PT RIGSPEK® PERKASA
LIFTING SYSTEMS SOLUTIONS
CARL STAHL HEBETECHNIK GROUPS

TRADING & STOCKIST
INSPECTION & TESTING
TRAINING & CONSULTANCY
EQUIPMENT RENTAL

WWW.RIGSPEKPERKASA.COM

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SALES OFFICE

COMPANY PROFILE

ABOUT US

PT Rigspek Perkasa was established in January 2007 and is part of the Carl Stahl Hebetechnik GmbH which consists of a global network of companies with over 125 years of experience and a management team with an average of 30 years' experience in lifting operations.

We specialize in helping you to maintain a safe, legal and cost effective operational environment through the provision of testing, inspection, certification, training, consultancy and sales distribution of essential lifting equipment products.

The company aims to support businesses throughout South East Asia and local services to those locally based companies who previously had to rely on an international support. Once way from their base, the same companies can rely on continued services 24/7.

Facilities in Batam, consist of 15,000 square meters of industrial real-estate including 4,000 square meters of warehousing, offices, training, inspection and load testing facilities.

The Rigging Shop have a 1000MT and 600MT Swaging Machine for mechanical splicing which can cover up to 2.5" Diameter of Wire Rope. Every product that we manufacture based on the latest international standards and is tested by using Test Bed Machine with capacity up to 1000MT.

Marunda rigging shop can cater the market outside of Batam facilities. We have a big inventory for wire ropes, PP Ropes, Rigging Hardware and Marine Consumables available .

Marunda rigging shop are equipped with 5 units Warehouses with total area 2000 sqm, 1000MT Talurit Swaging Machine from Sweden which can cover up to Dia 2.5" (64mm) of Wire Rope and 7 MT Coiling and Reeling Machine.

PRODUCTION AND TEST FACILITY

ACREDITATION

ISO 9001:2015 by TUV Rheinland

Certificate

TÜVRheinland® Authorized Copy

Standard: SNI ISO 9001:2015

Certificate Registr. No.: 824 100 11002

Certificate Holder:

RIGSPEK PERKASA

PT Rigspek Perkasa
Komplek kawasan Industri Sekupang Kav. 13,
Batam 29428, Indonesia

Scope: Testing, Inspection, Recertification, Training Support and Consultancy for Lifting and Material Handling Equipments

Proof has been furnished by means of an audit that the requirements of SNI ISO 9001:2015 are met.

Validity: The certificate is valid from 2020-04-29 until 2023-04-28.
First certification 2011

2021-01-14

PT TUV Rheinland Indonesia
Menara Karya 10th Fl. Jl. H. R. Rasuna Said
Block X-5 Kav. 1-2, Jakarta

www.tuv.com

IAF

KAN Komite Akreditasi Nasional LSSM 015 IDN

TÜVRheinland® Precisely Right.

MEMBERSHIP

Lifting Equipment Engineers Association

Full Membership and Accredited Training Company

LEEA

Lifting Equipment Engineers Association

Certificate of Membership 2022

We hereby certify that

PT Rigspek Perkasa Indonesia

having been audited in accordance with the Association's technical audit procedure specified in document reference LEEA 042 has been admitted as a

Full Member

for the location(s) and scope of work detailed in the schedule bearing the same number as this certificate

Certificate Number 1552

For and on behalf of LEEA

Chair

Chief Executive

Date of Certificate – 1st January 2022

Date of expiry of Certificate – 31st December 2022

This certificate is the property of the Association and shall be returned on demand. It is not issued under, in pursuance or by virtue of any statutory or Government sanction but by the authority of the Association only. It is valid only in the country listed above.

STEEL WIRE ROPE

Hi-Tech Wire Ropes I Conventional Ropes I Slings I Fittings

STEEL WIRE ROPE

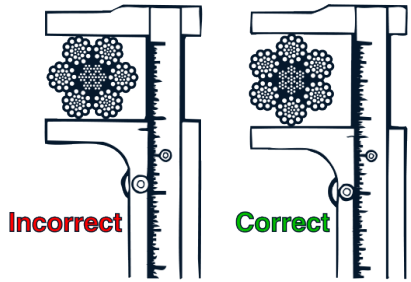
GENERAL INFORMATION ON WIRE ROPE for SELECTION & USAGE

1. DIAMETER

The diameter of Rope is the diameter of its circumference, that will enclose all the strands . This diameter is given in millimeters.

The actual diameter of a rope is measured by complying an established method, its value shall be equal to the value of the nominal diameter (the dimension by which a rope is identified) except for certain permitted size allowed. The correct methods of measuring wire rope is to measure from the top of one strand to the top of the strand directly opposite it. The wrong way is to measure across two strands side by side

Measurements are taken at two points at least one meter apart and two diameters are measured at 90◦ one from the other. Usually the practical diameter is taken from a sample of straight rope not subjected to traction. Standard rope is allowed to measure up to 5% tolerance over their nominal diameter. The correct diameter is the greatest diameter of the rope or strand.



2. WIRE ROPE CONSTRUCTION

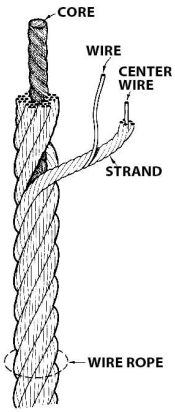
Wire rope consists of a group of strands laid helically around a core. Many individual steel wires are helically-laid together to form a wire rope. A strand is when two or more wires are wound concentrically in a helix. These strands are typically wound around a center wire and then around the core. The lay of the strand is the direction that the wires orbit the core.

Most people do not think of wire rope as a machine, but it is. It is a machine composed of precise, moving parts, all designed to bear a very definite relation to one another. A six strand rope consisting of 36 wires per stand with an independent wire rope core contains a total of 265 individual wires. All of these must be able to bend and move with respect to one another if the rope is to have the flexibility necessary for successful operation.

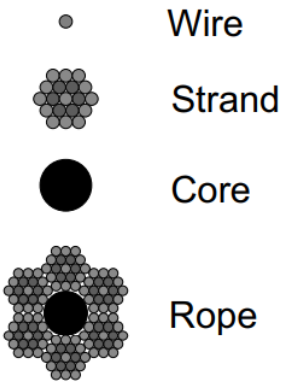
STEEL WIRE ROPE

GENERAL INFORMATION ON WIRE ROPE for SELECTION & USAGE

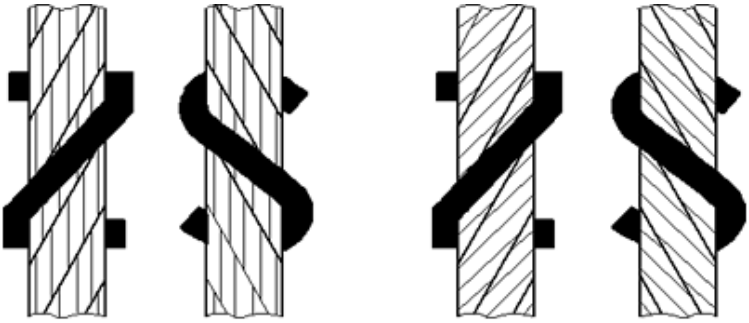
Wire Rope Construction



Individuals Elements of Wire Rope



3. WIRE ROPE LAY



Right Hand Regular (Ordinary) Lay RHRL/RHOL

Left Hand Regular (Ordinary) Lay RHRL/RHOL

Right Hand Lang's Lay RHLL

Left Hand Lang's Lay RHLL

STEEL WIRE ROPE

GENERAL INFORMATION ON WIRE ROPE for SELECTION & USAGE

The lay of a wire rope is the description of the way the wires and strands are placed during manufacture. Right and Left lay refers to the direction in which the strands of the rope are wound around the core. Regular and Langs lay refers to the way the wires in the strand are wound in relation to the strands.

Rope Lay	Description	Characteristic
RIGHT HAND LAY	strands rotate around the rope in a clockwise direction (as the threads do in a right hand bolt)	The most common lay
LEFT HAND LAY	When the strands rotate in a counterclockwise direction (as the threads do in a left hand bolt)	Used in a few special applications – cable tool drilling line
REGULAR or ORDINARY LAY	refers to the way the wires are placed in each strand. Regular or Ordinary lay means that the wires in the strand are laid in an opposite direction to that of the strand. The crowns of the wires appear to be parallel to the axis of the rope. This is the most common lay.	less likely to kink and untwist, easier to handle, more crush resistant than Langs lay. Relatively poor wearing qualities due to the point contact on the crown wires in the strand.
LANGS LAY	Langs lay means that the wires in the strand are laid in the same direction as the strand. The crowns of the wires appear to be at an angle to the axis of the rope.	Increased resistance to abrasion due to the surface pressure being spread over a longer length of wire, greater flexibility and fatigue resistance, has a tendency to kink and untwist and so recommended only for use where the rope and load are secured against rotation.

STEEL WIRE ROPE

GENERAL INFORMATION ON WIRE ROPE for SELECTION & USAGE

4. CORES OF WIRE ROPES

The purpose of the core is to provide support and maintain the position of the outer strands during operation. The core provides an elastic bed to enable movement or relative displacement and allow deformation of the wire strands when the rope is flexed round a sheave. A core of incorrect size or inferior material will cause a rope not to function properly and will shorten its life.

FC	Fibre core around which wire strands are laid. FC ropes provide excellent flexibility. Additionally, the fibre core is impregnated with lubricant during manufacture thus providing internal lubrication to reduce internal corrosion and wear between wires.
IWRC	Independent wire rope core around which wire strands are laid. IWRC ropes have increased strength and provide good resistance to crushing, distortion and heat. The steel core also provides better support for the outer strands thus ensuring
WSC	Wire strand core around which wire strands are laid. Used in ropes below 13mm dia. Has the same benefits as IWRC.

5. LUBRICATION

Wire ropes are lubricate as a protection against oxidization and reduce friction between wires and strands. Fiber cores are impregnated for preservation purposes. During the stranding and roping operations, all wires forming the strand and all strands forming the rope are lubricated. The type of lubrication varies according to the application for the rope and the type of plant for which it is intended. During the working life of the rope, lubrication should be carried out periodically with good quality products compatible with those used during manufacture and which we shall be pleased to indicate upon request.

Lubricants used during manufacture shall be free from solvents, moisture, aromatic compounds, alkaline soaps and acidity both organic and inorganic. For protection of wire ropes against corrosion and frictional wear, elephant Wire Ropes have various kinds of lubrications as per below table.

STEEL WIRE ROPE

GENERAL INFORMATION ON WIRE ROPE for SELECTION & USAGE

LUBRICATION TABLE

Type of Lubrication	Lubrication Method		Suitable on wire rope	Appearance (Type of Grease)	Note
Dry	Closing	No Lubrication	Galv. A/C Brake Strand Galv. W/R	Transparent (Dry)	A rust inhibiting oil used to prevent corrosion during transit and storage. Non-tacky to hand touch
	Stranding	Min. possible application \Very tight wipe as possible			
	Core	Little haevier than on strand. Loose wipe			
A -1	Closing	No Lubrication	Galv. Strand Galv. W/R	Yellowish-Brown (Petro-Chem Grase)	For general application of galvanized Wire Rope
	Stranding	Min. possible application tight wipe as possible			
	Core	Little haevier than on strand			
A - 2	Closing	No Lubrication	Galv Strand Galv W/R Stainless A/C	Yellowish-Brown (Petro-Chem Grase)	For general application of galvanized Wire Rope. Slightly oily to the touch
	Stranding	Light application by dropping method. Internal lubrication is accomplished. Loose wipe			
	Core	Heavier than on Strand No wipe			
A - 3	Closing	No Lubrication	Galv./Ungalv. Wire Rope	Yellowish-Brown (Petro-Chem Grase)	For general application of Un-galvanized Wire Rope. Lightly tacky to hand touch.
	Stranding	Applied during stranding by dropping method and the strand is lubricate again by running it through a bath of lubricant			
	Core	Applied during stranding by dropping method and the strand is lubricate again by running it through a bath of lubricant			
A - 4	Closing	Applied during closing by droping method	Galv./Ungalv. Wire Rope	Yellowish-Brown (Petro-Chem Grase)	Wire rope valley is filled with lubrication. For special usage of wire rope against corrosion
	Stranding	Applied during stranding by dropping method and the strand is lubricate again by running it through a bath of lubricant			
	Core	Heavy application			
B	Closing	No Lubrication	Galv./Ungalv. Wire Rope	Black (Asphaltum grease)	For special usage and long term storage where maximum protection against corrosion
	Stranding	Light application by dropping method. Internal lubrication is accomplished. Loose wipe			
	Core	Heavier than on Strand. Loose wipe			
C	Closing	No Lubrication	Ungalv. Wire Rope	Black (Asphaltum grease)	Lubrication sets up to a medium hard consistency. Ideal for oilfield, construction equipment and logging use. Lightly tacky to hand touch
	Stranding	Applied during stranding by dropping method and the strand is lubricate again by running it through a bath of lubricant			
	Core	Heavy application. No wipe			
D	Closing	Heavy application No Wipe after the "bath" application	Ungalv. Wire Rope	Black (Asphaltum grease)	Wire rope valley is filled with lubrication. For special purpose lubrication of Ungalv. Wire rope where maximum protection against corrosion is desired.
	Stranding	Applied during stranding by dropping method and the strand is lubricate again by running it through a bath of lubricant			
	Core	Heavy application. No wipe			

STEEL WIRE ROPE

GENERAL INFORMATION ON WIRE ROPE for SELECTION & USAGE

6. WIRE ROPE GRADES

Rope Grade	Wire Tensile Strength Grades (N/mm^2)
1960	1770 or level 3 to 2160 level 5
2160	1960 or level 4 to 2160 level 5
EIPS	Level 3 or 1770 to level 5 or 2160
EEIPS	Level 4 or 1960 to level 5 or 2160

7. ZINC-COATED WIRE ROPE

Galvanized ropes have their wires uniformly coated with zinc for protection against corrosion where ropes are exposed t the weather, to moisture, to salt water or to other corroding agents. Conventional galvanized ropes have lower strength than bright ropes (uncoated), and their use usually limited to stationary installations such as guys, standing present, heavily lubricated bright ropes usually are preferred to galvanized ropes.

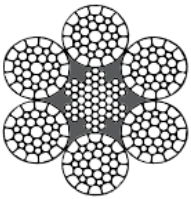
The wires can be-zinc-coated after the last drawing operation (galvanized) or before and then redrawn (drawn galvanized).

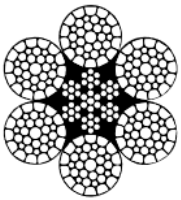
STEEL WIRE ROPE

HI-TECH WIRE ROPE

BSWR

COMPACTED (6X19, 6x36, 6x26)





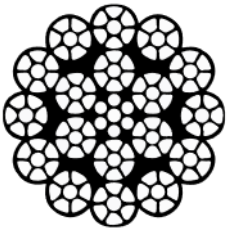
IWRC (STEEL CORE)			
Nominal Diameter	Approximate Weight	Nominal Breaking Load (tonnes)	
	kg/mtr	1770 N/mm	1960 N/mm
10mm	0.47	7.39	8.7
11mm	0.57	8.5	10
12mm	0.65	9.86	11.6
13mm	0.8	12.7	15
14mm	0.94	14.6	17.2
15mm	1.06	16.81	19.80
16mm	1.17	17.7	22.1
17mm	1.39	20.02	25.00
18mm	1.41	22.4	28
19mm	1.66	25	30.8
20mm	1.82	27.7	34
22mm	2.17	34.4	40.6
24mm	2.66	39.5	49.7
25mm	2.8	44.4	52.2
26mm	3.13	46.5	58.7
28mm	3.59	56.8	66.8
30mm	4.14	62.2	77

FIBER CORE			
Nominal Diameter	Approximate Weight	Nominal Breaking Load (tonnes)	
	kg/mtr	1770 N/mm	1960 N/mm
10mm	0.41	6.4	7.56
11mm	0.51	7.39	8.69
12mm	0.59	8.57	10
13mm	0.7	11	13
14mm	0.81	12.6	14.9
16mm	1.03	16.2	19
18mm	1.29	20.5	23.9
19mm	1.44	22.8	26.7
20mm	1.59	25.2	29.6
22mm	1.92	29.6	35.3
24mm	2.28	36.2	42.7
25mm	2.43	39	45.4
26mm	2.72	42.9	50
28mm	3.13	49.3	57.9
30mm	3.62	56.5	71.22

STEEL WIRE ROPE

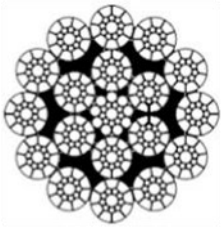
COMPACTED WIRE ROPE

BSWR



18 x 7

MULTI-STRAND ROTATION RESISTANT HOIST ROPE
COMPACTED



18 x 19

Size Nominal Diameter	Approximate Weight	Minimum Breaking Force					
		Rope Grade					
	kg/100 m	1770 N/mm		1960 N/mm		2160 N/m	
		kN	tonnes	kN	tonnes	kN	tonnes
7	22.70	34.00	3.47	39.80	4.06	44.10	4.50
8	30.80	44.60	4.55	54.20	5.53	60.00	6.12
9	38.40	56.40	5.75	67.60	6.89	74.80	7.63
10	48.00	69.70	7.11	84.30	8.60	93.30	9.51
11	59.70	84.20	8.59	105.00	10.70	116.00	11.80
12	68.60	100.60	10.26	121.00	12.30	133.00	13.60
13	83.40	117.70	12.00	147.00	15.00	162.00	16.50
14	94.90	136.80	13.95	167.00	17.00	185.00	18.90
15	109.00	157.80	16.09	191.00	19.50	21.00	21.50
16	125.00	178.80	18.23	219.00	22.30	243.00	24.80
17	141.00	202.20	20.60	248.00	25.30	274.00	27.90
18	158.00	225.60	23.00	278.00	28.30	308.00	31.40
19	173.00	252.00	25.70	304.00	31.00	337.00	34.40
20	194.00	278.40	28.40	335.00	34.20	376.00	38.30
22	233.00	337.20	34.40	405.00	41.30	454.00	46.30
24	288.00	400.80	40.80	498.00	50.80	559.00	57.00
25	303.00	435.60	44.40	523.00	53.30	587.00	59.90
26	334.00	470.40	47.90	580.00	59.10	651.00	66.40
28	382.00	546.00	55.70	662.00	67.50	743.00	75.80
30	436.00	629.40	64.10	756.00	77.10	848.00	86.50
32	501.00	712.80	72.70	859.00	87.60	964.00	98.30
34	575.00	810.00	83.00	974.00	99.00		
35	5.48	854.55	87.14	1029.69	105.0		
36	5.64	903.38	92.12	1088.53	111.0		
37	5.95	1001.05	102.08	1206.21	123.0		
38	6.26	1119.09	114.12	1348.45	137.5		

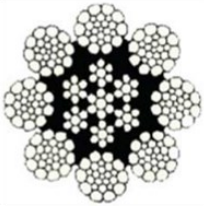
NOTE:

- *Plasticated Inner Rope Optional*
- *EEIPS / 2160/mm² upon request by costumer*
- *Meets oe exceeds the requirements for Minimum Breaking Load specified in latest edition of* ***ISO 2409***

STEEL WIRE ROPE

HI-TECH WIRE ROPE

BSWR



8 x 26 (IWRC)
COMPACTED ROPE

Size Nominal Diameter	Approximate Weight	Minimum Breaking Force					
		Rope Grade					
	kg/100 m	1770 N/mm		1960 N/mm		2160 N/m	
		kN	tonnes	kN	tonnes	kN	tonnes
8	29.40	48.40	4.94	54.90	5.60	58.80	6.00
9	36.90	61.20	6.24	69.60	7.10	74.50	7.60
10	45.30	75.60	7.71	87.30	8.90	93.20	9.50
11	55.90	91.40	9.32	105.00	10.70	112.00	11.40
12	65.30	109.70	11.19	126.00	12.80	134.00	13.70
13	76.60	127.00	12.95	147.00	15.00	157.00	16.00
14	88.80	149.00	15.19	171.00	17.40	182.00	18.60
15	103.00	170.00	17.34	196.00	20.00	210.00	21.40
16	116.00	193.00	19.68	224.00	28.00	238.00	24.30
17	135.00	218.00	22.23	253.00	25.80	271.00	27.60
18	150.00	245.00	24.98	283.00	28.90	303.00	30.90
19	167.00	272.00	27.74	316.00	32.20	337.00	34.40
20	184.00	302.00	30.80	350.00	35.70	374.00	38.10
21	201.00	334.00	34.06	386.00	39.40	413.00	42.10
22	222.00	366.00	37.32	424.00	43.20	452.00	46.10
23	242.00	401.00	40.89	463.00	47.20	494.00	50.40
24	265.00	435.00	44.36	505.00	51.50	539.00	55.00
25	290.00	473.00	48.23	547.00	55.80	584.00	59.60
26	315.00	511.00	52.11	592.00	60.40	633.00	64.50
27	335.00	552.00	56.29	638.00	65.10	682.00	69.50
28	367.00	593.00	60.47	687.00	70.10	735.00	74.90
30	425.00	683.00	69.65	789.00	80.50	943.00	86.00
32	485.00	774.00	78.93	897.00	91.50	958.00	97.70
34	534.00	921.64	93.98	1020.00	104.00	1066.00	109.00
36	609.00	1032.00	105.23	1143.00	117.00	1195.00	122.00
38	979.00	1150.00	117.27	1274.00	130.00	1332.00	136.00
40	755.00	1274.00	123.31	1411.00	144.00	1476.00	150.00

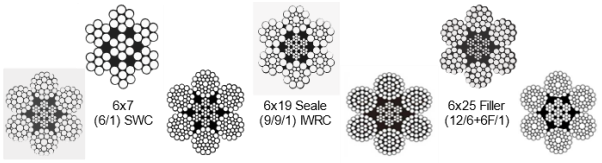
NOTE:

- *Plasticated Inner Rope Optional*
- *EEIPS / 2160/mm² upon request by costumer*
- *Meets oe exceeds the requirements for Minimum Breaking Load specified in latest edition of **ISO 2409***

STEEL WIRE ROPE

CONVENTIONAL WIRE ROPE

BSWR

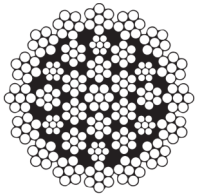


Size		Fiber Core			Steel Core		
Nominal Diameter		Approxi-mate Weight	Minimum Breaking Force 1770 N/mm	Minimum Breaking Force 1960 N/mm	Approxi-mate Weight	Minimum Breaking Force 1770 N/mm	Minimum Breaking Force 1960 N/mm
mm	inch	kg/mtr	kilograms	kilograms	kg/mtr	kilograms	kilograms
6	1/4	0.125	2,000	2,375	0.137	2,160	2,560
6.35		0.148					
7		0.177	2,920	3,230	0.195	3,150	3,490
8	5/16	0.231	3,810	4,220	0.255	4,110	4,560
9	3/8	0.292	4,820	5,340	0.322	5,200	5,760
10		0.361	5,950	6,590	0.398	6,420	7,120
11	7/16	0.437	7,210	7,980	0.482	7,770	8,610
12		0.437	8,570	9,490	0.573	9,250	10,300
13	1/2	0.61	10,100	11,110	0.673	10,800	12,000
14	9/16	0.708	11,600	12,950	0.78	12,600	14,000
16	5/8	0.924	15,300	16,720	1.02	16,400	18,300
18		1.17	19,300	21,410	1.29	20,800	23,000
19	3/4	1.3	21,500	23,750	1.44	23,100	25,700
20		1.44	23,900	26,410	1.59	25,700	28,400
22	7/8	1.75	28,800	31,910	1.93	31,100	34,500
24		2.08	34,300	38,030	2.29	37,000	41,000
25		2.26	37,226	41,700	2.49	40,159	46,900
26	1-0/0	2.44	40,300	44,560	2.69	43,400	48,100
28	1-1/8	2.83	46,700	51,690	3.12	50,400	55,800
29		3.05	50,091	52,510	3.36	54,038	58,900
32	1-1/4	3.7	61,000	67,500	4.08	65,700	72,900
35	1-3/8	4.42	73,000	80,760	4.88	78,700	87,200
36		4.68	77,200	85,450	5.16	83,300	92,200
38	1-1/2	5.21	85,900	95,240	5.75	92,800	103,000
40		5.78	95,300	106,050	6.37	103,000	114,000
41	1-5/8	6.38	100,123	107,070	7.04	108,012	119,300
44	1-3/4	6.99	115,000	127,460	7.71	124,000	138,000
45		7.65	120,613	133,580	8.4	130,116	143,700
48	1-7/8	8.32	137,000	151,930	9.17	148,000	164,000
52	2-0/0	9.76	161,000	178,000	10.17	173,000	192,000
54	2-1/8	10.53	162,000	178,000	11.61	174,000	200,000
57	2-1/4	12.35	181,000	199,000	13.75	194,000	224,000
60	2-3/8	14.48	214,000	237,000	14.7	231,000	255,000
64	2-1/2	16.21	243,000	270,000	16.6	263,000	291,000
68		18.51	275,000	304,000	18.8	297,000	329,000
70		19.59	291,000	323,000	19.9	314,000	348,000

NOTE:

- Plasticated Inner Rope Optional

- Meets of exceeds the requirements for Minimum Breaking Load specified in latest edition of ***API 9A, BS EN 12385-4, ISO 2409***



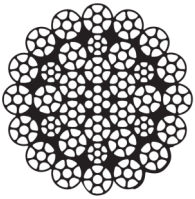
35 (W) x 7 (WSC) MULTI-STRAND LOW SPIN HOIST ROPE

BSWR

SIZE	WEIGHT	MINIMUM BREAKING LOAD					
(mm)	(Kgs/ mtr)	1770 N/mm2		1960 N/mm2		2160 N/mm2	
		(MT)	kN	(MT)	kN	(MT)	kN
10	0.45	6.50	63.72	7.70	75.51	8.80	86.30
11	0.55	7.80	76.49	9.20	90.22	10.60	103.95
12	0.64	9.30	91.20	0.80	105.91	12.60	123.56
13	0.76	11.00	107.87	13.00	127.49	14.80	145.14
14	0.89	12.70	124.54	15.10	148.08	17.00	166.71
15	1.03	14.70	144.16	17.30	169.65	19.40	190.25
16	1.16	16.60	162.79	19.70	193.19	22.40	219.67
17	1.30	18.70	183.38	22.00	215.75	24.50	240.26
18	1.45	21.00	205.94	24.60	241.24	28.00	274.59
19	1.65	23.40	229.47	28.00	274.59	31.60	309.89
20	1.80	26.00	254.97	30.50	299.10	34.20	335.39
21	2.00	28.60	280.47	34.00	333.42	37.50	367.75
22	2.22	31.40	307.93	37.50	367.75	41.80	409.92
23	2.40	34.40	337.35	40.60	398.15	45.50	446.20
24	2.64	37.40	366.77	44.80	439.34	50.50	495.23
25	2.84	40.70	399.13	48.00	470.72	54.50	534.46
26	3.09	43.90	430.51	52.40	513.87	58.90	577.61
27	3.29	47.40	464.83	55.70	546.23	64.10	628.60
28	3.59	51.00	500.14	60.80	596.24	69.00	676.66
30	4.07	58.70	575.65	68.90	675.68	78.60	770.80
32	4.61	66.50	652.14	78.00	764.92	87.80	861.02
34	5.20	75.10	736.48	88.10	863.96	99.00	970.85
35	5.68	79.60	780.61	96.10	942.42	106.00	1039.50
36	5.92	84.20	825.72	99.60	976.74	110.00	1078.73
38	6.47	93.80	919.86	109.10	1069.90	122.00	1196.41
40	6.81	103.96	1019.50	124.71	1223.02	140.96	1382.37
42	7.15	114.62	1124.00	137.50	1348.38	155.41	1524.07

NOTE:

- *Plasticated Inner Rope Optional*
- *EEIPS / 2160/mm² upon request by costumer*
- *Meets oe exceeds the requirements for Minimum Breaking Load specified in latest edition of **ISO 2409, API 9A, BS EN 12385-4 and ISO 2408***



35 x 7 COMPACTED MULTI-STRAND LOW SPIN HOIST ROPE

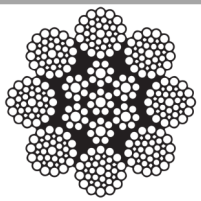
BSWR

SIZE	WEIGHT	MINIMUM BREAKING LOAD					
(mm)	(Kgs/ mtr)	1770 N/mm2		1960 N/mm2		2160 N/mm2	
		(MT)	kN	(MT)	kN	(MT)	kN
10	0.51	7.89	77.37	9.20	90.22	10.00	98.07
11	0.62	9.43	92.48	11.10	108.85	12.10	118.66
12	0.73	11.20	109.83	13.30	130.43	14.30	140.23
13	0.85	13.20	129.45	15.70	153.96	17.00	166.71
14	0.97	15.30	150.04	18.30	179.46	19.50	191.23
15	1.14	17.60	172.60	20.90	204.96	22.40	219.67
16	1.30	20.00	196.13	23.70	232.42	25.60	251.05
17	1.40	22.50	220.65	26.50	259.88	29.00	284.39
18	1.59	25.20	247.13	30.40	298.12	32.50	318.71
19	1.78	28.20	276.55	33.60	329.50	36.30	355.98
20	1.97	31.20	305.97	37.70	369.71	40.50	397.17
21	2.22	34.40	337.35	40.80	400.11	44.10	432.47
22	2.40	37.60	368.73	45.10	442.28	49.10	481.50
23	2.61	41.20	404.03	48.90	479.54	-	-
24	2.86	44.80	439.34	53.80	527.60	-	-
25	3.12	48.80	478.56	58.30	571.73	-	-
26	3.40	52.70	516.81	63.00	617.82	-	-
27	3.56	56.90	558.00	67.50	661.95	-	-
28	3.91	61.20	600.16	73.00	715.88	-	-
29	4.25	65.80	645.28	78.00	764.92	-	-
30	4.45	70.50	691.37	83.90	822.77	-	-
32	5.05	79.70	781.59	95.90	940.45	-	-
34	5.74	89.76	880.20	108.00	1059.11	-	-
35	6.02	94.74	929.10	114.00	1117.95	-	-
36	6.44	100.56	986.15	121.00	1186.60	-	-
38	7.12	111.36	1092.10	134.00	1314.09	-	-
40	8.07	123.83	1214.35	149.00	1461.19	-	-

NOTE:

- Plasticated Inner Rope Optional

- Meets of exceeds the requirements for Minimum Breaking Load specified in latest edition of ***API 9A, BS EN 12385-4, ISO 2409***



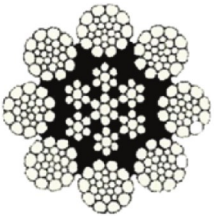
8 x 36 (IWRC) CONVENTIONAL ROPE

BSWR

SIZE	WEIGHT	MINIMUM BREAKING LOAD					
(mm)	(Kgs/ mtr)	1770 N/mm2		1960 N/mm2		2160 N/mm2	
		(MT)	kN	(MT)	kN	(MT)	kN
8	0.27	4.11	40.33	4.69	45.99	5.26	51.58
9	0.35	5.20	51.04	5.93	58.15	6.66	65.31
10	0.43	6.43	63.01	7.30	71.59	8.19	80.32
11	0.51	7.77	76.24	8.69	85.22	9.74	95.52
12	0.63	9.25	90.74	10.70	104.93	11.90	116.70
13	0.74	10.80	105.91	12.40	121.60	14.00	137.29
14	0.84	12.60	123.56	14.30	140.23	16.00	156.91
15	0.98	14.50	142.20	16.50	161.81	18.60	182.40
16	1.11	16.40	160.83	18.80	184.36	21.00	205.94
17	1.27	18.50	181.42	21.50	210.84	24.20	237.32
18	1.43	20.80	203.98	24.20	237.32	27.10	265.76
19	1.61	23.10	226.53	27.10	265.76	30.50	299.10
20	1.77	25.70	252.03	30.00	294.20	33.50	328.52
21	1.93	28.30	277.53	32.60	319.70	36.60	358.92
22	2.14	31.10	304.99	36.10	354.02	40.50	397.17
23	2.36	34.10	334.41	39.90	391.28	44.80	439.34
24	2.55	37.00	362.84	43.00	421.68	48.20	472.68
25	2.76	40.20	394.23	46.70	457.97	52.40	513.87
26	3.01	43.40	425.61	50.80	498.18	57.00	558.98
27	3.24	46.90	459.93	54.80	537.40	61.50	603.11
28	3.45	50.40	494.25	58.20	570.74	65.40	641.35
30	3.94	58.00	568.78	66.50	652.14	74.60	731.57
32	4.49	65.80	645.28	75.90	744.32	85.10	834.54
34	5.07	74.30	728.63	85.70	840.43	96.20	943.40
36	5.62	83.20	815.91	95.00	931.63	107.00	1049.31
38	6.29	92.80	910.05	106.00	1039.50	119.00	1166.99
40	7.03	103.00	1010.08	118.00	1157.18	134.00	1214.09
42	7.84	116.09	1138.48	133.00	1304.28	149.00	1461.19
44	8.66	124.00	1216.02	147.00	1441.57	164.00	1608.28
46	9.29	132.44	1298.74	157.00	1539.64	176.00	1725.96

NOTE:

- *Plasticated Inner Rope Optional*
- *EEIPS / 2160/mm² upon request by costumer*
- *Meets oe exceeds the requirements for Minimum Breaking Load specified in latest edition of* ***ISO 2409, API 9A, BS EN 12385-4 and ISO 2408***



8 x 26 (IWRC) COMPACTED ROPE

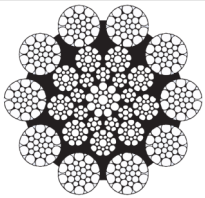
BSWR

SIZE	WEIGHT	MINIMUM BREAKING LOAD			
(mm)	(kgs/mtr)	1770 N/mm³		1960 N/mm³	
		MT	kN	MT	kN
8	0.29	4.94	48.44	5.60	54.92
9	0.36	6.24	61.19	7.10	69.63
10	0.45	7.71	75.61	9.10	89.24
11	0.56	9.32	91.40	11.20	109.83
12	0.65	11.10	108.85	13.10	128.47
13	0.77	12.90	126.51	15.30	150.04
14	0.89	15.20	149.06	17.70	173.58
15	1.03	17.30	169.65	20.20	198.09
16	1.16	19.70	193.19	22.80	223.59
17	1.35	22.20	217.71	25.80	253.01
18	1.50	25.00	245.17	28.90	283.41
19	1.67	27.70	271.64	32.20	315.77
20	1.84	30.80	302.04	35.70	350.10
21	2.01	34.10	334.41	39.40	386.38
22	2.22	37.30	365.79	43.20	423.65
23	2.42	40.90	401.09	47.20	462.87
24	2.65	44.40	435.41	51.50	505.04
25	2.90	48.20	472.68	55.80	547.21
26	3.15	52.10	510.92	60.40	592.32
27	3.35	56.30	552.11	65.10	638.41
28	3.67	60.50	593.30	70.10	687.44
30	4.25	69.70	683.52	80.50	789.43
32	4.85	78.90	773.74	91.50	897.31
34	5.43	88.82	870.99	103.00	1010.08
36	6.06	100.03	980.92	116.00	1137.57
38	6.78	111.24	1090.85	129.00	1265.05
40	7.55	123.31	1209.24	143.00	1402.35

NOTE:

- Plasticated Inner Rope Optional

- Meets of exceeds the requirements for Minimum Breaking Load specified in latest edition of ***API 9A, BS EN 12385-4, ISO 2409***



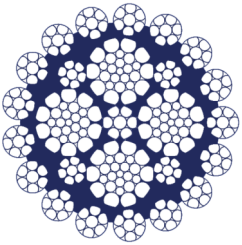
10 x 26 (IWRC) COMPACTED PLASTICATED ROPE

BSWR

10 X 26 (10/5&5/5/1) COMPACTED PLASTICATED ROPE					
SIZE	WEIGHT	MINIMUM BREAKING LOAD			
		1770 N/mm2		1960 N/mm2	
(mm)	(Kgs/mtr)	MT	kN	MT	kN
13	0.78	14.06	137.88	15.47	151.71
14	0.89	16.10	157.89	17.72	173.77
15	1.03	18.51	181.52	20.37	199.76
16	1.18	20.98	205.74	23.09	226.44
17	1.35	24.08	236.14	26.51	259.97
18	1.51	27.12	265.96	29.86	292.83
19	1.67	29.68	291.06	32.67	320.38
20	1.85	33.29	326.46	36.65	359.41
21	2.04	36.75	360.39	40.46	396.78
22	2.24	40.04	392.66	44.07	432.18
23	2.46	43.82	429.73	48.23	472.97
24	2.69	47.93	470.03	52.76	517.40
25	2.89	51.53	505.34	57.06	559.57
26	3.13	56.04	549.56	61.69	604.97
27	3.36	59.92	587.61	65.96	646.85
28	3.61	66.52	652.34	71.27	698.92
29	3.88	68.34	670.19	75.23	737.75
30	4.13	73.81	723.83	81.25	796.79
31	4.38	78.43	769.14	86.34	846.71
32	4.82	85.76	841.02	94.41	925.85
33	5.03	89.71	879.75	98.75	968.41
34	5.42	96.89	950.17	106.66	1045.98
36	6.06	108.61	1065.10	119.56	1172.48
38	6.66	118.80	1165.03	130.78	1282.51
40	7.41	132.39	1298.30	145.74	1429.22
42	8.17	146.50	1436.67	161.27	1581.52
44	8.93	159.87	1567.79	175.99	1725.87

NOTE:

- *Plasticated Inner Rope Optional*
- *EEIPS / 2160/mm² upon request by costumer*
- *Meets oe exceeds the requirements for Minimum Breaking Load specified in latest edition of* ***ISO 2409, API 9A, BS EN 12385-4 and ISO 2408***



BSWR PILE DRIVING / BORING ROPES COMPACTED

BSWR

PILE DRIVING / BORING ROPES					
SIZE	WEIGHT	MINIMUM BREAKING LOAD			
		1770 N/mm2		1960 N/mm2	
(mm)	(Kgs/mtr)	(MT)	kN	(MT)	kN
16	1.32	22.54	221.00	24.88	244.00
17	1.5	24.58	241.00	27.23	267.00
18	1.64	28.45	279.00	31.51	309.00
19	1.85	31.82	312.00	35.18	345.00
20	2.08	34.47	338.00	38.14	374.00
21	2.26	38.04	373.00	42.11	413.00
22	2.51	41.60	408.00	46.09	452.00
24	2.94	49.25	483.00	54.56	535.00
25	3.15	54.76	537.00	60.67	595.00
26	3.49	57.82	567.00	63.94	627.00
27	3.74	62.10	609.00	68.73	674.00
28	4.05	66.79	655.00	73.93	725.00
29	4.27	71.48	701.00	79.23	777.00
30	4.62	76.38	749.00	84.64	830.00
32	5.24	86.98	853.00	96.26	944.00

NOTE:

-- Meets of exceeds the requirements for Minimum Breaking Load specified in latest edition of ***API 9A, BS EN 12385-4, ISO 2409***

STEEL WIRE ROPE

SLINGS

RIGSPEK PERKASA Wire Rope Sling, galvanized with Independent Wire Rope Core (IWRC)

1-leg and multi leg wire rope slings according to BS EN 13414-1 and BS EN 13411-4
The wire rope slings offered on the next few pages are made from galvanized standard ropes with a Steel Core, 6x36 IWRC

	One Leg Sling	Two Leg Sling		Three & Four Leg Sling		Endless Sling
Angle to the Vertical		**0° to 45°**	**45° to 60°**	**0° to 45°**	**45° to 60°**	**0°**
	Direct	**Direct**	**Direct**	**Direct**	**Direct**	**Choke Hitch**
Nominal Rope (mm)	**Working Load Limit (WLL)**					
8	0.75	1.05	0.75	1.55	1.10	1.20
9	0.95	1.30	0.95	2.00	1.40	0.50
10	1.15	1.60	1.15	2.40	1.70	1.85
11	1.40	2.00	1.40	3.00	2.12	2.25
12	1.70	2.30	1.70	3.55	2.50	2.70
13	2.00	2.80	2.00	4.15	3.00	3.15
14	2.25	3.15	2.25	4.80	3.40	3.70
16	3.00	4.20	3.00	6.30	4.50	4.80
18	3.70	5.20	3.70	7.80	5.65	6.00
20	4.60	6.50	4.60	9.80	6.90	7.35
22	5.65	7.80	5.65	11.80	8.40	9.00
24	6.70	9.40	6.70	14.00	10.00	10.60
26	7.80	11.00	7.80	16.50	11.50	12.50
28	9.00	12.50	9.00	19.00	13.50	14.50
32	11.80	16.50	11.80	25.00	17.50	19.00
36	15.00	21.00	15.00	31.50	22.50	23.50
40	18.50	26.00	18.50	39.00	28.00	30.00
44	22.50	31.50	22.50	47.00	33.50	36.00
48	26.00	37.00	26.00	55.00	10.00	42.00
52	31.50	44.00	31.50	66.00	47.00	50.00
56	36.50	50.00	36.50	76.00	54.00	58.00
60	42.00	58.00	42.00	88.00	63.00	67.00
leg factor K	1.0	1.4	1.0	2.1	1.5	1.6

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

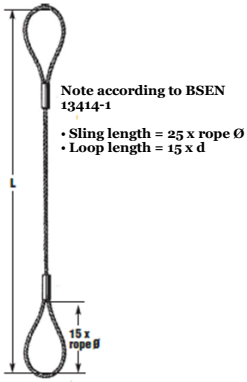
NOTE 1 The working load limits (WLLs) given in above Table are based on the assumption that soft eyes of single-leg slings are used over bearing points having diameters not less than twice the nominal diameter of the rope.

NOTE 2 Table 4 shows working load limit values for ferrule-secured eye slings in various configurations. These values, which are based on the equation given in BS EN 13414-1 have been rounded for the convenience of the user.

NOTE 3 Higher load capacities available on request. Please contact us.

STEEL WIRE ROPE

Examples of single-leg slings and terminal fittings

1-Leg Wire Rope Sling, Galvanised Mechanical Spliced with Standard Soft eye	1-Leg Wire Rope Sling, Galvanised Mechanical Spliced with Thimble Eye	1-Leg Wire Rope Sling, Galv.Mech. one side Spliced with soft eye & Pressed Thimble and Crosby shackle on the other side
		

1-Leg Wire Rope Sling, galvanised, one end Spliced with soft eye, Pressed Thimble with Safety Eye Hook on the other side	1-Leg Wire Rope Sling, galvanised, one end Thimble Eye with Masterlink and Mechanical Spliced with Standard Soft eye on the other side	1-Leg Wire Rope Sling, galvanised, one side one end Spliced with soft eye and Self- locking Eye Hook on the other side
		

STEEL WIRE ROPE

Examples of single-leg slings and terminal fittings

1-leg Wire Rope Sling galvanized, both end mechanical splice with thimble eye, one end fitted by masterlink and other end fitted by Shur-loc Hook	1-leg Wire Rope Sling galvanized, one end mechanical splice with standard soft eye and other end fitted by Eye Hook	1-leg Wire Rope Sling galvanized, one end mechanical splice with hard eye fitted by masterlink and other end fitted by Eye Hook
		
1-leg Wire Rope Sling galvanized, one end mechanical splice with standard eye and other end fitted by Swivel Shur-loc Hook	1-leg Wire Rope Sling galvanized, one end mechanical splice with standard eye and other end fitted by Swivel Shur-loc Hook	1-leg Wire Rope Sling galvanized, one end mechanical splice with hard eye fitted by masterlink and other end fitted by Swivel Shur-loc Hook
		

STEEL WIRE ROPE

Examples of single-leg slings and terminal fittings

1-leg Wire Rope Sling galvanized, one end mechanical splice with hard eye fitted by masterlink and other end fitted by Eye Hook

1-leg Wire Rope Sling galvanized, one end mechanical splice with hard eye fitted by masterlink and other end fitted by Swivel Hook

1-leg Wire Rope Sling galvanized, one end mechanical splice with hard eye fitted by masterlink and other end fitted by Crosby Shackle

1-leg Wire Rope Sling galvanized, one end mechanical splice with hard eye fitted by masterlink and other end Hard Eye

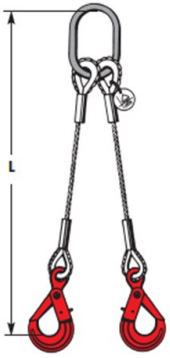
1-leg Wire Rope Sling galvanized, both end mechanical splice with hard eye fitted by masterlinks

Wire Rope Sling with Flemish Eye, according to BS EN 13414-1

- The loops are a nice combination of splice and pressed steel sleeve
- Loop length = 15 x d
- Little wear of steel clamps compared with aluminium sleeves
- Longer service life and enhanced efficiency due to conical sleeve

STEEL WIRE ROPE

Examples of 2-legs slings and terminal fittings

2-Leg Wire Rope Sling, galvanised, top end Thimble Eye with Masterlink and Mechanical Spliced with Standard Soft eye on the other side	2-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end fitted by Eye Hook	2-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end fitted by Crosby Shackle
		
2-leg Wire Rope Sling galvanized, both end mechanical splice with thimble eye, top end fitted by masterlink and other end fitted by Shurloc Hook	2-leg Wire Rope Sling galvanized, both end mechanical splice with thimble eye, top end fitted by masterlink and other end fitted by Foundry Hook	2-leg Wire Rope Sling galvanized, both end mechanical splice with thimble eye, top end fitted by masterlink and other end fitted by Safety Hook
		

STEEL WIRE ROPE

Examples of 2-legs slings and terminal fittings

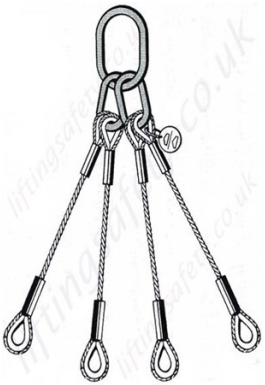
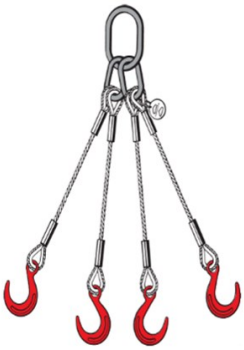
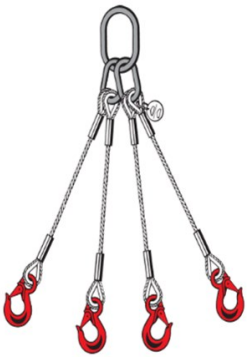
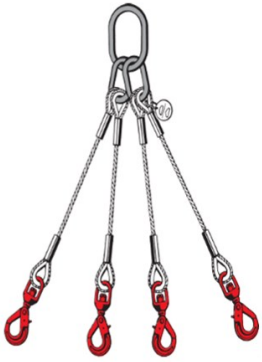
2-leg Wire Rope Sling galvanized, both end mechanical splice with thimble eye, top end fitted by masterlink and other end fitted by Swivel shur-loc hook	2-leg Wire Rope Sling galvanized, both end mechanical splice with thimble eye, top end fitted by masterlink and other end fitted by Swivel safety hook	2-leg Wire Rope Sling galvanized, both end mechanical splice with thimble eye, top end fitted by masterlink and other end fitted by masterlink

Examples of 4-legs slings and terminal fittings

4-Leg Wire Rope Sling galvanized, top end Thimble Eye with Masterlink and Mechanical Spliced with Standard Soft eye on the other side	4-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end fitted by Eye Hook	4-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end fitted by Shur-loc Hook

STEEL WIRE ROPE

Examples of 4-legs slings and terminal fittings

4-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end fitted by swivel saftey hooks	4-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end fitted by Crosby shackles	4-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end mechanical splice with hard eye
		
4-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end fitted by Foundry Hooks	**4-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end fitted by safety eye hooks**	**4-leg Wire Rope Sling galvanized, top end mechanical splice with hard eye fitted by masterlink and other end fitted by swivel shur-loc hooks**
		

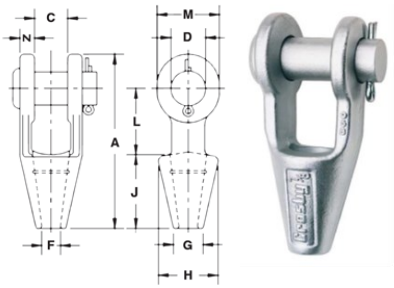
Crosby Accessories

Open Spelter Socket G-416

- Spelter sockets made from forged steel up to 38 mm and from alloyed cast steel from 40 to 100 mm.
- Based on the nominal breaking strength of the wire rope, spelter socket terminations have an efficiency rating of 100%. This is based on the use of the recommended wire ropes 6 x 7, 6 x 19 or 6 x 36, IPS or XIP (EIP), XXIP(EEIP), RRL, FC or IWRC. Strand made from minimum number of wires (e.g. 1 x 7). It must be ensured that the basket is five times (5 times) the strand diameter or fifty times (50 times) the wire diameter, depending on which is greater.

Note:
All cast steel spelter sockets from 40 mm are subjected to magnetic particle inspection and ultrasound testing. Acceptance testing possible on request.

The figure shows a groove for spelter sockets measuring 6 mm to 18 mm. There are 2 spelter sockets for sizes 20 mm to 38 mm. Sizes from 40 mm have 3 spelter sockets.



Spelter sockets with a fork fulfil the performance requirements established by RRS-550E, type A, but with the exception of the provisions that must be fulfilled by the client.

Breaking strength in t	For rope Ø in mm	Crosby Stock No.	Dimensions in mm										Weight in kg/ pce
			A	C	D	F	G	H	J	L	M	N	
4.5	6-7	1039619	116	19.1	17.5	9.65	17.5	39.6	57	39.6	33.3	9.1	0.5
12	8-10	1039637	123	20.6	20.6	12.7	20.6	42.9	57	44.5	38.1	11.2	0.59
20	11-13	1039655	141	25.4	25.4	14.2	23.9	47.8	63.5	51	47.8	12.7	1.02
27	14-16	1039673	171	31.8	30.2	17.5	28.7	57	76	63.5	57	14.2	1.63
43	18	1039691	202	38.1	35.1	20.6	31.8	66.5	89	76	66.5	15.7	2.64
55	20-22	1039717	235	44.5	41.4	23.9	38.1	82.5	102	89	79.5	20.3	4.38
78	24-26	1039735	268	51	51	28.7	44.5	95.5	114	102	95.5	22.4	7.03
92	28-30	1039753	300	57	57	31.8	51	105	127	117	105	25.4	9.75
136	32-35	1039771	335	63.5	63.5	38.1	57	121	140	127	121	28.7	14.1
170	38	1039799	384	76	70	41.4	70	133	152	152	137	30.2	21.4
188	40-42*	1039815	413	76	76	44.5	76	140	165	165	146	33.3	24.9
268	44-48*	1039833	464	89	89	51	79.5	162	191	178	165	39.6	37.2
291	50-54*	1039851	546	102	95.5	57	95.5	187	216	229	178	46	59
360	56-60*	1039879	597	114	108	63.5	102	210	229	254	197	54	76
424	64-67*	1041633	648	127	121	73	114	235	248	274	216	60.5	114
511	70-73*	1041651	692	133	127	79	124	267	279	279	229	73	143
563	75-80*	1041679	737	146	133	86	133	282	305	287	241	76	172
722	82-86*	1041697	784	159	140	92	146	302	330	300	254	79	197
779	88-92*	1041713	845	171	152	98.5	165	314	356	318	274	82.5	255
875	94-102*	1041731	921	191	178	108	184	346	381	343	318	89	355

***Alloyed cast steel**

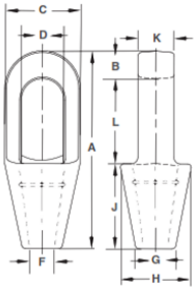
Crosby Accessories

- Spelter sockets made from forged steel up to 38 mm and from alloyed cast steel from 40 to 100 mm.
- Based on the nominal breaking strength of the wire rope, spelter socket terminations have an efficiency rating of 100%. This is based on the use of the recommended wire ropes 6 x 7, 6 x 19 or 6 x 36, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC. Strand made from minimum number of wires (e.g. 1 x 7). It must be ensured that the basket is five times (5 times) the strand diameter or fifty times (50 times) the wire diameter, depending on which is greater.

Note:
All cast steel spelter sockets from 40 mm are subjected to magnetic particle inspection and ultrasound testing. Acceptance testing possible on request.

The figure shows a groove for spelter sockets measuring 6 mm to 18 mm. There are 2 spelter sockets for sizes 20 mm to 38 mm. Sizes from 40 mm have 3 spelter sockets.

Closed Spelter Socket G-417



Spelter sockets with a fork fulfil the performance requirements established by RRS-550E, type A, but with the exception of the provisions that must be fulfilled by the client.

Breaking strength in t	For rope Ø in mm	Crosby Stock No.	Dimensions in mm										Weight in kg/pce
			A	B	C	D**	F	G	H	J	K	L	
4.5	6-7	1039897	116	12.7	39.6	22.4	9.65	17.5	39.6	57.2	12.7	46	0.23
12	8-10	1039913	125	15.8	42.9	24.6	12.7	20.6	42.9	57.2	17.5	52.3	0.34
20	11-13	1039931	140	17.5	51	29.5	14.2	23.9	51	63.5	22.4	58.7	0.68
30.8	14-16	1039959	162	20.6	67	35.8	17.5	30.2	67	76.2	25.4	65	1.13
43.5	18	1039977	194	26.9	76.2	42.2	22.4	33.3	70	89	31.8	77.7	1.92
65.3	20-22	1039995	226	33.3	92	49.3	25.4	38.1	82.5	102	38.1	90.5	3.28
81.6	24-26	1040019	254	36.6	105	58.5	28.7	44.5	95.5	114	44.5	103	4.76
100	28-30	1040037	283	39.6	114	65	31.8	51	105	127	51	116	6.46
136	32-35	1040055	309	41.4	127	71	38.1	58.5	119	138	56.5	129	8.95
170	38	1040073	355	49.3	137	81	41.4	70.5	132	151	62.5	155	13.24
188	40-42*	1040091	390	54	146	82.5	44.5	76.2	140	165	70	171	16.32
268	44-48*	1040117	445	55.5	171	95.5	51	79.5	162	191	76.2	198	25.96
309	50-54*	1040135	505	62	194	111	57.2	95.5	187	216	82.5	224	35.83
360	56-60*	1040153	546	70	216	127	66.8	105	210	229	92	248	47.62
424	64-67*	1041759	597	79.5	241	140	74.5	114	235	248	102	270	63.5
549	70-73*	1041777	645	79.5	273	159	79.5	124	259	279	124	286	99.79
656	75-80*	1041795	689	85.6	292	171	86	133	292	305	133	298	125
750	82-86*	1041811	743	102	311	184	92	146	311	330	146	311	142
820	88-92*	1041839	787	102	330	197	98.5	160	330	356	159	330	181
1005	94-102*	1041857	845	108	362	216	108	184	362	381	178	356	246

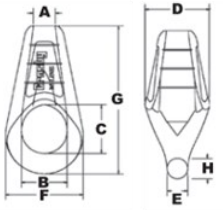
*Alloyed cast steel

**The bolt must not be larger than that on the spelter socket with a fork. See dimension specifications in column 'D', Diameter.

Crosby Accessories

Mooring Spelter Sockets Type G-517 'M-Line'

- Available in several sizes: Wire rope diameter 32 to 102 mm.
- Based on the nominal breaking strength of the wire rope, 'M-Line' spelter sockets have an efficiency rating of 100%. This is based on the use of the recommended wire ropes 6 x 7, 6 x 19 or 6 x 36, IPS or XIP (EIP), XXIP (EEIP), RRL, FC or IWRC. Strand made from minimum number of wires (e.g. 1 x 7). It must be ensured that the basket is five times (5 times) the strand diameter or fifty times (50 times) the wire diameter, depending on which is greater.
- Galvanised finish
- Developed for modern, high-strength wire ropes
- Eyelet shape for easy connection with shackles and other connecting links
- Socket design prevents the cone from rotating



Note:
All mooring spelter sockets made from cast steel are individually subjected to magnetic particle inspection and ultrasound testing.

Breaking strength in t	For rope Ø in mm	Crosby Stock No.	Dimensions in mm								Weight in kg/pce
			A	B	C	D	E	F	G	H	
113	32-35	1039913	41.4	78.5	92.2	113	36.6	130	277	38.9	7.7
136	38-41	39931	49.5	93.7	110	138	40.6	160	330	46	13.6
181	44-48	39959	56.6	106	115	160	46.7	183	358	53.1	19.5
227	50-54	39977	63.5	121	134	178	53.1	210	407	56.9	25.9
277	57-60	1039995	70.6	133	146	196	58.7	233	455	66.6	34.5
363	64-67	1040019	77.5	149	170	217	68.3	257	505	67.6	48.1
454	70-73	1040037	84.6	165	181	237	76.2	282	549	63	62.6
544	76-79	1040055	89.9	184	197	262	82.6	313	597	82.3	87.5
635	82-86	1040073	96.8	194	224	278	88.9	334	654	87.1	104
735	88-92	1040091	105	203	230	298	93.7	355	703	105	127

Crosby Accessories

RESIN WIRE LOCK W6416-7 FOR SPELTER SOCKETS

Note: For use on 416, 417 and 517 spelter

- 100% termination efficiency .
- Temperature operating range is -65° F to +240° F (-54°C to +116°C).
- Ideal for on-site applications.
- No hazardous molten metal.
- Improved fatigue life.
- Pouring temperature without booster pack is 48° F to 110° F (6.67°C to 43.3°C).
- One booster pack if pouring temperature is 35° F to 48° F (1.67°C to 8.89°C).
- Two booster packs if pouring temperature is 27° F to 35° F (-2.78°C to +1.67°C).
- Refer to Wire Rope End Terminations Manual for more information.
- Storage temperature is 68° F (20° C) max. Store in well ventilated area away from sunlight and sources of ignition.

W416-7 Kits			
Kit Size	Kit Per Case	Stock No.	Weight Each (lbs.)
100	20	1039602	0.28
250	12	1039604	0.57
500	12	1039606	1.15
1000	12	1039608	2.08
2000	12	1039610	4.08

Guide to amount WIRELOCK Required								
Wire Rope Size		WIRE-LOCK Required (cc)	Wire Rope Size		WIRELOCK Required	Wire Rope Size		WIRE-LOCK Required
(in.)	Mm		(in.)	Mm		(in.)	mm	
1/4	6-7	9	1-1/8	28	210	2-3/8	60	1410
5/16	8	17	1-1/4	32	350	2-1/2	64	1830
3/8	9-10	17	1-3/8	36	350	2-5/8	67	1830
7/16	11	35	1-1/2	40	420	2-3/4	70	2250
1/2	13	35	1-5/8	42	495	3	76	3160
9/16	14	52	1-3/4	44	700	3-1/4	82	3795
5/8	16	52	1-7/8	48	700	3-1/2	88	4920
3/4	20	86	2	51	1256	3-3/4	94	5980
7/8	22	125	2-1/8	54	1256	4	102	7730
1	26	160	2-1/4	56	1410	-	-	-

FITTINGS

Crosby Accessories

- Each base has a Product Identification Code (PIC) for material traceability, the name CROSBY or CG, and a size forged into it.
- Based on the catalog breaking strength of wire rope, Crosby wire rope clips have an efficiency rating of 80% for 3mm through 22mm sizes, and 90% for sizes 24mm through 90mm.
- Entire Clip is galvanized to resist corrosive and rusting action.
- Sizes 3mm through 62mm and 75mm have forged bases.
- All Clips are individually bagged or tagged with proper application instructions and warning information.
- Clip sizes up through 38mm have rolled threads.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility , design factor, proof load and temperature requirements. Importantly, these wire rope clips meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Look for the Red-U-Bolt®, your assurance of Genuine Crosby Clips.

Forged Wire Rope Clips G-450

Red-U-Bolt®, Clip

Note:
Crosby Clips, all sizes except 68-72mm and 85-90mm meet the performance requirements of EN13411:2003. Crosby Clips, all sizes 6 mm and larger, meet the performance requirements of Federal Specification FF-C-450E TYPE 1 CLASS 1, except for those provisions required of the contractor.

Rope size		G-450 Stock No	Weigh per 100	Dimensions (mm)							
(mm)	(in)		(kg)	A	B	C	D	E	F	G	H
3-4*	1/8*	1010015	2.72	5.60	18.30	11. 2	11. 9	10.40	9.65	20.60	23.90
5*	3/16	1010033	4.54	6.35	24.60	14.20	15.00	12.70	11. 2	23.90	29.50
6-7	1/4	1010051	8.62	7.85	26.20	12.70	19.10	16.80	14.20	30.20	36.60
8	5/16	1010079	12.7	9.65	35.10	19.10	22.40	18.30	1 7. 5	33.30	42.90
9-10	3/8	1010097	21.8	11. 2	38.10	19.10	25.40	23.10	19.10	41.40	49.30
11-13	7/16-1/2	1010131	80	0.50	1.88	1.00	1. 19	1. 13	0.88	1.91	2.28
14-16	9/16-5/8	1010177	110	0.56	2.25	1.25	1.31	1.34	0.94	2.06	2.50
18-20	3/4	1010195	64	15.70	70.00	36.60	38.10	35.80	26.90	57.00	72.00
22	7/8	1010211	96	19.10	79.00	41.10	44.50	40.40	31.80	62.00	80.50
24-26	1	1010239	114	19.10	89.00	46.00	47.80	45.20	31.80	67.00	88.00
28-30	1-1/8	1010257	128	19.10	98.50	51.00	51.00	48.50	31.80	71.50	91.00
32-34	1-1/4	1010275	199	22.40	108.00	54.00	59.40	55.50	36.60	79.50	105.00
36	1-3/8	1010293	200	22.40	118.00	58.50	59.40	58.50	36.60	79.50	106.00
38	1-1/2	1010319	247	22.40	125.00	60.50	66.50	62.00	36.60	86.50	113.00
41-42	1-5/8	1010337	319	25.40	135.00	66.50	70.00	67.50	41.40	92.00	121.00
44-46	1-3/4	1010355	424	28.70	146.00	70.00	77.50	74.50	46.00	97.00	134.00
48-52	2	1010373	590	31.80	164.00	76.00	86.00	77.00	51.00	113.00	149.00
56-58	2-1/4	1010391	726	31.80	181.00	81.00	98.50	81.00	51.00	114.00	162.00
62-65	2-1/2	1010417	862	31.80	195.00	87.50	105.00	93.50	51.00	119.00	168.00
** 68-72	**2-3/4	1010435	1043	31.80	211	90.50	111.00	124.00	51.00	127.00	175.00
75-78	3	1010453	1406	38.10	233.00	98.50	121.00	119.00	60.50	149.00	194.00
** 85-90	**3-1/2	1010426	1814	38.10	273.00	114.00	140.00	152.00	60.50	157.00	213.00

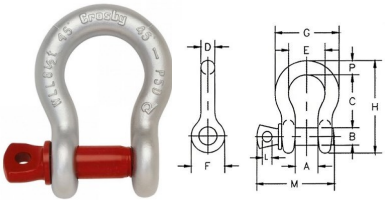
RIGGING HARDWARE

Shackle I Masterlink I Hooks

Crosby

SHACKLES

Screw Pin Shackle



G-209 Screw pin anchor shackles meet the performance requirements of Federal Specification RR-C-271G Type IVA, Grade A, Class 2, except for those provisions required of the contractor.

- Capacities 1/3 thru 55 metric tons, grade 6.
- Forged - Quenched and Tempered, with alloy pins.
- Working Load Limit and grade “6” permanently shown on every shackle.
- Hot Dip galvanized or self colored.
- Sizes 3/8 inch and below are mechanically galvanized.
- Fatigue rated.
- Shackles 25t and larger are RFID EQUIPPED.
- Shackles can be furnished proof tested with certificates to designated standards, such as ABS, DNV, Lloyds, or other certification. Proof testing and certification available when requested at the time of order, charges will apply.
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- Meets or exceeds all requirements of ASME B30.26.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules and ABS Guide for Certification of Lifting Appliances available. Certificates available when requested at time of order and may include additional charges.
- Look for the Red Pin®.

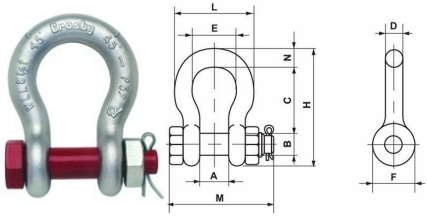
Nom Size	WLL	Stock No.	Weight Each	Dimensions (mm)											Toler-ance +/-	
(in.)	(t)*	G-209	(Ibs.)	A	B	C	D	E	F	G	H	L	M	P	C	A
3/16	1/3	1018357	0.03	9.65	6.35	22.4	4.85	15.2	14.2	24.9	37.3	4.06	28.4	4.85	1.5	1.5
1/4	1/2	1018375	0.05	11. 9	7.9	28.7	6.35	19.8	15.5	32.5	46.7	4.85	35	6.35	1.5	1.5
5/16	3/4	1018393	0.09	13.5	9.7	31	7.85	21.3	19.1	37.3	53	5.60	42.2	7.85	1.5	1.5
3/8	1	1018419	0.14	16.8	11. 2	36.6	9.65	26.2	23.1	45.2	63	6.35	51.5	9.65	3.3	1.5
7/16	1-1/2	1018437	0.17	19.1	12.7	42.9	11. 2	29.5	26.9	51.5	74	7.85	61	11. 2	3.3	1.5
1/2	2	1018455	0.33	20.6	16.	47.8	12.7	33.3	30.2	58.5	83.5	9.65	68.5	12.7	3.3	1.5
5/8	3-1/4	1018473	0.62	26.9	19.1	60.5	16	42.9	38.1	74.5	106	11. 2	85	1 7. 5	3.3	1.5
3/4	4-3/4	1018491	1.07	31.8	22.4	71.5	19.1	51	46.0	89	126	12.70	101	20.6	6.35	1.5
7/8	6-1/2	1018516	1.64	36.6	25.4	84	22.4	58	53.0	102	148	12.70	114	24.6	6.35	1.5
1	8-1/2	1018534	2.28	42.9	28.7	95.5	25.4	68.5	60.5	119	167	14.20	129	26.9	6.35	1.5
1-1/8	9-1/2	1018552	3.36	46	31.8	108	29.5	74	68.5	131	190	16.00	142	31.8	6.35	1.5
1-1/4	12	1018570	4.31	51.5	35.1	119	32.8	82.5	76	146	210	1 7. 5	156	35.1	6.35	1.5
1-3/8	13-1/2	1018598	6.14	57	38.1	133	36.1	92	84	162	233	19.10	174	38.1	6.35	3.3
1-1/2	17	1018614	7.8	60.5	41.4	146	39.1	98.5	92	175	254	20.60	187	41.1	6.35	3.3
1-3/4	25	1018632	12.6	73	51	178	46.7	127	106	225	313	25.40	231	57	6.35	3.3
2	35	1018650	20.4	82.5	57	197	53	146	122	253	348	31.00	263	61.0	6.35	3.3
2-1/2	55	1018678	38.9	105	70	267	69	184	145	327	453	35.10	330	79.5	6.35	6.35

NOTE: Maximum Proof Load is 2 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit. DO NOT SIDE LOADROUND PIN SHACKLES.

Crosby

SHACKLES

Bolt Type Anchor Shackles G-2130



- Capacities 1/3 thru 150 metric tons, grade 6.
- Working Load Limit and grade "6" permanently shown on every shackle.
- Forged – Quenched and Tempered, with alloy bolts.
- Hot Dip galvanized or self colored. (85, 120, and 150 metric ton shackles are all hot dip galvanized bows and the bolts are Dimetoted® and painted red)
- Sizes 3/8 and below are mechanically galvanized.
- Fatigue rated (1/3t - 55t).
- Shackles 25t and larger are **RFID EQUIPPED.**
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- Meets or exceeds all requirements of ASME B30.26.
- Shackles 85 metric tons and larger are individually proof tested to 2.0 times the working load limit.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules ABS Guide for Certification of Lifting Appliances available. Certificates available when requested at time of order and may include additional charges.
- 3.1 Certification as standard available for charpy and statistical proof test from 3.25t up to 25 tons to DNV2.7-1 and EN13889.
- Crosby 3.25t through 25t G2130OC anchor shackles are type approved to DNV Certification Notes 2.7-1-Offshore Containers. These Crosby shackles are statistical proof and impact tested to 42 Joules (31 ft•lbf) min. avg. at -20° C (-4° F). The tests are conducted by Crosby and 3.1 test certification is available upon request. Refer to page 87 for Crosby COLD TUFF® shackles that meet the additional requirements of DNV rules for certification of lifting applications - Loose Gear.
- All other 2130 shackles can meet charpy requirements of 42 Joules (31 ft•lbf) avg at -20° C (-4° F) when requested at time of order.
- Look for the Red Pin®

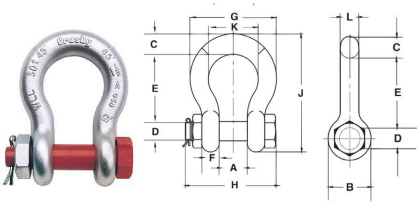
Nominal Size (mm)	WLL	Stock No.		weight	Dimensions (mm)										Tolerance +/-	
	(t)*	G-2130	G-2130OC	(kgs)	A	B	C	D	E	F	H	L	M	N	C	A
3/16	1/3‡	1019464	–	0.03	9.65	6.35	22.4	4.85	15.2	14.2	37.3	24.9	32.8	4.85	1.5	1.5
1/4	1/2	1019466	–	0.05	11. 9	7.85	28.7	6.35	19.8	15.5	46.7	32.5	39.6	6.35	1.5	1.5
5/16	3/4	1019468	–	0.1	13.5	9.65	31	7.85	21.3	19.1	53	37.3	46.2	7.85	1.5	1.5
3/8	1	1019470	–	0.15	16.8	11. 2	36.6	9.65	26.2	23.1	63	45.2	55.1	9.65	3.3	1.5
7/16	1-1/2	1019471	–	0.22	19.1	12.7	42.9	11. 2	29.5	26.9	74	51.5	63.8	11. 2	3.3	1.5
1/2	2	1019472	–	0.36	20.6	16	47.8	12.7	33.3	30.2	83.5	58.5	71.1	12.7	3.3	1.5
5/8	3-1/4	1019490	1262013	0.62	26.9	19.1	60.5	16	42.9	38.1	106	74.5	90.4	17. 5	3.3	1.5
3/4	4-3/4	1019515	1262022	1.23	31.8	22.4	71.5	19.1	51	46	126	89	105	20.6	6.35	1.5
7/8	6-1/2	1019533	1262031	1.79	36.6	25.4	84	22.4	58	53	148	102	122	24.6	6.35	1.5
1	8-1/2	1019551	1262040	2.28	42.9	28.7	95.5	25.4	68.5	60.5	167	119	137	26.9	6.35	1.5
1-1/8	9-1/2	1019579	1262059	3.75	46	31.8	108	28.7	74	68.5	190	131	150	31.8	6.35	1.5
1-1/4	12	1019597	1262068	5.31	51.5	35.1	119	31.8	82.5	76	210	146	170	35.1	6.35	1.5
1-3/8	13-1/2	1019613	1262077	7. 1 8	57	38.1	133	35.1	92	84	233	162	183	38.1	6.35	3.3
1-1/2	17	1019631	1262086	8.62	60.5	41.4	146	38.1	98.5	92	254	175	196	41.1	6.35	3.3
1-3/4	25	1019659	1262095	15.4	73	51	178	44.5	127	106	313	225	246	57	6.35	3.3
2	35	1019677	–	23.7	82.5	57	197	51	146	122	348	253	275	61	6.35	3.3
2-1/2	55	1019695	–	44.6	105	70	267	66.5	184	145	453	327	345	79.5	6.35	6.35
3	† 85	1019711	–	70	127	82.5	330	76	200	165	546	365	384	92	6.35	6.35
3-1/2	†120‡	1019739	–	120	133	95.5	372	92	229	203	626	419	432	105	6.35	6.35
4	†150‡	1019757	–	153	140	108	368	104	254	229	653	468	451	116	6.35	6.35

*NOTE: Maximum Proof Load is 2 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit. † Individually Proof Tested with certification. ‡ Furnished in Anchor style only and furnished with eyebolts for handling

Crosby

SHACKLE

Bolt Type Anchor Shackles G-2140



- Quenched & Tempered.
- Alloy bows, alloy bolts.
- Forged alloy steel 2 through 250 metric tons. Cast alloy steel 400 metric tons.
- Meets performance requirements of Grade 8 shackles.
- Working Load Limit is permanently shown on every shackle.
- 30, 40, 55, and 85 metric ton shackle bows are available galvanized (G) or self colored (S) with bolts that are galvanized and painted red.
- Sizes 3/8 inch and below are mechanically galvanized.
- 120, 150, 175 metric ton shackle bows are hot-dip galvanized; bolts are Dimetcoted and painted red.
- 200, 250, 300, 400 metric ton shackle bows are Dimetcoted; bolts are Dimetcoted and painted red.
- Sizes 1-1/2 and larger are RFID equipped.
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- Shackles are Quenched & Tempered and can meet DNV impact requirements of 42 Joules (31 ft-lb) at -20° C (-4° F).
- All sizes are individually proof tested to 2.0 times the Working Load Limit.
- Crosby COLD TUFF ® shackles that meet the additional requirements of DNV rules for certification of lifting applications - loose gear are available.
- Shackles 200 metric tons and larger are provided as follows:
  - Serialized bolt and bow
  - Material certification (chemical)
  - Magnetic particle inspected.
  - Certification must be requested at time of order.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. 2140 shackles meet other critical performance requirements including impact properties and material traceability, not addressed by ASME B30.26.
- Type Approval certification in accordance with ABS 2016 Steel Vessel Rules and 2016 ABS Guide for Certification of Lifting Appliances. Certificates available when requested at time of order and may include additional charges.
- G-2140 meets the performance requirements of Federal Specification RR-C-271G, Type IVA, Grade B, Class 3, except for those provisions required of the contractor. For additional information, see Warnings & Applications.
- Look for the Red Pin ®... the mark of genuine Crosby quality.

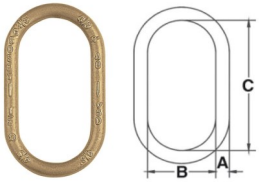
Nominal Size (mm)	WLL	Stock No.			Weight Each
	(t)*	G-2140	S-2140	G-2140OC	(kgs)
3/8	2	1021015	-	–	0.15
7/16	2 2/3	1021020	-	–	0.22
1/2	3 1/3	1021029	-	–	0.36
5/8	5	1021038	-	–	0.76
3/4	7	1021047	-	–	1.23
7/8	9-1/2	1021056	-	–	1.79
1	12-1/2	1021065	-	–	2.57
1- 1/8	15	1021074	-	–	3.75
1 -1/4	18	1021083	-	–	5.31
1- 3/8	21	1021092	-	–	7.1 8
1-1/2	30	1021110	1021129	1262407	8.52
1-3/4	40	1021138	1021147	1262416	15.4
2	55	1021156	1021165	1262425	23.6
2-1/2	85	1021174	1021183	1262434	43.5
3	120	1021192	–	1262443	81
3-1/2	† 150	1021218	–	1262452	120
4	† 175	1021236	–	1262461	153
4-3/4	† 200	1021234	–	–	209
5	† 250	1021243	–	–	276
6	† 300	1021252	–	–	362
7**	† 400	1021478	–	–	500

* Note: Maximum Proof Load is 2 times the Working Load Limit. Minimum Ultimate Load is 4.5 times the Working Load Limit on 2 thru 21 metric tons. For sizes 30 thru 175 metric tons, Minimum Ultimate Load is 5.4 times the Working Load Limit for 200 thru 400 metric tons, Minimum Ultimate Load is 4.times the Working Load Limit. ** Cast Alloy Steel. † Furnished with Round Head Bolts with an handle for handling. For Working Load Limit reduction due to side loading applications

Crosby

MASTERLINK

ALLOY MASTERLINK A-342



- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.
- Alloy Steel — Quenched and Tempered.
- Individually Proof Tested to values shown, with certification
- Proof Tested with special fixtures sized to prevent localized point loading.
- Forgings have a Product Identification Code (PIC) for material traceability, along with the size, the name Crosby and USA in raised lettering.
- Selected sizes designated with "W" in the size column have enlarged inside dimensions to allow additional room for sling hardware and crane hook.
- Crosby 7/8" to 2" 342 master links are type approved to DNV GLST- E271-2.7-1 Offshore Containers. These Crosby master links are 100% proof tested, MPI and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Incorporates patented QUIC-CHECK® deformation indicators.

Size		A-342 Stock No.	Weigh t Each (kg)	WLL S.F = 5/1 for Rope (t)*	Proof Load (kN)**	Dimensions (mm)			
(mm)	(in)					A	B	C	Deformation Indicator
13W	1/2W	1014266	0.59	3.4	77	13	71.1	127	89
16	5/8	1014280	0.69	4	80	16	76.2	152	89
19W	3/4W	1014285	0.91	5.6	126	19	81.3	152	102
22W	7/8W	3522213	1.5	6.9	†169	22	95.3	162	114
26W	1W	3522214	2.77	11.8	†289	26	109	191	140
32W	1-1/4W	3522215	5.44	17.7	†435	32	140	241	178
38W	1-1/2W	3522216	8.44	27.7	†680	38	150	267	191
44	1-3/4	3522217	11.4	38.5	†944	44	152	305	191
51	2	3522218	16.8	46.5	†1141	51	178	356	229
57	2-1/4	1014422	24.5	64.9	1287	57	203	406	254
63	2-1/2	1014468	31.1	72.6	1423	63	213	406	279
70	2-3/4	1014440	42.6	98.4	1930	70	251	457	318
76	3	1014486	52	103	2029	76	251	457	330
83	3-1/4	1014501	66	119	2332	83	254	508	343
89	3-1/2	1014529	91	126	2483	89	305	610	394
95	3-3/4	1015051	90	152	2990	95	254	508	343
102	4	1015060	120	169	3319	102	305	610	406
†† **108**	†† 4-1/4	1015067	137	160	3150	108	305	610	-
†† **114**	†† 4-1/2	1015079	156	163	3202	114	356	711	-
†† **121**	†† 4-3/4	1015088	198	176	3460	121	356	711	-
†† **127**	†† 5	1015094	234	179	3515	127	381	762	-

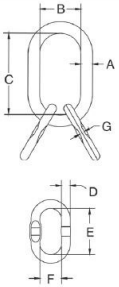
*Ultimate Load is 5 times the Working Load Limit. Based on single leg sling (in-line load), or resultant load on multiple legs with an included angle less than or equal to 120 degrees. Applications with wire rope and synthetic sling generally require a design factor of 5. **Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9. †Offshore Container Master Links Proof Tested to 2.5 times the Working Load Limit with 70 percent fixtures †† Welded Master Link.

Crosby

MASTERLINK

- Alloy Steel — Quenched and Tempered.
- Individually Proof Tested to values shown, with certification
- Proof Tested with 60% inside width special fixtures sized to prevent localized point loading per ASTM A952 , reference page 276.
- Forgings have a Product Identification Code (PIC) for material traceability ,along with the size, the name Crosby and USA in raised lettering.
- Selected sizes designated with “W” in the size column have enlarged inside dimensions to allow additional room for sling hardware and crane hook.
- Incorporates patented QUIC-CHECK® deformation indicators.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed

Alloy Master Links with Engineered Flat A-345



Size		A-345 Stock No.	Weight Each (kg)	WLL S.F = 5/1 for Rope (t)*	Proof Load (kN)**	Dismensions (mm)							
(mm)	(in)					A	B	C	D	E	F	G	Deformation Indicator
19W	3/4W	1014739	1.59	5.6	126	19	81.3	152	14.2	85.1	45	7.62	102
22W	7/8W	1014742	2.18	6.9	157	22	95.3	162	14.2	85.1	45	7.62	114
26W	1W	1014766	4.22	11.8	267	26	109	191	19.1	100	59.9	8.38	140
32W	1-1/4W	1014779	7.17	17.7	402	32	140	241	25.4	160	89.9	13	178
38W	1-1/2W	1014807	15.47	27.7	628	38	150	267	31.8	180	100	16.5	191
44	1-3/4	1014814	20.9	38.5	944	44	152	305	35.1	203	127	18.5	191
† 44	† 1-3/4	1262621	33.7	† 38.5	944	44	152	305	44	305	152	-	191
51	2	1014832	30.4	46.5	1141	51	178	356	38.1	229	146	-	229
64	2-1/2	1014855	93.4	72.6	1423	64	213	406	63.5	406	213	-	279
70	2-3/4	1014864	128	98.4	1929	70	251	457	69.9	457	251	-	318
102	4	101499	303	169	3319	102	305	610	89	610	305	-	394***

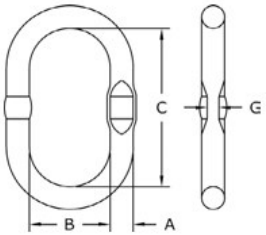
* Ultimate Load is 5 times the Working Load Limit. The maximum individual sub link working load limit is 75% of the assembly working load limit except for 2-1/2”and 2-3/4”, which are 100% of assembly working load limit. Applications with wire rope and synthetic sling generally require a design factor of 5. **Proof Test Load equals or exceeds the requirement of ASTM A952 8.1) and ASME B30.9.

Crosby

MASTERLINK

WELDED MASTERLINK
A-344

- Alloy Steel — Quenched and Tempered.
- Individually Proof Tested to values shown, with certification
- Proof Tested with 60% inside width special fixtures sized to prevent localized point loading per ASME A-952, reference page 276.
- Forgings have a Product Identification Code (PIC) for material traceability, along with the size, the name Crosby and USA in raised lettering.
- Selected sizes designated with "W" in the size column have enlarged inside dimensions to allow additional room for sling hardware and crane hook.
- Crosby 12mm to 57mm 344/347 master links are type approved to DNV
- Certification Notes 2.7-1- Offshore Containers. These Crosby master links
- are 100% proof tested, MPI and impact tested. The tests are conducted by
- Crosby and 3.1 test certification is available upon request. Refer to page 164 for Crosby COLD TUFF ® master links that meet the additional requirements of DNV rules for certification of lifting appliances - Loose Gear.
- Incorporates patented QUIC-CHECK ® deformation indicators.
- Meets or exceeds all requirements of ASME B30.26 including identification ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.



Size (mm)	Size (in)	A-344 Stock No.	Weight Each (kg)	WLL (t)*	Proof Load (kN)**	Dismensions (mm) A	B	C	D	E	F	G	Engineered Flat Size for S-1325A (mm)
13/12	1/2	1257692	.82	2.4	59	13.0	60.0	120	12.0	85.0	45.0	6.00	6
17/13	11/16	1257762	1.58	4.1	101	17.0	90.0	160	13.0	120	60.0	6.50	7
19/13	3/4	1257832	1.80	4.25	104	19.0	90.0	160	13.0	120	60.0	6.50	8
22/20	7/8	1257977	3.93	8.5	208	22.0	90.0	170	20.0	150	80.0	-	-
22/17	7/8	1257972	3.35	6.7	164	22.0	100	180	17.0	160	90.0	8.50	10
22/16	7/8	1257979	3.53	5.8	142	22.0	145	275	16.0	120	60.0	-	-
25/20	1	1258122	4.65	10.7	262	25.0	100	190	20.0	150	80.0	-	-
25/19	1	1258102	5.51	8.9	218	25.0	145	275	19.0	160	90.0	-	-
28/22	1-1/8	1258162	6.40	12.9	316	28.0	110	210	22.0	170	90.0	-	-
28/22	1-1/8	1258142	7.17	14.5	355	28.0	145	275	22.0	180	100	10.5	13
31/25	1-7/32	1258182	9.72	17	417	31.0	145	275	25.0	210	115	13.5	16
32/25	1-1/4	1258202	9.92	17	417	32.0	140	270	25.0	190	100	-	-
36/28	1-3/8	1258222	12.20	23.6	579	36.0	145	275	28.0	190	100	-	-
38/32	1-1/2	1258224	18.23	28.1	689	38.0	140	270	32.0	270	140	-	-
40/31	1-9/16	1258332	18.68	28.1	689	40.0	160	300	31.0	275	145	-	-
45/38	1-3/4	1258422	27.96	38.3	939	45.0	170	320	38.0	270	140	-	-
45/36	1-3/4	1258402	26.56	38.3	939	45.0	180	340	36.0	285	155	-	-
50/38	2	1258442	32.86	45	1103	50.0	200	380	38.0	270	140		-
51/45	2	1258462	42.92	45	1103	51.0	190	350	45.0	340	180	-	-
57/50	2-1/4	1258482	59.70	67	1643	57.0	203	406	50.0	380	200	-	-

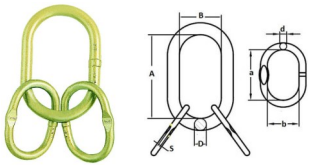
*Ultimate Load is 5 times the Working Load Limit. The maximum individual sublink working load limit is 75% of the assembly working load limit except for 63.5 and 70mm, which are 100% of assembly working load limit. Applications with wire rope and synthetic sling generally require a design factor of 5. **Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9.*** Sublink only.

Crosby

MASTERLINK

ALLOY MASTERLINK

A-347



- Ultimate Load is 5 times the Working Load Limit. Applications with wire rope and synthetic sling generally require a design factor of 5. 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

- Alloy Steel — Quenched and Tempered.
- Individually Proof Tested to values shown, with certification
- Proof Tested with 60% inside width special fixtures sized to prevent localized point loading per ASME A-952
- Forgings have a Product Identification Code (PIC) for material traceability, along with the size, the name Crosby and USA in raised lettering.
- Selected sizes designated with "W" in the size column have enlarged inside dimensions to allow additional room for sling hardware and crane hook.
- Crosby 1 ¼" to 2" 344/347 master links are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby master links are 100% proof tested, MPI and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request. Refer to page 164 for Crosby COLD TUFF® master links that meet the additional requirements of DNV rules for certification of lifting Appliances Loose Gear.
- Engineered Flat for use with S-1325A coupler link.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material trace ability, not addressed by ASME B30.26.

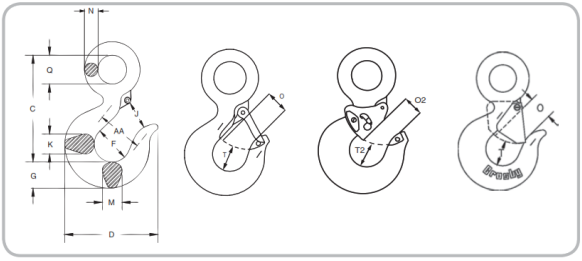
Size		A-347 Stock No.	Weight Each (kg)	WLL (t)*	Proof Load (kN)**	Dismensions (mm)							Engineered Flat Size for S-1325A (mm)
(mm)	(in)					A	B	C	D	E	F	G	
13/12	1/2	1257692	0.82	2.4	59	13.0	60.0	120	12.0	85.0	45.0	6.00	6
17/13	11/16	1257762	1.58	4.1	101	17.0	90.0	160	13.0	120	60.0	6.50	7
19/13	3/4	1257832	1.80	4.25	104	19.0	90.0	160	13.0	120	60.0	6.50	8
22/20	7/8	1257977	3.93	8.5	208	22.0	90.0	170	20.0	150	80.0	-	-
22/17	7/8	1257972	3.35	6.7	164	22.0	100	180	17.0	160	90.0	8.50	10
22/16	7/8	1257979	3.53	5.8	142	22.0	145	275	16.0	120	60.0	-	-
25/20	1	1258122	4.65	10.7	262	25.0	100	190	20.0	150	80.0	-	-
25/19	1	1258102	5.51	8.9	218	25.0	145	275	19.0	160	90.0	-	-
28/22	1-1/8	1258162	6.40	12.9	316	28.0	110	210	22.0	170	90.0	-	-
28/22	1-1/8	1258142	7.17	14.5	355	28.0	145	275	22.0	180	100	10.5	13
31/25	1-7/32	1258182	9.72	17	417	31.0	145	275	25.0	210	115	13.5	16
32/25	1-1/4	1258202	9.92	17	417	32.0	140	270	25.0	190	100	-	-
36/28	1-3/8	1258222	12.20	23.6	579	36.0	145	275	28.0	190	100	-	-
38/32	1-1/2	1258224	18.23	28.1	689	38.0	140	270	32.0	270	140	-	-
40/31	1-9/16	1258332	18.68	28.1	689	40.0	160	300	31.0	275	145	-	-
45/38	1-3/4	1258422	27.96	38.3	939	45.0	170	320	38.0	270	140	-	-
45/36	1-3/4	1258402	26.56	38.3	939	45.0	180	340	36.0	285	155	-	-
50/38	2	1258442	32.86	45	1103	50.0	200	380	38.0	270	140		-
51/45	2	1258462	42.92	45	1103	51.0	190	350	45.0	340	180	-	-
57/50	2-1/4	1258482	59.70	67	1643	57.0	203	406	50.0	380	200		-

Ultimate Load is 5 times the Working Load Limit. The maximum individual sublink working load limit is 75% of the assembly working load limit except for 63.5 and 70mm, which are 100% of assembly working load limit. Applications with wire rope and synthetic sling generally require a design factor of 5. **Proof Test Load equals or exceeds the requirement of ASTM A952(8.1) and ASME B30.9.* Sublink only.

HOOKS
EYE HOOK L-320AN

All Crosby L-320 Eye Hoist Hooks incorporate the following features:

- The most complete line of Eye hoist hooks.
- Available in carbon steel and alloy steel.
- Designed with a 5:1 Design Factor for (Carbon Steel); 4.5:1 Design Factor for 30t - 60t (Alloy Steel).
- Eye hooks are load rated.
- Proper design, careful forging and precision controlled quenched and tempering give maximum strength without excessive weight and bulk.
- Every Crosby Eye Hook is equipped with a latch. Even years after purchase of the original hook, latch assemblies can be added.
- Chemical analysis and tensile tests performed on each PIC to verify chemistry and mechanical properties.
- Type Approval certification in accordance with ABS 2016 Steel Vessel and Guide for Certification of Lifting Appliances 2016 available. Certificates available when requested at time of order and may include additional charges.
- Meets ASME B30.10
- Hoist hooks incorporate two types of strategically placed markings forged into the product which address two (2) QUIC-CHECK® features:
- Deformation Indicators and Angle Indicators



Working Load Limit		Hook ID Code	Eye Hook Stock No. L-320AN	Weight Each (kg)	Dimensions (mm)													
Carbon	Alloy				C	D	F	G	J	K	M	N	O †	O2 ††	Q	T †	T2 ††	AA**
0.75	1.25	†D	1022380	0.28	85	72	31.8	18.5	22.9	16	16	9.14	22.6	-	19.1	22.1	-	38.1
1	1.6	†F	1022391	0.4	97	79	35.1	21.3	23.6	18	18	10.7	23.1	-	23.1	24.9	-	50.8
1.6	2.5	†G	1022402	0.65	105	89.5	38.1	25.4	25.4	22.4	22.4	14	25.4	-	28.7	26.2	-	50.8
2	3.2	†H	1022413	0.94	119	101	41.4	28.7	28.7	23.9	23.8	14.7	27.7	-	31.8	29.5	-	50.8
3.2	5.4	†I	1022424	1.95	147	122	51	36.6	37.3	33.3	33.3	18.3	34.5	25.4	39.6	38.9	38.1	63.5
5	8	†J	1022435	3.76	187	159	63.5	46	44.5	42.2	42.2	22.9	40.9	33.3	51	49.8	47.7	76.2
7.5	11.5	†K	1022446	6.8	230	189	76	57	58	47.8	41.4	28.2	53	46	62	62.5	57. 2	102
10	16	†L	1022457	9.42	256	211	82.5	66	63.5	55.5	49.3	32.3	57.5	51	72	66.5	58.7	102
15	22	†N	1022468	17.9	318	262	108	76	84	68.5	60.5	39.6	76.5	69.8	89	72	65	127
20	31.5	O	1022477	27. 2	357	346	127	92	102	76	76.2	44.5	82.5	-	89	87.5	-	165
25	37	P	1023565	47.6	462	357	137	116	108	95.2	81	51	76	-	114	98.5	-	178
30	45	S	1023583	67	511	392	152	129	121	114	82.6	55.4	86	-	125	121	-	203
40	60	T	1023609	103	602	470	178	152	146	140	99.3	64.3	105	-	145	145	-	254

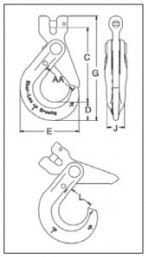
*Eye Hooks (3/4 TC-22TA), Proof load is 2 times Working Load Limit. Eye Hooks (20 TC-60TA). All carbon hooks - average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 1t through 22t - average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 30t through 60t - average straightening load (ultimate load) is 4.5 times Working Load Limit.** Deformation Indicators.† 3/4tC - 22tA dimensions shown are for S-4320 Latch Kits. Dimensions for "O" frame size and larger are for PL Latch Kits.†† Dimensions are for PL-N latch kits.

Crosby

HOOKS

GRADE 100 SHUR-LOC EYE HOOK

S-1317
Clevis Hook



All SHUR-LOC® hooks have the following features:

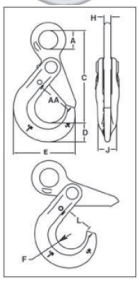
- Forged Alloy Steel - Quenched and Tempered.
- Recessed trigger design is flush with the hook bod , protecting the trigger from potential damage.

  * Easy to operate with enlarged thumb access.
- Positive Lock Latch is Self-Locking when hook is loaded.
- The SHUR-LOC ® hook, if properly installed and locked, can be used for personnel lifting applications and meets the intent of OSHA Rule 1926.1431(g)(1)(i)(A) and 1926.1501(g) (4)(iv)(B).
- Contact Engineered solutions for additional threading or Split Nut options

Eye Style incorporates these added features:

- Individually Proof Tested to 2-1/2 times the Chain Working Load Limit with certification
- S-1316 meets the performance requirements of EN1677-3.
- 25% stronger than Grade 80.
- Suitable for use with Grade 100 and Grade 80 chain.
- Designed with “Engineered Flat” to connect to S-1325 chain coupler.

S-1316
Eye Hook



S-1317 Clevis Hook

Chain Size		WLL (t) 5:1	S-1316 Stock No.	Weight Each (kg)	Dimensions (mm)						
(in)	(mm)				C	D	E	G	J	L	AA
-	6	1.5	1028991	0.35	87.4	20.1	66.0	121	16.0	29.0	38.1
1/4	7	2.0	1029000	0.82	114	27.9	89.0	159	20.6	35.1	51.0
5/16	8	2.6	1029009	0.82	114	27.9	89.0	159	20.6	35.1	51.0
3/8	10	4.0	1029018	1.66	140	29.7	112	192	24.1	46.5	63.5
1/2	13	6.8	1029027	3.08	173	42.4	139	242	29.5	56.4	76.2
5/8	16	10.3	1029036	5.40	209	51.8	167	295	38.1	67.3	89.0
3/4	18-20	16.0	1029071	6.80	239	56.4	197	336	51.6	89.4	-
7/8	22	20.0	1029080	12.7	283	62.2	222	392	55.9	97.3	-
1	26	27.1	1029089	22.5	319	81.5	251	468	68.1	104	-

S-1316 Eye Hook

Chain Size		WLL (t) 5:1	S-1316 Stock No.	Weight Each (kg)	Dimensions (mm)								
(in)	(mm)				A	C	D	E	F	H	J	L	AA**
-	6	1.5	1022896	0.39	19.8	100	20.1	66.0	17.0	7.87	16.0	29.5	38.1
1/4-5/16	7/8	2.6	1022914	0.82	27.4	135	27.9	88.9	22.1	9.91	20.6	37.6	51.0
3/8	10	4.0	1022923	1.54	33.0	167	29.7	112	27.9	12.9	23.9	46.5	63.5
1/2	13	6.8	1022932	2.72	41.9	209	42.4	139	32.0	17.0	29.5	56.4	76.2
5/8	16	10.3	1022941	6.83	55.9	256	51.8	167	38.1	22.1	38.1	67.3	89.0
3/4	18/20	16.0	1022942	8.61	66.0	274	56.4	197	51.1	22.1	51.6	89.4	-
7/8	22	20.0	1022943	12.7	72.9	317	62.2	222	57.7	24.9	55.9	97.3	-
1	26	27.1	1022944	22.45	80.0	371	81.5	251	62.5	32.0	68.1	104	-

* Ultimate Load is 4 times the Working Load Limit based on Grade 100 chain. ** Deformation Indicators.

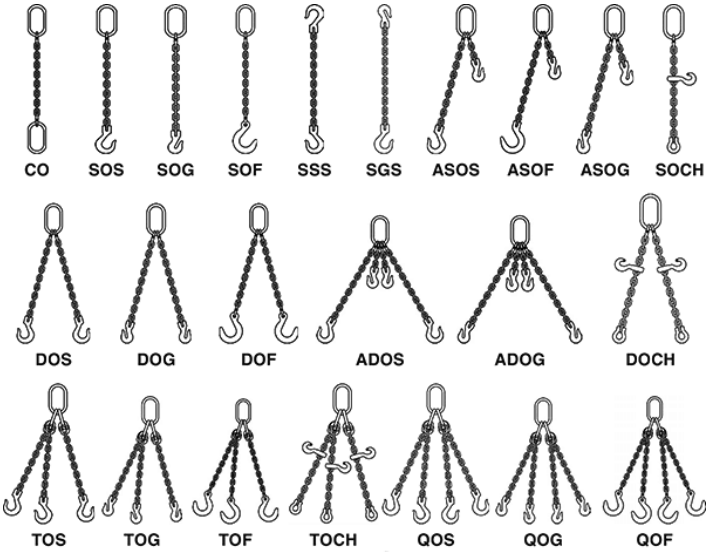
CHAIN & ACCESSORIES

Chain I Chain Sling I Hooks I Chain Eliminator

Crosby

GRADE 100 CHAIN

GRADE 100 CHAIN SLING CONFIGURATION



Type	Description	Type	Description
CO	Single Chain Sling with Master Link each end	SGS	Single Chain Sling with Grab Hook and Sling Hook
SOS	Single Chain Sling with Master Link and Sling Hook	ASOS	Adjustable Single Chain with Master Link and Sling Hook
SOG	Single Chain Sling with Master Link and Grab Hook	ASOF	Adjustable Single Chain Sling with Master Link and Foundry Hook
SOF	Single Chain Sling with Master Link and Foundry Hook	ASOG	Adjustable Single Chain Sling with Master Link and Grab Hook
SSS	Single Chain Sling with Sling Hook each end	SOCH	Single with 1355 Choker

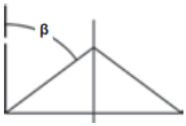
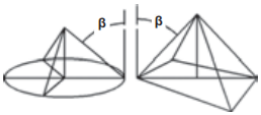
Type	Description	Type	Description
DOS	Double Chain Sling with Master Link and Sling Hook	ADOS	Adjustable Double Chain Sling with Master Link and Sling Hook
DOG	Double Chain Sling with Master Link and Grab Hook	ADOG	Adjustable Double Chain Sling with Master Link and Grab Hook
DOF	Double Chain Sling with Master Link and Foundry Hook	DOCH	Double with 1355 Choker

Type	Description	Type	Description
TOS	Triple Chain Sling with Master Link and Sling Hook	QOS	Quadruple Chain Sling with Master Link and Sling Hook
TOG	Triple Chain Sling with Master Link and Grab Hook	QOG	Quadruple Chain Sling with Master Link and Grab Hook
TOF	Triple Chain Sling with Master Link and Foundry Hook	QOF	Quadruple Chain Sling with Master Link and Foundry Hook
TOCH	Triple with 1355 Choker		

Crosby

GRADE 100 CHAIN

GRADE 100 CHAIN SLING WLL

Nominal size of sling						
(in.)	(mm)	Single Leg	Two Leg Slings		Triple and Four-Leg Slings		Choker Hitch *t
			0°<ß≤45t	45°<ß≤60t	0°<ß≤45t	45°<ß≤60t	
7/32	6	1,40	2,00	1,40	3,00	2,12	1,12
1/4 (9/32)	7	2,00	2,80	2,00	4,20	3,00	1,60
5/16	8	2,50	3,55	2,50	5,30	3,75	2,00
3/8	10	4,00	5,60	4,00	8,00	6,00	3,20
1/2	13	6,70	9,50	6,70	14,0	10,0	5,35
5/8	16	10,0	14,0	10,0	21,2	15,0	8,00
3/4	19	14,0	20,0	14,0	30,0	21,0	11, 2
7/8	22	18,8	27,0	18,8	39,4	28,0	15,0
7/8	23	21,0	29,5	21,0	44,4	31,5	16,8
1	27	27,0	38,0	27,0	57,0	40,0	21,6
1-1/4	32	40,0	56,0	40,0	85,0	60,0	32,5

*For choker applications, the Working Load Limit must be reduced by 20%. The Crosby A-1338 cradle grab hook and S1311N chain shorten link do not

Crosby

GRADE 100 CHAIN

Grade 100 Alloy Chain

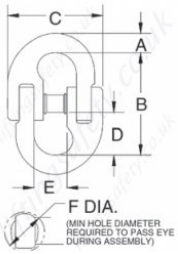
- Alloy Steel.
- Heat Treated.
- 25% stronger than Grade 80 Alloy Chain.
- Permanently embossed with CG (Crosby Group) and 10 (Grade).
- Finish - Black rust preventative coating.
- Proof Tested at 2 times the Working Load Limit with certification
- Standard container - fiber drum

Chain Size (in.)	Chain Size (mm)	Gr. 100 Stock No.	Meters Per Drum	Dimensions (mm)	Working Load Limit (t)*	Weight Per Meter (kg)
9/32 (1/4)	7	1210055	200	7 x 21	2	1.05
5/16	8	1210076	200	8 x 24	2.5	1.25
3/8	10	1210097	200	10 x 30	4	2.2
1/2	13	1210118	150	13 x 39	6.7	3.8
5/8	16	1210139	100	16 x 48	10	5.7
3/4	19	1210160	50	19 x 57	14	8.03
7/8	22	273867	50	23 x 69	21	10.9
7/8	23	1210202	50	23 x 69	21	10.9
1	26	1210232	50	26 x 78	26.5	15.2
1-1/4	32	1210250	20	32 x 96	40	23

* Proof tested at 2 times Working Load Limit. Ultimate Load is 4 times the Working Load Limit.

Grade 100 Alloy Chain A-1337

- Suitable for use with both Grade 80 and Grade 100 chain.
- Individually Proof Tested at 2-1/2 times Working Load Limit with certification.
- Locking system that provides for simple assembly and disassembly - no special tools needed.
- 25% stronger than Grade 80.
- Meets ASTM A-952 standards for Grade 100 chain fittings.
- Forged Alloy Steel - Quenched and Tempered.
- Sizes 9/32 through 1 inch are fatigue rated.
- "Look for the Platinum Color - Crosby Grade 100 Alloy



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	1015104	60	.12	2.0	9.7	49.3	48.3	20.6	17.5	14.5
5/16	8	1015113	50	.16	2.5	9.40	59.7	52.6	25.1	18.3	16.3
3/8	10	1015122	40	.34	4.0	12.2	68.6	62.7	28.4	22.9	19.8
1/2	13	1015136	12	.73	6.8	17.3	87.6	84.1	36.6	28.4	24.6
5/8	16	1015145	10	1.30	10.2	20.6	105	99.1	43.7	34.3	29.0
3/4	20	1015154	1	2.26	16.0	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	27.1	31.0	152	157	63.5	56.4	47.8
1-1/4	32	1015181	1	9.25	41.0	38.1	189	194	78.5	64.3	55.6

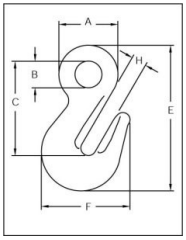
*Ultimate Load is 4 times the Working Load Limit

Crosby

GRADE 100 CHAIN

EYE GRAB HOOK A-1328

- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification
- Each hook has a Product Identification Code (PIC) for material traceability, along with the size and the name Crosby.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- "Look for the Platinum Color – Crosby Grade 100 Alloy Products."



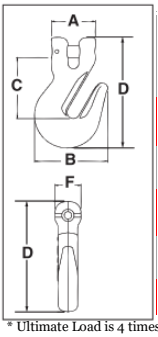
Chain Size (in)	Chain Size (mm)	Working Load Limit (t)*	A-1328 Stock No.	Weight Each (kg)	Dimensions (mm) A	B	C	E	F	H
1/4 - 5/16	7-8	2.6	1026169	0.45	44.5	19.1	70.9	109	66.3	11.2
3/8	10	4.0	1026187	0.73	52.3	23.9	84.6	130	78.5	13.5
1/2	13	6.8	1026196	1.5	65.0	28.4	104	162	97.3	16.8
5/8	16	10.3	1026205	2.7	78.0	33.3	125	194	115	20.0
3/4	18-20	16.0	1026214	4.5	82.6	38.1	137	223	152	23.9
7/8	22-23	20.0	1026223	6.0	100	46.0	165	257	166	27.7
1	26	27.1	1026232	8.6	113	50.8	183	291	197	30.2
1 1/4	32	41.0	1026241	18.0	143	60.5	231	371	241	38.1

* Ultimate Load is 4 times the Working Load Limit.

A -1358 Grab Hook

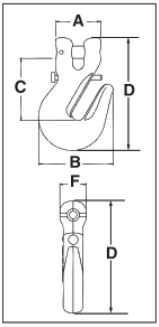
- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification
- Each hook has a Product Identification Code (PIC) for material traceability , along with the
- size and the name Crosby.
- Suitable for use with Grade 100 and Grade 80 chain.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.
- "Look for the Platinum Color - Crosby Grade 100 Alloy Products."

A -1358 Grab Hook



Chain Size (in)	Chain Size (mm)	WLL (t)*	A-1328 Stock No.	L-1358 Stock No.	Weigh t Each (kg)	Dimensions (mm) A	B	C	E	F
1/4	7	2.0	1049610	1049605	0.45	43.7	64.5	55.9	98.5	22.4
5/16	8	2.6	1049629	1049614	0.45	43.7	64.5	55.4	98.5	22.4
3/8	10	4.0	1049638	1049623	0.82	47.0	78.5	65.5	119	27.7
1/2	13	6.8	1049647	1049634	1.78	60.7	97.3	83.3	149	36.1
5/8	16	10.3	1049656	1049643	3.18	67.8	115	97.8	179	44.5

* Ultimate Load is 4 times the Working Load Limit.

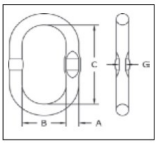


Crosby

GRADE 100 CHAIN

A-1343

A-1343
Welded Master Link



- Alloy Steel — Quenched and Tempered.
- Individually Proof Tested to values shown, with certification.
- Design Factor of 5 to 1.
- Proof Tested with 70% inside width special fixtures sized to prevent localized point loading per EN 16774
- Each main link is marked with Product Identification Code (PIC) for material traceability, Grade, CE, chain size and the "CG" (Crosby Group).
- A-1343 master links are type approved to DNV Certification. Notes 2.7-1-Offshore Containers. These Crosby master links are 100% proof tested and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Engineered Flat for use with S-1325A coupler link.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.

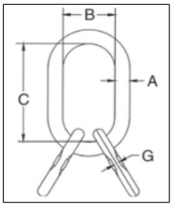
A-1343 Stock No. S.C.	Weight Each (kg)	For use as Grade 100 Chain Sling		For use as Grade 80 Chain Sling		WLL (t)	Proof Load (t)	Dimensions (mm)			
		Single Leg Chain Size (mm)	Double Leg Chain Size (mm)	Single Leg Chain Size (mm)	Double Leg Chain Size (mm.)			A	B	C	G
1247051	0.36	6, 7	6, 7	6, 7, 8	6, 7, 8	3.2	8.0	13	160	120	6.5
1247087	0.84	8, 10	8	8, 10	8	4.1	10.3	17	90	160	8.5
1247096	1.06	10, 13	10	10, 13	10	6.7	16.8	19	90	160	8.5
1247122	2.34	10, 13	10	10, 13	10	7. 0	1 7. 5	22	145	275	10.5
1247120	1.63	10	10	13	13	8.8	22.0	22	100	180	10.5
1247126	3.04	13	-	13, 16	13	8.9	22.2	25	145	275	13.5
1247124	2.41	13, 16	13	16	16	11. 5	28.8	25	115	210	13.5
1247133	3.86	13, 16	13	16	16	13.0	32.5	28	145	275	13.5
1247142	4.82	16	16	19, 20	19, 20	1 7. 0	42.5	32	145	275	16.7
1247151	6.88	20	18, 20	20, 22	20, 22	24.0	60.0	36	155	285	-
1247163	7.31	22, 23	22, 23	23, 26	23, 26	31.5	78.8	40	140	270	-
1247164	12.89	26	26	26	26	38.3	95.7	45	180	340	-
1247166	19.12	26	26	32	32	45.0	112.5	51	215	390	-
1247175	25.10	32	32	32	32	67.0	163.3	55	203	406	-

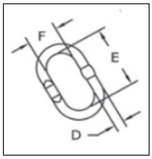
GRADE 100 CHAIN

A-13466 Welded Masterlink

A-1346
Welded Master Link Assembly

- Alloy Steel — Quenched and Tempered.
- Individually Proof Tested to values shown, with certification.
- Design Factor of 5 to 1.
- Proof Tested with 70% inside width special fixtures sized to prevent localized point loading per EN 1677-4
- Each main link is marked with Product Identification Code (PIC) for material traceability, Grade, CE, chain size and the "CG" (Crosby Group). Each sublink is marked with traceability code.
- A-1346 master links are type approved to DNV Certification. Notes 2.7-1- Offshore Containers. These Crosby master links are 100% proof tested and impact tested. The tests are conducted by Crosby and 3.1 test certification is available upon request.
- Engineered Flat for use with S-1325A coupler link.
- Meets or exceeds all requirements of ASME B30.26 including identification, ductility, design factor, proof load and temperature requirements. Importantly, these links meet other critical performance requirements including fatigue life, impact properties and material traceability, not addressed by ASME B30.26.





A-1346 Stock No. S.C.	Weight Each (kg)	Grade 100 Chain Sling Three / Four Legs Chain Size	Grade 80 Chain Sling Three / Four Legs Chain Size	WLL (t)	Proof Load (t)	Dimensions (mm)							Engineered Flat Size for S1325A
						A	B	C	D	E	F	G	
1256865	1.09	6	6	3.2	8.0	13	60	120	13	60	120	6.5	6
1256868	1.57	6	6,7	4.1	10.3	17	90	160	13	60	120	6.5	6,7
1256874	1.79	6.7	7	4.2	10.6	19	90	160	13	60	120	6.5	7,8
1256878	3.30	8	10	7. 0	17.5	22	100	180	17	90	160	8.5	10
1256880	4.06	8	10	7. 0	17.5	22	145	275	17	90	160	8.5	10
1256876	3.81	10	10	8.5	21.2	22	100	180	19	90	160	8.5	10
1256882	4.58	10	10	8.9	22.3	25	115	210	19	90	160	8.5	10
1256892	5.19	10	10	8.9	22.3	25	145	275	19	90	160	8.5	10
1256917	7.09	13	13	14.5	36.3	28	145	275	22	100	180	10.5	13
1256926	9.64	13	16	17.0	42.5	32	145	275	25	115	210	13.5	16
1256929	12.69	16	16	23.6	59.0	36	155	285	28	110	190	13.5	16
1256930	18.41	16	9,2	28.1	70.3	40	140	270	32	145	275	16.7	-
1256953	26.60	9.20	22	38.3	95.8	45	180	340	36	155	285	-	-
1256958	35.50	22.23	26	45.0	112.5	51	215	390	40	140	270	-	-
1256973	61.05	26	32	67.0	167.5	55	203	406	51	215	390	-	-

* Ultimate Load is 4 times the Working Load Limit.

Crosby

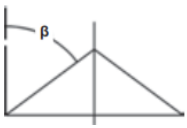
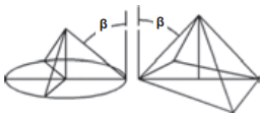
GRADE 80 CHAIN

Spectrum 8 Alloy Chain

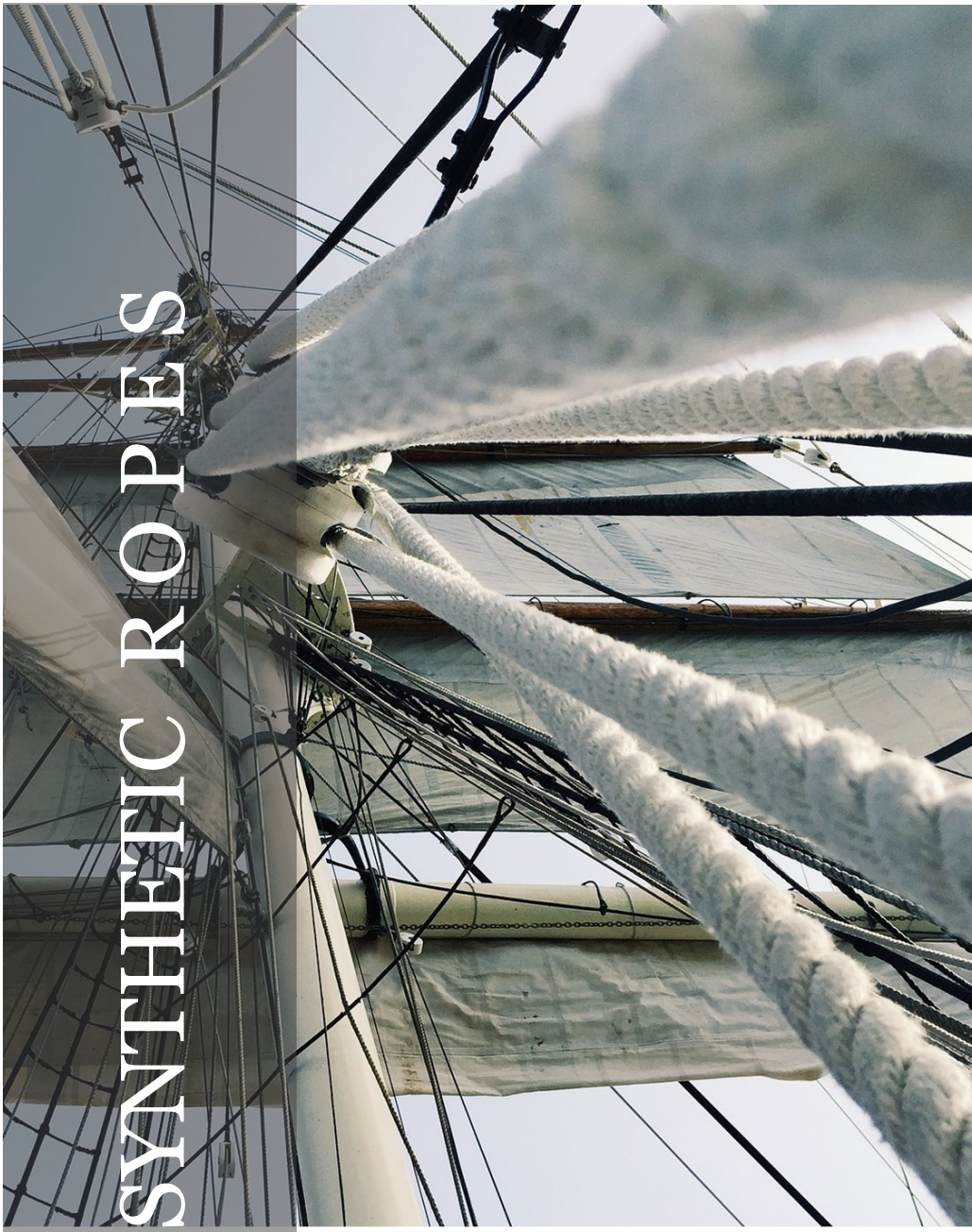
- Alloy Steel.
- Heat Treated.
- Permanently embossed with CG (Crosby Group) and 10 (Grade).
- Finish - Black rust preventative coating.
- Proof Tested at 2 times the Working Load Limit with certification
- Standard container - fiber drum

Chain Size (mm)	Spec. 8 Drum Stock No.	Meters Per Drum	Dimensions (mm)	Working Load Limit (t)*	Weight Per Meter (kg)
6	1244915	200	6 x 18	1. 1	0.80
7	1244985	200	7 x 21	1. 5	1.05
8	1245055	200	8 x 24	2.0	1.25
10	1245125	200	10 x 30	3.2	2.20
13	1245195	150	13 x 39	5.3	3.80
16	1245265	100	16 x 48	8.0	5.70
18	1245305	50	18 x 54	10.0	7.30
19	1245356	50	19 x 57	11. 2	8.03
20	1245396	50	20 x 60	12.5	9.00
22	1245426	50	22 x 66	15.0	10.90
23	1245453	50	23 x 69	16.0	10.90
26	1245496	50	26 x 78	21.2	15.20
32	1245514	20	32 x 96	31.5	23.00

* Proof tested at 2 times Working Load Limit. Ultimate Load is 4 times the Working Load Limit.

Nominal size of sling				

(in.)	(mm)	Single Leg	Two Leg Slings		Triple and Four-Leg Slings		Choker Hitch *t
			o°<ß≤45t	45°<ß≤60t	o°<ß≤45t	45°<ß≤60t	
7/32	6	1,12	1.60	1.12	2.36	1.70	0.90
1/4 (9/32)	7	1.50	2.12	1.50	3.15	2.24	1.20
5/16	8	2	2.80	2	4.25	3	1.60
3/8	10	3.15	4.25	3.15	6.70	4.75	2.50
1/2	13	5.30	7.50	5.30	11.20	8	4.25
5/8	16	8	11.20	8	17	11.80	6.40
3/4	19	11.20	16	11.20	23.60	17	9
7/8	22	15	21.20	15	31.50	22.40	12
1	27	21.20	30	21.20	45	31.50	17
1-1/4	32	31.50	45	31.50	67	47.50	25.20



SYNTHETIC ROPES

Polypropylene Rope I Nylon Rope I Manila Rope

Rigspek Perkasa only caries Synthetic Ropes made out of high quality synthetic fiber. The rigorous compliance with the international guidelines and technical standards and to be ratified and certified by main classification entities. Synthetic Ropes types, ranging from 6mm to 112mm, include Polypropylene Mono-filament & multi-filament, Nylon Multi-filament, high performance Polyolefin Rope, Mixed Rope and Manila Ropes.

Rigspek Perkasa works only manufacturers of the best quality products of fibre rope. They are selected based on their extensive research knowledge, management innovation and practical field experience supported by then latest technology in the configuration, construction and manufacture. By congregating the forerunners in the industry of synthetic ropes, we are able to offer a cost effective solution when depth or weight becomes a problem. All synthetic ropes performance is assessed by conducting tensile strength and fatigue test and evaluation of the breaking load allowances.

All the fibre used for the production also undergo standard quality test to ensure tension, stretch specification, resistance to abrasion and UV radiation. Ultimate result is total transformation of synthetic fibres into strong ropes with both its useful life and fatigue resistance extended.

To extend the useful life and productivity of your synthetic ropes, always remember to avoid:

- Placing the ropes near chain and wire rope
- Friction, especially over sharp edges
- Contact or even exposure to any kind of heat
- Contact with chemicals of any type and rust
- Suspending loads for extended periods of time
- Knotting ropes to join or hold, use splice instead
- Storing and heated surface, especially metal
- Sudden tension when the rope is in use such as shock and dynamic load.

HIGH TENACITY POLYOLEFIN FIBRE ROPE

TOUGH ROPE FOR TOUGH APPLICATIONS

Our products commitment to bringing innovation to the sub-mersible pumps business

3-STRAND ROPES			
DIA. (mm)	Cir. (Inch)	Weight Kgs./220 m	Minimum Breaking Load KgF (Kilogram-force)
4	1/2”	3.70	305
6	3/4”	8.34	675
8	1”	15.00	1215
10	1-1/8”	22.70	1845
12	1-1/2”	33.00	2700
14	1-3/4”	45.40	3690
16	2”	58.00	4320
18	2-1/4”	73.90	5490
20	2-1/2”	90.90	6840
22	2-3/4”	110.20	8370
24	3”	128.20	9450
28	3-1/2”	177.50	13050
32	4”	230.00	16650

12-STRAND ROPES		
DIA. (mm)	Weight Kgs./220 m	Minimum Breaking Load KgF (Kilogram-force)
10	10.01	1875
16	25.50	4600
24	57.20	10000
32	101.20	17100
40	158.40	26300
48	229.00	37500
56	312.40	53100
64	407.00	68700
72	514.80	86000
80	638.00	105800

POLYPROPILENNE ROPE

HIGH TENACITY POLYOLEFIN FIBRE ROPE

TOUGH ROPE FOR TOUGH APPLICATIONS

Our Product commitment to bringing innovation to the submersible pumps business

Light weight,
High Breaking Strength

ADVANTAGE

- Comes with accurate meter marking
- Lightweight and soft: easy to use with Submersible Pumps
- High strength and shock resistant
- Resistant to abrasion and deterioration
- UV resistant
- Unaffected by hard water
- Minimal elongation

NOTE

- Standard coil length : 220 mtrs
- Safety factor: 1/6th of minimum breaking load
- Minimum Breaking Load (MBL) should never be considered as the safe working load of the rope
- All values listed are as per results confirmed in accordance to test procedures IS 7071

8-STRAND ROPES			
DIA. (mm)	**Cir. (Inch)**	**Weight Kgs./220 m**	**Minimum Breaking Load KgF (Kilogram-force)**
40	5	158.00	26300
48	6	229.00	37500
56	7	312.00	53100
64	8	407.00	68700
72	9	515.00	86000
80	10	638.00	105800
96	12	917.00	150200
104	13	1254.00	203500
120	15	1430.00	232800
144	18	2068.00	324800

KOREAN SYNTHETIC ROPES

8-STRAND ROPES						
			POLYPROPYLENE (MONOFILAMENT)		POLYPROPYLENE (MULTIFILAMENT)	
(mm)	(inch)	Cir. (Inch)	Weight Kgs./200 m	Minimum Breaking Load (Ton)	Weight Kgs./200 m	Minimum Breaking Load (Ton)
28	1-1/8	3-1/2	74	10.10	75	10.00
32	1-5/16	4	97	12.80	96	13.00
36	1-7/16	4-1/2	122	16.10	124	16.00
40	1-5/8	5	143	22.30	151	20.00
44	1-3/4	5-1/2	184	28.00	185	24.00
48	1-15/16	6	208	31.30	219	28.00
52	2-1/8	6-1/2	244	36.20	256	33.00
56	2-1/4	7	274	41.00	298	37.00
60	2-3/8	7-1/2	362	48.50	343	43.00
64	231/2	8	370	54.50	389	49.00
72	2-7/8	9	460	68.00	492	61.00
80	3-1/4	10	580	84.00	609	75.00
88	3—1/2	11	702	100.00	736	90.00
96	3-3/4	12	833	117.00	875	107.00
104	4-1/8	13	998	143.00	1029	122.00
112	4-1/2	14	1197	171.00	1196	141.00

8-STRAND ROPES								
			POLYPROPYLENE (SUPER HIGH DAN)		NYLON		POLYESTER	
(mm)	(inch)	Cir. (Inch)	Weight Kgs./200 m	Minimum Breaking Load (Ton)	Weight Kgs./200 m	Minimum Breaking Load (Ton)	Weight Kgs./200 m	Minimum Breaking Load (Ton)
28	1-1/8	3-1/2	78	14.50	97	18.00	119	16.00
32	1-5/16	4	101	18.50	126	23.00	155	21.00
36	1-7/16	4-1/2	128	23.50	160	29.00	196	26.00
40	1-5/8	5	158	34.00	198	35.00	243	32.00
44	1-3/4	5-1/2	195	39.80	240	42.00	294	38.00
48	1-15/16	6	229	46.00	284	48.50	350	46.00
52	2-1/8	6-1/2	268	53.00	322	56.50	410	54.00
56	2-1/4	7	312	60.60	386	64.00	476	62.00
60	2-3/8	7-1/2	359	68.50	442	72.00	546	73.00
64	231/2	8	407	86.00	504	82.50	622	83.00
72	2-7/8	9	515	106.00	638	102.00	786	103.00
80	3-1/4	10	638	128.00	788	125.00	970	127.00
88	3—1/2	11	772	150.00	945	148.00	1174	152.00
96	3-3/4	12	916	175.00	1136	173.00	1398	181.00
104	4-1/8	13	1071	204.00	1332	205.00	1640	208.00
112	4-1/2	14	1245		1544	225.00	1900	243.00

LOAD MONITORING

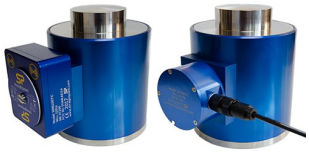
Wireless Dynamometer (Radiolink plus) I Compression Load Cell I Shackle Load Cell I Clamp On Line Tensionmeter (COLT) I Running Line Dynamometer

LOAD MONITORING / LOAD CELL

Load cells convert tension/compression force into measurable electronic output. They allow safe and easy monitoring of strain on rigging systems and compliment to safety standards.

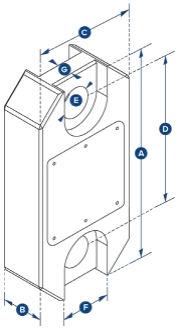
Strain gauge load cells are the most common type of load cell and offer accuracies within 0.03% to 0.25%. They are suitable for almost all industrial applications.

Rigspek Perkasa the authorized distributor of load cells manufactured by Crosby Straighpoint with Advanced technology products and software solutions that improve communication and overall safety awareness. Straighpoint Load Cells has complies with ASME B30.26 and held DNV-GL Type Approved. Users enjoy total system control and flexibility, enhancing the efficiency and safety of their operations.

	
LOAD LINKS	COMPRESSION LOAD CELL / LoadSafe
	
LOAD SHACKLES	TENSION METER
	
RUNNING LINE DYNAMOMETER	MINI WEIGHER

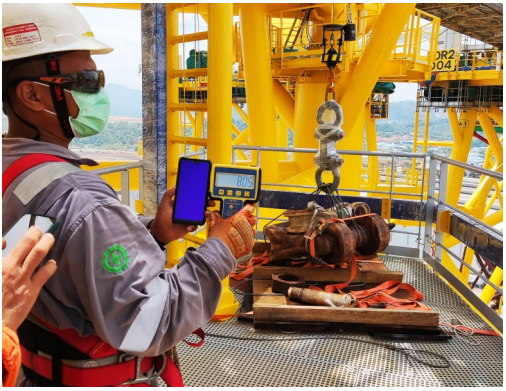
RADIOLINK PLUS

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



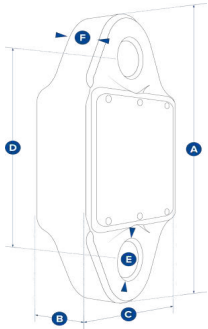
Part Number	RLP1T	RLP2T5	RLP6T5	RLP12T	RLP25T	RLP35T	RLP55T
Capacity	1000kg	2.5te	6.5te	12te	25te	35te	55te
Resolution	0.5kg	0.001te	0.001te	0.002te	0.005te	0.005te	0.01te
Weight	1.5kg	1.5kg	2.4kg	3.7kg	5kg	8.6kg	13kg
Safety Factor	12.1	7:1	7:1	7:1	5:1	5:1	5:1
Battery Type	Handheld-2 x AA / Loadcell 4 x AA						
Battery Life	Handheld-40Hrs / Loadcell 1200Hrs continuous (Loadcell 500hrs if Bluetooth)						
Display Type	240x128 Multiline dot matrix with backlight						
Operating Temp	-10 to +50 °C / 14 to 122˚F						
Accuracy	±0.1% full scale						
Frequency	2.4GHz						
Range	1000 metres / 3280 feet (100m/328ft if Bluetooth)						
Data Rate	3Hz - up to 200Hz can be ordered for dynamic load monitoring applications						
Protection	IP67						
	NEMA6						
Dimension A	204	204	249	305	340	393	424
Dimension B	43	43	43	47	60	75	75
Dimension C	104	104	113	113	115	126	180
Dimension D	146	146	165	193	215	225	230
Dimension ØE	24.5	24.5	38	47.5	55	60	76
Dimension F	48	48	65	Not relevant in this capacity			
Dimension G	19	19	32				
Crosby SHK	G2130						G2140
Loading Pin Ø	19	19	25	35	51	57	57

Part Number	RLP75T	RLP100T	RLP150T	RLP200T	RLP250T	RLP300T	RLP500T
Capacity	75te	100te	150te	200te	250te	300te	500te
Resolution	0.01te	0.05te	0.05te	0.1te	0.1te	0.1te	0.1te
Weight	16kg	34kg	46kg	82kg	82kg	118kg	193kg
Safety Factor	5:1	5:1	4:1	5:1	4:1	5:1	5:1
Battery Type	Handheld-2 x AA / Loadcell 4 x AA						
Battery Life	Handheld-40Hrs / Loadcell 1200Hrs continuous (Loadcell 500hrs if Bluetooth)						
Display Type	240x128 Multiline dot matrix with backlight						
Operating	-10 to +50 °C / 14 to 122˚F						
Accuracy	±0.1% full scale						
Frequency	2.4GHz						
Range	1000 metres / 3280 feet (100m/328ft if Bluetooth)						
Data Rate	3Hz - up to 200Hz can be ordered for dynamic load monitoring applications						
Protection	IP67						
	NEMA6						
Dimension A	470	608	670	700	700	806	930
Dimension B	75	99	99	144	144	150	150
Dimension C	202	255	303	350	350	426	570
Dimension D	260	320	360	350	350	350	450
Dimension ØE	76	109	109	145	145	160	200
Dimension F	Not relevant in this capacity						
Dimension G							
Crosby Shackle	G2140						G2160
Loading Pin Ø	70	83	95	121	127	152	180



BLUE LINK

Designed to replace outdated mechanical products still in the field, this 14,300lb (6500kg) dynamometer, the BlueLink, is the latest Crosby Straightpoint product to feature proprietary Bluetooth wireless technology.



The Bluetooth signal effortlessly connects to any IOS or Android smartphone that has installed, providing the operator with a wireless range of up to 328ft or 100m. This allows them to stand in a safe position from the load with no requirement to read a load on the loadcell itself. The app also allows the operator to log data versus time, or on events such as over- or under-load. An adjustable alarm will alert the operator on their smartphone if any overload is occurring.

Rigged using industry standard Crosby G2130 Shackles, the BlueLink has been designed to minimize headroom (6.14 in or 156mm from eye to eye). With a design factor of over 500%, its compact lightweight design does not sacrifice on strength.

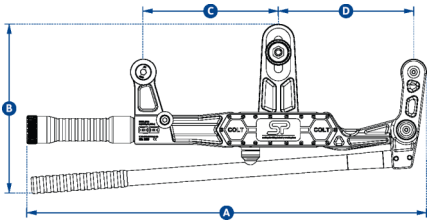
Constructed from high-quality aerospace grade aluminum, which is then hard-anodized, BlueLink features an advanced internal design structure. This design provides the product with an unrivaled strength to weight ratio. The use of a separate internal sealed enclosure administers the loadcell's electronic components with IP67 or NEMA6 environmental protection, even with the battery cover plate missing.
All these features makes it an industry-leading compact dynamometer, even more suitable for use in the harshest industrial or leisure environments.

The BlueLink is powered by four standard AA alkaline batteries that provide in excess of 500 hours transmission time. Its internal antenna ensures safe transmissions of loads to an accuracy of ±0.2% FS.

Part Number:	BLD6.5t
Capacity	6.5te
	14,300lbs
Resolution	0.001te
	2lb
Weight	1.5kg
	3.3lbs
Safety Factor	5:1
Battery Type	4 x AA alkaline batteries
Battery Life	500hrs
Operating Temp	-10°c to +50°c / 14° to 122°F
Accuracy	+/- 0.2% of full scale
Range	100 metres / 328 feet
Data Rate	3Hz
Protection	IP67 / NEMA6
Dimension A	224
	8.82
Dimension B	44
	1.73
Dimension C	113.6
	4.47
Dimension D	156
	6.14
Dimension ØE	27.5
	1.08
Dimension F	26
	1.02

Crosby | straightpoint know the load

Clamp On Line Tensiometer

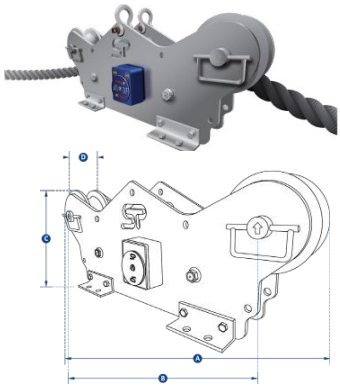


- Lightweight wire rope tension meter for fast and accurate measurement of tensions up to 11,000lb or 5000 kg and up to 1 in or 25mm diameter.
- Constructed from aerospace grade aluminum.
- Unlimited wire rope calibration database via Android or iOS app.
- Built-in magnetic smart device holder for on board display.
- Main swivel joints fitted with high-quality bearings.
- Lever ratio of 5.3:1 allows effortless, safe, clamping onto pre-tensioned wire ropes.
- Wireless Bluetooth 4.2 enabling operator to stand a safe distance away, up to 100 m or 328 ft.
- Quick intuitive adjustable center sheave makes changing wire rope sizes fast and easy.
- No easily broken external antenna.
- High waterproof resistant design IP67 or NEMA6 for all weather use.
- Long battery life of 1000 hrs operational time.
- As the library of wire rope diameters and constructions is increased each app user will benefit when they update free of charge.

Partt Number	COLT5T
Max load	5000kg
	11,000lbs
Resolution	10kg
	20lb
Units	kg, lbs, tonne & kN
Min wire rope ø	ø5mm
	ø3/16"
Max wire rope ø	ø25mm
	ø1"
Max line reduction	5mm with ø10mm wire rope
	7/32" with ø3/8" wire rope
Wire rope database	Infinite via Android or iOS app
Weight	3.5kg
	7.7lbs
Battery Type	2 x 'C' cell batteries
Battery life	1000 hours Bluetooth transmission time
Operating temperature	-25c to +70c
	-13F to 158F
Protection	IP67
	NEMA 6
Accuracy	±3% full scale if wire rope ☐ & construction known
Communication	Bluetooth 4.2
Supported OS version	Android 4.4 onwards & iOS 8 onwards
Dimension A	589 mm
Dimension B	254mm
Dimension C	200mm
Dimension D	200mm

Running Line Dynamometer

WIRELESS

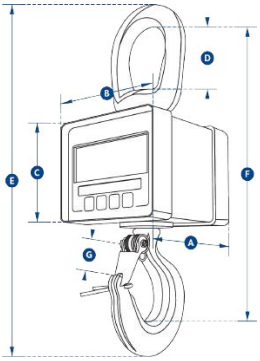


The TIMH range is a wireless running line tensiometer or RLTM built with dockside, marine, offshore, towage, and salvage applications in mind.

- Fully constructed from corrosion-resistant stainless steel.
- Large range of capacities to 150t and wire rope diameters up to 89mm or 3½ in.
- Measures tension force at speeds up to 20m/min or 65ft/min.
- Five-wheel design, improving accuracy.
- Industry leading battery life of 1200 hrs (wireless).
- Maintenance-free heavy duty bushes.
- Options for lineout and speed available.
- Software available to data log and monitor or analog outputs.
- Cabled system or wireless bluetooth option are available and is supplied with a free HHP app for iOS and Android.
- IP67 or NEMA6 Loadpin.
- Design validated by FEA.

Part Number	MTIM-H10TRD	TIM-H10TRD	TIM-H25TRD	TIM-H56TRD	TIM-H80TRD	TIM-H150TRD
Capacity	10te	10te	25te	56te	80te	150te
Resolution	0.01te	0.01te	0.02te	0.05te	0.1te	0.2te
Wire rope Ø mm	4-19mm	13-19mm	16-26mm	28-38mm	40-52mm	52-89mm
	5/32"-3/4"	1/2" - 3/4"	5/8" - 1"	1 1/8" - 1 1/2"	1 5/8" - 2"	2" - 3 1/2"
Weight	9kg	90kg	86kg	81kg	76kg	230kg
Battery Type	Wireless version 4x AA alkaline batteries					
Battery Life	Wireless version 1200hrs					
Operating Temp	-10 to +50 °C					
	14 to 122 °F					
Accuracy	2% F.S.					
Range	Wireless version 700m					
	Wireless version 2300 ft					
Protection	IP67					
Max Speed	50m per minute	20m per minute				
	164ft per minute	65 feet per minute				
Line out and speed	via SW-MWLC software					
Dimension A	422mm	880mm				1250mm
Dimension B	328mm	700mm				1050mm
Dimension C	152mm	330mm				416mm
Dimension D	36mm	110mm				153mm

MINI WEIGHER PLUS



- Compact size and lightweight.
- Capacities from 100kg to 5t.
- Large 25mm or 1 in LCD display.
- High accuracy.
- Selectable Units te, lbs, kN, kg.
- Highest resolution of any compact digital crane scale on the market.
- Peak hold.
- Preset tare.
- Overload counter.
- 90dB audible set point alarm.
- S-485 serial output.
- Corrosion-resistant finish.

Optional connection to Crosby SP's Handheld Plus – Crosby SP Part Nos. HHP 2789030

Part Number	MWP100KG	MWP250KG	MWP500KG	MWP1T	MWP2T	MWP5T
Crosby Part	2789055	2789057	2789059	2789056	2789058	2789060
Capacity	100 kg	250 kg	500 kg	1,000 kg	2 te	5 te
Resolution	0.05 kg	0.1 kg	0.2 kg	0.5 kg	0.001 te	0.001 te
Units	t, kg, kN, lb					
Weight	1.5 kg	1.5 kg	1.5 kg	1.5 kg	3.1 kg	8.7 kg
Safety Factor	10:1	5:1	5:1	5:1	5:1	5:1
Protection	IP65 / NEMA4x					
Battery Type	9v PP3					
Battery Life	80 hrs continuous					
Display Type	6 digit 25 mm LCD / 6 digit 1 in LCD					
Operating Temp	-10 to +50 °C / 14 to 122°F					
Accuracy	+/- 0.1% FS					
Dimension A	81	81	81	81	117	136
Dimension B	112	112	112	112	112	112
Dimension C	81	81	81	81	92	92
Dimension D	33	33	33	33	43	62
Dimension E	222	222	222	222	283	349
Dimension F	183	183	183	183	238	286
Dimension G	22	22	22	22	28	42

RP GEARS (Marine Hardware)

GEARS
Rigging & Marine Hardware

Anchor I Anchor Chain & Fittings

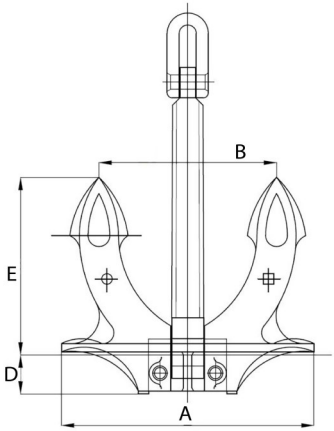
ANCHOR

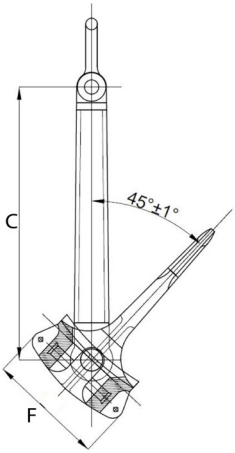
Rigspek Perkasa stock hold inventory of Marine Anchors, ranging from 25 kg to 25,000 kg. our marine anchors are designed with applications to vessel mooring operations whilst Offshore Anchors' designs are tailored to deep-water environmental characteristic allowing for enhanced accuracy and precision of installation

	
Hall Type Stockless Anchor	Spek Anchor
	
Baldt Type Anchor	AC14 H.H.P Stockless anchor
	
Fabricated Delta Anchor	Pool-N Anchor

GEARS
Rigging & Marine Hardware

Type Hall Stockless Anchor





WEIGHT Kg	A mm	B mm	C mm	D mm	E mm	F mm
100	540	378	750	91	395	230
125	580	405	810	97	425	248
150	612	432	855	104	452	264
180	650	459	910	111	480	280
240	720	510	1010	122	530	310
280	760	534	1060	130	560	325
300	770	540	1080	131	570	331
320	790	560	1100	132	580	338
360	820	580	1150	139	610	353
420	860	610	1200	146	640	370
480	900	640	1260	153	670	378
520	920	652	1295	158	680	400
570	950	760	1330	162	700	408
660	1000	710	1440	170	740	430
780	1060	750	1480	180	780	456
850	1090	770	1530	185	800	468
900	1110	780	1550	189	820	477
1020	1160	820	1620	197	860	500
1140	1200	850	1680	204	890	520

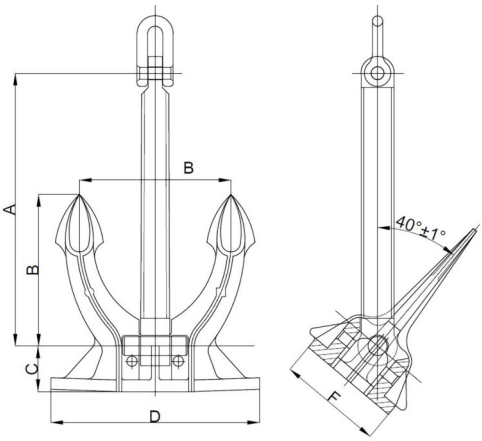
WEIGHT Kg	A mm	B mm	C mm	D mm	E mm	F mm
1290	1250	880	1750	212	920	540
1440	1300	920	1820	221	960	560
1590	1340	950	1880	228	990	580
1740	1380	980	1930	235	1020	600
1920	1430	1010	2000	243	1060	620
2100	1470	1040	2060	250	1090	640
2280	1510	1070	2110	257	1120	650
2460	1550	1100	2170	264	1150	870
2640	1590	1120	2230	270	1180	690
2850	1630	1150	2280	277	1210	700
3060	1670	1180	2340	284	1240	720
3300	1710	1210	2390	291	1270	740
3540	1750	1240	2450	298	1290	750
3780	1790	1260	2510	304	1320	770
4050	1830	1290	2560	311	1350	790
4320	1870	1320	2620	318	1380	800
4590	1910	1350	2670	325	1410	820
4890	1950	1380	2730	332	1440	840

GEARS
Rigging & Marine Hardware

Type Hall Stockless Anchor

WEIGHT Kg	A	B	C	D	E	F
	mm	mm	mm	mm	mm	mm
5250	2000	1410	2800	340	1480	860
5610	2040	1440	2860	347	1510	880
6000	2090	1480	2930	355	1540	900
6450	2140	1510	3000	364	1580	920
6900	2190	1550	3070	372	1620	940
7350	2240	1580	3140	380	1650	960
7800	2280	1610	3190	388	1680	980
8300	2330	1650	3260	396	1720	1000
8700	2370	1670	3320	403	1750	1020
9300	2420	1710	3390	411	1790	1040
9900	2470	1740	3460	420	1820	1060
10500	2520	1780	3530	428	1860	1080
11100	2570	1820	3600	437	1900	1100
11700	2610	1840	3650	444	1930	1120
12300	2650	1870	3710	450	1960	1140
12900	2690	1900	3770	457	1990	1160
13500	2740	1940	3840	466	2020	1180
14100	27801	1960	3890	473	2050	1200
14700	2820	1990	3950	479	2080	1210
15400	2860	2020	4000	486	2110	1230
16100	2900	2050	4060	493	2140	1250
16900	2950	2080	4130	500	2180	1270
17800	3000	2120	4200	510	2210	1290
18800	3060	2160	4280	520	2260	1320
20000	3120	2200	4370	530	2300	1340

SPEK Stockless Anchor



Nominal	Size(mm)				
(KG)	A	B	C	D	F
100	672	373	112	515	250
150	770	428	128	590	290
180	846	470	140	640	300
240	900	500	150	690	358
300	990	550	166	760	398
360	1065	600	180	828	431
420	1080	600	180	828	446
500	1170	650	196	900	446
570	1170	650	196	900	486
660	1260	700	210	962	486
780	1355	750	225	1032	547
900	1440	800	240	1100	573
1020	1530	850	252	1170	591
1140	1620	900	268	1240	620
1290	1710	900	268	1240	640
1440	1710	950	279	1300	671
1590	1710	950	279	1378	689
1740	1800	1000	300	1454	704

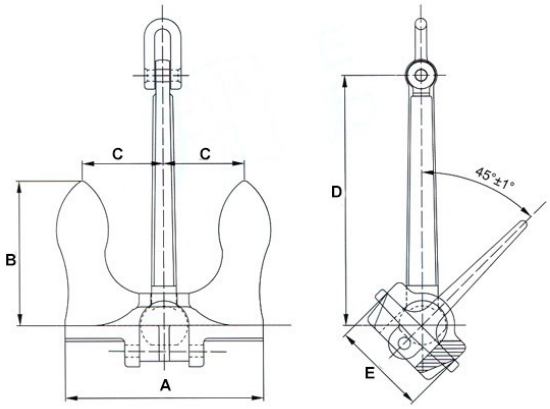
Nominal	Size(mm)				
(KG)	A	B	C	D	F
1920	1850	1050	312	1454	717
2100	1890	1050	312	1454	736
2280	2010	1050	312	1514	764
2460	2010	1100	324	1584	794
2640	2070	1150	352	1584	804
2850	2070	1150	352	1650	820
3060	2160	1200	360	1650	834
3300	2155	1200	360	1650	834
3540	2350	1200	360	1850	880
3780	2430	1350	393	1850	917
4050	2430	1350	393	1926	930
4320	2520	1400	413	1926	930
4590	2520	1400	413	1926	931
4890	2520	1400	413	2000	954
5250	2610	1450	414	2000	964
5610	2610	1450	414	2060	981
6000	2700	1500	446	2060	1006
6450	2700	1500	446	2138	1028

GEARS
Rigging & Marine Hardware

SPEK Stockless Anchor

Nominal Weight	Size(mm)				
(KG)	A	B	C	D	F
6900	2790	1550	456	2138	1034
7350	2790	1550	456	2138	1062
7800	2920	1550	456	2332	1126
8300	3060	1700	510	2332	1156
8700	3060	1700	510	2332	1169
9300	3060	1700	510	2332	1188
9900	3160	1700	510	2332	1188
10500	3190	1770	531	2440	1212
11100	3290	1770	531	2440	1237
11700	3390	1770	531	2440	1279
12300	3440	1910	573	2632	1279
12900	3440	1910	573	2632	1316
13500	3440	1910	573	2632	1353
14100	3440	1910	573	2632	1369
14700	3690	2050	615	2824	1369
15400	3690	2050	615	2824	1387
16100	3690	2050	615	2824	1387
16900	3820	2120	636	2922	1415
17800	3950	2120	636	2922	1431
18800	3950	2190	657	3018	1461
20000	4070	2190	657	3018	1493

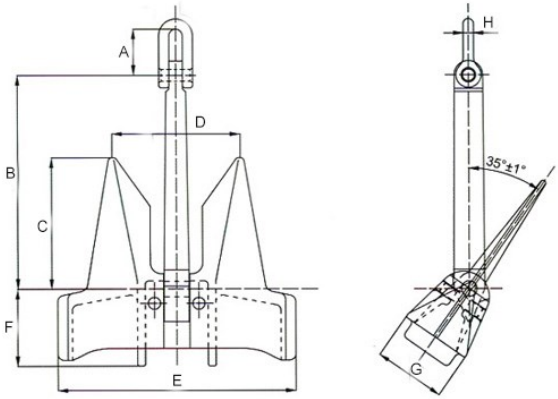
Baldt Stockless Anchor



Weight /Mass	Size(mm)				
(KG)	A	B	C	D	E
200	457	366	190.5	685	241
300	590	442	230	812	296
400	654	482	250	812	330
500	673	530	287.5	900	356
750	770	584	308	965	407
1000	854	640	347.5	1067	457
1250	923	720	370	1165	475
1500	1005	748	392	1232	515
2000	1092	848	430	1370	558
2100	1092	848	436	1370	558
2500	1136	848	448	1473	568
3000	1194	912	483	1625	648
3500	1340	1003	500	1625	698
4000	1354	1054	518	1734	705
4500	1440	1066	563	1794	735
5000	1460	1130	588	1930	762
6000	1613	1194	641.5	1930	844
6300	1613	1194	641.5	1930	844

Weight	Size(mm)				
(KG)	A	B	C	D	E
7000	1691	1263	668	2082	882
8000	1691	1276	668	2265	894
9000	1784	1314	695	2438	924
10000	1918	1470	725	2438	990
11000	1918	1473	778	2438	990
12000	1950	1473	778	2438	1016
13000	1949	1473	799	2489	1016
14000	2045	1524	818	2616	1118
15000	2184	1600	875	2616	1168
16000	2184	1651	875	2738	1168
17200	2184	1660	875	2738	1222
18000	2240	1667	888	2850	1232
20000	2440	1866	990	2840	1270
25000	2616	1968	990	3048	1365
30000	2794	2096	1052	3251	1454
35000	2946	2210	1107	3429	1524
40000	3073	2311	1157	3556	1600
45000	3200	2388	1203	3733	1651
50000	3327	2515	1246	3860	1727

AC14 H.H.P Stockless Anchor



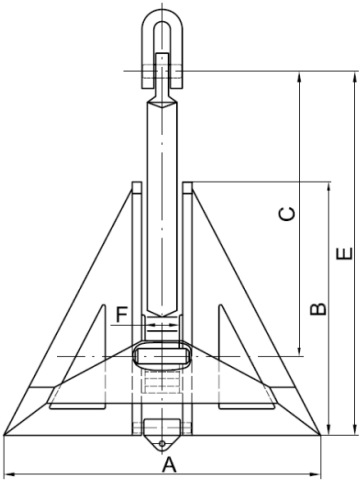
Weight/ Mass	Size(mm)							
(KG)	A	B	C	D	E	F	G	H
56	115	612	376	298	555	109	170	24
100	130	745	458	364	675	130	200	28
180	160	909	558	442	822	162	252	36
300	192	1075	660	524	975	194	298	45
428	215	1213	745	590	1098	215	336	48
675	255	1410	868	690	1278	250	390	60
750	255	1450	878	700	1315	256	396	60
910	255	1560	957	760	1410	273	430	60
970	280	1592	978	775	1445	284	440	62
1080	280	1650	1014	805	1495	294	455	62
1305	310	1760	1082	858	1595	313	485	68
1440	310	1818	1118	885	1645	324	505	68
1710	340	1925	1184	940	1745	343	532	74
1845	340	1975	1215	965	1785	347	546	74
2100	380	2065	1268	1005	1865	354	570	82
2475	385	2175	1340	1062	1970	385	605	82
2835	410	2265	1393	1105	2055	399	625	90
3550	415	2455	1508	198	2225	438	680	100

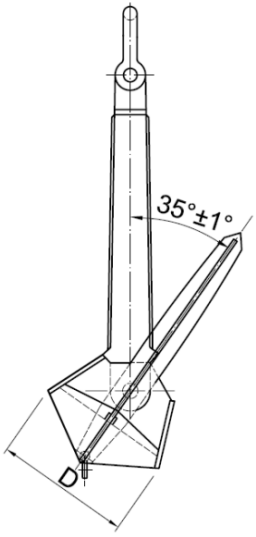
GEARS
Rigging & Marine Hardware

AC14 H.H.P Stockless Anchor

Weight/ Mass	Size(mm)							
(KG)	A	B	C	D	E	F	G	H
3940	450	2540	1562	1240	2300	453	705	100
4500	450	2655	1632	1295	2405	473	735	100
4840	480	2720	1670	1330	2465	490	755	110
4610	500	2858	1758	1396	2590	509	790	110
6000	500	2922	1796	1426	2646	515	810	110
6900	540	3062	1884	1496	2775	545	848	117
7800	600	3190	1962	1558	2890	569	884	130
8300	600	3256	2002	1590	2950	574	902	130
9300	630	3382	2080	1652	3064	606	936	135
9900	640	3452	2124	1686	3128	616	956	140
10575	660	3523	2166	1720	3192	628	976	145
11100	660	3589	2166	1720	3192	628	976	145
11700	680	3650	2245	1782	3308	648	1010	150
12300	700	3683	2260	1794	3330	655	1018	155
12900	700	3772	2320	1842	3418	670	1044	155
13500	730	3830	2355	1870	3470	682	1060	160
14100	730	3885	2389	1896	3520	689	1076	160
14700	730	3940	2423	1924	3570	700	1090	160
15400	730	4002	2461	1954	3626	710	1108	160
16100	770	4062	2498	1982	3680	721	1125	170
16900	700	4128	2538	2016	3740	721	1144	170
17800	800	4200	2583	2050	3806	725	1162	180
18800	800	4277	2630	2088	3875	729	1185	180
20000	820	4350	2694	2101	3945	729	1185	199
25000	848	5046	3125	2437	4577	846	1375	230

Fabricated Delta Anchor





Weight /Mass	Size(mm)						
(KG)	A	B	C	D	E	F	Proof Load kN
500	1100	1449	979	1224	230	483	143
1000	1600	2107	1424	1780	240	680	252
1020	1600	2107	1424	1780	240	688	256
1500	2000	2634	1780	2225	246	846	349
2000	2100	3765	1869	2336	270	886	434
1500	2200	2897	1958	2448	280	937	509
3000	2300	3029	3047	2560	310	980	577
3060	2380	3109	2047	2560	310	1040	584
3500	2580	3397	2296	2870	310	1094	635
4000	2700	3555	2403	3004	318	1141	686
4500	2815	3707	2505	3132	324	1186	734
5000	3020	3977	2688	3360	330	1267	776
5500	3120	4109	2777	3471	338	1307	826
6000	3210	4227	2857	3571	342	1343	875
6500	3295	4339	2933	3666	348	1376	925
7000	3380	4451	3008	3760	370	1409	969
8000	3530	4648	3142	3927	385	1478	1048
9000	3670	4833	3266	4083	390	1533	1109
10000	3800	5004	3382	4228	400	1585	1172
12000	4040	5320	3876	4845	475	1823	1298
15000	4355	5735	3876	4845	475	1823	1517
17000	4540	5978	4041	5051	486	1896	1651
18000	4630	6097	4121	5151	792	1932	1717
20000	4795	5314	4263	5334	502	1997	1830
220000	4950	6518	4406	5507	512	2058	1953

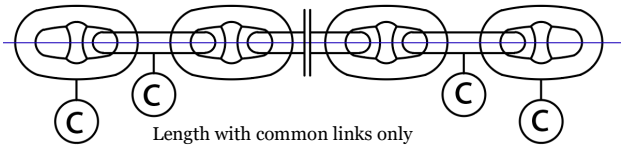
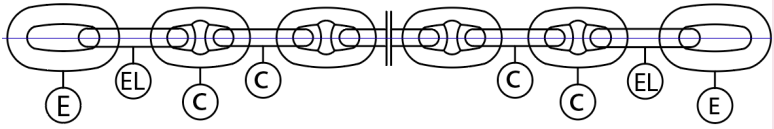
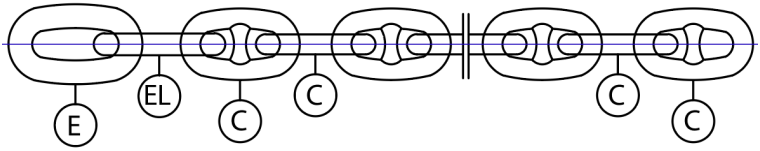
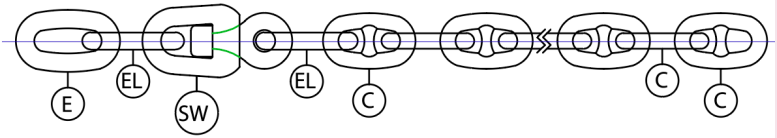
RP GEARS ANCHOR CHAIN & FITTINGS

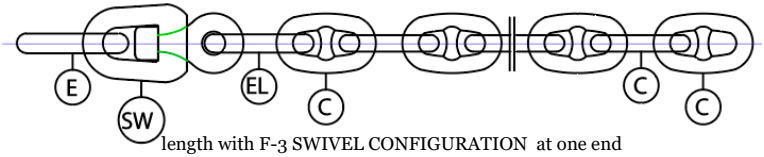
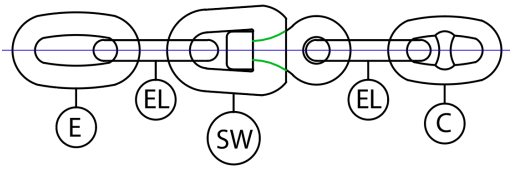
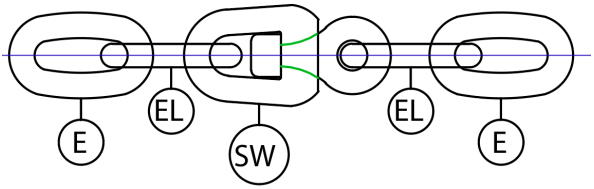
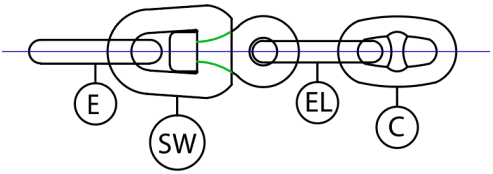
The design, manufacture and testing of stud link anchor chain cables and accessories comply with the class society, depending upon the chain cable stell used for manufacture, stud link chain cables are subdivided into three grades, U1, U2, U3, but in practice, U2 and U3 is used widely.

All Materials used for chain cables and accessories are to be supplied by works approval by class society. For grade 3 steel bars, detailed material specification including manufacturing procedure, de-oxidation practice, specified chemical compostion, heat treatment and mechanical properties required

PT RIGSPEK PERKASA supply all kinds of anchor chains, Grade U2 and Grade U3, the size is from 12.5mm to 132mm; Our marine anchor chain is supplied with high quality.

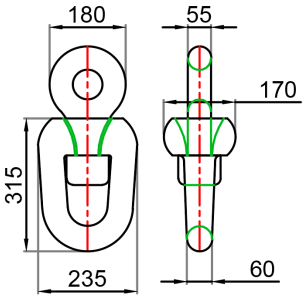
STANDARD ARRANGEMENTS FOR SHIP

L-1 Chain Configuration C X 27.5 m	 Length with common links only
L-2 Chain Configuration E+EL+CX27.5 M+EL+E	 length with enlarged & end link at both ends
L-3 Chain Configuration E + EL + C X 27.5MTR	 length with enlarged & end link at one ends
L-4 Chain Configuration E + EL + SW + EL + C X 27.5MTR	 Length with F-1 SWIVEL CONFIGURATION at one end

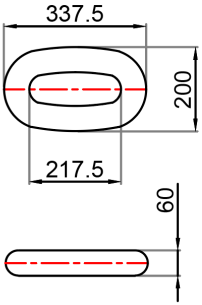
L-5 Chain Configuration E + SW + EL+ C X 27.5MTR	 length with F-3 SWIVEL CONFIGURATION at one end
F-1 Swivel Configuration E+EL+SW+ EL+C	
F-2 Swivel Configuration E+EL+SW+ EL+E	
F-3 Swivel Configuration EL+SW+EL+C	

CHAIN FITTINGS

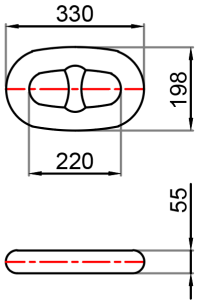
SWIVEL (SW)



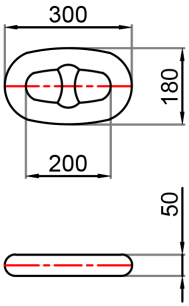
END LINK (E)



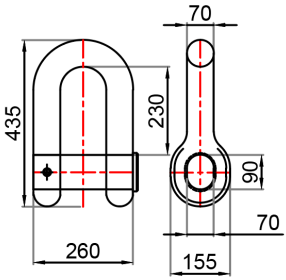
ENLARGED LINK (EL)



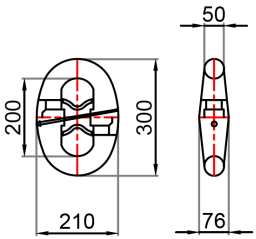
COMMON LINK (C)



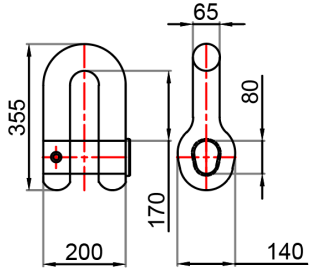
ANCHOR SHACKLE (AS)



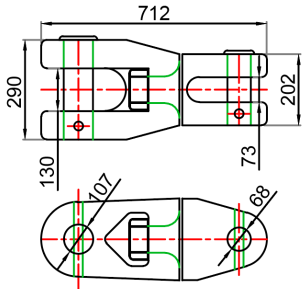
KENTER SHACKLE (KS)



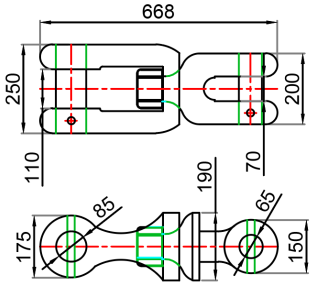
JOINING SHACKLE (JS)



SWIVEL SHACKLE (SSA)



SWIVEL SHACKLE (SSB)



Proof and Breaking Load Chart Table

Chain Diameter (ø) mm.	Studlink chain (27.5) mtr Kg.	Common Link Kg.	Enlarge Link Kg.	End Link Kg.	Kenter Shackle Kg.	Joining Shackle Kg.	Achor Shakckle Kg.	Swivel Piece Kg.	Complete Piece Kg.	Swivel Piece Kg.	Three - link Adapter Kg.
16	160	0.2	0.5	0.5	0.6	1.1	1.6	1.7	3.6	-	1.5
17.5	193	0.2	0.7	0.7	0.8	1.4	2	2.1	4.7	-	2.8
19	223	0.4	0.9	0.9	1	1.7	2.5	2.5	5.8	9	2.4
20.5	275	0.5	1.1	1.1	1.4	2.2	3.3	3.1	7.2	11	3
22	305	0.6	1.3	1.3	1.6	2.7	4	3.5	8.2	14	4
24	366	0.8	1.7	1.8	2	3.5	5	5	11	18	5
26	432	0.9	2.2	2.2	2.7	4.2	6	6	14	24	6
28	503	1.2	2.8	2.9	3.3	5.8	8	7.5	18	30	8
30	578	1.6	3.2	3.3	3.9	6.8	9.5	9	21	35	10
32	657	1.9	3.9	4	4.6	7.8	12	11	26	45	12
34	743	2.4	4.7	5	5.8	9.4	14	13.5	31	54	114
36	831	2.9	5.5	5.9	6.6	12	17	16	37	63	17
38	927	3.4	6.1	6.8	7.8	14	20	19	43	72	19
40	1020	4	7.1	8	9.1	16	23	23	51	86	22
42	1114	4.7	8.4	9.6	11	18	26	27	60	100	25
44	1218	5.5	10	11	13	22	29	32	71	114	29
46	1334	6.4	12	13	14	24	33	37	82	128	34
48	1452	7.4	13	15	16	27	37	44	95	148	39
50	1568	8.5	15	17	18	33	41	57	115	167	44
52	1705	9.8	17	20	20	36	45	57	124	187	49
54	1815	11	19	22	20	40	50	67	141	206	55
56	1953	13	21	23	24	43	54	67	148	233	61
58	2118	14	23	25	28	50	65	80	168	259	68
60	2283	16	25	27	28	56	70	95	191	286	75
62	2420	17	28	30	33	60	76	95	202	312	81
64	2585	19	31	34	38	64	82	112	231	345	89
66	2750	21	34	38	38	74	94	130	261	379	101
68	2943	23	37	42	44	79	101	130	273	412	109
70	3135	25	40	45	44	84	108	152	307	451	119
73	3410	27	45	52	51	98	124	172	348	510	133
76	3713	30	50	59	58	110	141	194	392	575	153
78	3905	34	55	63	65	117	150	194	409	623	161
81	4235	39	61	70	74	133	171	220	458	696	184
84	4565	42	68	78	84	149	193	22	508	776	202
87	4895	46	75	86	94	168	218	270	564	868	230
90	5198	52	82	95	105	186	243	300	623	959	215
92	5473	58	88	100	105	195	256	325	669	1020	271
95	5803	64	98	112	115	215	290	350	733	1123	296
97	6050	68	102	120	135	229	305	350	754	1196	315
100	6435	75	112	130	150	251	355	385	827	1310	347
102	6683	80	120	138	150	262	350	420	891	1397	359
107	7315	88	140	158	175	316	410	495	1042	1616	424
111	7893	93	160	175	200	343	445	535	1150	1792	471
114	8360	109	173	193	225	377	475	570	1239	1995	516
117	8718	120	185	210	225	407	505	610	1332	2126	563
122	9488	120	210	235	267	479	550	650	1465	2405	609
127	10313	142	235	260	315	514	600	720	1632	2683	642
132	11000	160	260	305	370	597	675	760	1790	3095	670
137	11990	182	305	390	390	638	750	900	2030	3508	715
142	12843	205	325	375	450	734	900	1100	2380	3920	814

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SHIP CHAIN IACS Equipment Tables
Part 1 of 2

Equipment No		Equipment Letter				Stud Link Cables For Bower Anchor				Stockless Bower Anchor		
Exceed-ing	Not Exceed-ing	LR	ABS	DNV	GL	Total Length	Diameter			Number	Weight Conv. Anchor	Weight HHP Anchor
							Grade1	Grade2	Grade3		kg.	kg.
						m.	mm.	mm.	mm.			
50	70	A	-	a	102	220	14	12.5	-	2	180	135
70	90	B	-	b	103	220	16	14	-	2	240	180
90	110	C	-	c	104	247.5	17.5	16	-	2	300	225
110	130	D	-	d	105	247.5	19	17.5	-	2	360	270
130	150	E	-	e	106	275	20.5	17.5	-	2	420	315
150	175	F	U6	f	107	275	22	19	-	2	480	360
175	205	G	U7	g	108	302.5	24	20.5	-	2	570	430
205	240	H	U8	h	109	302.5	26	22	20.5	3	660	495
240	280	I	U9	i	110	330	28	24	22	3	780	585
280	320	J	U10	j	111	357.5	30	26	24	3	900	675
320	360	K	U11	k	112	357.5	32	28	26	3	1020	765
360	400	L	U12	l	113	385	34	30	28	3	1140	855
400	450	M	U13	m	114	385	36	32	30	3	1290	970
450	500	N	U14	n	115	412.5	38	34	30	3	140	1080
500	550	O	U15	o	116	412.5	40	34	32	3	1590	1195
550	600	P	U16	p	117	440	42	36	34	3	1740	1305
600	660	Q	U17	q	118	440	44	38	34	3	1920	1440
660	720	R	U18	r	119	440	46	40	36	3	2100	1575
720	780	S	U19	s	120	467.5	48	42	36	3	2280	1710
780	840	T	U20	t	121	467.5	50	44	38	3	2460	1845
840	910	U	U21	u	122	467.5	52	46	40	3	2640	1980
910	980	V	U22	v	123	495	54	48	42	3	2850	2140
980	1060	W	U23	w	124	495	56	50	44	3	3060	2295
1060	1140	X	U24	x	125	495	58	50	46	3	3300	2475
1140	1220	Y	U25	y	126	522.5	60	52	46	3	3540	2655
1220	1300	Z	U26	z	127	522.5	62	54	48	3	3780	2835
1300	1390	A	U27	A	128	522.5	64	56	50	3	4050	3040
1390	1480	B	U28	B	129	550	66	58	50	3	4320	3240
1480	1570	C	U29	C	130	550	68	60	52	3	4590	3445
1570	1670	D	U30	D	131	550	70	62	54	3	4890	3670
1670	1790	E	U31	E	132	577.5	73	64	56	3	5250	3940
1790	1930	F	U32	F	133	577.5	76	66	58	3	5610	4210
1930	2080	G	U33	G	134	577.5	78	68	60	3	6000	4500
2080	2230	H	U34	H	135	605	81	70	62	3	6450	4840

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SHIP CHAIN IACS Equipment Tables
Part 2 of 2

Equipment No		Equipment Letter				Stud Link Cables For Bower Anchor				Stockless Bower Anchor		
Exceed-ing	Not Exceed-ing	LR	ABS	DNV	GL	Total Length	Diameter			Number	Weight Conv. Anchor	Weight HHP Anchor
							Grade1	Grade2	Grade3		kg.	kg.
						m.	mm.	mm.	mm.			
2230	2380	I	U35	I	136	605	84	73	64	3	6900	5175
2380	2530	J	U36	J	137	605	87	76	66	3	7350	5520
2530	2700	K	U37	K	138	632.5	90	78	68	3	7800	5850
2700	2870	L	U38	L	139	632.5	92	81	70	3	8300	6225
2870	3040	M	U39	M	140	632.5	95	84	73	3	8700	6525
3040	3210	N	U40	N	141	660	97	84	76	3	9300	6975
3210	3400	O	U41	O	142	660	100	87	78	3	9900	7425
3400	3600	P	U42	P	143	660	102	90	81	3	10500	7875
3600	3800	Q	U43	Q	144	687.5	105	92	84	3	11100	8325
3800	4000	R	U44	R	145	687.5	107	95	84	3	11700	8775
4000	4200	S	U45	S	146	687.5	111	97	87	3	12300	9225
4200	4400	T	U46	T	147	715	114	100	87	3	12900	9675
4400	4600	U	U47	U	148	715	117	102	90	3	13500	10125
4600	4800	V	U48	V	149	715	120	105	92	3	14100	10557
4800	5000	W	U49	W	150	742.5	122	107	95	3	14700	11025
5000	5200	X	U50	X	151	742.5	124	111	97	3	15400	11550
5200	5500	Y	U51	Y	152	742.5	127	111	100	3	16100	12075
5500	5800	Z	U52	Z	153	742.5	130	114	102	3	16900	12675
5800	6100	A*	U53	A*	154	742.5	132	117	105	3	17800	13350
6100	6500	B*	U54	B*	155	742.5	137	120	107	3	18800	14100
6500	6900	C*	U55	C*	156	770	-	122	111	3	20000	15000
6900	7400	D*	U56	D*	157	770	-	124	114	3	21500	16125
7400	7900	E*	U57	E*	158	770	-	127	117	3	23000	17250
7900	8400	F*	U58	F*	159	770	-	132	120	3	24500	18375
8400	8900	G*	U59	G*	160	770	-	137	122	3	26000	19500
8900	9400	H*	U60	H*	161	770	-	142	127	3	27500	20625
9400	10000	I*	U61	I*	162	770	-	147	132	3	29000	21750
10000	10700	J*	U62	J*	163	770	-	152	137	3	31000	23250
10700	11500	K*	U63	K*	164	770	-	157	142	3	33000	24750
11500	12400	L*	U64	L*	165	770	-	162	147	3	35500	26625
12400	13400	M*	U65	M*	166	770	-	-	152	3	38500	28875
13400	14600	N*	U66	N*	167	770	-	-	157	3	42000	31500
14600	16000	O*	U67	O*	168	770	-	-	162	3	46000	34500

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Proof and Breaking Load Chart Table
Part 1 of 2

Diame-ter	Proof load				Breaking Load				Approx. mass		Number of links per 27.5m
	Grade 2 c = 0.0098	Grade 3 c = 0.0137	ORQ/ RQ3 c = 0.014	Grade 4 c = 0.0216	Grade 2 c = 0.0137	Grade 3 c = 0.0196	ORQ/ RQ3 c = 0.0211	Grade 4 c = 0.0275	27.5m 0.6292x d2	100m	
mm	kN	kN	kN	kN	kN	kN	kN	kN	kg	kg	
16	107	150	-	-	150	216	-	-	160	582	429
17.5	127	179	-	-	179	256	-	-	190	691	391
19	150	211	215	331	211	301	324	421	225	819	357
20.5	175	244	249	385	244	349	376	490	264	975	329
22	200	280	286	442	280	401	431	562	305	1166	305
24	237	332	339	524	332	376	511	667	362	1318	285
26	278	389	397	612	389	556	598	779	425	1538	259
28	321	449	458	707	449	642	691	900	493	1775	245
30	368	514	524	809	514	735	790	1030	566	2028	225
32	417	583	594	917	583	833	895	1167	644	2298	213
34	468	655	668	1030	655	937	1007	1312	727	2584	195
36	523	732	746	1150	732	1050	1120	1465	815	2967	187
38	581	812	828	1280	812	1160	1250	1630	909	3292	179
40	640	896	910	1410	896	1280	1380	1800	1007	3634	171
42	703	981	1000	1550	981	1400	1510	1970	1110	3992	165
44	769	1080	1100	1690	1080	1540	1650	2160	1218	4368	153
46	837	1170	1190	1840	1170	1680	1800	2350	1331	4761	147
48	908	1280	1290	2000	1280	1810	1950	2540	1450	5170	143
50	981	1370	1400	2160	1370	1960	2110	2750	1573	5596	137
52	1060	1480	1510	2330	1480	2110	2270	2960	1701	6040	129
54	1140	1590	1620	2500	1590	2270	2440	3180	1835	6500	125
56	1220	1710	1740	2680	1710	2430	2620	3410	1973	6976	123
58	1290	1810	1850	2860	1810	2600	2800	3640	2117	7596	119
60	1380	1940	1980	3040	1940	2770	2980	3870	2265	8110	113
62	1470	2060	2100	3240	2060	2940	3170	4120	2419	8642	111
64	1560	2190	2230	3430	2190	3130	3360	4380	2577	9191	107
66	1660	2320	2360	3640	2320	3310	3560	4630	2741	9757	105
68	1750	2450	2500	3850	2450	3500	3760	4900	2909	10339	99
70	1840	2580	2630	4060	2580	3690	3970	5170	3083	10938	97
73	1990	2800	2850	4390	2800	3990	4290	5580	3353	11869	93
76	2150	3010	3070	4730	3010	4300	4620	6010	3634	12837	89
78	2260	3160	3220	4950	3160	4500	4850	6310	3828	13504	87

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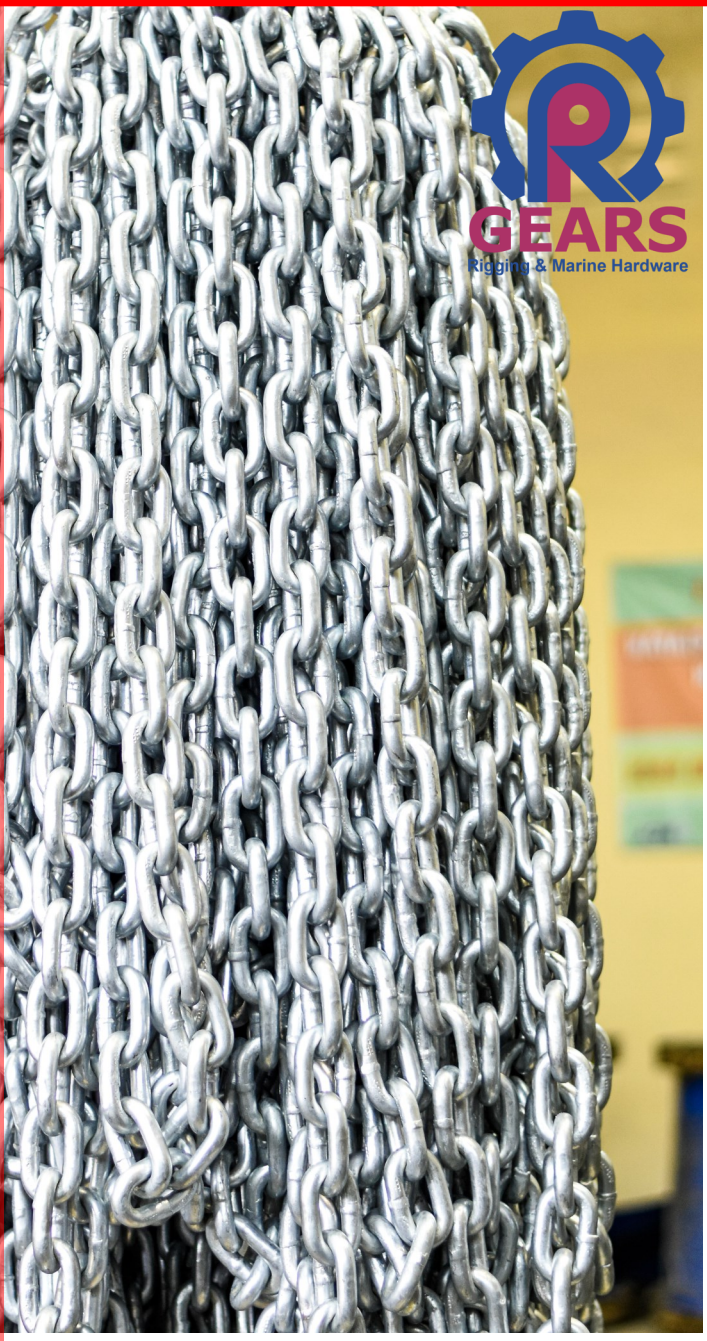
Proof and Breaking Load Chart Table
Part 2 of 2

Diameter	Proof load				Breaking Load				Approx. mass		Number of links per 27.5m
	Grade 2 c = 0.0098	Grade 3 c = 0.0137	ORQ/ RQ3 c = 0.014	Grade 4 c = 0.0216	Grade 2 c = 0.0137	Grade 3 c = 0.0196	ORQ/ RQ3 c = 0.0211	Grade 4 c = 0.0275	27.5m 0.6292x d2	100m	
mm	kN	kN	kN	kN	kN	kN	kN	kN	kg	kg	
81	2410	3380	3450	5320	3380	4820	5190	6760	4128	14536	85
84	2580	3610	3680	5680	3610	5160	5550	7230	4440	15605	81
87	2750	3860	3920	6050	3860	5500	5920	7700	4762	17090	79
90	2920	4090	4170	6440	4090	5840	6290	8190	5097	18250	77
92	3040	4260	4340	6690	4260	6080	6540	8520	5326	19040	73
95	3230	4510	4600	7090	4510	6440	6930	9030	5679	20260	71
97	3350	4680	4770	7360	4680	6690	7200	9370	5920	21100	71
98	3400	4470	4860	7490	4770	6820	7330	9540	6043	21520	69
100	3530	4940	5040	7770	4940	7060	7600	9890	6292	22380	67
102	3660	5120	5220	8040	5120	7320	7870	10240	6546	23260	65
105	3860	5400	5500	8470	5400	7700	8280	10780	6937	24610	63
107	3980	5570	5680	8760	5570	7960	8560	11140	7204	25530	61
108	4040	5660	5770	8900	5660	8090	8700	11330	7339	26000	59
111	4250	5940	6060	9340	5940	8480	9130	11890	7752	27420	57
114	4440	6230	6350	9780	6230	8900	9570	12450	8177	28880	57
117	4650	6510	6640	10230	6510	9300	10010	13030	8613	30380	57
120	4860	6810	6940	10690	6810	9720	10450	13610	9060	31920	55
122	5000	7000	7140	11000	7000	9990	10750	14000	9365	32970	55
124	5140	7200	7340	11310	7200	10280	11060	14390	9675	34030	53
127	5350	7490	7640	11780	7490	10710	11520	14990	10148	35660	53
130	5570	7800	7950	12250	7800	11140	11980	15600	10635	37320	51
132	5720	8000	8160	12590	8000	11420	12290	16020	10965	38450	51
137	6080	8520	8680	13390	8520	12160	13090	17050	11810	41360	49
142	6450	9040	9210	14220	9040	12910	13890	18100	12690	44360	47
147	6840	9560	9750	15050	9560	13660	14700	19160	13600	47480	47
152	7220	10100	10300	15890	10100	14430	15530	20230	14500	50690	45
157	7600	10640	10850	16740	10640	15200	16350	21310	15510	54020	43
162	7990	11170	11400	17600	11170	15970	17190	22400	16510	57440	43
167	8370	11710	11960	18460	11710	16750	18030	23500	17550	60980	41
172	8720	12260	12520	19320	12260	17530	18880	24600	18620	64620	39
177	9160	12810	13090	20190	12810	18320	19730	25710	19710	68360	39

RP GEARS (Rigging Hardware)

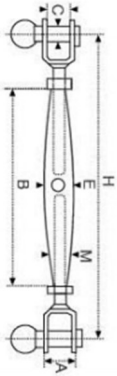


GEARS
Rigging & Marine Hardware

Shackle I Galvanize Chain I Turnbuckle I Clips I Thimble I Ferrule I Webbing Sling I Round Sling I Rachet Tie Down I Hand Hoist l Lever Hoist

RP GEARS Turnbuckle

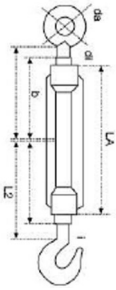
Stainless Steel Turnbuckle Europe Closed Body Turnbuckles



SIZE	M (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	LH (mm)
5	5	12.5	80	7.5	4.8	8.5	128
6	6	15	92	9	5.8	10	145
8	8	17	112	11	7.8	13.5	174
10	20	20	120	12	9.8	17	204
12	12	24	150	15	11.8	21	256
14	14	28	170	18	13.8	23	290
16	16	32.6	190	21	15.8	27	327
20	20	37	210	24	19.8	33	380
22	22	-	-	-	21.8	-	-
24	24	-	-	-	23.8	-	-
36	36	69	300	45	35	-	-

RP GEARS Turnbuckle

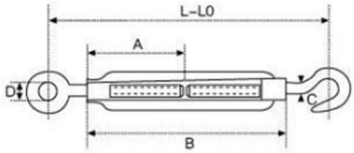
316 Stainless Steel DIN1480 Eye And Eye Turnbuckle



SIZE	LA (mm)	L2 (mm)	B (mm)	DA (mm)	DI (mm)	I (mm)	WLL (mm)
M6	110	60	53	10	20	4.5	0.2
M8	110	60	55	12	26	6.5	0.1
M10	125	65	60	14	30.5	8	0.65
M12	125	75	70	18	37.5	10.5	0.9
M16	170	100	90	22	48	13	1.8
M20	200	115	100	25	54	20	2.75
M24	255	140	130	28	66	27	3.99
M30	255	145	130	35	83	31	6.25
M32	295	160	150	36.5	88	33	6.50
M36	295	160	150	44	104	40	9.00
M38	330	185	170	42	104	39	9.50

RP GEARS Turnbuckle

Stainless Steel EU Type Turnbuckle Hook And Eye



SIZE	A (mm)	B (mm)	C (mm)	L (mm)	L1 (mm)	WLL
4	30	58	5	80	131	0.025
5	34	70	6	96	146	0.04
6	44	90	8	122	190	0.10
8	58	120	12	164	255	0.20
10	73	150	13	205	325	0.30
12	97	200	15	264	425	0.50
14	110	225	18	300	486	0.70
16	122	250	20	337	548	0.80
20	147	300	25	406	646	1.20

RP GEARS Turnbuckle

DIN1480 Galvanized Drop Forged Steel Turnbuckles With Eye And Eye

SIZE(mm)	W.L.L(T)	BODY LENGTH(mm)	N.W.(kg)
M5	0.2	70	0.6
M6	0.22	110	0.078
M8	41	110	0.16
M10	0.65	125	0.29
M12	0.9	125	0.43
M14	1.1	140	0.62
M16	1.3	170	0.92
M18	1.5	180	1.25
M20	1.7	200	1.63
M22	3.2	220	2.22
M24	3.9	255	3
M27	4.5	255	3.35
M30	6.2	255	3
M33	7.3	295	6.65
M36	8.5	295	7.68
M39	10	330	10.41
M42	12	330	12.9
M45	16	355	16
M48	20	355	21
M52	23	355	23

RP GEARS Turnbuckle

DIN1480 Galvanized Drop Forged Steel Turnbuckles With Hook And Hook

SIZE(mm)	W.L.L(T)	BODY LENGTH(mm)	N.W.(kg)
M5	0.2	70	0.6
M6	0.22	110	0.078
M8	41	110	0.16
M10	0.65	125	0.29
M12	0.9	125	0.43
M14	1.1	140	0.62
M16	1.3	170	0.92
M18	1.5	180	1.25
M20	1.7	200	1.63
M22	3.2	220	2.22
M24	3.9	255	3
M27	4.5	255	3.35
M30	6.2	255	3
M33	7.3	295	6.65
M36	8.5	295	7.68
M39	10	330	10.41
M42	12	330	12.9
M45	16	355	16
M48	20	355	21
M52	23	355	23

RP GEARS GALVANIZE CHAIN

Short Link Chain

LINK SPECIFICATION				TEST LOAD	B.L	NET WT PER 200FT (KG)	
D		L	W				
IN	MM	MM	MM	KG	KG	B.F.	H.D.G
1/8	3.20	16	12	200	400	11.40	11.74
5/32	4.00	18.5	14.5	300	600	18.60	19.00
3/16	4.70	19	17	400	800	26.20	27.00
7/32	5.50	20	19	550	1100	36.80	38.00
1/4	6.35	22	21	750	1500	50.00	51.50
5/16	7.94	26	26	1200	2400	80.00	82.40
3/8	9.50	28	32	1700	3400	122.00	125.70
7/16	11.11	33	36	2300	4600	164.00	169.00
1/2	12.70	39	43	3000	6000	210.00	216.00
5/8	15.80	45	53	4700	9400	334	344
3/4	19.00	55	63	6800	13600	485	499
7/8	22.20	64	74	9250	18500	656	675
1	25.40	73	84	12150	24300	870	896

RP GEARS GALVANIZE CHAIN

Medium Link Chain

LINK SPECIFICATION				TEST LOAD	B.L	NET WT PER 200FT (KG)	
D		L	W				
IN	MM	MM	MM	KG	KG	B.F.	H.D.G
1/8	3.20	3.20	12	200	400	10.80	11.00
5/32	4.00	4.00	15	300	600	17.40	18.00
3/16	4.70	4.70	18	400	800	24.40	25.00
7/32	5.50	5.50	19	550	1100	34.00	35.00
1/4	6.35	6.35	23	750	1500	48.80	50.00
5/16	7.94	7.94	29	1200	2400	76.00	78.00
3/8	9.50	9.50	35	1700	3400	111.00	114.00
7/16	11.11	11.11	38	2300	4600	154.00	158.00
1/2	12.70	12.70	45.5	3000	6000	194.00	200
5/8	15.80	15.80	56.7	4700	9400	303	312
3/4	19.00	19.00	69	6800	13600	432	445
7/8	22.20	22.20	80	9250	18500	586	603
1	25.40	23.40	95	12150	24300	770	792

Long Link Chain

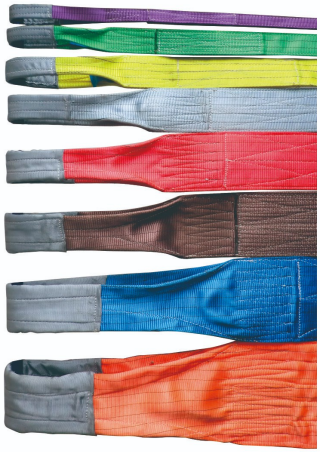
LINK SPECIFICATION				TEST LOAD	B.L	NET WT PER 200FT (KG)	
D		L	W				
IN	MM	MM	MM	KG	KG	B.F.	H.D.G
1/8	3.20	3.20	12	200	400	10.80	11.00
5/32	4.00	4.00	15	300	600	17.40	18.00
3/16	4.70	4.70	18	400	800	24.40	25.00
7/32	5.50	5.50	19	550	1100	34.00	35.00
1/4	6.35	6.35	23	750	1500	48.80	50.00
5/16	7.94	7.94	29	1200	2400	76.00	78.00
3/8	9.50	9.50	35	1700	3400	111.00	114.00
7/16	11.11	11.11	38	2300	4600	154.00	158.00
1/2	12.70	12.70	45.5	3000	6000	194.00	200
5/8	15.80	15.80	56.7	4700	9400	303	312
3/4	19.00	19.00	69	6800	13600	432	445
7/8	22.20	22.20	80	9250	18500	586	603
1	25.40	23.40	95	12150	24300	770	792

RP GEARS—FLAT WEBBING SLING

0.5 tonnes—50 tonnes

EN 1492-1 : 2000+A1:2008

Webbing slings are made from high tenacity 100% polyester (PES) webbing material manufactured according to EN standards.



These slings have the following advantages:

- Low weight, therefore offering easy handling
- Protection against hand injuries
- Protection against cargo surface damage
- Highly flexible and adaptable to given shapes
- UV-resistant, eliminating material ageing or brittlement
- Heat resistant up to 100°C
- Water - resistant fabric, preventing frost damage (down to -40°C)
- Soft sewn eyes (Flat, Becket or Reverse eyes)
- Low elongation

Double Ply Flat Webbing Sling

1 tonnes— 12 tonnes

EN 1492-1 : 2000+A1:2008

WLL (kg)	WIDTH	COLOR	WLL in kg at different modes				
			Straight Lift 	Basket Lift 		Choker Lift 	
1000	30	VIOLET	1000	2000	1400	800	1000
2000	60	GREEN	2000	4000	2800	1600	2000
3000	90	YELLOW	3000	6000	4200	2400	3000
4000	120	GREY	4000	8000	5600	3200	4000
5000	150	RED	5000	10000	7000	4000	5000
6000	180	BROWN	6000	12000	8400	4800	6000
8000	240	BLUE	8000	16000	11200	6400	8000
10000	300	ORANGE	10000	20000	14000	8000	10000
12000	300	ORANGE	12000	24000	16800	9600	12000

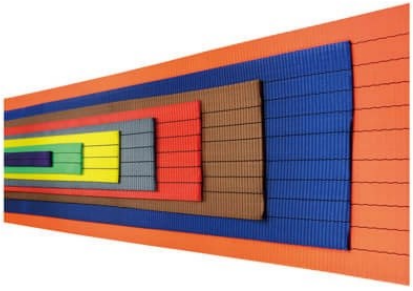
Endless Flat Webbing Sling

1 tonnes— 12 tonnes

EN 1492-1 : 2000+A1:2008

- Material 100% high tenacity industrial polyester yarn
- Endless type
- Length available :0.5m to 12m
- Low elongation
- According to EN1492-1+A:2008

WLL (kg)	WIDTH	COLOR	WLL in kg at different modes				
			Straight Lift 	Basket Lift 		Choker Lift 	
1000	30	VIOLET	1000	2000	1400	800	1000
2000	60	GREEN	2000	4000	2800	1600	2000
3000	90	YELLOW	3000	6000	4200	2400	3000
4000	120	GREY	4000	8000	5600	3200	4000
5000	150	RED	5000	10000	7000	4000	5000
6000	180	BROWN	6000	12000	8400	4800	6000
8000	240	BLUE	8000	16000	11200	6400	8000
10000	300	ORANGE	10000	20000	14000	8000	10000
12000	300	ORANGE	12000	24000	16800	9600	12000



RP GEARS—ROUNDSLING

1 tonnes—50 tonnes

EN 1492-1 : 2000+A1:2008

These Roundslings have the following advantages:

- Round slings are manufactured to EN 1492-2 and have safety factor of 7:1
- Wears evenly along the length
- Load bearing fiber protected from the load,giving greater resistance to wear
- Remove sllings from service when the outer cover is damaged and /or the yam is exposed.

WLL (kg)	WIDTH	COLOR	WLL in kg at different modes				
			Straight Lift 	Basket Lift 		Choker Lift 	
1000	45	VIOLET	1000	2000	1400	800	1000
2000	50	GREEN	2000	4000	2800	1600	2000
3000	60	YELLOW	3000	6000	4200	2400	3000
4000	75	GREY	4000	8000	5600	3200	4000
5000	85	RED	5000	10000	7000	4000	5000
6000	90	BROWN	6000	12000	8400	4800	6000
8000	105	BLUE	8000	16000	11200	6400	8000
10000	115	ORANGE	10000	20000	14000	8000	10000
12000	120	ORANGE	12000	24000	16800	9600	12000
15000	130	ORANGE	15000	30000	21000	12000	15000
20000	130	ORANGE	20000	40000	28000	16000	20000
25000	175	ORANGE	25000	50000	35000	20000	25000
30000	175	ORANGE	30000	60000	42000	24000	30000
40000	220	ORANGE	40000	80000	56000	32000	40000
50000	220	ORANGE	50000	100000	70000	40000	50000

RP GEARS — Ratchet Tie Down

400 kg— 10000 kg
EN 12195-2 : 2000

- The width of rachet tie down produced by RP GEARS is ranging from 1" to 4"
- Capacity is ranging from 400kg to 10000kg
- Variety of colors can be customized by requirements



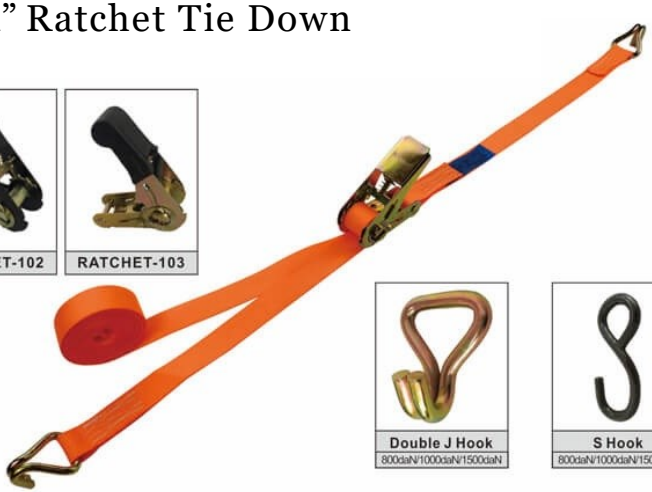

RP GEARS — 1" Ratchet Tie Down


RATCHET-101


RATCHET-102

RATCHET-103


RATCHET-104



Double J Hook
800daN/1000daN/1500daN


S Hook
800daN/1000daN/1500daN

Model	Lashing Capacity	Webbing Width	Min B.S	B.S of Webbing	B.S Webbing (EN12195-2)	Color	Rachet Choice
RPG-RTD-1001	400daN	25 mm	800daN	1200daN	1200daN	Orange/Blue/ Yellow/etc	Rachet101/102/103
RPG-RTD-1002	500daN	25 mm	1000daN	1500daN	1500daN	Orange/Blue/ Yellow/etc	Rachet101/102/103
RPG-RTD-1003	750daN	27 mm	1500daN	1875daN	2250daN	Orange/Blue/ Yellow/etc	Rachet104

RP GEARS — 1.5” Ratchet Tie Down

Model	Lashing Capacity	Webbing Width	Min B.S	B.S of Webbing	B.S Webbing (EN12195-2)	Color	Rachet Choice
RPG-RTD-1501	1000daN	35 mm	2000daN	2500daN	3000daN	Orange/Blue/ Yellow/etc	Rachet151
RPG-RTD-1502	1500daN	35 mm	3000daN	3750daN	4500daN	Orange/Blue/ Yellow/etc	Rachet152/153/ 154

RP GEARS — 3” Ratchet Tie Down

Model	Lashing Capacity	Webbing Width	Min B.S	B.S of Web-bing	B.S Webbing (EN12195-2)	Color
RPG-RTD-3001	4000daN	75 mm	8000daN	8000daN	10000daN	Orange/Blue/ Yellow/etc
RPG-RTD-3002	5000daN	75 mm	10000daN	10000daN	12500daN	Orange/Blue/ Yellow/etc

RP GEARS — 2” Ratchet Tie Down


Ratchet-201 (2T Iron short Handle)

Ratchet-202 (Plastic Handle)


Ratchet-203 (Alu. Handle)

Ratchet-204 (Rubber Handle)


Ratchet-205 (Finger Handle)

Ratchet-206 (Ergo. Ratchet)


Double J Hook
2000/3000/4000/5000daN


Single J Hook
5000daN


Open Hook
4000/5000daN


Triangle Ring
5000daN


Flat Hook
5000daN


E Fitting
2000daN


Rotate Hook
5000daN

Model	Lashing Capacity	Webbing Width	Min B.S	B.S of Webbing	B.S Webbing (EN12195-2)	Color	Rachet Choice
RPG-RTD-2001	1000daN	50 mm	2000daN	2500daN	3000daN	Orange/Blue/ Yellow/etc	Rachet201/202/ 203
RPG-RTD-2002	1500daN	25 mm	3000daN	3750daN	4500daN	Orange/Blue/ Yellow/etc	Rachet202/203
RPG-RTD-2003	2000daN	27 mm	4000daN	5000daN	6000daN	Orange/Blue/ Yellow/etc	Rachet202/203/ 204/205/206
RPG-RTD-2004	2500daN	50 mm	5000daN	6250daN	7500daN	Orange/Blue/ Yellow/etc	Rachet202/203/ 204/205/206

RP GEARS — 4” Ratchet Tie Down

Model	Lashing Capacity	Webbing Width	Min B.S	B.S of Web-bing	B.S Webbing (EN12195-2)	Color
RPG-RTD-4001	4000daN	100 mm	8000daN	10000daN	12000daN	Orange/Blue/ Yellow/etc
RPG-RTD-4002	5000daN	100 mm	10000daN	12500daN	1500daN	Orange/Blue/ Yellow/etc

RP GEARS — CHAIN HOIST

The manual chain hoist features steel-casting housing, Grade 80 chain and a compact design that's perfect for tight spaces. Black finish lift chain is rust resistant and durable, while zinc-plated pull chain resists rust. All-steel construction for durability and wear resistance.

ADVANTAGES

- Capacity from 0.5T to 30T.
- Have certificate of CE.
- Got certificate of ISO9001.
- Drop forged hooks and hook holders to ensure superior quality and safety.
- More thickness of sheet cover, gear cover and side plates for good quality.
- Automatic double-pawl braking system.
- The static test is 4 times of capacity, and running test is 1.5 times of capacity one by one.

Model	RPG-0.5B	RPG-1B	RPG-1.5B	RPG-2BS	RPG-2BD	RPG-3B	RPG-5B	RPG-10B	RPG-15B	RPG-20B	RPG-30B
Rated Load (T)	0.5	1	1.5	2	2	3	5	10	15	20	30
Standard Lift (m)	2.5	2.5	2.5	2.5	2.5	3	3	3	3	3	3
Test Load (T)	0.75	1.5	2.25	3	3	4.5	7.5	12.5	18375	25	37.5
Efforts required at capacity (N)	262	324	395	380	330	402	430	438	447	438	442
Diameter of Load Chain (mm)	5	6	7.1	8	6	7.1	10	10	10	10	10
No. Of Load Chain	1	1	1	1	2	2	2	4	6	8	10
Net Weight (kg)	7	10.5	15.5	18.5	16	23	39	69	95	155	237
Extra Weight per Meter of Extra Lift	1.5	1.8	2	2.4	2.7	3.2	5.3	9.8	14.2	19.6	23.9

RP GEARS — LEVER HOIST

The manual lever chain hoist features a rugged steel frame, load chain hardened for strength and durability and compact design that's perfect for tight spaces. Enclosed gear housing provides protection that makes it suitable for outdoor use. Guide slots guard against jamming and slipping.

- Capacity from 0.75T to 6T.
- Bearings inside load chain sprocket increase mechanical efficiency.
- Drop forged hooks and hook holders, heat treated to ensure the safety and durability.
- Gear assembly provide smooth operation by little hand efforts.
- Chain guides provide smooth chain operation .
- T80 grade high tensile lifting chain make more effective.
- lightweight steel construction with durable powder coat finish.
- CE CERTIFIED.
- One year guarantee.

Model	RPG-0.75C	RPG-1.0C	RPG-1.5C	RPG-3.0C	RPG-6.0C
Rated Load (T)	0.75	1	1.5	3	6
Test Load (T)	1.125	1.5	2.25	4.5	9
Standard Lift (m)	1.5	1.5	1.5	1.5	1.5
Min. Distance between two Hooks	147	196	244	372	382
Efforts required at capacity (N)	140	186	234	363	370
No. Of Load Chain	1	4	1	1	2
Diameter of Load Chain (mm)	6	6	7.1	10	10
Net Weight (kg)	7.3	7.8	10.4	17.2	26

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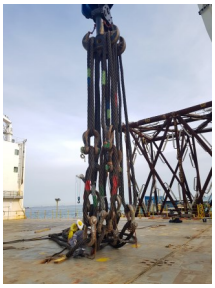
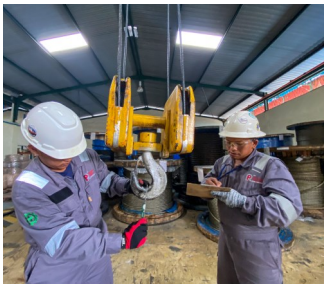
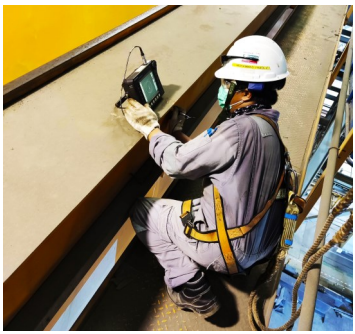
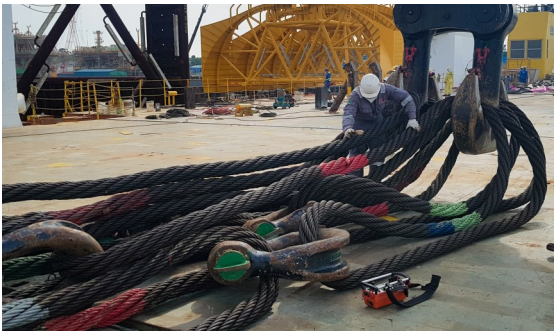
- Pad Eyes Proof load Tester, Capacity up to 50 tonnes


INSPECTION & CERTIFICATION OF LIFTING EQUIPMENTS

- Visual inspection and dimensional conformity
- Proof load test (1000te test bed and 50te pad eye tester)
- Non Destructive Test
- Destructive Test

LIFTING GEAR

(Wire Rope Sling, Chain Sling, Webbing Sling, Shackle, Hook, Turnbuckle, Master Link, Pad Eye, Spreader Beam, Vacuum Lifter, Magnet Lifter, C-Hook, Plate Clamp, Lifting Fork, etc)

WIRE ROPE INSPECTION

Wire rope deterioration may result from normal usage, misuse or as a result from abnormal incident. Excessive wear, broken wire, distortion and corrosion are the common visible external deterioration while internal deterioration is invisible.

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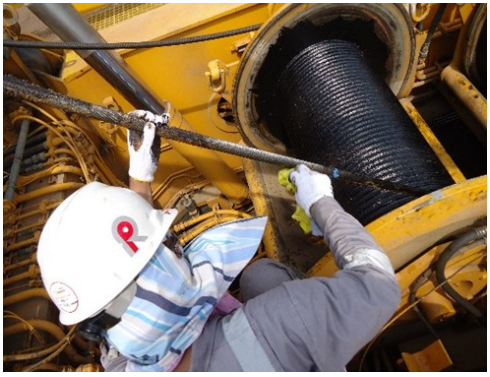

OFFSHORE CONTAINER INSPECTION

Offshore Container / Cargo Carrying Unit, a portable units specially designed for repeated use in transport of good or equipment to, from or between fixed and/or floating offshore installation and ships

- General Cargo Container
- Tank Container
- Waste Skip
- Cargo Basket
- Bulk Container
- Gas Rack
- Service Container
- Portable Offshore Unit

Inspection and Testing for Offshore Container will be carried out by LEEA IP7 certified inspector with scope :

- Visual Inspection
- Non-Destructive Examination
- Lifting Test

Inspection Reference comply with BS EN ISO 10855, DNVGL E271 and E273, and ISO 1496-1

NON DESTRUCTIVE TEST

PT Rigspek Perkasa provides most commonly used NDT method as follow :

- Electromagnetic Testing for wire rope (E-Mag)
- Eddy Current Testing (ECT)
- Magnetic Particle Inspection
- Dye Penetrant Inspection (DPI)
- Ultrasonic Testing (UT)

Lifting Operations Training

Lifting Gear Inspector

Lifting and Slinging

LOLER & PUWER

Lifting Supervisor

Rigging
(Basic/Advance/Supervisor)

Lifting Competent Person (MOLO/AP)

Wire Rope Inspector

Wire Rope Socketing

Wire Rope Appreciation

For enquiry :
training@rigspekperkasa.com

FOR MORE INFO

+62 778 (0) 324747 | 324749

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BATAM | *OFFICE*

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Sekupang, Batam
Kepulauan Riau 29428

Tel. +62 (0) 778 324747 | 324749

JAKARTA | *OFFICE*

Sopo Del Office Towers & Lifestyle
Tower A Lt. 16 Unit C
Jl. Mega Kuningan Barat III Lot. 10 1-6
Kawasan Mega Kuningan Timur
Jakarta Selatan 12950

Tel. +62 (0) 21 5080 6538 | 5080 6539
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JAKARTA | *WAREHOUSE*

Kawasan Industri & Pergudangan
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Bekasi 17211
Tel +62 (0) 21 8944 7113 I 8944 7134

PEKANBARU | *OFFICE*

Komplek Perkantoran Grand Sudirman
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Tangkerang Selatan - Pekanbaru

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