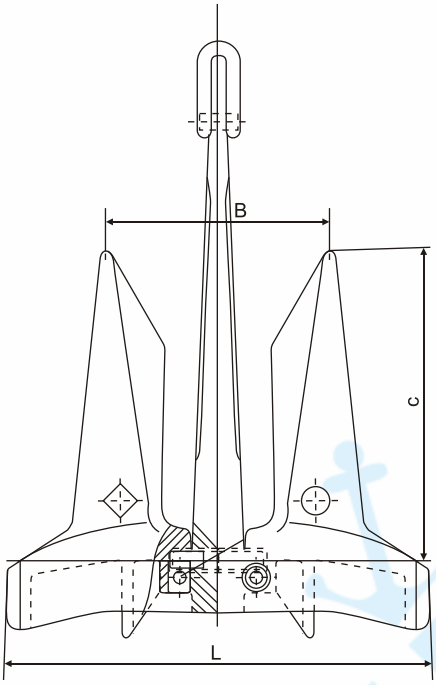


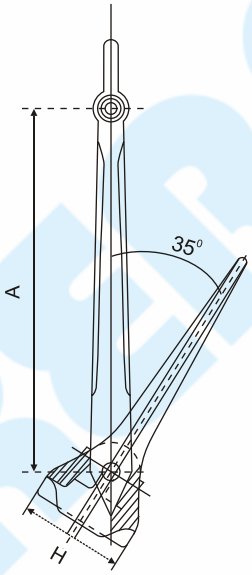
DIMENSION OF STOCKLESS ANCHOR					
NORMAL WEIGHT(kg)	B1	C	B	L2	A
50	400	270	284	172	450
75	480	318	339	200	550
100	540	358	381	232	760
120	570	420	402	245	800
140	600	443	424	258	840
165	630	456	445	271	880
180	650	480	459	280	910
200	660	487	466	284	920
240	720	530	510	310	1010
300	770	570	540	331	1080
360	820	610	560	353	1150
420	860	640	610	370	1200
480	900	670	640	387	1260
570	950	700	670	408	1330
660	1000	740	710	430	1440
780	1060	780	750	456	1480
900	1110	820	780	470	1550
1020	1160	860	820	500	1620
1140	1200	890	850	520	1680
1290	1250	920	880	540	1750
1440	1300	960	920	560	1820
1590	1340	990	950	580	1880
1740	1380	1020	980	600	1930
1920	1430	1060	1010	620	2000
2100	1470	1090	1040	640	2060
2280	1510	1120	1070	650	2100
2460	1550	1150	1100	670	2170
2640	1590	1180	1120	690	2230
2850	1630	1210	1150	700	2230
3060	1670	1240	1180	720	2340
3300	1710	1270	1210	740	2390
3540	1750	1290	1240	750	2450
3780	1790	1320	1260	770	2510
4050	1830	1350	1290	790	2560

DIMENSION OF STOCKLESS ANCHOR					
NORMAL WEIGHT(kg)	B1	C	B	L2	A
4320	1870	1380	1320	800	2620
4590	1910	1410	1350	820	2670
4890	1950	1440	1380	840	2730
5250	2000	180	1410	860	2800
5610	2040	1510	1440	880	2860
6000	2090	1540	1480	900	2930
6450	2140	1580	1510	920	3000
6900	2190	1620	1550	0.94	3070
7350	2240	1650	1580	960	3140
7800	2280	1680	1610	680	3090
8300	2330	1720	1650	1000	3200
8700	2370	1750	1670	1020	3320
9300	2420	1790	1710	1040	3390
9900	2470	1820	1740	1060	3460
10500	2520	1860	1780	1080	3530
11100	2570	1900	1820	1100	3600
11700	2610	1930	1840	1120	3650
12300	2650	1960	1870	1140	3710
12900	2690	1990	1900	1160	3770
13500	2740	2020	1940	1180	3840
14100	2780	2050	1960	1200	3890
14700	2820	2080	1990	1210	3950
15400	2860	2110	2020	1230	4000
16100	2900	2140	2050	1250	4060
16900	2950	2180	2080	1270	4130
17800	3000	2210	2120	1290	4200
18800	3060	2260	2160	1320	4280
20000	3120	2300	2200	1340	4370
21500	3200	2360	2260	1380	4480
23000	3270	2410	2310	.1410	4580
24500	3340	2460	2360	1440	4680
26000	3410	2520	2410	1470	4770
27500	3470	2560	2450	1490	4860
29000	3530	2610	2490	1520	4946

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

AC-14 Type Anchor



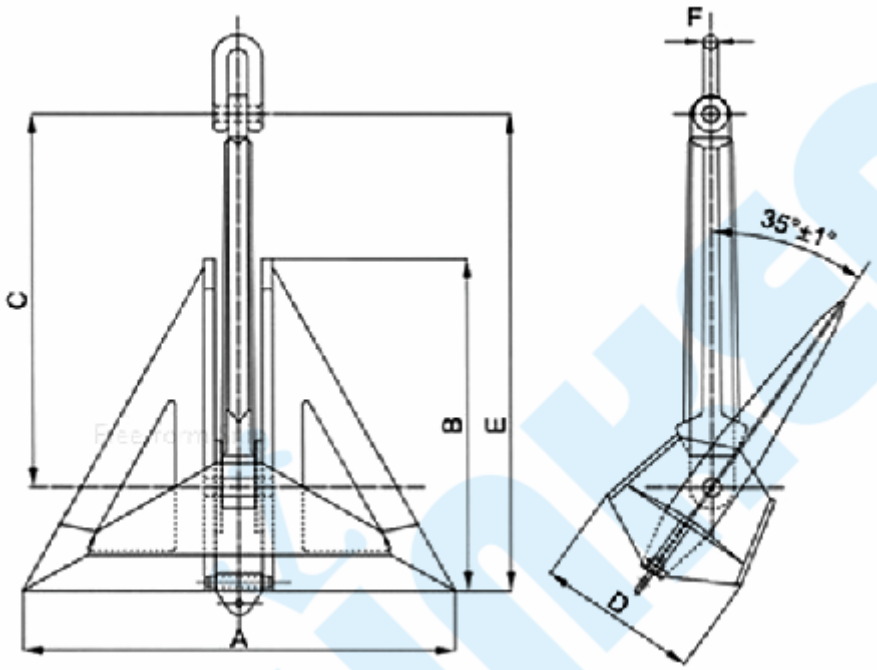


DIMENSION OF AC -14 H.H.P. ANCHOR					
NORMAL WEIGHT(kg)	A	L	H	C	B
180	904	811	251	550	434
225	974	874	270	593	468
340	1109	995	307	675	533
460	1227	1101	340	747	590
675	1398	1254	387	851	672
910	1540	1385	427	938	740
1140	1660	1490	460	1011	798
1360	1761	1580	488	1072	846
1590	1855	1665	514	1130	892
1820	1940	1741	538	1182	933
2040	2016	1809	559	1227	969
2270	2089	1874	579	1272	1004
2720	2218	1991	615	1351	1066
3040	2302	2066	638	1402	1107
3240	2352	2110	652	1432	1130
3445	2400	2154	665	1462	1154
3670	2451	2200	680	1493	1178
3940	2510	2252	696	1529	1207
4210	2566	2303	711	1563	1234
4500	2624	2355	727	1598	1261
4840	2688	2412	745	1637	1292
5175	2749	2467	762	1674	1321
5515	2808	2520	778	1710	1350
5850	2864	2570	794	1744	1376
6225	2923	2623	810	1780	1405

DIMENSION OF AC -14 H.H.P. ANCHOR					
NORMAL WEIGHT(kg)	A	L	H	C	B
6525	2970	2665	823	1808	1428
6600	2981	2675	820	1815	1433
7015	3042	2730	843	1853	1462
7425	3100	2782	859	1888	1490
7875	3162	2837	876	1925	1520
8325	3221	2890	893	1961	1548
8775	3278	2942	909	1996	1576
9225	3333	2991	924	2030	1602
9675	3386	3039	939	2062	1628
10125	3438	3085	953	2094	1653
10575	3438	3130	967	2124	1677
10690	3501	3141	970	2132	1683
11025	3537	3174	981	2154	1700
11250	3561	3196	987	2169	1712
11550	3592	3224	996	2188	1727
11850	3623	3251	1004	2206	1742
12075	3646	3272	1011	2220	1753
12525	3691	3312	1023	2248	1774
12675	3705	3325	1027	2256	1781
13200	3756	3370	1041	2287	1805
13350	3770	3383	1045	2296	1812
13875	3819	3426	1059	2326	1836
14100	3839	3445	1064	2338	1846
15000	3919	3517	108	2387	1884
16125	4015	3603	1113	2445	1930
17250	4106	3685	1138	2501	1974
18375	4194	3763	1163	2554	2016
19500	4278	3839	1186	2605	2056

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Delta Flipper Anchor



Weight kg	A mm	B mm	C mm	D mm	E mm	F mm
300	1200	960	1080	457	1380	45
500	1500	1200	13!	571	1725	50
1000	187.5	1500	1686	714	2155	62
1080	1915	1530	1686	722	2200	62
2000	2363	1890	2124	900	2715	74
3000	2700	2160	2430	1028	3105	90
4000	2975	2380	2676	1133	3420	100
5000	3250	2600	2922	1238	3735	110
7000	3575	2860	3216	1361	4110	117
9000	3950	3160	35!	1504	4543	135
10000	4100	3280	3690	1561	4715	140
12000	4490	3575	4030	1695	5320	145
13500	4670	3720	4195	1765	5535	150
15000	4845	3875	4355	1830	5735	150
18000	5140	4080	4610	1940	6080	160
20000	5330	4260	4790	2010	6310	170
22500	5490	4360	4905	2060	6470	180
25000	5740	4590	5160	2165	6795	180

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Stud Link Anchor Chain

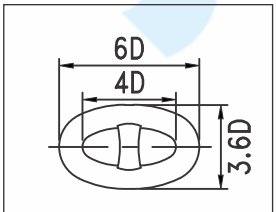
Sole selling agent
in India of
JIANGSU ASIAN STAR ANCHOR CHAIN CO. LTD.
for ANCHORS CHAINS



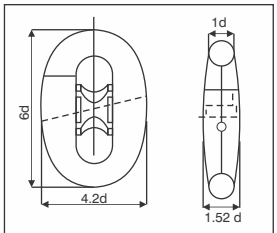
TESTING LOAD OF STUD LINK ANCHOR CHAIN AND ACCESSORIES

No. of links per 27.5 m. (90 ft.)	Chain Diameter	Grade2		Grade3		Approx.mass (27.5mm)	No. of links per 27.5 m. (90 ft.)	Chain Diameter	Grade2		Grade3		Approx.mass (27.5mm)
		Proof load C=0.0098	Breaking load C=0.0137	Proof load C=0.0137	Breaking load C=0.0196				Proof load C=0.0098	Breaking load C=0.0137	Proof load C=0.0137	Breaking load C=0.0196	
	mm	KN	KN	KN	KN	kg		mm	KN	KN	KN	KN	kg
491	14	82	116	116	165	130	107	64	1560	2190	2190	3130	2529
429	16	107	150	150	216	170	105	66	1660	2310	2310	3300	2689
391	17.5	127	179	179	256	189	99	68	1750	2450	2450	3500	2858
357	19	150	211	211	301	226	97	70	1840	2580	2580	3690	3025
329	20.5	175	244	244	349	263	93	73	1990	2790	2790	3990	3341
305	22	200	280	280	401	303	89	76	2150	3010	3010	4300	3566
285	24	237	332	332	476	370	87	78	2260	3160	3160	4500	3756
259	26	278	389	389	556	439	85	81	2410	3380	3380	4820	4050
245	28	321	449	449	642	496	81	84	2580	3610	3610	5160	4355
225	30	368	514	514	735	564	79	87	2750	3850	3850	5500	4672
213	32	417	583	583	833	635	77	90	2920	4090	4090	5840	5000
195	34	468	655	655	937	724	73	92	3040	4260	4260	6080	5224
187	36	523	732	732	1050	812	71	95	3230	4510	4510	6440	5571
179	38	581	812	812	1160	905	71	97	3340	4680	4680	6690	5809
171	40	640	896	896	1280	1032	69	100	3530	4940	4940	7060	6174
165	42	703	981	981	1400	1075	67	102	3660	5120	5120	7320	6423
153	44	769	1080	1080	1540	1197	65	105	3850	5390	5390	7700	6806
147	46	837	1170	1170	1680	1310	63	107	3980	5570	5570	7960	7067
143	48	908	1270	1270	1810	1438	61	111	4250	5940	5940	8480	7606
137	50	981	1370	1370	1960	1536	59	114	4440	6230	6230	8890	8023
129	52	1060	1480	1480	2110	1669	57	117	4650	6510	6510	9300	8450
125	54	1140	1590	1590	2270	1780	57	120	4850	6810	6810	9720	8889
123	56	1220	1710	1710	2430	1936	57	122	5000	7000	7000	9990	9187
119	58	1290	1810	1810	2600	2086	55	124	5140	7200	7200	10280	9492
113	60	1380	1940	1940	2770	2249	55	127	5350	7490	7490	10710	9957
111	62	1470	2060	2060	2940	2373							

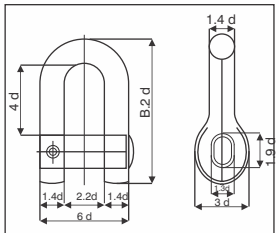
Note: Test load=C x D^2(44-0.08d)



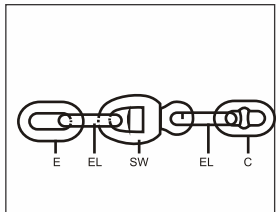
Common Link



Kenter Shackle



D - Type Anchor Shackle

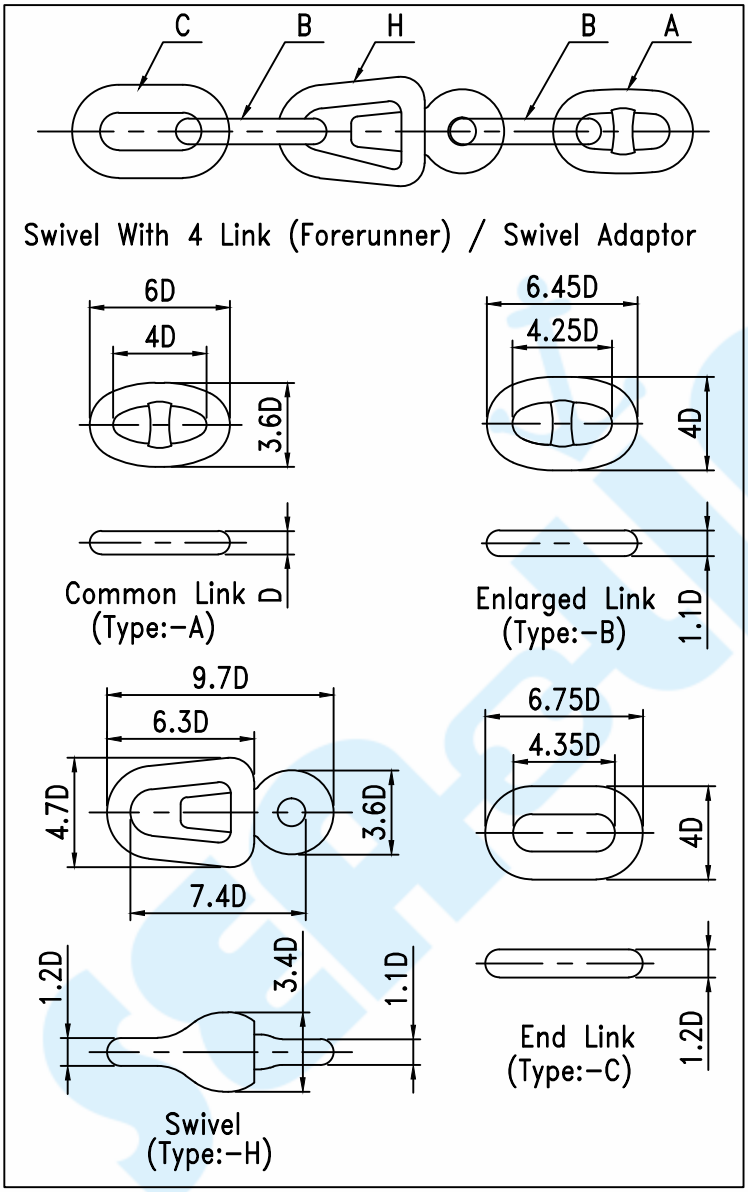


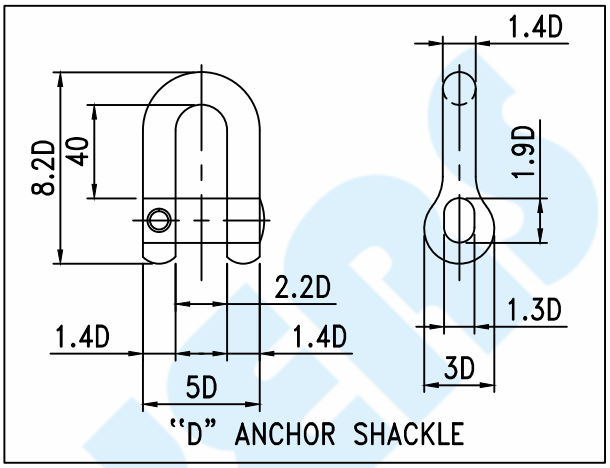
Swivel Adaptor (Forerunner)

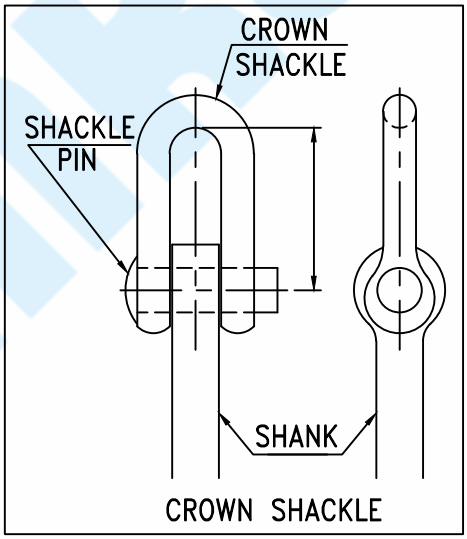

Stud Link

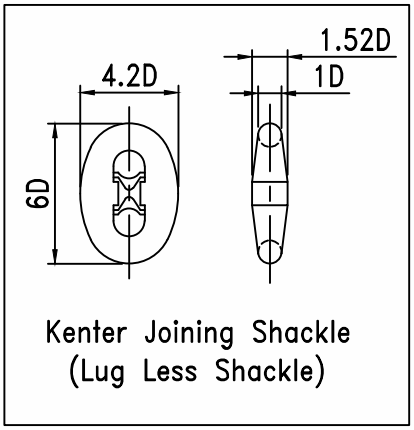
SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

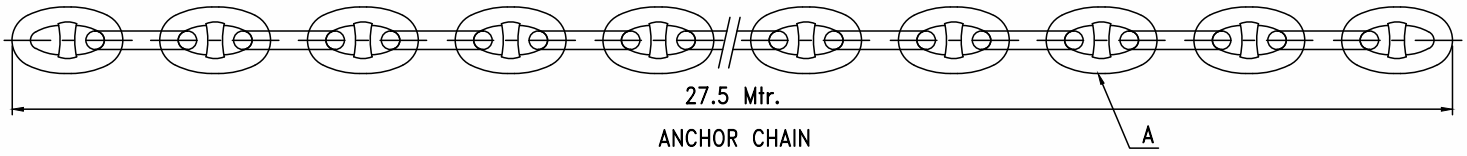
Anchor Chain Accessories
Stud Link Chain Cable & Fittings









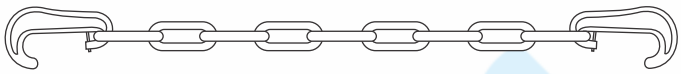


SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Lashing Chains



Lashing Chains & Load Binders



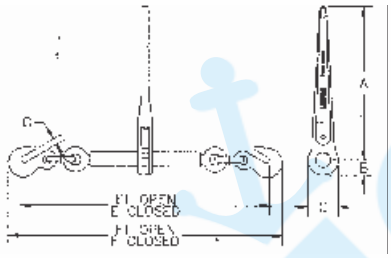
SLA1

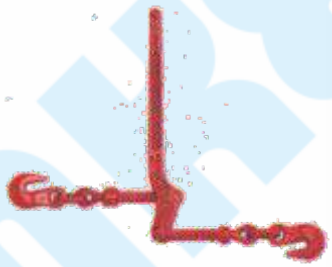
Ref.	Chain Diameter A (mm)	Inside Length B (mm)	Inside Width C (mm)	Typical breaking load (kN)	Weight per meter (kg)
CL-9	9	57	16	100	1.5
CL-11	11	66	18	150	2.1
C-13	13	81	22	200	2.9

Load Binders

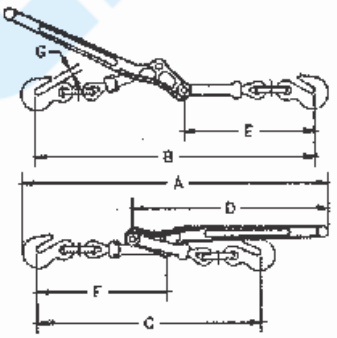


SL 140





SL 150



SL-140

- Upgraded for use with grades 70, 80 and 100 Chain
- Utilises standard Eye Grab Hooks
- New design "one piece" forged handle
- Continuous take up feature provides adjustment to tie down load
- One piece assembly, no bolts or nuts to loosen
- Ratchet spring is rust proofed
- All load bearing or holding parts forged
- Easy operating positive ratchet

Min-Max Chain Size (mm)	Working Load Limit (t)*	Proof Load (kN)	Weight Each (kg)	Handle Length (mm)	Barrel Length (mm)	Take Up (mm)	Dimensions (mm)							
							A	B	C	E	E1	F	F1	G
8-10	4.00	79	5.49	356	254	203	356	35.1	70.0	583	786	638	842	12.7
10-13	6.80	134	6.66	356	254	203	356	35.1	70.0	641	845	702	905	16.0
13-16	7.26	143	6.60	356	254	203	356	35.1	70.0	670	873	748	951	18.3

*Binders shown with Proof Loads have been individually proof tested to these values shown, prior to shipment

SL-150 Standard Lever Type Load Binders

- Extra heavy construction at leverage point to prevent spreading. Heel of binder toggles away from load, permitting easy release.
- Ball and socket swivel joints at hook assemblies permit a straight line pull.

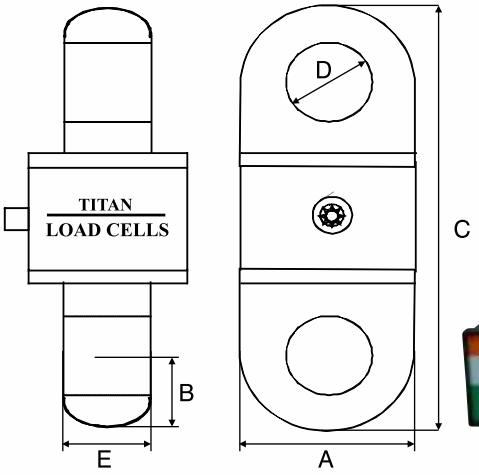
Std. Pkg.	Min-Max Chain Size (mm)	Working Load Limit (t)*	Proof Load (kN)	Ultimate Load (kN)	Weight Each (kg)	Handle Length (mm)	Take Up (mm)	Dimensions (mm)						
								A	B	C	D	E	F	G
4	8-10	2.45	48	8.63	3.18	406	114	613	562	454	406	264	264	12.7
4	10-13	4.17	82	15.0	5.66	475	114	730	654	540	475	313	314	16.0
4	13-16	5.90	116	20.9	8.93	533	121	794	756	635	533	372	349	18.3

*Ultimate load is 3 times the Working Load Limit

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Tension type Load Cell - Force Range 5 tonne to 500 tonne

Titan Load Cells





The TITAN series of compact tensile type load cells are ideal for all industrial weighing applications. Due to their utmost reliability, compactness and robust construction, they are widely installed in weighing application in all branches of industry. In addition to their use in weighing systems, TITAN load cells are also suitable for mechanical force measurement applications.

Based on the well proven strain gauge measuring principle in full bridge circuit, the highly developed "state-of-the-art" design of load cells, coupled with meticulous production and quality testing procedures, contribute to outstanding reliability.

Within the specified temperature range and overloading up to 110% of nominal load do not damage the load cells under working conditions.

WORKING LOAD CAPACITY (WLL)	A +/- 10%	B +/- 1	C +/- 1 %	D +/- 1	E +/- 10%	APPROX WEIGHT +/- 20%	SHACKLE MODEL CROSBY MAKE
TONNE	MM	MM	MM	MM	MM	KGS	
5	90	40	220	30	30	7	2130 - 4.75/6.5t
10	90	45	250	40	45	10	2130 - 9.5/12t
25/30	120	65	330	55	60	15	2130 - 25/2140 - 30t
35/50	120	70	350	60	70	20	2130 - 35/2140 - 55t
55	120	80	380	60	80	25	2140 - 55t
85	150	100	460	90	100	75	2130/2140 - 85t
120	200	120	560	100	120	90	2130/2140 - 120t
150	225	145	660	110	130	120	2130/2140 - 150t
200	250	170	760	125	140	200	2140/2160 - 200t
250	300	175	860	130	160	250	2140/2160 - 250t
300	350	200	960	155	180	400	2140/2160 - 300t
400	400	250	1060	180	200	600	2140/2160 - 400t
500	500	295	1160	185	230	900	2160 - 500t

TECHNICAL DATA		
Accuracy class		**0.5%**
Minimum pre load	Bottom limit of measuring range	**0.00%**
Nominal load	Highest limit of measuring range	**100%**
Max. usable load	Highest limit for measurement	**110%**
Destructive load	Mechanical strength danger limit	**120%**
Rated output	Relative output at nominal load	**2mV/V**
Creep, 30 min	Max. change in output under load	**<0.1 %**
Creep, 60 min	Max. change in output under load	**<0.2 %**
Non-linearity	Max. deviation line through zero	**<0.1 %**
Hysteresis	Max. difference in load output	**<0.2 %**
Temperature effect	On zero	**<0.1 %**
Temperature effect	On span	**<0.1 %**
Input resistance	Between supply terminals (+/-3 ohms)	**350 ohms**
Output resistance	Between output terminals (+/-3 ohms)	**350 ohms**
Insulation resistance	Between circuit and housing	**>1000M ohms**
Temperature range	Operation without damage	**+ 40 °C**
Storage temp. range	Transportation & storage	**+ 40 °C**

The technical data given here is serve only as a product description and must not be interpreted as guaranteed characteristics in the legal sense.



ZEBRA™
B.P.T Plot No. 107, Quay Street, Darukhana, Mumbai - 400 010
Tel: 91-22-2378 8888 • Fax: 91-22-2378 8822 / 2378 8811
Website: www.sealinkers.com • E-mail: sealinkers@sealinkers.com

Round Slings

- Zebra Round Slings are light weight compared to the working load ratio and being Polyester do not rust or corrode as in metal slings.
- These slings have no danger of hand injury to workman caused by cut wires and does not spark, hence can be used explosive environment.
- The elongation factor on load is only 3%, hence it absorbs the load while lifting.
- Zebra Round Slings flattens and adjust to contours of the load point thus forming a firm grip.

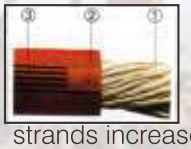




The sunken 280 ton Indira Gate being lifted using our Zebra Round Slings.



Construction



1.Bearing elements are endlessly laid, with high-tenacity polyester fibre strands. With the number of these fibre strands increase the S.W.L of Zebra round slings.

2. Protective sleeve made of special heavy duty polyester fabric for the endlessly laid fibre strands.

ENDLESS ROUND SLINGS- KR

M* = mode factor			CAPACITY					
			S.W.L	S.W.L.	S.W.L.	S.W.L.	S.W.L.	Guaranteed min.
ITEM CODE	AVG. DIA	COLOUR	vertical lift	basket lift	choker lift	45deg lift	90deg lift	breaking load
	MM		M* = 1	M = 2	M = 0.8	M = 1.8	M = 1.4	
			kgs.	kgs.	kgs.	kgs.	kgs.	kgs.
KR-500	15	VOILET	500	1000	400	900	700	3500
KR-1000	18	VOILET	1000	2000	800	1800	1400	7000
KR-2000	20	GREEN	2000	4000	1600	3600	2800	14000
KR-3000	22	YELLOW	3000	6000	2400	5400	4200	21000
KR-4000	25	GREY	4000	8000	3200	7200	5600	28000
KR-5000	27	RED	5000	10000	4000	9000	7000	35000
KR-6000	32	BROWN	6000	12000	4800	10800	8400	42000
KR-8000	38	BLUE	8000	16000	6400	14400	11200	56000
KR-10000	46	ORANGE	10000	20000	8000	18000	14000	70000
KR-12000	58	ORANGE	12000	24000	9600	21600	16800	84000
KR-15000	70	ORANGE	15000	30000	12000	27000	21000	105000
KR-20000	78	ORANGE	20000	40000	16000	36000	28000	140000
KR-25000	90	ORANGE	25000	50000	20000	45000	35000	175000
KR-30000	100	ORANGE	30000	60000	24000	54000	42000	210000
KR-36000	114	ORANGE	36000	72000	28800	64800	50400	252000
KR-40000	125	ORANGE	40000	80000	32000	72000	56000	280000
KR-50000	180	ORANGE	50000	100000	40000	90000	70000	350000
KR-75000	200	ORANGE	75000	150000	60000	135000	105000	525000
KR-100000	250	ORANGE	100000	200000	80000	180000	140000	700000

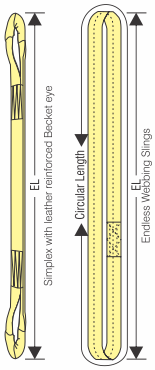
We manufacturer slings upto 500 Tons on request.
Factor of safety for webbing 1:7
The colour combination as shown in the chart is a mere indicator, however the colour may change subject to availability of raw materials

ZEBRA™
B.P.T Plot No. 107, Quay Street, Darukhana, Mumbai - 400 010
Tel: 91-22-2378 8888 • Fax: 91-22-2378 8822 / 2378 8811
Website: www.sealinkers.com • E-mail: sealinkers@sealinkers.com

Webbing Slings

SIMPLEX WEBBING SLINGS DUPLEX WEBBING SLINGS TRIPLEX WEBBING SLINGS















Zebra flat webbing slings are manufactured from high tenacity, 100% polyester yarn. Simplex slings is a single layered webbing. Sling ends are terminated either in reinforced loops or any combination of metal end fittings. Manufacturer's test certificate is provided for safe work load along with the slings. Simplex slings are preferred because of their broad width which gives wider support to lifts. The slings are of three types, namely simplex sling with soft eyes, simplex sling with metal end fitting and endless sling. They normally lift loads with the sling reeved around the load (Choke hitch), or on two parts of the sling (Basket hitch). They are tested in straight pull.

TYPE : SIMPLEX-KSF

M* = mode factor			CAPACITY					
			S.W..L	S.W.L.	S.W.L.	S.W.L.	S.W.L.	Guaranteed min.
ITEM CODE	WIDTH	COLOUR	vertical lift	basket lift	choker lift	45deg lift	90deg lift	breaking load
	MM		M* = 1	M = 2	M = 0.8	M = 1.8	M = 1.4	
			kgs.	kgs.	kgs.	kgs.	kgs.	kgs.
KSF-500	25	VOILET	500	1000	400	900	700	3500
KSF-1000	50	GREEN	1000	2000	800	1800	1400	7000
KSF-1500	75	YELLOW	1500	3000	1200	2700	2100	10500
KSF-2000	100	GREY	2000	4000	1600	3600	2800	14000
KSF-2500	125	RED	2500	5000	2000	4500	3500	17500
KSF-3000	150	BROWN	3000	6000	2400	5400	4200	21000
KSF-4000	200	BLUE	4000	8000	3200	7200	5600	28000
KSF-5000	250	ORANGE	5000	10000	4000	9000	7000	35000
KSF-6000	300	ORANGE	6000	12000	4800	10800	8400	42000

TYPE : DUPLEX-KDF / ENDLESS

KDF-1000	25	VOILET	1000	2000	800	1800	1400	7000
KDF-2000	50	GREEN	2000	4000	1600	3600	2800	14000
KDF-3000	75	YELLOW	3000	6000	2400	5400	4200	21000
KDF-4000	100	GREY	4000	8000	3200	7200	5600	28000
KDF-5000	125	RED	5000	10000	4000	9000	7000	35000
KDF-6000	150	BROWN	6000	12000	4800	10800	8400	42000
KDF-8000	200	BLUE	8000	16000	6400	14400	11200	56000
KDF-10000	250	ORANGE	10000	20000	8000	18000	14000	70000
KDF-12000	300	ORANGE	12000	24000	9600	21600	16800	84000

TYPE : TRIPLEX-KTF (AS PER BL WITH SAFE FACTORS 1:7)

KTF-1500	25	VOILET	1500	3000	1200	2700	2100	10500
KTF-3500	50	GREEN	3500	7000	2800	6300	4900	24500
KTF-5500	75	YELLOW	5500	11000	4400	9900	7700	38500
KTF-7500	100	GREY	7500	15000	6000	13500	10500	52500
KTF-9500	125	RED	9500	19000	7600	17100	13300	66500
KTF-12500	150	BROWN	12500	25000	10000	22500	17500	87500
KTF-17000	200	BLUE	17000	34000	13600	30600	23800	119000
KTF-19000	250	ORANGE	19000	38000	15200	34200	26600	133000
KTF-23000	300	ORANGE	23000	46000	18400	41400	32200	161000

TYPE : QUADRAPLEX-KQF (AS PER MFGR'S STANDARDS)

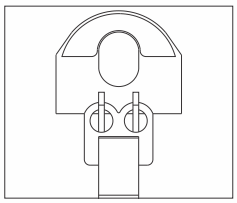
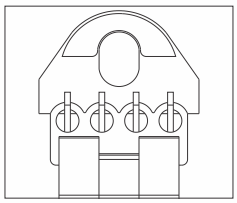
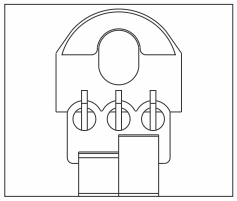
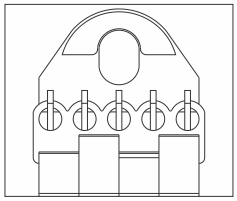
KQF-2500	25	VOILET	2500	5000	2000	4500	3500	17500
KQF-5000	50	GREEN	5000	10000	4000	9000	7000	35000
KQF-7500	75	YELLOW	7500	15000	6000	13500	10500	52500
KQF-10000	100	GREY	10000	20000	8000	18000	14000	70000
KQF-12500	125	RED	12500	25000	10000	22500	17500	87500
KQF-17000	150	BROWN	17000	34000	13600	30600	23800	119000
KQF-22500	200	BLUE	22500	45000	18000	40500	31500	157500
KQF-25000	250	ORANGE	25000	50000	20000	45000	35000	175000
KQF-30000	300	ORANGE	30000	60000	24000	54000	42000	210000

We manufacturer slings upto 50 Tons on request.
Factor of safety for webbing 1:7
The colour combination as shown in the chart is a mere indicator, however the colour may change subject to availability of raw materials

ZEBRA™

B.P.T Plot No. 107, Quay Street, Darukhana, Mumbai - 400 010
Tel: 91-22-2378 8888 • Fax: 91-22-2378 8822 / 2378 8811
Website: www.sealinkers.com • E-mail: sealinkers@sealinkers.com

Lowering Belts


- Manufactured from duplex polyester webbing slings joined together to be used with heavy duty steel terminals
- High load capacity for lowering pipes
- High safety, low elasticity and resistant to ultra-voilet rays
- Simple on-site belt replacement in minutes with advanced terminal design
- Economical in use due to long working life
- Extra heavy duty lowering belt can be supplied on request

FACTOR OF SAFETY FOR WEBBING 1:7 AND FOR STEEL TERMINALS 1:4

SPECIAL PURPOSE SLINGS / LOWERING BELT - SPLB SPECIFICATION

ITEM CODE	NOMINAL PIPE SIZE INCHES	HOLES PER STRIP	WIDTH MM	LENGTH MTR.	HOOKS PER SIDE	S.W.L. FS 5:1 kgs.
SPLB - 12	12	2	300	1.45	2	12000
SPLB - 18	18	4	450	2.10	4	20000
SPLB - 24	24	5	600	2.70	5	25000
SPLB - 30	30	6	750	3.35	6	32000
SPLB - 36	36	7	900	3.80	7	38000
SPLB - 42	42	8	1050	4.21	8	45000

Factor of safety for webbing 1:7 and for steel terminals 1:4

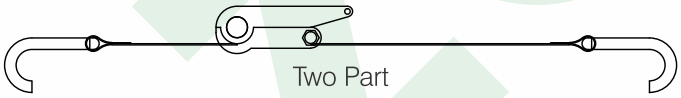
Lashings

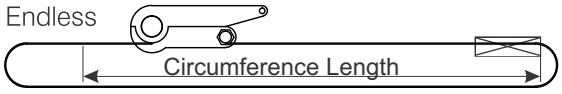
Zebra lashings are modern, light weight and thoroughly reliable method of securing all types of load across an entire spectrum of requirements.

They offer significant advantages over steel banding, rope or chains, having superior performance and properties as detailed below.

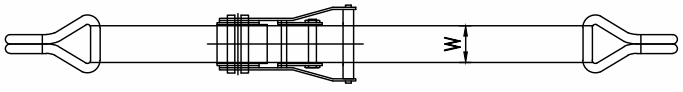
- Do not weaken with age.
- Inherently absorbent of shocks.
- Corrosion free.
- Simpler, more positive inspection - if it looks all right , it is all right.
- Lighter weight means easier working, less risk of injury.
- Lower weight also means lower transport costs.
- Suppleness of polyester accommodates irregularities of the load .Chain may damage the load or grip in the wrong place.
- Less risk of damage to polished, painted or sensitive surfaces.
- Superior level of cargo control through high pre-tensioning.


35 mm Ratchet lashing with hooks at both ends
MBL: 3000 kg

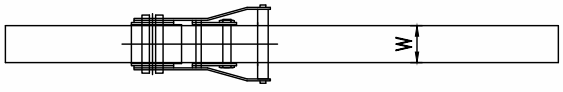




Ratchet Reference	Web Width	Minimum Breaking Strength		Rated Assembly Strength	
	mm	Two Part (kg)	Endless (kg)	Two Part (kg)	Endless (kg)
KRL-25	25	1500	3000	750	1500
KRL-35	35	3000	6000	1500	3000
KRL-50	50	5000	10000	2500	5000
KRL-75	75	8000	16000	4000	8000
Cambuckle Reference	**Web Width**	**Minimum Breaking Strength**		**Rated Assembly Strength**	
	mm	Two Part (kg)	Endless (kg)	Two Part (kg)	Endless (kg)
KCB-25	25	250	500	125	250
KCB-35	35	1000	2000	500	1000
KCB-50	35	1500	3000	750	1500



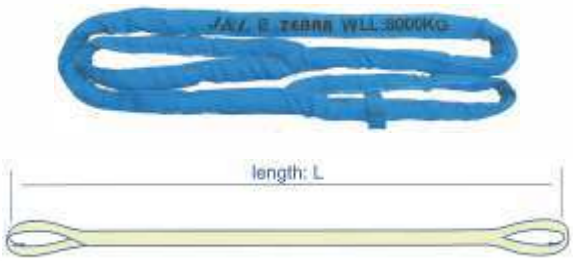
Ratchet Lashing with Hook at both side



Endless Ratchet Lashing System

ZEBRA™
B.P.T Plot No. 107, Quay Street, Darukhana, Mumbai - 400 010
Tel: 91-22-2378 8888 • Fax: 91-22-2378 8822 / 2378 8811
Website: www.sealinkers.com • E-mail: sealinkers@sealinkers.com

Eye & Eye Polyester Sling

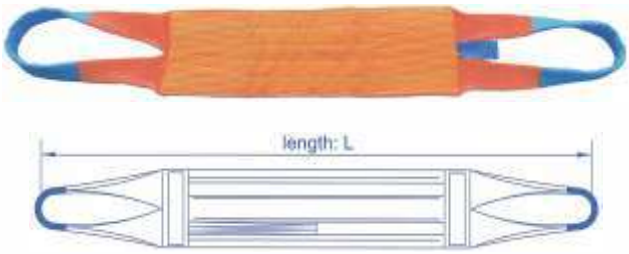


Art. No.	kg	mm		m		kg/m
	Working Load Limit	Approx Thickness	Approx Width	L		Weight (6:1)
				Minimum Length	Maximum Length	
R03-01	1000	11	50	1.0	80	0.29
R03-02	2000	12	60	1.5	80	0.41
R03-03	3000	14	70	1.5	80	0.63
R03-04	4000	15	80	1.5	80	0.80
R03-05	5000	23	90	1.5	80	0.96
R03-06	6000	25	90	2.0	80	1.12
R03-08	8000	26	100	3.0	80	1.45
R03-10	10000	27	110	3.0	80	1.90
R03-12	12000	28	125	3.0	80	2.36
R03-15	15000	29	150	3.0	80	2.86
R03-20	20000	31	180	3.0	80	4.50
R03-25	25000	34	200	3.0	80	5.70
R03-30	30000	36	220	4.0	80	7.90
R03-40	40000	40	250	4.0	80	10.6
R03-50	50000	46	300	4.0	80	12.5

Note: 6:1 & 7:1 safety factor is available, can provide fluorescence and light–fest style according to the customer.

Special Sling For Petroleum Pipeline

- Mainly used for pipes hoisting.
- Product raw material is PES.
- Lifting belt has a large width, easy to master balance in operations.
- Pipe surface roughness, can be special treat with the lifting belt, coated with a layer of rubber, with non-slip, heat resistant, anti-corrosion.
- Can be used with beam and metal part, construction safety, convenience, long life and so on.



kg	mm			m		kg/m
Working Load Limit	Approx Thickness	Approx Width 6:1	Eye Length	L		Weight (6:1)
				Minimum Length	Maximum Length	
16000	14	250	500	2.3	100	3.15
20000	14	300	550	2.4	100	3.92
24000	14	400	600	2.5	100	4.78
32000	14	500	650	2.6	100	6.47
40000	14	600	700	2.8	100	8.16
48000	14	600	600	3.0	100	9.71

Note: 5:1 & 6:1 safety factor is available. Working load limit is the use of U-lifting method.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

INTRODUCING



DYNEEMA
Superlift HDRS
Heavy Duty Round Sling

Superlift HDRS slings do not get fatigued even after prolonged use of 75,000 lift as compare to 20,000 lifts for steel/polyester wire rope slings.

- World's strongest fiber
- 8-10 times stronger than steel
- Elongation at WLL (in %): 0.5%
- Usable at temperatures: -58^{0} F to +140 ^{0}F
- Moisture retention: 0%
- Low density - Floats
- Light weight
- 2.5 Times lighter than polyester endless round slings
- Superior strength
- UHMP (Ultra high Modulus Polythene)
- Cut resistant but not cut proof
- Sleeves have Red indicator yarns



SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

1 SUPERIOR CYCLE LIFE

SUPERLIFTHDRS slings do not get fatigued after prolonged & excessive use like steel slings, the characteristics of the fiber strengthen the more the sling is used

Example

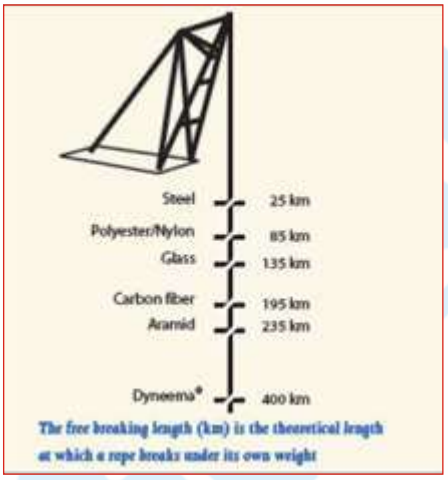
- Slings were loaded and unloaded from WLL to 2 x 75,000 cycles, followed by break tested for residual strength
- Dry test (no cooling)
  Length = 3.5 meters
  WLL = 20 metric tons
  Design factor = 7:1 (MBS)
- Result = Increase of strength, even after 75,000 cycles

2 GENERAL PROPERTIES OF DYNEEMA® FIBER

- World's strongest fiber
- 8 to10 times stronger than steel
- Elongation at WLL (in %): 0.5%
- Usable at temperatures: - 58 ° F < > + 140 ° F
- Moisture retention: 0%
- Low density - floats
- Light weight

3 SUPERIOR STRENGTH

- DSM Dyneema is the inventor and manufacturer of DYNEEMA® the world's strongest fiber that offers maximum strength combined with minimum weight
- DYNEEMA® is up to 15 times stronger than quality steel and up to 40% stronger than aramid fibers, pound for pound
- DYNEEMA® is also used in bullet resistant armor and clothing for police and military personnel

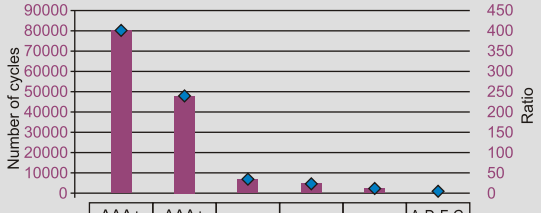


4 COST REDUCTION



- Fewer people to rig.
- Less hours spend on rigging.
- Damage to the load (valueable or vulnerable will be avoided)
- No additional supporting equipment like forklifts or even small cranes.
- Smaller sling inventory - low weight - 2 slings can cover the entire lift.

Saw test :Over a tensioned rope, covered with the protection material, a 10mm dia. wire rope is moved back and forth under a 125° angle and at a constant speed. The test runs until complete failure of the tissue or cover (result in number of cycles)



	AAA+ HD	AAA+ LD	C	B	E	A-D-F-G-H
Cycle	80000	48000	6000	4000	1500	200
Ratio	400	240	30	20	7.5	1

Cut test: tn a vertical tensile testing machine a knife is hydraulically pushed through a tensioned rope that is covered with the respective protection material. The test continues until the knife is pushed completely through the rope and cover. After each test the knife is prepared to the same level of sharpness (result in force in N necessary for cutting)



	AAA+ HD A	AAA+ LD	C	E-F	B-D	G-H
Force	12000	6000	6000	5000	3500	1500
Ratio	8	4	4	3.3	2.3	1

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

5 ERGONOMIC

SUPERLIFT HDRS slingsare approximately 2.5 times lighter than polyester endless round slings and 8 to 10 times lighter than steel slings with the same capacity



6 SUPERIOR RESISTANCE TO HARSH ENVIRONMENTS

SUPERLIFT HDRS slings are resistant to most chemicals including, but not limited to, hydraulic fluids, lubricants, coolant, acids and alkalis

SUPERLIFT HDRS slings are resistant to water, moisture, UV light and micro-organisms

7 CLEAR INSPECTION & DISCARD CRITERIA

SUPERLIFT HDRS slings have red warning yarns inside the sling cover to assist in the inspection process. Simple manufacturer's discard criteria will assist in knowing when your sling is safe to use

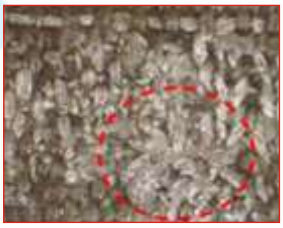
- Missing or illegible work load limit tag
- Brittle or stiff areas that may indicate chemical damage, acid or alkali burns
- Melting, charring or weld spatter of any part of the sling
- Holes, tears, cuts, embedded particles, excessive abrasive wear, or snags that expose the load carrying yarns
- Broken, cut or damaged load carrying yarns
- Broken or worn stitching in the cover
- Fitting distortion: elongated, damaged, corroded or chemical degradation of fittings or component hardware
- Slings that are knotted
- Incisions in the outer cover of one inch or larger
- Cover separation at the slings splice/tag resulting from shock loading or overload
- Exposed red indicator yarns
- For hooks, removal criteria as stated in ASME B30.10
- For applicable fittings, removal criteria as stated in ASME B30.26
- Other damage which causes any doubt to the slings integrity

8 REPAIRABLE

The outer covers of SUPERLIFT HDRS slings can be easily repaired and put back into service



Undamaged area



Repaired Area



Red indicator yarns are visible

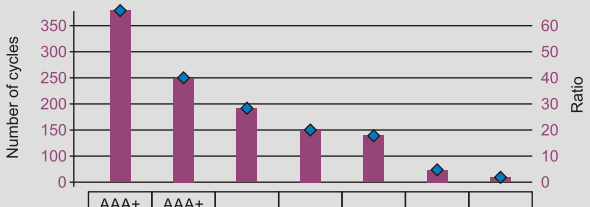


Incisions of 1 inch or greater are visible



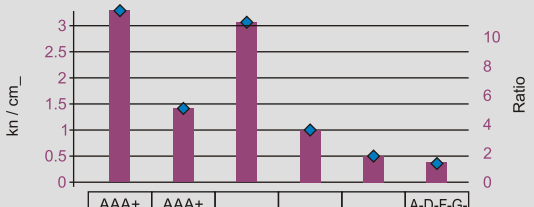
Core Yarns are visible

Abrasion test: A rope, covered with the respective protection material, is rotated under tension and at a constant rotation speed, over a spoked abrasion wheel. The test continues until complete failure of the protection material, or cover. (The result is recorded by the number of cycles achieved).



	AAA+ HD	AAA+ LD	A	B	C	E	D-H
Cycles	325	200	135	100	80	20	5
Ratio	65	40	27	20	16	4	1

Indicative Tear Strength Performance: The breaking strength of the protection cover is a very important issue. Most of the existing products are kown to fail on this requirement. In the graph provided, the tear strength is calculated for all tested protection products (method: specific strength of the material x efficiency factor tissue = kN/cm2)



	AAA+ HD	AAA+ LD	A	B	F	A-D-F-G-H
kn/cm	2.8	1.22	2.63	0.84	0.41	0.27
Ratio	10.37	4.52	9.74	3.11	1.52	1

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Superlift HDRS
Heavy Duty Round Sling









RESULTS

SUPERLIFT HDRS slings now available for all lifting, towing, or mooring applications where enhanced resistance to all forms of abrasion is desirable or imperative. The advantages can be summarized as:

- Superior resistance to every form of abrasion.
- Excellent resistance to sharp edges.
- Outstanding tear resistance when under extreme pressure.
- Exceptional flexibility as expected from a textile product.
- Very significant improvement in the safety of lifting apparatus.
- Total enhancement of longevity of rope and slings.
- SUPERLIFT HDRS slings is able to consistently perform at such high levels that no other protection sleeve is currently capable of achieving.



SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

SEA-LINKERS



Garfil®

◆ *Polypropylene* ◆ *Maxima*
◆ *Nylon* ◆ *Maxiflex*

8 Strand Plaited Ropes



Shipping
Mooring lines Splash target ropes
Anchoring ropes Towing lines
Messenger lines



Rope Articles
Towing stretchers
SPM Hawsers



Oil Exploration
On board oil rigs
Oil Exploration Platform

Mooring Ropes
Safe Anchoring

◆ The Company

- A world leader in the manufacture of Synthetic Ropes, Twines and Nets
- An ISO 9001-2000 certified company
- Exports to more than 55 countries
- Extensive distribution network

◆ The Process

- Uses the most modern "Parapro" process
- Serrated tape extruded from virgin granules
- Twisted in state-of-the-art rope making machines

◆ Product Range

- Circumference 4" to 15" & standard coil length of 165 & 220 mtr.

◆ Product Attributes

Garfil® *Polypropylene Rope :*
- High breaking strength
- Good abrasion resistance
- Inert to chemicals
- Better runnage & low elongation

Garfil® *Maxima (Blended Polymers) Rope :*
- Approx 40% higher breaking strength than PP
- Excellent abrasion resistance
- Value for money through down sizing

Garfil® *Nylon Rope :*
- Excellent breaking strength & higher elongation
- Good shock load absorption
- Strong & Durable

Garfil® *MaxiFlex (Composite Fibre) Rope :*
- Higher strength compared to Nylon
- Flexible & low elongation

◆ Product Assurance

- GWRL Test certificate with each lot. Ropes can be OCIMF certified based on customer requirement

GARWARE
TECHNICAL FIBRES

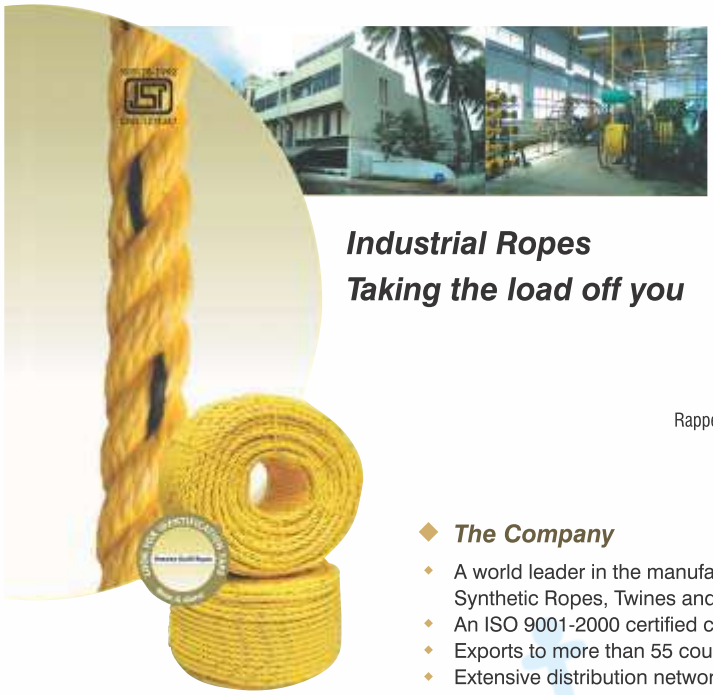
Specification

		Garfil® Maxima		Garfil® Maxiflex		Garfil® Maxigold		Garfil® Nylon Rope	
Circ. in Inches	Dia. in mm	Wt./Coil of 220 mtr. Kgs.	Breaking Strength Kgf.	Wt./Coil of 220 mtr. Kgs.	Breaking Strength Kgf.	Wt./Coil of 200 mtr. Kgs.	Breaking Strength Kgf.	Wt./Coil of 220 mtr. Kgs.	Breaking Strength Kgf.
4.0	32	101	18500	124	20000	-	-	139	20000
4.5	36	129	23250	157	24900	-	-	176	24900
5.0	40	158	28000	195	30000	216	39900	218	30000
5.5	44	194	34000	238	35800	262	48260	264	35800
6.0	48	229	41193	282	46290	310	57700	312	42000
6.5	52	268	47500	330	54300	366	68400	365	48800
7.0	56	312	55610	378	62800	422	78800	425	56000
7.5	60	359	64000	438	72000	486	89300	486	63800
8.0	64	407	72080	495	82600	552	100000	554	72000
9.0	72	515	90620	627	102000	700	128000	702	89900
10.0	80	638	111220	775	125500	882	156250	867	109800
11.0	88	772	133877	1100	156000	1045	188000	1049	130800
12.0	96	906	160650	1315	185000	1243	222000	1250	153900
13.0	104	1075	187420	1540	216000	1459	262000	1425	182140
14.0	112	1250	216260	1790	250000	1692	300000	1698	210200
15.0	120	1435	247150	2050	286000	1943	342000	1951	240200

1. Weight are subject to a +/- 5% variation.
2. All values listed are as per results confirmed in accordance to test procedures IS 7071.
3. All specifications pertain to regular laid ropes and are applicable to new ropes
4. The products indicated in this brochure do not constitute the whole range of GWRL products.
5. Please contact us if other sizes and characteristics are required.
6. GWRL reserves the right to review its product specifications.
7. Safe working loads is 1/16th of the breaking strength.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

SEA-LINKERS



Garfil®

Polypropylene & Nylon

3 Strand Industrial Ropes

Industrial Ropes
Taking the load off you



Defence
Rappelling, Slithering, & Jackstay ropes.
Arrestor Barriers &Helideck nets.
Tentage & Reinforcement ropes
Ropeways & Rope Bridges



Material Handling
Tower Erection & Cable Pulling
Slings for Metal tube handling
Pantoon Bridges
Sugarcane Trolley Pulling



Safety
Safety Nets Jumping Ropes
Helipad Nets Gangway Nets
Escape rope ladders
Scramble Nets Bulk Cargo Nets

GARWARE

◆ The Company

- A world leader in the manufacture of Synthetic Ropes, Twines and Nets
- An ISO 9001-2000 certified company
- Exports to more than 55 countries
- Extensive distribution network

◆ The Process

- Uses the most modern "Parapro" process
- Serrated tape extruded from virgin granules
- Twisted in state-of-the art rope making machines

◆ Product Range

- Diameter 4mm to 48mm & standard coil length of 220 mtr
- 4 twist ropes in diameter 18mm & above

◆ Product Attributes

Polypropylene:

- High breaking strength & shock absorption capacity
- Good abrasion resistance & easy knotting possible
- Inert to chemicals

Nylon:

- Excellent breaking strength & high elongation
- Good shock absorption
- Strong & Durable

◆ Product Assurance

- Every coil carries a test certificate for : Material, Breaking strength & Safe working load

Specifications :

Dia. In mm	Polypropylene Parapro ropes			Nylon Multi-filament ropes		
	Breaking Strength in Kgf	Runnage in Metre per Kg.	Wt. Per coil of 220 mtr in Kgs	Breaking Strength in Kgf	Runnage in Metre per Kg.	Wt. Per coil of 220 mtr in Kgs
4	214	135.00	1.63	320	95.24	2.30
6	602	60.00	3.67	750	44.40	4.95
8	1060	33.30	6.60	1345	25.00	8.80
10	1560	22.00	10.00	2088	16.20	13.60
12	2210	15.20	14.50	2995	11.20	19.60
14	3050	11.00	20.00	4095	8.20	26.80
16	3770	8.60	25.50	5300	6.30	35.00
18	4810	6.80	32.50	6695	5.00	44.00
20	5800	5.50	40.00	8300	4.10	54.00
22	6960	4.50	48.50	10000	3.30	66.00
24	8130	3.90	57.00	12000	2.80	78.00
26	9410	3.20	67.60	13950	2.40	92.40
28	10700	2.80	78.00	15800	2.10	107.00
30	12220	2.50	89.00	17755	1.80	122.10
32	13500	2.20	101.00	20000	1.60	139.00
36	16930	1.70	129.00	24900	1.25	176.00
40	20510	1.40	158.00	30000	1.00	218.00
44	24640	1.13	194.00	35800	0.80	264.00
48	28610	0.96	229.00	42000	0.70	312.00

1. Weight tolerance as per IS.
2. All values listed are as per results confirmed in accordance to test procedures IS 7071.
3. All specifications pertain to regular laid ropes and are applicable to new ropes.
4. The products indicated in this brochure do not constitute the whole range of GWRL products.
5. Please contact us if other sizes and characteristics are required.
6. GWRL reserves the right to review its product specifications.
7. Safe working load is 1/6 th of the breaking strength.

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

GARWARE PLATEENA

GARWARE TECHNICAL FIBRES



Plateena

Manufactured from Dyneema® - the world's strongest fibre™ yarn (SK-75) with a very high breaking strength to weight ratio. A heavy duty rope, it is the strongest in the category and is also available in a jacketed variety.

12 Carrier Rope			
Dia. (inch)	Dia. (mm)	Wt. Kg/ 100 mtrs	BS (Kgf)
0.50	4	1.7	2600
0.63	5	2.4	3000
0.75	6	2.7	4400
0.88	7	3.3	5000
1.00	8	3.9	6500
1.25	10	5.9	10000
1.50	12	9.3	14000
1.75	14	11.3	18500
2.00	16	15.0	21500
2.25	18	21.2	29500
2.50	20	23.1	38000
2.75	22	28.8	46000
3.00	24	34.5	54000
3.25	26	39.7	60000

8 Strand Rope			
Dia. (inch)	Dia. (mm)	Wt. Kg/ 100 mtrs	BS (Kgf)
3	24	35	54000
31/2	28	42	65000
4	32	55	82500
41/2	36	70	103000
5	40	86	125200
51/2	44	104	149000
6	48	124	174500
61/2	52	145	202000
7	56	169	230000
71/2	60	194	259500
8	64	220	295400
9	72	279	368300
10	80	344	452400
11	88	417	541500
12	96	496	638400

Dyneema® is a registered trademark of Royal DSM N.V



Features

- High strength
- Lower weight
- High abrasion resistance
- Low elongation at break - comparable to steel wire rope
- Excellent chemical and UV resistance
- Various chaff protections provided as per applications

Benefits

- Higher strength to weight ratio
- Safer & easier to handle than steel wire ropes
- Greater durability than other synthetic fibre
- Low snap back
- Weight of Plateena rope is 1/7th to 1/8th of steel wire rope for same strength and diameter
- Very high TCLL value
- Does not damage ship equipment

Application

- Mooring
- Towing
- Fishing - purse lines, lead lines
- Trawls - head ropes
- Sailing
- Kite surfing
- Pulling transmission line
- Slings for industrial application

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Tufropes - Designed to Outperform

Tufropes was established in 1993 with the aim to manufacture high quality synthetic ropes. The company has grown steadily during the last 15 years. Today we are proud to be among India's top exporters of synthetic ropes, nets & rope articles. To continue to service the growing requirements of our customers, we have recently expanded and have set up a large new modern manufacturing facility.

COMPARISION TABLE FOR 8 - STRAND PLAITED ROPES

Cir in Inches	Dia in mm	PP SUPERTUF		PP TUF FLEX		NYLO TUF	
		Wt/Coil of 220 mtr. in	Breaking Strength (kgf)	Wt/Coil of 220 mtr. in	Breaking Strength (kgf)	Wt/Coil of 220 mtr. in	Breaking Strength (kgf)
3.0	24	57	9900	70	12000	78	2000
3 1/2	28	78	13200	96	15800	107	15800
4.0	32	101	16800	124	20000	139	20000
4 1/2	36	129	20600	157	24900	176	24900
5.0	40	158	25700	195	30000	218	30000
5 1/2	44	194	31800	238	35800	264	35800
6.0	48	229	36600	282	46290	312	42000
6 1/2	52	268	42100	330	54300	365	48800
7.0	56	312	52000	378	62800	425	56000
7 1/2.	60	359	59500	438	72000	486	63800
8.0	64	407	67550	495	82600	554	72000
9.0	72	515	84500	627	102000	702	89900
10.0	80	638	104000	775	125500	867	109800
11.0	88	772	125000	1100	156000	1049	130800
12.0	96	916	148000	1315	185000	1250	153900
13.0	104	1075	173500	1540	216000	1465	182140
14.0	112	1250	201000	1790	250000	1698	210200
15.0	120	1435	230000	2050	286000	1951	240200
16.0	128	1628	258852	2332	325400	2222	272140
17.0	136	1848	291060	2640	365000	2508	306220
18.0	144	2068	321574	2960	405000	2816	344224
20.0	160	2534	390297	3650	500000	3476	422440



TUF FILM - PP INDUSTRIAL ROPES (IS-5157: 1992)

Dia in mm	Dia in Inches	CIRCM. Inches	Wt per 220 mtr. in Kgs	Breaking Strength in kgf	Runnage in Mtrs./kg
4	5/32"	1/2"	1.63	214	135.00
6	1/4"	3/4"	3.67	602	60.00
8	5/16"	1"	6.60	1060	33.30
10	3/8"	1.1/4"	10.00	1560	22.00
12	1/2"	1.1/2"	14.50	2210	15.20
14	9/16"	1.3/4"	20.00	3050	11.00
16	5/8"	2"	25.50	3770	8.60
18	3/4"	2.1/4"	32.50	4810	6.80
20	13/16"	2.1/2"	40.00	5800	5.50
22	7/8"	2.3/4"	48.50	6960	4.50
24	1"	3"	57.00	8130	3.90
28	1.1/8"	3.1/2"	78.00	10700	2.80
30	1.1/4"	3.3/4"	89.00	12220	2.40
32	1.5/16"	4"	101.00	13500	2.20
36	1.7/16"	4.1/2"	129.00	16930	1.70
40	1.5/8"	5"	158.00	20500	1.40
44	1.3/4"	5.1/2"	194.00	24640	1.13
48	2"	6"	229.00	28610	0.96
52	2.1/8"	6.1/2"	268.00	33110	0.82
56	2.1/4"	7"	312.00	37850	0.70
60	2.1/2"	7.1/2"	359.00	43280	0.61



SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

X2

The persistent painstaking efforts by a team of highly skilled and dedicated R and D professionals have resulted in the premium range of ropes which not only guarantees customer satisfaction but also creates a benchmark in rope segment.

Made from blended of polymers and processing techniques, the X2 ropes are designed with special care which delivers unmatched performance beyond strength.

X2 Rope Property	Benefit	Result
Light Weight	Higher strength to weight ratio Less tug joining time	Easier to handle Possibility of downsizing Time saving Happier Crew
Higher TCLL value	Higher Rope Life Excellent shock absorption capacity, Low snap-back	Better safety
Low Energy Absorption	Low snap-back	Safer Ropes

Other X2 Rope Features:

- Torque free and balanced construction
- Better abrasion Resistance
- Excellent shape retention
- Chemically inert

Application:

- Mooring lines
- Towing lines
- On board oil rings
- Oil exploration
- SPM hawsers

X2 Mooring Ropes

The new technologically superior X2 mooring ropes has significantly lower weight and significantly lower diameter than the conventional synthetic ropes, enables not only downsizing of the ropes but also easier handling during the extreme environmental conditions making it ideal for mooring operations.

X2 Ultra Ropes

X2 ultra is a composite fiber construction made from high tenacity polyester and polypropylene yarn in a specified composition.

Application: Mooring, Towing & SPM Hawsers

X2 Aqua Mooring Ropes

X2-Aqua Mooring Ropes provide easy solutions like fast installations, better steadiness and reduction of drag on the system.

Application: Mooring and Towing

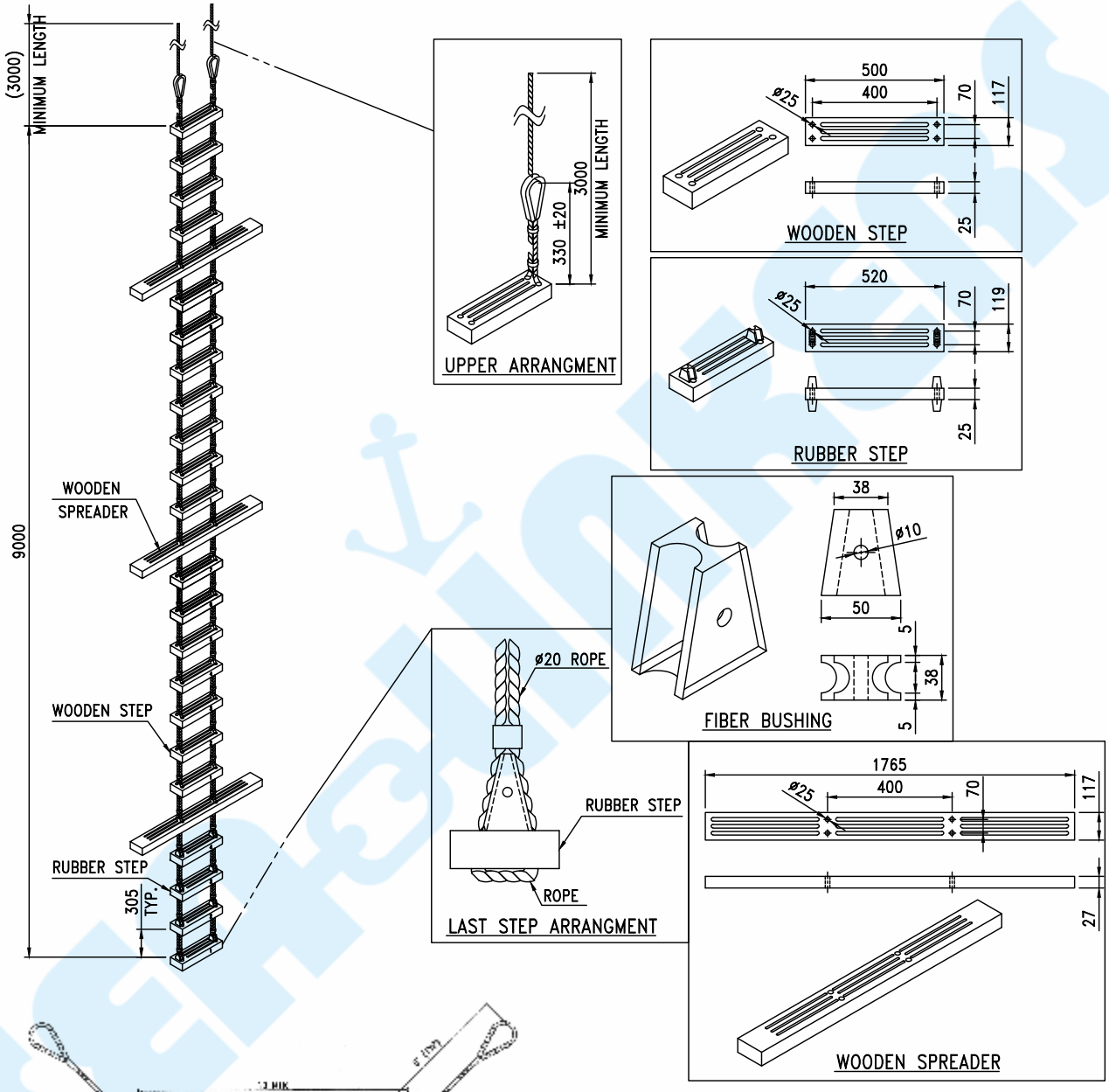


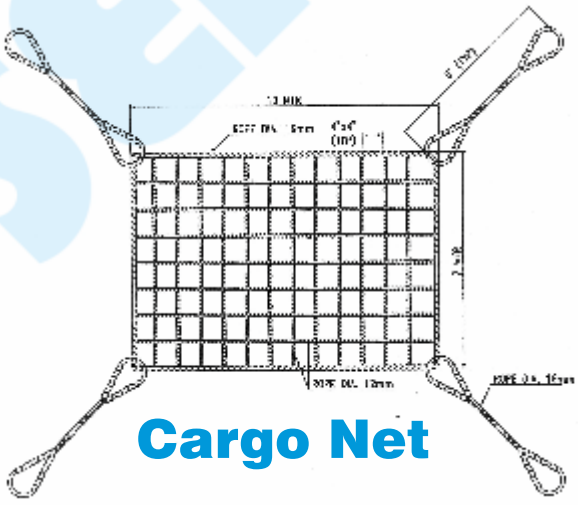


	X2 Mooring Ropes		X2 Ultra Ropes		X2 Aqua Mooring Ropes	
CIRC (Inch)	Nominal Dia. (mm)	Weight (kg/220 mtr)	B. Str. (Kgf)	Weight (kg/220 mtr)	B. Str. (Kgf)	Weight (kg/220 mtr)	B. Str. (Kgf)
3.5	28	78	16700	96	19900	78	18670
4	32	102	21800	124	25000		
4.5	36	129	27150	157	31000	129	29920
5	40	159	32950	195	36500		
5.5	44	193	39450	238	46500	194	43470
6	48	229	46200	282	58500		
6.5	52	269	53350	330	68000	268	58800
7	56	312	60750	378	78000		
7.5	60	358	69350	438	89000	359	76430
8	64	407	79000	495	103000		
8.5	68	460	89200	558	114500	460	97480
9	72	515	98800	627	126000		
9.5	76	574	110100	699	138500	574	121180
10	80	636	121300	814	157000		
11	88	770	145700	1100	193000	772	160600
12	96	915	173100	1315	233000		
13	104	1076	202900	1540	269000	1075	223630
14	112	1247	234500	1790	300000		
15	120	1432	268300	2050	343200	1435	295670

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

Wooden Pilot Ladder





Cargo Net

SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com

GARSAFE SAFETY NETS

Garsafe safety nets are ideal for all construction sites where strong & reliable nets are required.

UNIQUE FEATURES:

1) Resistant to degration due to UV rays
2) High strength and durability for ensuring uniform mesh size
3) Machine- made nets for ensuring uniform mesh size
4) Heat treatment provide better knot stability and prevent skewing
5) Border ropes and hands made of high strength
6) Polylefin ropes for tying at regular intervals.

BRAIDED NETS

1) Braided twines unravel less than twisted nets minimizing the risk
2) Higher strength to weight ratio
3) Better abrasion

SPECIFICATION & SIZES

Available in 10mt x 5mt, 10mt x 3mt & specific size

2.5mm Braided Twine, 25mm sq.Mesh

5.00mm Braided Twine, 70mm sq. Mesh with containment Net

Above two constructions meet Dynamic/ Drop test requirements of EN 1263-1: 2002



SeaLinkers Private Limited
sealinkers@sealinkers.com
www.sealinkers.com



TWISTED NETS

1) Made out of ISI mark polypropylene ropes with parapro process

2) Serrated tapes extruded and twisted in state of the art rope making machines.

SPECIFICATION & SIZES

Available in 10mt x 5mt, 10mt x 3mt & specific size

4.00 mm Twisted rope, 100mm sq. Mesh with containment net

Established in 1976, Garware- Wall Ropes Ltd is today one of the world's largest manufacturer of Synthetic Ropes, Twines, Nets and Cordages and is an ISO 9001:2000 accredited org anization.

Currently.., 50% of our produce is exported across the globe including the most advanced countries.

in India, we have a sound organizational infrastructure of Regional and Sales Offices, Depots coupled with wide Dealer Network spread across the country to cater to the market require requirements.

We manufacture Safety Nets to suits your requirement.

Garware-Wall Ropes Ltd is the only manufacturer with most advanced and integrated technology for making Braided Arrestor Nets right from extrusion till the finished product.