www.liftco-group.com

LiftCo Catalogue

We Lift Your Company

LiftCo Group, overview

Since 2006, offering tailored lifting solutions to our customers in Europe, Gabon, Congo, Angola and West Africa region.

Our companies propose the design and manufacture of slings, test, socketing and a supply of a wide range of lifting items: steel cable, rotating steel cable, shackles,textile slings, hooks, lifting and mooring chains, polypropylene ropes and other lifting accessories.

We can also provide qualified technicians directly on site.

LiftCo provide products designed according to Europeans standards with traceabilityand certification.

Our Machinery includes :

- 3 presses of 600 T (Port-Gentil, Pointe-Noire and Angola)
- 1 Press of 300 T (Port-Gentil)
- 2 Presses of 1250 T at Pointe-Noire and Port-Gentil
- 2 test benches of 100 T equipped with computer sensorsand certification recorders (Port-Gentil and Pointe-Noire)
- Wide range of items

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Contents

3 Reasons

To use our services





1 Highest quality lifting equipments

- 20 years of experience manufacturing and delivering lifting equipment to all major oil operators and service companies. We are proud to be a trusted supplier (framework agreement) of TotalEnergies, Perenco, Eni, Technip and Subsea7.

- Official distributor of premium lifting brands

- Full traceability of all our products with access to both in house and third party testing facilities and certifications (EN 10.855-2, EN 13414-1).

- Compliant with European regulations and highest industry standards.

2 Best-in-class reactivity and customer-oriented service

- Our workshops are located in Congo (Pointe Noire), Gabon (Port Gentil) and Angola, close to our customers.

- We hold a large inventory of materials so our skilled team can manufacture and supply lifting equipment with minimum lead time.

- We strive to answer urgent requests to avoid downtime for our valued customers with same day delivery.

- We will do our best to assist all our customers in selecting the best lifting solution for their needs. Our technicians travel onsite as required for in situ measurements and we source latest innovative products for our customers.


3 Local content

We are focused on creating local jobs and providing good working conditions in all our locations. Our team is trained to international standard, follows best operational and safety practices and has accumulated a wealth of experience in manufacturing highest quality lifting equipments..

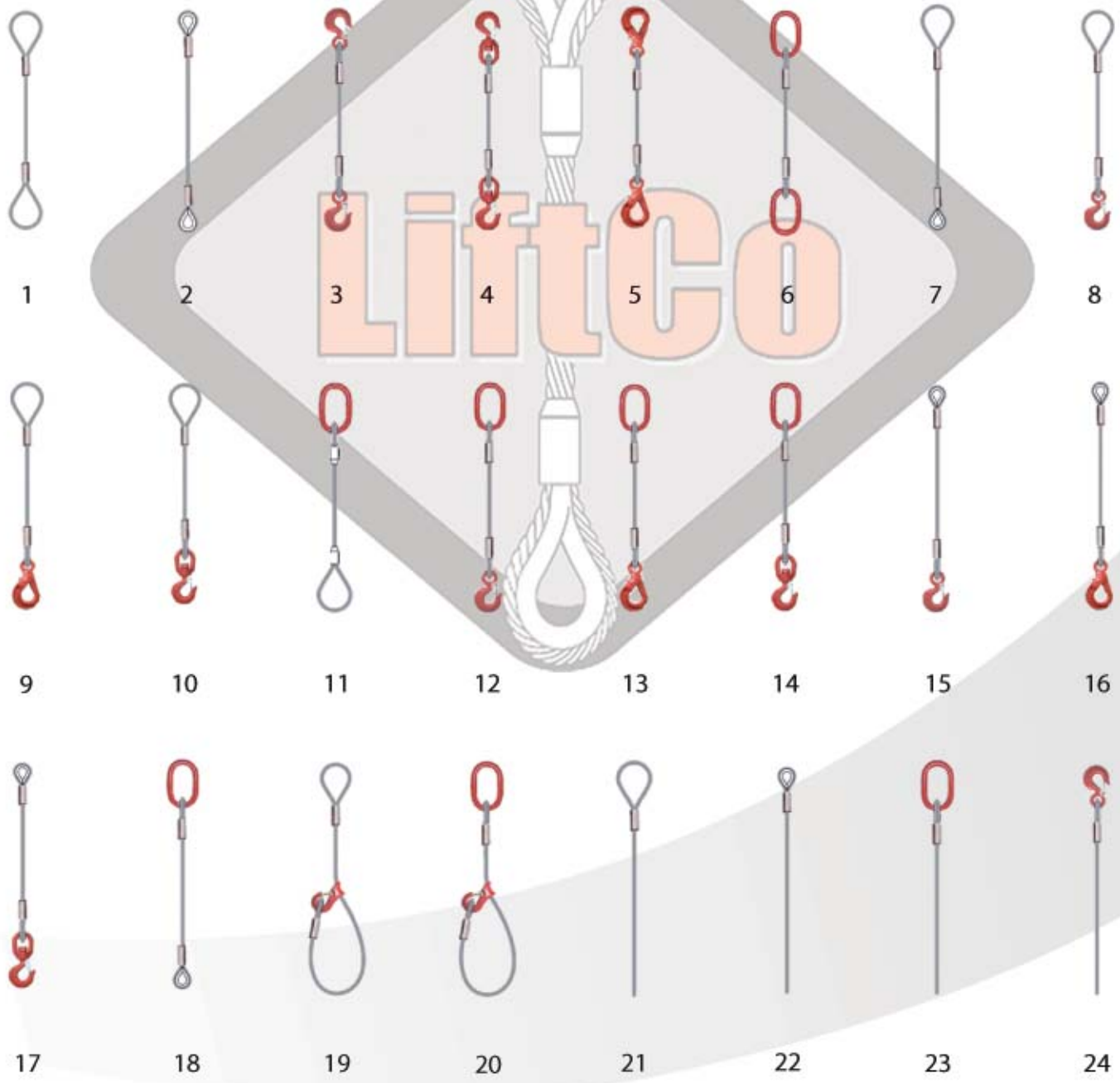
Our Slings

Wire Ropes Slings certified EN 13414-1 & 10.855-2

Slings manufactured following Europeans standards and delivered fully certified EN 13414-1 / EN 10.855-2.

100 T computerized test bench and / or third party certification available on request.

ELINGUE CÂBLE ACIER 1 BRIN / SINGLE LEG WIRE ROPE

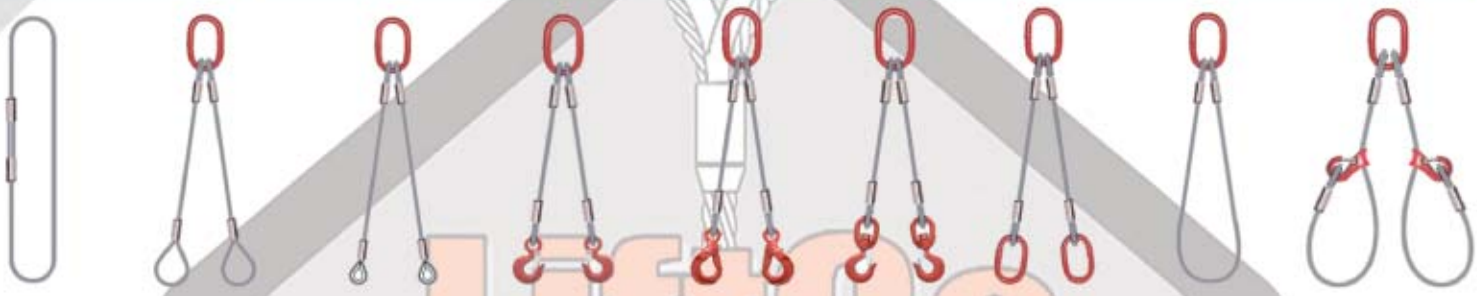


Our Slings

Wire Ropes Slings certified
EN 13414-1 & 10.855-2

25 26 27 28 29 30 31 32 33

ELINGUE CÂBLE ACIER 2 BRINS / DOUBLE LEG WIRE ROPE



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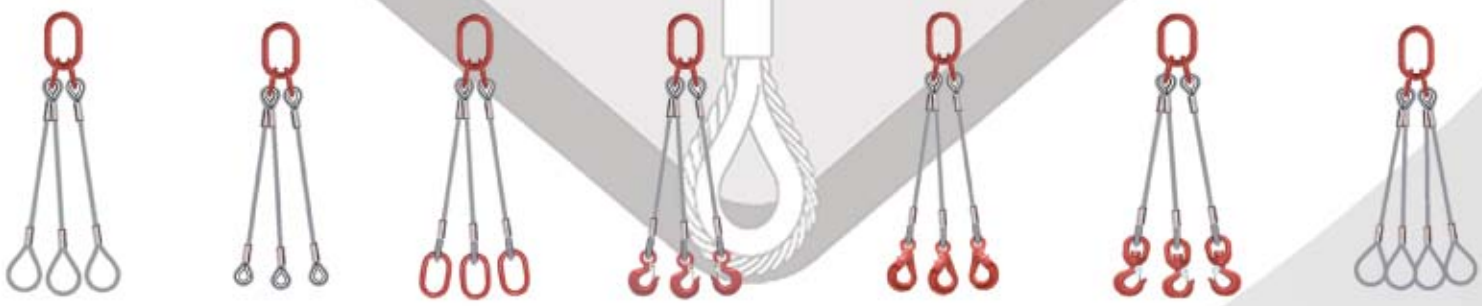
ELINGUE CÂBLE ACIER 3 & 4 BRINS / THREE & FOUR LEG WIRE ROPE



43 44 45 46 47 48 49

50 51 52 53 44 55

Wire Rope Slings SWL

Steel wire ropes 1960 N/mm² IWRC (steel core)
RHOL 6x36 Galvanised

Slings	1 Leg	2 Legs		3 & 4 Legs		-	-
							
Angles	90°	β ≤ 45°	45°<β≤60°	β≤ 45°	45°<β≤60°	0°	0°
Coefficient	1	1,4	1	2,1	1,5	0,8	1,6
Cables Diameter	Working Load Limit (in ton T) IWRC Construction - 1960 Grade Class 6x19, Class 6x36						
8 mm	0,82	1,14	0,82	1,72	1,23	0,66	1,20
9 mm	1,04	11,46	1,04	2,18	1,56	0,83	1,50
10 mm	1,28	1,79	1,28	2,69	1,92	1	1,85
12 mm	1,84	2,58	1,84	3,86	2,76	1,47	2,70
14 mm	2,52	3,53	2,52	5,29	3,78	2	3,70
16 mm	3,29	4,61	3,29	6,91	4,94	2,63	4,80
18 mm	4,14	5,8	4,14	8,69	6,21	3,31	6,00
19 mm	4,63	6,48	4,63	9,72	6,95	3,7	6,40
20 mm	5,11	7,15	5,11	10,7	7,67	4,08	7,35
22 mm	6,21	8,69	6,21	13	9,32	4,97	9,00
24 mm	7,38	10,3	7,38	15,5	11,1	5,9	10,6
26 mm	8,66	12,1	8,66	18,2	13	6,93	12,5
28 mm	10	14	10	21	15	8	14,5
32 mm	13,1	18,3	13,1	27,5	19,7	10,48	19,0
34 mm	14,82	20,75	14,82	31,12	22,23	11,86	21,4
38 mm	18,5	25,9	18,5	38,9	27,8	14,8	26,7
44 mm	24,8	34,7	24,8	52,1	37,2	19,84	36,0
48 mm	29,5	41,3	29,5	62	44,3	23,6	41,6
52 mm	34,7	48,6	34,7	72,9	52,1	27,76	50,4
57 mm	41,69	58,37	41,69	87,55	62,54	33,35	66,7
64 mm	54,2	75,9	54,2	114	81,3	43,36	76,5
77 mm	76,5	107	76,5	161	115	61,2	142,2

Note:

D. 64mm slings are manufactured according to Flemish eye Super loop.
D. 77mm cable is manufactured only with closed spelter sockets.

Wire Ropes 6x36 WS + IWRC

- Wire Ropes type 1960 N/mm² (high resistance) IWRC (steel core)
- Construction: RHOL 6x36 Galvanised Lubricated and certified acc. to EN 12385-4
- Minimum safety factor 5:1.
- Delivered with Certificate of Conformity acc. to EN 12385-4

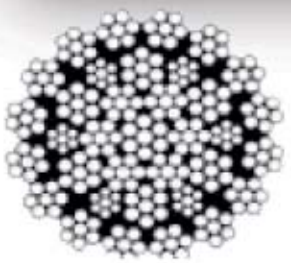
Construction
6x36WS+IWRC
Outhern Strands
1+7+(7+7)+14

nominal diameter	Weight 100 m	minimum breaking load 1770		1960	
mm	Kg	KN	Kg	KN	Kg
8	26,20	40,30	4110	44,70	4560
9	33,10	51,00	5200	56,50	5760
10	40,90	63,00	6420	69,80	7120
11	49,50	76,20	7770	84,40	8600
12	58,90	90,70	9250	100,00	10200
13	69,10	106,00	10800	118,00	12000
14	80,20	124,00	12600	137,00	14000
16	105,00	161,00	16400	179,00	18300
18	133,00	204,00	20800	226,00	23000
19	148,00	227,00	23200	252,00	25700
20	164,00	252,00	25700	279,00	28500
22	198,00	305,00	31100	338,00	34500
24	236,00	363,00	37000	402,00	41000
26	276,00	426,00	43400	472,00	48100
28	321,00	494,00	50400	547,00	55800
30	368,00	567,00	57800	628,00	64000
32	419,00	645,00	65800	715,00	72900
34	473,00	728,00	74200	807,00	82300
36	530,00	817,00	83300	904,00	92200
38	591,00	910,00	92800	1010,00	103000
40	654,00	1010,00	103000	1120,00	114000
42	721,00	1110,00	113000	1230,00	125000
44	792,00	1220,00	124000	1350,00	138000
48	942,00	1450,00	148000	1610,00	164000
51	1064,00	1639,00	167000	1815,00	185000
52	1110,00	1700,00	173000	1890,00	193000
56	1280,00	1980,00	202000	2190,00	223000
57	1329,00	2047,00	208000	2267,00	231000
60	1470,00	2270,00	232000	2510,00	256000
64	1675,00	2580,00	263000	2858,00	291000

Non Rotating Wire Ropes 35x7 for Cranes

- Wire Ropes type 2160 N/mm^2 (high resistance) IWRC (steel core)
- Construction: RHOL 35x7 (best non rotating features)
- Galvanised Lubricated and certified acc. to EN 12385-4
- Minimum safety factor 5:1.

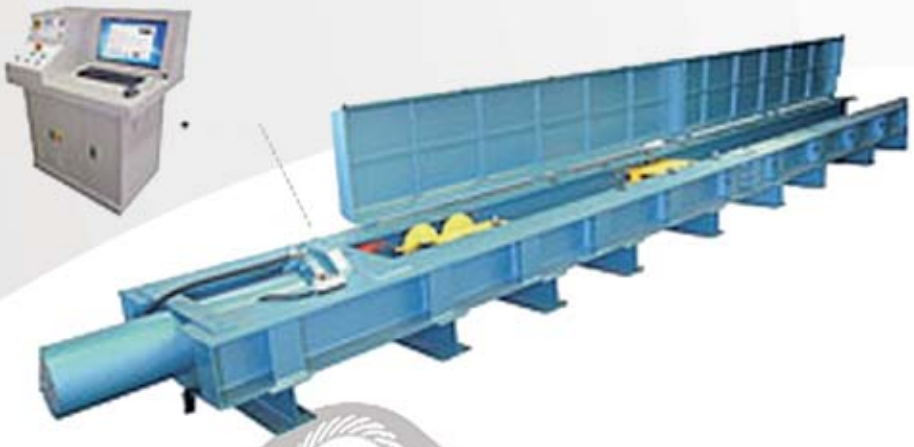
Delivered with Certificate of Conformity acc. to EN 12385-4.



Construction
35x7
Outhern Strands
1+6

nominal diameter	Weight 100 m	minimum breaking load 1960		2160	
mm	Kg	KN	Kg	KN	Kg
8	29,10	45,20	4610	48,40	4940
9	36,80	57,20	5830	61,20	6240
10	45,40	70,60	7200	75,60	7710
11	54,90	85,40	8710	91,50	9930
12	65,40	102,00	10400	109,00	11100
13	76,70	119,00	12100	128,00	13100
14	89,00	138,00	14100	148,00	15100
16	116,00	181,00	18500	194,00	19800
18	147,00	229,00	23400	245,00	25000
20	182,00	282,00	28800	302,00	30800
22	220,00	342,00	34900	366,00	37300
24	262,00	406,00	41400	435,00	44400
26	307,00	477,00	48600	511,00	52100
28	356,00	553,00	56400	593,00	60500
32	465,00	723,00	73700	774,00	79000
36	588,00	914,00	93200	980,00	100000
38	656,00	1020,00	104000	1090,00	111000
40	726,00	1130,00	115000	1210,00	123000

Computarized Test Bench Liftco



Our test bench allows customers to test wire ropes slings, shackles, links, load cells and other lifting gear to specific standards.

- Automatic printing of the test certificate with the diagram.
- Elongation measurement.
- Software assisted Test proof and speed.
- Tests diagram displayed on the screen as operating.
- Elongation load, loading time, stress elongation, strain-time
- Break, Proof test, wedge test, Cycle (not dynamic fatigue test)
- Accuracy: +1/-1 % calibrated according to E-4 ASTM or ISO 7500

BRIDON

Dyform 50DB

- Crush resistant
- Reduced sheave wear
- Good wear characteristics
- Excellent spooling
- Rotation resistant

Nominal rope Diameter	Nominal rope length mass In air	Min Breaking Force (F min) EIPS / 1960 grade		Nominal metallic cross section
mm	Kg/m	kN	tonnes	mm²
8	30.2	57.2	5.83	36.1
9	38.2	72.4	7.38	45.7
10	47.2	89.3	9.11	56.4
11	57.1	108	11.0	68.3
12	68.0	129	13.1	81.2
13	79.8	151	15.4	95.3
14	92.5	175	17.9	111
15	106	201	20.5	127
16	121	229	23.3	144
17	136	258	26.3	163
18	153	289	29.5	183
19	170	323	32.9	204
20	189	357	36.4	226
21	208	394	40.2	249
22	228	432	44.1	273
23	250	473	48.2	298
24	272	515	52.5	325
25	295	558	56.9	353
26	319	604	61.6	381

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www.bridon.com

Endurance 50DB

Diameter	Approx. nominal length mass	Minimum breaking force (Fmin)		Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		EIPS / 1960 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	MN	N.m	N.m	mm²
8	0.27	49.6	5.06	3.1	n/a	2.9	32
9	0.35	62.8	6.41	3.9	n/a	4.1	40
10	0.43	77.6	7.91	4.8	n/a	5.6	49
11	0.52	93.9	9.6	5.8	n/a	7.4	60
12	0.61	112	11.4	6.9	n/a	10	71
13	0.72	131	13.4	8.1	n/a	12	84
14	0.84	152	15.5	9.4	n/a	15	97
15	0.96	175	17.8	11	n/a	19	111
16	1.09	199	20.2	12	n/a	23	127
17	1.23	224	22.9	14	n/a	27	143
18	1.38	251	25.6	16	n/a	33	160
19	1.54	280	28.5	17	n/a	38	179
20	1.71	310	31.6	19	n/a	45	198
21	1.88	342	34.9	21	n/a	52	218
22	2.07	375	38.3	23	n/a	59	239

Endurance DYFORM® 50DB

Diameter	Approx. nominal length mass	Minimum breaking force (Fmin)		Axial stiffness @20% load	Torque generated @20% load		Metallic cross section
		EIPS / 1960 grade			Ordinary	Lang's	
mm	kg/m	kN	tonnes	MN	N.m	N.m	mm²
8	0.30	57.2	5.83	3.6	n/a	2.7	37
9	0.38	72.4	7.38	4.5	n/a	3.9	46
10	0.47	89.3	9.10	5.6	n/a	5.4	57
11	0.57	108	11.0	6.7	n/a	7	69
12	0.68	129	13.1	8.0	n/a	9	83
13	0.80	151	15.4	9.4	n/a	12	97
14	0.93	175	17.8	11.0	n/a	15	112
15	1.06	201	20.5	13	n/a	18	129
16	1.21	229	23.3	14	n/a	22	147
17	1.36	258	26.3	16	n/a	26	166
18	1.53	289	29.5	18	n/a	31	186
19	1.70	323	32.9	20	n/a	37	207
20	1.89	357	36.4	22	n/a	43	229
21	2.08	394	40.2	25	n/a	50	253
22	2.28	432	44.0	27	n/a	57	277
23	2.50	473	48.2	29	n/a	65	303
24	2.72	515	52.5	32	n/a	74	330
25	2.95	558	56.9	35	n/a	84	358
26	3.19	604	61.6	38	n/a	94	388

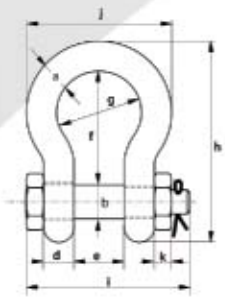
_ BOW SHACKLE G-4163 _

Green Pin® Bow Shackle BN

Standard bow shackle with safety bolt

- **Material:** bow and pin high tensile steel, grade 6, quenched and tempered
- **Safety Factor:** MBL equals 6 x WLL
- **Standard:** EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 3, grade A, from 2 t and upward these shackles comply with ASME B30.26
- **Finish:** hot dipped galvanized
- **Temperature Range:** -40°C up to +200°C
- **Certification:** 2.1 | 2.2 | 3.1 | MTC [4] | DNV GL 2.7-1 [4] * | DNV GL 2.7-1 [3] * | DNV GL 0378 | CE | ABS PDA | ABS MA

G-4163



working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	thickness nut	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	k mm	kg
0.5	7	8	16.5	7	12	29	20	48.5	42	34	4	0.06
0.75	9	10	20	9	13.5	32	22	56	50	40	5	0.11
1	10	11	22.5	10	17	36.5	26	63.5	60	46	8	0.16
1.5	11	13	26.5	11	19	43	29	74	67	51	11	0.22
2	13.5	16	34	13	22	51	32	89	82	58	13	0.42
3.25	16	19	40	16	27	64	43	110	98	75	17	0.74
4.75	19	22	46	19	31	76	51	129	114	89	19	1.18
6.5	22	25	52	22	36	83	58	144	130	102	22	1.77
8.5	25	28	59	25	43	95	68	164	150	118	25	2.58
9.5	28	32	66	28	47	108	75	185	166	131	27	3.66
12	32	35	72	32	51	115	83	201	178	147	30	4.91
13.5	35	38	80	35	57	133	92	227	197	162	33	6.54
17	38	42	88	38	60	146	99	249	202	175	19	8.19
25	45	50	103	45	74	178	126	300	249	216	23	14.22
35	50	57	111	50	83	197	138	331	269	238	26	19.53
42.5	57	65	130	57	95	222	160	377	301	274	29	28.33
55	65	70	145	65	105	260	180	433	330	310	32	39.59
85	75	83	162	73	127	329	190	527	380	340	39	62

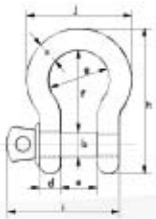
_ BOW SHACKLE G-4161 _

Green Pin® Manille lyre SC

Manille Standard lyre à axe vissé

- **Matière :** corps et axe en acier haute résistance, grade 60, trempé et revenu
- **Coefficient de sécurité :** 6 fois la C.M.U. = charge de rupture minimale
- **Norme :** EN 13889 et conforme aux exigences de performance US Fed. Spec. RR-C-271 Type IVA Class 2, Grade A ; à partir de 2 t, ces manilles sont conformes à la norme ASME B30.26
- **Finition :** galvanisation
- **Température :** -40°C jusqu'à +200°C
- **Certificat :** 2.1 | 2.2 | 3.1 | MTC [4] | DNV GL 0378 | CE | ABS PDA | ABS MA

G-4161



C.M.U.	Dia corps	Dia axe	Dia oeil	Largeur oeil	Largeur intérieure	Longueur intérieure	Largeur couronne	Longueur	Longueur axe	Largeur	Poids unitaire
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
0.33	5	6	12	5	9.5	22	16	36	29.5	26	0.02
0.5	7	8	16.5	7	12	29	20	48.5	38	34	0.05
0.75	9	10	20	9	13.5	32	22	56	46.5	40	0.1
1	10	11	22.5	10	17	36.5	26	63.5	54	46	0.14
1.5	11	13	26.5	11	19	43	29	74	59.5	51	0.19
2	13.5	16	34	13	22	51	32	89	73	58	0.36
3.25	16	19	40	16	27	64	43	110	89	75	0.63
4.75	19	22	46	19	31	76	51	129	103	89	1.01
6.5	22	25	52	22	36	83	58	144	119	102	1.5
8.5	25	28	59	25	43	95	68	164	137	118	2.21
9.5	28	32	66	28	47	108	75	185	153	131	3.16
12	32	35	72	32	51	115	83	201	170	147	4.31
13.5	35	38	80	35	57	133	92	227	186	162	5.55
17	38	42	88	38	60	146	99	249	203	175	7.43
25	45	50	103	45	74	178	126	300	243	216	12.84
35	50	57	111	50	83	197	138	331	272	238	18.15
42.5	57	65	130	57	95	222	160	377	310	274	26.29
55	65	70	145	65	105	260	180	433	344	310	37.6

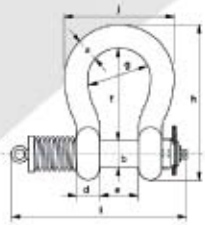
_BOW SHACKLE P-5367 _

Green Pin® Spring Release ROV Shackle

Release ROV shackle (grade 8) with spring

- **Material:** bow and pin alloy steel, grade 8, Polar quality, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** body painted white, pin painted green
- **Temperature Range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MTC * LROS * CE
- **Note:** for in-line use only.
  this shackle is assembled with wire rope slings and monkey's fist for size starting from WLL 42.5 up to and including 150 t a special compression tool (sold separately) is required to assemble the shackle.

P-5367



working load limit	diameter bow	diameter pin	diameter eye	width eye	width inside	length inside	width bow	length	length bolt	width	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	j mm	kg
12	32	35	72	32	51	115	83	201	291	147	5.24
13.5	35	38	80	35	57	133	92	227	301	162	7
17	38	42	88	38	60	146	99	249	360	175	9.25
25	45	50	103	45	74	178	126	300	370	216	15.5
35	50	57	116	50	83	197	138	334	400	238	20.4
42.5	57	65	130	57	95	222	160	377	460	274	39
55	65	70	145	65	105	260	180	433	490	310	42
85	75	83	162	75	127	329	190	527	587	340	67
120	95	95	208	91	147	399	238	646	687	428	123
150	105	108	238	102	169	410	275	688	727	485	168

_ SPLIT PINS E-7950 _

Split pins

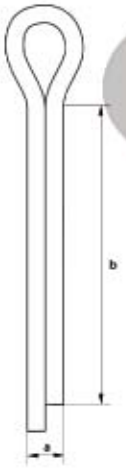
- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

E-7950

diameter	length	weight per 100 pcs
a mm	b mm	kg
2.5	20	0.08
4	32	0.3
5	36	0.6
6	45	1.2
8	63	2.8
8	80	4.4
8	100	4.4
8	125	5.5
8	150	6.6
10	71	5
10	90	6
10	100	6.6
10	120	4.4
12	140	7
12	160	7
12	180	7
13	110	12.1
16	160	16
16	200	20
20	230	30
20	265	17.6

Split pins (continued)

E-7950



- **Material:** mild steel
- **Finish:** electro-galvanized
- **Certification:** 2.1

split pins	for shackle									
	G-4163 G-4143	G-4153 G-4133	P-6036 P-6016 ≤150	G-6038 P-6018	P-6033 P-6013 ≤150	G-5263 G-5243	G-5163 G-5143	P-6031 P-6011 ≤150	G-4263 G-4243	G-4553
a x b mm	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t	WLL t
2.5 x 20	0.5									
	0.75									
	1									
	1.5									
4 x 32	2	2				3.3	2			
	3.25	3.25				5	3.25			
5 x 36	4.75	4.75			7	7	4.75		4.75	4.6
	6.5	6.5				9.5	6.5			
6 x 45	8.5	8.5			12.5	12.5	8.5		6.5	8.6
	9.5	9.5			18	15	9.5		8.5	
	12	12				18	12		9.5	
8 x 63	13.5	13.5				21	13.5		12	15.5
	17	17				30	17		16	
8 x 80					30					
					40					
10 x 71	25	25				40	25		25	
	35	35				55	35		30	
10 x 90	42.5	42.5				85	42.5		55	
	55	55					55			
10 x 100	85	85			55	120	85		75	
					75					
10 x 120					125					
12 x 140					150					
					200					
12 x 160					250					
12 x 180					300					
13 x 110			120	120		150		120		
			150			175		150		
16 x 160			200					200		
			250					250		
			300					300		
16 x 200			400					400		
			500					500		
20 x 230			600					600		
			700					700		
			800					800		
20 x 265			900					900		
			1000					1000		

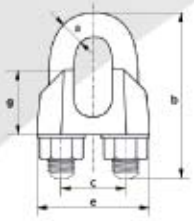
_ WIRE ROPE CLIPS E-6220 _

Wire Rope Clip

Generally to EN 13411-5 Type A

E-6260

- **Material:** bridge: malleable steel
  U-bolt: mild steel
- **Standard:** EN 13411-5 Type A
  formerly DIN 1142
- **Finish:** electro-galvanized
- **Certification:** 2.1



diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
5	5	25	12	14	25	13	13	2
6.5	6	32	14	17	30	16	14	4
8	8	41	18	20	39	20	18	8.2
10	8	46	20	24	40	20	21	8.4
12	10	56	24	28	50	25	24	17
13	12	64	29	29	55	28	29	27.5
14	12	66	28	31	59	30	28	28.6
16	14	76	34	35	64	32	35	43
19	14	83	37	36	68	33	40	49
22	16	96	41	40	74	34	44	68
26	20	111	46	50	84	38	51	111
30	20	127	54	55	95	41	59	140
34	22	141	60	60	105	45	67	202
40	24	159	68	65	117	49	77	268

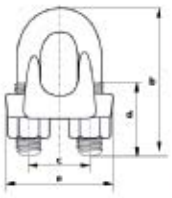
_ WIRE ROPE CLIPS G-6240 _

Green Pin® Wire Rope Clip

Wire rope clip generally to EN 13411-5 Type B

G-6240

- **Material:** bridge: drop forged high tensile steel SAE 1045
  U-bolt: SAE 1015
- **Standard:** EN 13411-5 Type B
  formerly U.S. Federal Specification FF-C-450D
- **Finish:** hot dipped galvanized
  U-bolt and/or nuts for diameter bow 5, 6, 8 and 10 are electro galvanized
- **Certification:** 2.1



diameter wire rope	diameter	length bow	width inside	length thread	length base	thickness base	height base	weight per 100 pcs
mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
3 - 4	5	24	12	11	24	21	10	2
5	6	31	15	13	29	24	13	4
6 - 7	8	34	19	13	37	30	18	8
8	10	45	22	19	43	33	19	14
9 - 10	11	49	26	19	49	42	25	19
11	12	60	30	25	58	46	26	31
12 - 13	13	61	30	25	58	48	31	34
14 - 15	14	72	33	32	63	52	31	36
16	14	74	33	32	64	54	36	45
18 - 20	16	86	38	37	72	57	38	68
22	19	98	45	41	80	62	40	108
24 - 26	19	108	48	46	88	67	47	113
28 - 30	19	117	51	51	91	73	48	140
32 - 34	22	130	59	54	105	79	56	207
36	22	140	60	59	108	79	58	234
38 - 40	22	147	66	60	112	85	64	266
41 - 42	25	161	70	67	121	92	67	329
44 - 46	29	174	78	70	134	97	76	441
48 - 52	32	195	86	78	150	113	85	603
56 - 58	32	213	98	81	162	116	100	707
62 - 65	32	227	105	87	168	119	113	806
68 - 72	32	243	112	91	174	127	124	1000
75 - 78	38	271	121	98	194	135	136	1440

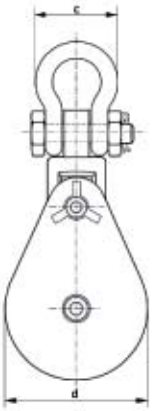
_ BLOCK P-6951 _

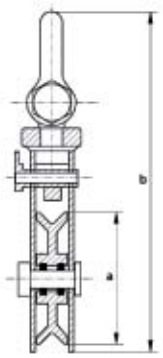
Green Pin® Snatch Block S

Snatch block type 601S with Green Pin® Shackle attached

- **Material:** carbon steel, fitted with conical roller bearings
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted
- **Certification:** 2.1 2.2 MTC[1] CE
- **Note:** Working Load Limit is on the headlifting

P-6951





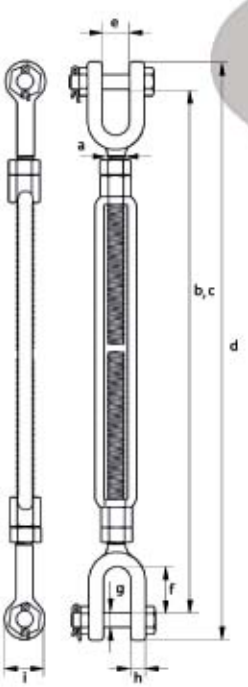
working load limit	diameter wire rope	diameter outside sheave	length	width	width outside	weight each
t	mm	a mm	b mm	c mm	d mm	kg
2	7 - 9	75	293	75	82	3.9
4	10 - 12	115	363	102	120	6.4
4	12 - 14	152	417	102	160	8.4
8	14 - 16	152	477	118	160	14.3
12	14 - 16	152	555	147	160	20
8	20 - 22	152	477	118	160	14.1
12	20 - 22	152	555	147	160	20
15	24 - 26	152	585	162	160	24
4	10 - 12	203	478	102	210	11
12	14 - 16	203	580	147	210	27
8	20 - 22	203	526	118	210	18
12	20 - 22	203	580	147	210	28
15	24 - 26	203	646	162	210	30
8	14 - 16	254	582	118	260	26
8	20 - 22	254	582	118	260	26
12	20 - 22	254	680	147	260	35
15	24 - 26	254	705	162	260	42
8	20 - 22	305	612	118	310	31
12	20 - 22	305	745	147	310	53
15	24 - 26	305	771	162	310	55
8	20 - 22	357	662	118	360	31
12	20 - 22	357	770	147	360	60
15	24 - 26	357	798	162	360	63
22	28 - 32	357	906	216	385	126
8	20 - 22	406	712	118	410	35
12	20 - 22	406	820	147	410	67
15	24 - 26	406	848	162	410	70
22	28 - 32	406	963	216	415	139
8	20 - 22	457	762	118	460	42
12	20 - 22	457	878	147	460	75
15	24 - 26	457	898	162	460	78
22	28 - 32	457	1033	216	465	154
30	28 - 32	457	1083	238	468	218

Green Pin® JJ Turnbuckle BN

Turnbuckle with jaw-jaw end-fitting and safety bolt, generally to ASTM F1145-92

G-6323

- **Material:** drop forged high tensile steel SAE 1035 or 1045
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** generally to ASTM F1145-92
  formerly U.S. Federal Specification FF-T-791b
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2 3.1 MTC[4] CE



working load limit	diameter thread	take up	length closed position	length open position	length closed position	opening jaw	length inside	diameter pin	thickness jaw eye	diameter jaw eye	weight each
t	a inch	inch	b mm	c mm	d mm	e mm	f mm	g mm	h mm	i mm	kg
0.54	3/8	6	273	409	304	12	21	7	9	21	0.55
1	1/2	6	304	435	343	16	26	10	11	25	0.96
1	1/2	9	379	588	418	16	26	10	11	25	1.18
1	1/2	12	455	740	494	16	26	10	11	25	1.50
1.59	5/8	6	346	469	406	18	32	13	14	33	1.75
1.59	5/8	9	421	622	480	18	32	13	14	33	2.14
1.59	5/8	12	498	774	557	18	32	13	14	33	2.43
2.36	3/4	6	369	487	439	24	38	16	16	41	2.7
2.36	3/4	9	444	640	514	24	38	16	16	41	3.23
2.36	3/4	12	520	792	590	24	38	16	16	41	3.57
2.36	3/4	18	670	1096	740	24	38	16	16	41	4.55
3.27	7/8	12	561	826	638	27	42	19	19	48	5.22
3.27	7/8	18	713	1132	790	27	42	19	19	48	6.56
4.54	1	6	447	554	532	31	50	22	20	54	5.54
4.54	1	12	598	859	683	31	50	22	20	54	6.96
4.54	1	18	750	1168	835	31	50	22	20	54	8.4
4.5	1	24	903	1470	988	31	50	22	20	54	8.9
6.9	1 1/4	12	643	916	748	44	71	28	26	68	11.9
6.9	1 1/4	18	805	1230	910	44	71	28	26	68	13.6
6.9	1 1/4	24	964	1541	1069	44	71	28	26	68	14.2
9.71	1 1/2	12	675	942	806	52	71	35	28	80	18.5
9.71	1 1/2	18	825	1244	956	52	71	35	28	80	19.3
9.71	1 1/2	24	980	1551	1111	52	71	35	28	80	22
12.7	1 3/4	18	938	1316	1092	60	86	41	33	90	30
12.7	1 3/4	24	1089	1621	1243	60	86	41	33	90	33
16.8	2	24	1153	1673	1338	63	93	50	40	107	50
27.2	2 1/2	24	1255	1831	1480	75	114	57	41	143	92
34	2 3/4	24	1348	1882	1604	90	110	70	41	158	109

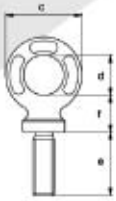
_ LIFTING EYES S-8140 _

Green Pin® Lifting Eye GR8

Grade 8 lifting eye

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted red or white
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MPI® CE

AL



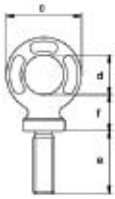
working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.2	M6 x 1.00	20	34	20	20	17	7	0.05
0.4	M8 x 1.25	20	34	20	24	17	7	0.07
0.7	M10 x 1.50	20	38	22	30	19	8	0.08
1	M12 x 1.75	25	47	27	36	23	10	0.14
1.2	M14 x 2.00	30	57	30	40	27	14	0.25
1.5	M16 x 2.00	36	63	35	53	31	14	0.39
2	M18 x 2.50	36	63	35	53	31	14	0.38
2.5	M20 x 2.50	40	72	40	58	34	16	0.58
3	M22 x 2.50	42	82	45	64	38	19	1.01
4	M24 x 3.00	55	95	55	84	40	20	1.12
5	M27 x 3.00	55	95	55	84	40	20	1.18
6	M30 x 3.50	60	108	60	99	49	24	1.84
7	M33 x 3.50	60	108	60	99	49	24	2.01
8	M36 x 4.00	65	118	68	117	47	25	2.44
9	M39 x 4.00	65	118	68	117	47	25	2.62
10	M42 x 4.50	70	142	80	135	61	31	5.41
15	M45 x 4.50	70	142	80	135	61	31	4.16
18	M48 x 5.00	95	181	97	150	68	42	8.22
20	M52 x 5.00	95	181	97	150	68	42	8.55
25	M56 x 5.50	95	181	97	150	68	42	8.85
30	M60 x 5.50	95	181	97	150	68	42	9.16
36	M64 x 6.00	95	181	97	150	68	42	9.55

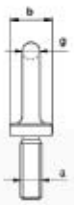
Green Pin® Lifting Eye Length as DIN580 GR8

Grade 8 lifting eye length as DIN580

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted red or white
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MPI® CE

ALDIN





working load limit	diameter thread	diameter base	diameter eye outside	diameter eye inside	length	thickness base	diameter	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.2	M6 x 1.00	20	34	20	13	17	7	0.05
0.4	M8 x 1.25	20	34	20	13	17	7	0.05
0.7	M10 x 1.50	20	38	22	17	19	8	0.07
1	M12 x 1.75	25	47	27	21	23	10	0.13
1.2	M14 x 2.00	30	57	30	27	27	14	0.24
1.5	M16 x 2.00	36	63	35	27	31	14	0.34
2	M18 x 2.50	36	63	35	30	31	14	0.38
2.5	M20 x 2.50	40	72	40	30	34	16	0.52
3	M22 x 2.50	42	82	45	36	38	19	0.67
4	M24 x 3.00	55	95	55	36	40	20	0.99
5	M27 x 3.00	55	95	55	45	40	20	1.08
6	M30 x 3.50	60	108	60	45	49	24	1.66
7	M33 x 3.50	60	108	60	54	49	24	1.74
8	M36 x 4.00	65	118	68	54	47	25	2.01
9	M39 x 4.00	65	118	68	63	47	25	2.08
10	M42 x 4.50	70	142	80	63	61	31	3.37
15	M45 x 4.50	70	142	80	68	61	31	3.47
18	M48 x 5.00	95	181	97	68	68	42	7.17
20	M52 x 5.00	95	181	97	78	68	42	7.25
25	M56 x 5.50	95	181	97	78	68	42	7.52
30	M60 x 5.50	95	181	97	90	68	42	7.78
36	M64 x 6.00	95	181	97	90	68	42	8.12

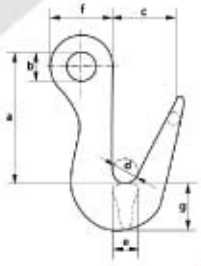
Green Pin® Pipe Line Hook

Hook for handling cylindrical objects (pipes, tubes)

- **Material:** alloy steel
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted red
- **Certification:** 2.1 2.2 3.1

P-6731

working load limit at hook		length	diameter eye inside	opening hook	diameter	thickness	diameter eye outside	width	weight each
top t	bottom t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
2	7.5	167	35	74	30	31	73	57	2.65



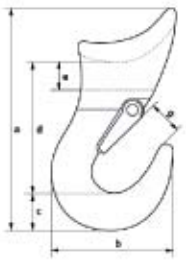
Green Pin® Alloy Sliding Choker Hook

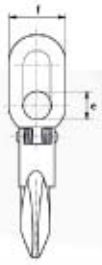
Grade 8 sliding choker hook with safety latch

- **Material:** alloy steel, grade 8
- **Safety factor:** MBL equals 5 x WLL
- **Finish:** painted red
- **Certification:** 2.1 2.2 3.1

P-6706A

working load limit	diameter rope	length	width	thickness	length	diameter	thickness	opening hook	weight each
t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.8	6 - 11	112	63	19	65	14	30	16	0.4
1.6	10 - 13	143	82	26	83	17	30	19	0.8
2.5	14 - 16	170	98	30	97	19	33	25	1.2
3.2	16 - 20	196	115	36	110	22	40	28	1.9
5.4	22 - 26	260	142	46	145	36	60	35	4.2





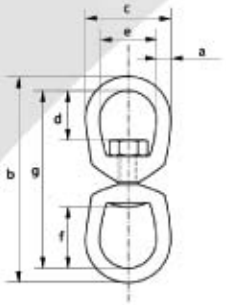
_ EMERILLON G-7713 _

Green Pin® EE Swivel

Swivel with eye-eye end-fitting

- **Material:** high tensile steel, quenched and tempered
- **Safety factor:** MBL equals 5 x WLL
- **Standard:** US Federal Spec. RR-C-271, Type VII, Class 2
- **Finish:** hot dipped galvanized
- **Certification:** 2.1 2.2

G-7713



working load limit	diameter	length outside	width outside	length inside	width inside	length inside	length	weight each
t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.39	6	87	32	18	19	27	75	0.1
0.57	8	106	41	21	25	32	90	0.18
1.02	10	129	51	24	32	38	109	0.3
1.6	13	164	64	33	38	51	138	0.6
2.4	16	199	76	40	44	60	167	1
3.3	19	221	89	44	51	67	183	1.82
4.5	22	257	102	52	57	78	213	2.55
5.7	25	295	114	59	64	89	245	4.06
8.2	32	337	143	68	80	94	273	7.43
20.5	38	501	178	102	102	150	425	20.8

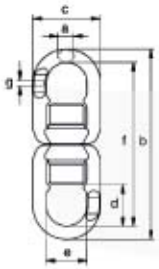
_ EMERILLON ELR _

Green Pin® Needle Bearing Swivel EE GR8

Grade 8 needle bearing eye-eye swivel

- **Material:** alloy steel, grade 8, quenched and tempered
- **Safety factor:** MBL equals 4 x WLL
- **Finish:** painted red (R) or white
- **Temperature range:** -40°C up to +200°C
- **Certification:** 2.1 2.2 3.1 MTC[1]
- **Note:** equipped with two needle roller thrust bearings to enable rotation under load

ELR



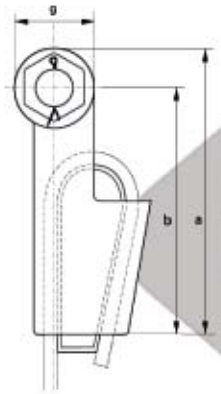
for chain diameter		working load limit	diameter	length outside	width outside	length inside	width inside	length	thickness	weight each
mm	inch	t	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
5-6	3/16 - 7/32	1.12	11	150	56	33	32	126	6	0.61
7-8	1/4 - 5/16	2	14	181	65	40	37	153	8	1.07
10	3/8	3.2	18	226	79	47	48	195	11	1.9
13	1/2	5.4	20	268	96	59	58	227	14	3.17
16	5/8	8.2	23	331	121	67	73	281	17	6.44
18-20	3/4	12.8	28	378	132	88	82	328	22	7.75

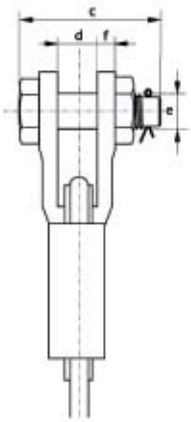
Green Pin® Open Wedge Socket BN

Open wedge socket with safety bolt

- **Material:** high tensile steel
- **Standard:** generally to EN 13411-6
- **Finish:** hot dipped galvanized
- **Temperature Range:** -20°C up to +200°C
- **Certification:** 2.1 2.2 3.1 CE

G-6423





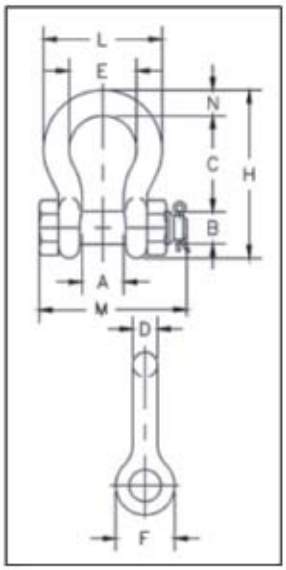
number	minimum breaking load	diameter wire rope	length	length to center pin	width	width inside	diameter pin	thickness side plates	diameter eye	weight each
	t	mm	a mm	b mm	c mm	d mm	e mm	f mm	g mm	kg
0.25	8	7 - 8	128	110	69	18	16	9	36	0.8
0.5	12	9 - 10	165	142	83	20.5	20	11	46	1.5
1	20	11 - 13	175	146	101	25	25	12	57	2.4
2	25	14 - 16	211	176	124	31	30	15	70	4.8
3	40	18 - 19	252	212	138	38	35	16	80	8.3
4	55	20 - 22	288	240	148	44	41	19	95	11
5	75	24 - 26	329	274	176	51	50	22	110	17.9
6	90	27 - 29	375	310	193	57	57	25	130	21
7	110	30 - 32	423	350	210	63	63	28	146	33
8	125	34 - 36	474	400	216	69	65	28	148	42
9	150	37 - 39	527	450	230	76	70	30	153	52
10	170	40 - 42	580	500	244	76	77	33	160	73

Crosby

Crosby® Bolt Type Shackles

G-2130 / S-2130
Bolt Type Anchor shackles with thin head bolt - nut with cotter pin. Meets the performance requirements of Federal Specification RR-C 271G Type IVA, Grade A, Class 3, except for those provisions required of the contractor. For additional information, see page 475.

- 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 Dimetcoted® 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 statisti al 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® . . . the mark of genuine Crosby quality.



G-2130 / S-2130 Bolt Type Anchor Shackles

Nominal Size (in)	Working Load Limit (t)*	Stock No.			Weight Each (kg)	Dimensions (mm)										Tolerance + / -	
		G-2130	S-2130	G-2130OC		A	B	C	D	E	F	H	L	M	N	C	A
3/16	1/3 ‡	1019464	–	–	.03	9.65	6.35	22.4	4.85	15.2	14.2	37.3	24.9	32.8	4.85	1.50	1.50
1/4	1/2	1019466	–	–	.05	11.9	7.85	28.7	6.35	19.8	15.5	46.7	32.5	39.6	6.35	1.50	1.50
5/16	3/4	1019468	–	–	.10	13.5	9.65	31.0	7.85	21.3	19.1	53.0	37.3	46.2	7.85	1.50	1.50
3/8	1	1019470	–	–	.15	16.8	11.2	36.6	9.65	26.2	23.1	63.0	45.2	55.1	9.65	3.30	1.50
7/16	1-1/2	1019471	–	–	.22	19.1	12.7	42.9	11.2	29.5	26.9	74.0	51.5	63.8	11.2	3.30	1.50
1/2	2	1019472	1019481	–	.36	20.6	16.0	47.8	12.7	33.3	30.2	83.5	58.5	71.1	12.7	3.30	1.50
5/8	3-1/4	1019490	1019506	1262013	.62	26.9	19.1	60.5	16.0	42.9	38.1	106	74.5	90.4	17.5	3.30	1.50
3/4	4-3/4	1019515	1019524	1262022	1.23	31.8	22.4	71.5	19.1	51.0	46.0	126	89.0	105	20.6	6.35	1.50
7/8	6-1/2	1019533	1019542	1262031	1.79	36.6	25.4	84.0	22.4	58.0	53.0	148	102	122	24.6	6.35	1.50
1	8-1/2	1019551	1019560	1262040	2.28	42.9	28.7	95.5	25.4	68.5	60.5	167	119	137	26.9	6.35	1.50
1-1/8	9-1/2	1019579	1019588	1262059	3.75	46.0	31.8	108	28.7	74.0	68.5	190	131	150	31.8	6.35	1.50
1-1/4	12	1019597	1019604	1262068	5.31	51.5	35.1	119	31.8	82.5	76.0	210	146	170	35.1	6.35	1.50
1-3/8	13-1/2	1019613	1019622	1262077	7.18	57.0	38.1	133	35.1	92.0	84.0	233	162	183	38.1	6.35	3.30
1-1/2	17	1019631	1019640	1262086	8.62	60.5	41.4	146	38.1	98.5	92.0	254	175	196	41.1	6.35	3.30
1-3/4	25	1019659	1019668	1262095	15.4	73.0	51.0	178	44.5	127	106	313	225	246	57.0	6.35	3.30
2	35	1019677	1019686	–	23.7	82.5	57.0	197	51.0	146	122	348	253	275	61.0	6.35	3.30
2-1/2	55	1019695	1019702	–	44.6	105	70.0	267	66.5	184	145	453	327	345	79.5	6.35	6.35
3	† 85	1019711	–	–	70	127	82.5	330	76.0	200	165	546	365	384	92.0	6.35	6.35
3-1/2	† 120 ‡	1019739	–	–	120	133	95.5	372	92.0	229	203	626	419	432	105	6.35	6.35
4	† 150 ‡	1019757	–	–	153	140	108	368	104	254	229	653	468	451	116	6.35	6.35

* NOTE: Maximum Proof Load is 2 times the Working Load Limit. Minimum Ultimate Strength is 6 times the Working Load Limit. For Working Load Limit reduction due to side loading applications, see page 94. † Individually Proof Tested with certification. ‡ Furnished in Anchor style only and furnished with eyebolts for handling.

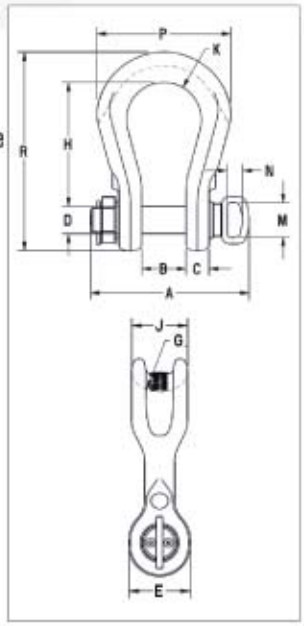
_G-2160 / S-2160_

Crosby

SHACKLES

G-2160 / S-2160

- Increase in shackle bow radius provides minimum 58% gain in sling bearing surface and eliminates need for a thimble.
- Increases usable sling strength a minimum of 15% and greatly improves life of wire rope slings.
- Can be used to connect synthetic web slings, synthetic round slings or wire rope slings.
- All sizes Quenched & Tempered for maximum strength.
- Forged alloy steel from 7 through 300 metric tons.
- Cast alloy steel from 400 through 1550 metric tons.
- Proof tested as follows:
  - 7 through 75 metric tons and 200 through 300 metric tons: 2 x WLL
  - 125 metric tons: 1.6 x WLL
  - 400 metric tons and higher: 1.33 x WLL
- All ratings are in metric tons, embossed on side of bow.
- G-2160, (7 through 55t), are hot-dip galvanized and pins are painted red.
- G-2160 (75t and larger), bows are furnished Dimetcoted; Pins are Dimetcoted, then painted red.
- S-2160 bows and pins are painted red.
- Shackles 30t and larger are RFID equipped.
- Approved for use at -40° C (-40° F) to 204° C (400° F).
- Bow and bolt are certified to meet Charpy impact testing of 42 Joules (31 ft-lb) min. avg. at -20° C (-4° F).
- All 2160 shackles are individually proof tested and magnetic particle inspected. Crosby certification available at time of order.
- Shackles requiring ABS, Lloyds and other certifications are available upon special request and must be specified at time of order.
- Type approved and certification to DNV Rules for Certification of Lifting Appliances, and are produced in accordance with DNV MSA requirements. Databook is provided that includes required documents.
  - Serialization / Identification
  - Material Testing (physical / chemical / Charpy)
  - Proof Testing
- Look for the Red Pin®... the mark of genuine Crosby quality.



G-2160 / S-2160 Wide Body Shackles

Working Load Limit (t)*	Stock No.		Weight Each (kg)	Dimensions (mm)														
	G-2160	S-2160		A	B +/- .25	C	D +/- .02	E	G	H	J	K	M	N	P	R	Effective Body Diameter
7	1021256	1021548	1.81	105	31.8	17.5	22.4	46.2	31.8	90.4	40.6	31.8	-	-	104	149	53.3
12.5	1021265	1021557	4.54	137	42.9	23.4	28.7	60.5	34.8	118	54.1	41.4	-	-	140	194	61.0
18	1021274	1021566	6.8	170	51.6	29.5	35.1	68.3	38.1	148	63.5	50.8	-	-	172	238	71.1
30	1021283	1021575	11.34	195	60.2	35.1	41.4	88.9	63.5	176	79.5	63.5	-	-	216	289	104
40	1021285	1021584	20.9	236	73.2	42.9	50.8	102	44.4	205	95.3	76.2	-	-	270	346	91.4
55	1021287	1021593	32.21	263	82.6	50.8	57.2	118	66.8	238	114	88.9	-	-	311	397	109
75	1022101	-	51	382	105	60.7	69.9	136	95.3	293	127	92.5	102	45.7	321	474	160
125	1022110	-	87	465	130	78.7	80.0	165	95.3	365	150	110	102	45.7	393	584	173
200	1022118	-	191	491	150	86.1	105	214	133	480	217	138	102	45.7	515	773	241
300	1022127	-	365	574	187	109	133	267	156	600	264	160	102	45.7	608	957	290
400	1021334	-	518	772	220	131	160	320	203	575	320	185	102	45.7	690	985	363
500	1021343	-	653	849	250	146	180	340	205	630	340	225	102	45.7	790	1085	376
600	1021352	-	967	916	275	158	200	394	330	700	370	247	146	57.2	865	1200	516
700	1021361	-	1170	990	300	167	215	433	223	735	400	270	146	57.2	940	1275	422
800	1021254	-	1372	1059	325	185	230	449	248	750	420	277	146	57.2	975	1323	457
900	1021389	-	1712	1112	350	198	250	478	330	757	440	293	146	57.2	1025	1387	569
1000	1021370	-	1850	1169	380	212	270	508	261	760	460	308	146	57.2	1075	1405	490
1250	1021272	-	2588	1278	432	233	300	573	354	930	530	323	-	-	1175	1660	620
1550	1021281	-	3650	1588	465	282	320	616	318	1075	580	338	-	-	1316	1896	693

5:1 Design Factor on 75 through 300 metric tons. Maximum Proof Load is 2 times the Working Load Limit on 75 through 300 metric tons (except for 125 metric tons which is proof tested to 1.6 times the Working Load Limit). 4.5:1 Design Factor on 400 through 1550 metric tons. Maximum Proof Load is 1.33 times the Working Load Limit on 400 through 1550 metric tons.

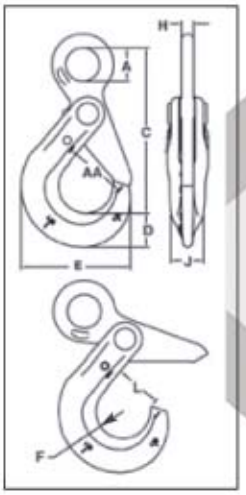
APPLICATION AND WARNING INFORMATION SECTION 17

Crosby® SHUR-LOC® Hooks

S-1316
EYE 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 to 1-800-777-1555.



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.

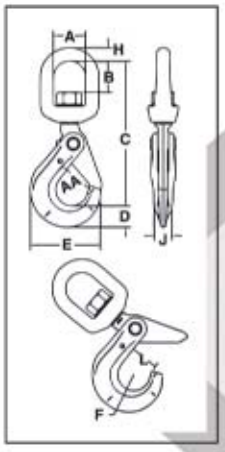
S-1316 Eye Hook • SHUR-LOC® Hook Series with Positive Locking Latch

Chain Size		Frame code	Grade 100 Alloy Chain Working Load Limit (t)* 4:1	Working Load Limit (t) 5:1	S-1316 Stock No.	Weight Each (kg)	Dimensions (mm)								
(in)	(mm)						A	C	D	E	F	H	J	L	AA**
-	6	D	1.45	1.00	1022896	.39	19.8	100	20.1	66.0	17.0	7.87	16.0	29.5	38.1
1/4-5/16	7-8	G	2.60	1.90	1022914	.82	27.4	135	27.9	88.9	22.1	9.91	20.6	37.6	51.0
3/8	10	H	4.00	2.50	1022923	1.54	33.0	167	29.7	112	27.9	12.9	23.9	46.5	63.5
1/2	13	I	6.80	5.62	1022932	2.72	41.9	209	42.4	139	32.0	17.0	29.5	56.4	76.2
5/8	16	J	10.30	7.53	1022941	6.83	55.9	256	51.8	167	38.1	22.1	38.1	67.3	89.0
3/4	18-20	-	16.00	9.98	1022942	8.61	66.0	274	56.4	197	51.1	22.1	51.6	89.4	-
7/8	22	-	19.40	12.0	1022943	12.7	72.9	317	62.2	222	57.7	24.9	55.9	97.3	-
1	26	-	27.10	-	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.

Crosby® SHUR-LOC® Hooks

S-1326
SWIVEL HOOK



- Forged Alloy Steel - Quenched and Tempered.
- Individually Proof Tested at 2-1/2 times the Chain Working Load Limit with certification
- 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.
- Rated for both Wire Rope and use with Grade 80/100 Chain or G-411 Standard Th
- G-414 Heavy Thimble or G-411 Standard Thimble should be used with wire rope slings.
- Trigger Repair Kit available (S-4316). Consists of spring, roll pin and trigger.
- S-13326 Swivel Hook utilizes anti-friction bearing design which allows hook to rotate freely under load.
- Fatigue rated.
- 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).
- "Look for the Platinum Color – Crosby Grade 100 Alloy Products."

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

Chain Size		Grade 100 Alloy Chain Working Load Limit (t) 4:1*	Working Load Limit (t) 5:1*	S-1326 Stock No.	Weight Each (kg)	Dimensions (mm)									
(in)	(mm)					A	B	C	D	E	F	H	J	L	AA**
-	6	1.45	1.16	1004304	.57	38.1	33.5	156	20.1	66.0	17.0	12.7	16.0	28.7	38.1
1/4 - 5/16	7-8	2.59	2.1	1004313	1.18	44.5	40.4	193	27.9	88.9	22.1	16.0	20.6	35.1	51.0
3/8	10	3.99	3.2	1004322	2.13	50.8	43.9	224	29.7	112	27.9	19.1	23.9	44.5	63.5
1/2	13	6.80	5.4	1004331	3.92	63.5	60.5	284	42.4	139	32.0	25.4	29.5	53.6	76.2
5/8	16	10.3	8.2	1004340	7.71	69.9	64.3	328	51.8	167	38.1	28.7	38.1	63.2	89.0
3/4	18 - 20	16.0	12.8	1004349	10.9	71.9	64.0	358	56.4	197	51.1	27.9	51.6	89.4	127
7/8	22	20.0	16.0	1004358	13.2	87.4	81.0	417	62.2	222	57.4	33.0	55.9	97.3	152

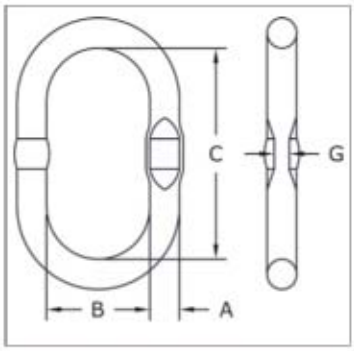
*Ultimate Load is 4 times the Working Load Limit. ** Deformation Indicators.

A-344 MASTER LINKS

Crosby

A-344

- Alloy steel — Quenched & 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 EN1677.
- Each main link is marked with Product Identification Code (PIC) for material traceability, Grade, CE, chain size and the "CG" (Crosby Group).
- A-344 master links are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby master links are 100% proof tested. Every batch is 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.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit.
- 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.
- 13mm through 32mm have Engineered Flat.



11mm through 31mm have Engineered Flat.

Grade 80 A-344 Welded Master Links available with Engineered Flat

Stock No.	Weight Each (kg)	Grade 100 Chain Sling		Grade 80 Chain Sling		WLL (t)	Proof Load (t)	Dimensions (mm)				Engineered Flat Size for S-1325A (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	
1256988	0.36	6, 7	6, 7	6, 7, 8	6, 7, 8	3.2	8.0	13	60	120	6.5	6, 7, 8
1257002	0.84	8, 10	8	8, 10	8	4.1	10.2	17	90	160	8.5	10
1257072	1.06	10, 13	10	10, 13	10	6.7	16.7	19	90	160	8.5	10, 13
1257268	2.34	10, 13	10	10, 13	10	7.0	17.5	22	145	275	10.5	13
1257212	1.63	13	10	13, 16	13	8.8	22.0	22	100	180	10.5	13
1257332	3.04	13		13, 16	13	8.9	22.2	25	145	275	13.5	16
1257282	2.41	13, 16	13	16	16	11.5	28.7	25	115	210	13.5	16
1257382	3.86	13, 16	13	16	16	13.0	32.5	28	145	275	13.5	16
1257422	4.82	16	16	19, 20	19, 20	17.0	42.5	32	145	275	16.7	-
1257492	6.88	20	20	20, 22	20, 22	24.0	60.0	36	155	285	-	-
1257502	7.31	22, 23	22, 23	23, 26	23, 26	31.5	78.7	40	140	270	-	-
1257562	12.89	26	26	26	26	38.3	95.7	45	180	340	-	-
1257632	19.12	26	26	32	32	45.0	112.5	51	215	390	-	-
1257573	25.10	32	32	32	32	67.0	167.5	55	203	406	-	-

5:1 Design Factor. 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. Chain slings require that the Design Factor be 4:1. Refer to applications & warnings to determine product's actual Ultimate Load. There are no manufactured flats on links over 1 1/4" (32mm).

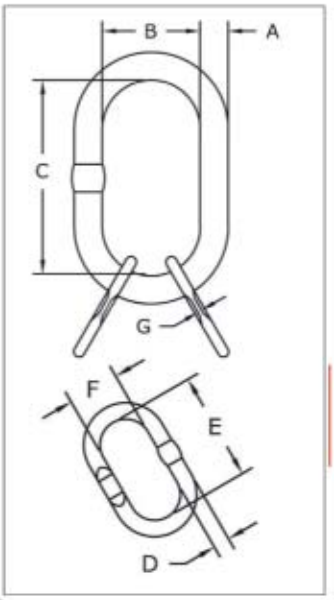
A-347 MASTER LINKS

Crosby

MASTER LINKS

A-347

- Alloy steel — Quenched & 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 EN1677.
- 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-347 master links are type approved to DNV Certification Notes 2.7-1- Offshore Containers. These Crosby master links are 100% proof tested. Every batch is 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.
- Fatigue rated to 20,000 cycles at 1.5 times the Working Load Limit.
- 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.
- Available only in EMEA.



Grade 80 A-347 Welded Master Link Assembly with Engineered Flat

Stock No.	Weight Each (kg)	Grade 100 Chain Sling Three / Four Legs Chain Size (mm)	Grade 80 Chain Sling Three / Four Legs Chain Size (mm)	WLL (t)	Proof Load (t)	Dimensions (mm)							Engineered Flat Size for S1325A Chain Size (mm)
						A	B	C	D	E	F	G	
1257755	1.1	6	6	3.2	8.0	13	60	120	13	120	60	6.5	6
1257762	1.6	6	6, 7	4.1	10.3	17	90	160	13	120	60	6.5	6, 7
1257832	1.8	6, 7	7	4.2	10.6	19	90	160	13	120	60	6.5	7, 8
1258058	3.3	8	10	7.0	17.5	22	100	180	17	160	90	8.5	10
1258067	4.1	8	10	7.0	17.5	22	145	275	17	160	90	8.5	10
1258049	3.8	10	10	8.5	21.2	22	100	180	19	160	90	8.5	10
1258076	4.6	10	10	8.9	22.2	25	115	210	19	160	90	8.5	10
1258102	5.3	10	10	8.9	22.2	25	145	275	19	160	90	8.5	10
1258142	7.2	13	13	14.5	36.2	28	145	275	22	180	100	10.5	13
1258182	9.9	13	16	17.0	42.5	32	145	275	25	210	115	13.5	16
1258185	12.7	16	16	23.6	59.0	36	155	285	28	190	110	13.5	16
1258187	18.4	16	19, 20	28.1	70.2	40	140	270	32	275	145	16.7	-
1258402	26.7	19, 20	22	38.3	95.7	45	180	340	36	285	155	-	-
1258471	35.5	22, 23	26	45.0	112.5	51	215	390	40	270	140	-	-
1258491	61.1	26	32	67.0	167.5	55	203	406	51	390	215	-	-

5:1 Design Factor. 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. Chain slings require that the Design Factor be 4:1. Refer to applications & warnings to determine product's actual Ultimate Load. There are no manufactured flats on links over 1 1/4" (32mm).

Crosby

WIRE ROPE END FITTINGS

CROSBY VALUE ADDED

- **Full line:** Crosby provides both forged Red U-Bolt Clips and forged Fist Grip Clips.
- **Forged:** Crosby Red U-Bolt Clips have forged bases on all sizes, except 70mm and 89mm base is a steel casting. The entire clip is galvanized to resist corrosive and rusting action. Clip sizes 3mm through 40mm have U-Bolts with rolled threads which enhance the strength of the material and fatigue properties.
- **Forged:** Fist Grip Clips are forged, and the entire clip is galvanized. The double saddle design eliminates the possibility of incorrect installation. Designed as an integral part of the clip, the bolts are opposite one another (see G-429 example below). As result, the nuts can be installed in such a way as to enable the operator to swing the wrench in a full arc for ease of installation.
- **Application information:** Application and warning information is available for both Crosby Red U-Bolt Clips and Fist Grip Clips. The Crosby Warning System is designed to attract the attention of the user, clearly inform the user of the factors involved in the task, and provide the user with proper application procedures. Each Crosby Red U-Bolt Clip and Fist Grip Clip is either bagged or tagged with appropriate application and warning information, thus ensuring that the information is available at the point of application for each and every clip during installation.
- **Material analysis:** Crosby can provide certified material (mill) analysis for each production lot, traceable by the Product Identification Code (PIC). Crosby, through its own laboratory, verifies the analysis of each heat of steel.
- **Testing:** Crosby periodically audits the termination efficiencies of the Red U-Bolt Clips and Fist Grip Clips. Upon special request, Crosby will determine the efficiencies of clip assemblies when applied to special rope constructions and special applications.

G-450

G-429

S-421T

S-423T

G-416

G-417

S-409

S-505

S-501

S-502

G-411

G-450 WIRE ROPE END FITTINGS

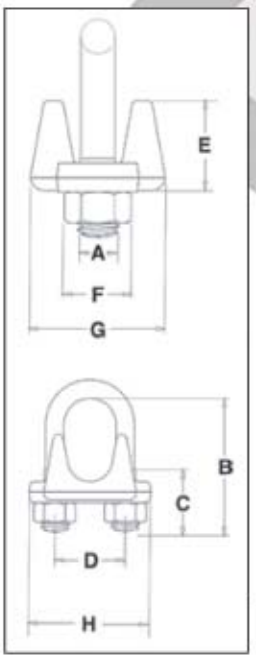
Crosby

G-450
Red-U-Bolt®, Clip

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. For additional information, see page 476.

- Each base has a Product Identification Code (PIC) for material traceabilit , 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, ductilit , 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.

G-450 Crosby® Clips



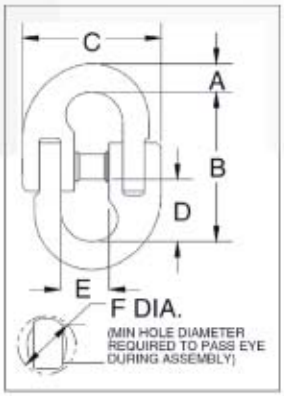
Rope Size		G-450 Stock No.	Std. Package Qty.	Weight Per 100 (kg)	Dimensions (mm)							
(mm)	(in)				A	B	C	D	E	F	G	H
3-4*	1/8*	1010015	100	2.72	5.60	18.3	11.2	11.9	10.4	9.65	20.6	23.9
5*	3/16*	1010033	100	4.54	6.35	24.6	14.2	15.0	12.7	11.2	23.9	29.5
6-7	1/4	1010051	100	8.62	7.85	26.2	12.7	19.1	16.8	14.2	30.2	36.6
8	5/16	1010079	100	12.7	9.65	35.1	19.1	22.4	18.3	17.5	33.3	42.9
9-10	3/8	1010097	100	21.8	11.2	38.1	19.1	25.4	23.1	19.1	41.4	49.3
11-13	7/16 - 1/2	1010131	50	80	.50	1.88	1.00	1.19	1.13	.88	1.91	2.28
14-16	9/16 - 5/8	1010177	50	110	.56	2.25	1.25	1.31	1.34	.94	2.06	2.50
18-20	3/4	1010195	25	64	15.7	70.0	36.6	38.1	35.8	26.9	57.0	72.0
22	7/8	1010211	25	96	19.1	79.0	41.1	44.5	40.4	31.8	62.0	80.5
24-26	1	1010239	10	114	19.1	89.0	46.0	47.8	45.2	31.8	67.0	88.0
28-30	1-1/8	1010257	10	128	19.1	98.5	51.0	51.0	48.5	31.8	71.5	91.0
32-34	1-1/4	1010275	10	199	22.4	108	54.0	59.4	55.5	36.6	79.5	105
36	1-3/8	1010293	10	200	22.4	118	58.5	59.4	58.5	36.6	79.5	106
38	1-1/2	1010319	10	247	22.4	125	60.5	66.5	62.0	36.6	86.5	113
41-42	1-5/8	1010337	Bulk	319	25.4	135	66.5	70.0	67.5	41.4	92.0	121
44-46	1-3/4	1010355	Bulk	424	28.7	146	70.0	77.5	74.5	46.0	97.0	134
48-52	2	1010373	Bulk	590	31.8	164	76.0	86.0	77.0	51.0	113	149
56-58	2-1/4	1010391	Bulk	726	31.8	181	81.0	98.5	81.0	51.0	114	162
62-65	2-1/2	1010417	Bulk	862	31.8	195	87.5	105	93.5	51.0	119	168
** 68-72	** 2-3/4	1010435	Bulk	1043	31.8	211	90.5	111	124	51.0	127	175
75-78	3	1010453	Bulk	1406	38.1	233	98.5	121	119	60.5	149	194
** 85-90	** 3-1/2	1010426	Bulk	1814	38.1	273	114	140	152	60.5	157	213

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

_ LOK A LOY CONNECTING LINK A-1337 _

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.
- Meets ASTM A-952 standards for Grade 100 chain fittings.
- Forged alloy steel — Quenched & Tempered.
- Sizes 9/32 through 1 inch are fatigue rated.



A-1337 LOK-A-LOY® 10 Alloy Connecting Link

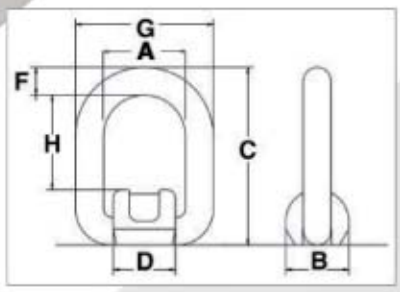
Chain Size (in)	Chain Size (mm)	Stock No.	Pkg. Qty.	Weight Each (lb)	Working Load Limit (lb)	Dimensions (in) A	B	C	D	E	F
9/32 (1/4)	7	1015104	60	0.29	4300	0.38	1.94	2.00	0.80	0.68	0.53
5/16	8	1015113	50	0.42	5700	0.37	2.36	2.13	0.99	0.72	0.59
3/8	10	1015122	40	0.77	8800	0.51	2.65	2.55	1.09	0.91	0.73
1/2	13	1015136	12	1.60	15000	0.68	3.46	3.39	1.45	1.13	0.89
5/8	16	1015145	10	3.10	22600	0.78	4.25	4.00	1.77	1.34	1.20
3/4	20	1015154	1	6.39	35300	1.01	5.14	5.30	2.15	1.64	1.56
7/8	22	1015163	1	7.85	42700	1.09	5.46	5.78	2.27	1.97	1.55
1	26	1015172	1	11.05	59700	1.24	5.94	6.50	2.41	2.21	1.88
1-1/4	32	1015181	1	21.00	90400	1.56	7.43	7.60	3.07	2.57	2.22

4:1 Design Factor.

_ FORGET LINK S-265 _

S-265

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



APPLICATION AND WARNING INFORMATION SECTION 17

S-265 Forged Link

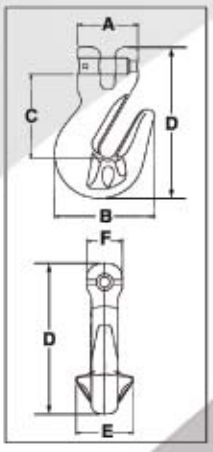
Working Load Limit (lb) Design Factor 5:1	Working Load Limit (lb) Design Factor 4:1	Stock No.	Weight Each (lb)	Dimensions (in) A	B	C	D	F	G	H
2200	2600	1290839	0.8	1.57	1.42	3.27	1.38	0.51	2.60	1.65
5500	7050	1290848	1.3	1.77	1.73	3.90	1.65	0.71	3.19	1.89
9250	11650	1290857	2.6	2.17	1.97	4.84	1.93	0.87	3.90	2.24
14100	17600	1290866	5.2	2.76	2.52	5.67	2.52	1.02	4.80	2.64
25450	33050	1290875	13.0	3.82	3.54	7.60	3.39	1.34	6.50	3.70

_ CHAIN & ACCESSORIES A-1338 _

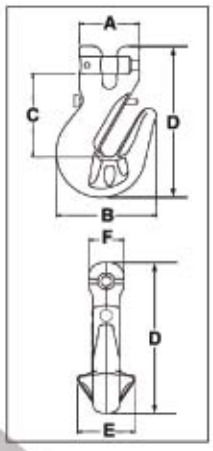
A -1338
Cradle Grab Hook

- Forged Alloy Steel - Quenched and Tempered.
- Innovative cradle design allows for 100% efficiency of Grade 100 chain
- Individually Proof Tested to 2-1/2 times the Working Load Limit with certification
- Each hook has a Product Identification Code (PIC) for material traceabilit , along with the size and the name Crosby.
- Suitable for use with Grade 100 and Grade 80 chain.
- The use of A-1338 Cradle Grab Hook will allow 100 percent of the chain sling capacity. When used to hook back to chain leg to form a choker, the angle of the choke must be 120 degrees or greater. When used as a chain shortener, minimize twist of chain and ensure chain is fully engaged in hook.
- 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."

L-1338
Cradle Grab Hook



Crosby



A/L-1338 Cradle Grab Hook

Chain Size (in)	Chain Size (mm)	Working Load Limit (t)*	A-1338 Stock No.	L-1338 Stock No.	Weight Each (kg)	Dimensions (mm) A	B	C	D	E	F	S-4338 Replacement Latch Kit Stock No.
1/4	7	2.0	1049417	1049480	.45	43.7	64.5	55.9	98.5	38.1	22.4	1048426
5/16	8	2.6	1049426	1049489	.45	43.7	64.5	55.4	98.5	38.1	22.4	1048426
3/8	10	4.0	1049435	1049498	.82	47.0	78.5	65.5	119	46.5	27.7	1048435
1/2	13	6.8	1049444	1049507	1.78	60.7	97.3	83.3	149	57.2	36.1	1048444
5/8	16	10.3	1049453	1049516	3.18	67.8	115	97.8	179	74.5	44.5	1048453

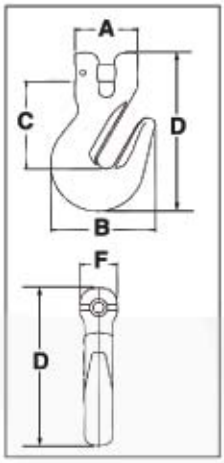
* Ultimate Load is 4 times the Working Load Limit.

_ CHAIN & ACCESSORIES A-1358 _

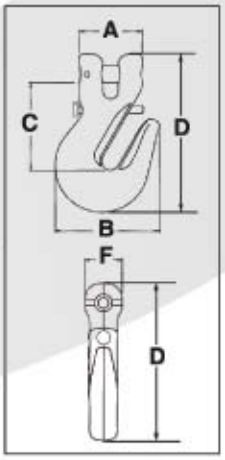
A -1358
Grab Hook

- 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 traceabilit , 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."

L -1358
Grab Hook



Crosby



A/L-1358 Grab Hook

Chain Size (in)	Chain Size (mm)	Working Load Limit (t)*	A-1358 Stock No.	L-1358 Stock No.	Weight Each (kg)	Dimensions (mm) A	B	C	D	F	S-4338 Replacement Latch Kit Stock No.
1/4	7	2.0	1049610	1049605	.45	43.7	64.5	55.9	98.5	22.4	1048426
5/16	8	2.6	1049629	1049614	.45	43.7	64.5	55.4	98.5	22.4	1048426
3/8	10	4.0	1049638	1049623	.82	47.0	78.5	65.5	119	27.7	1048435
1/2	13	6.8	1049647	1049634	1.78	60.7	97.3	83.3	149	36.1	1048444
5/8	16	10.3	1049656	1049643	3.18	67.8	115	97.8	179	44.5	1048453

* Ultimate Load is 4 times the Working Load Limit.

GRADE 100 ALLOY CHAIN

Grade 100 Alloy Chain

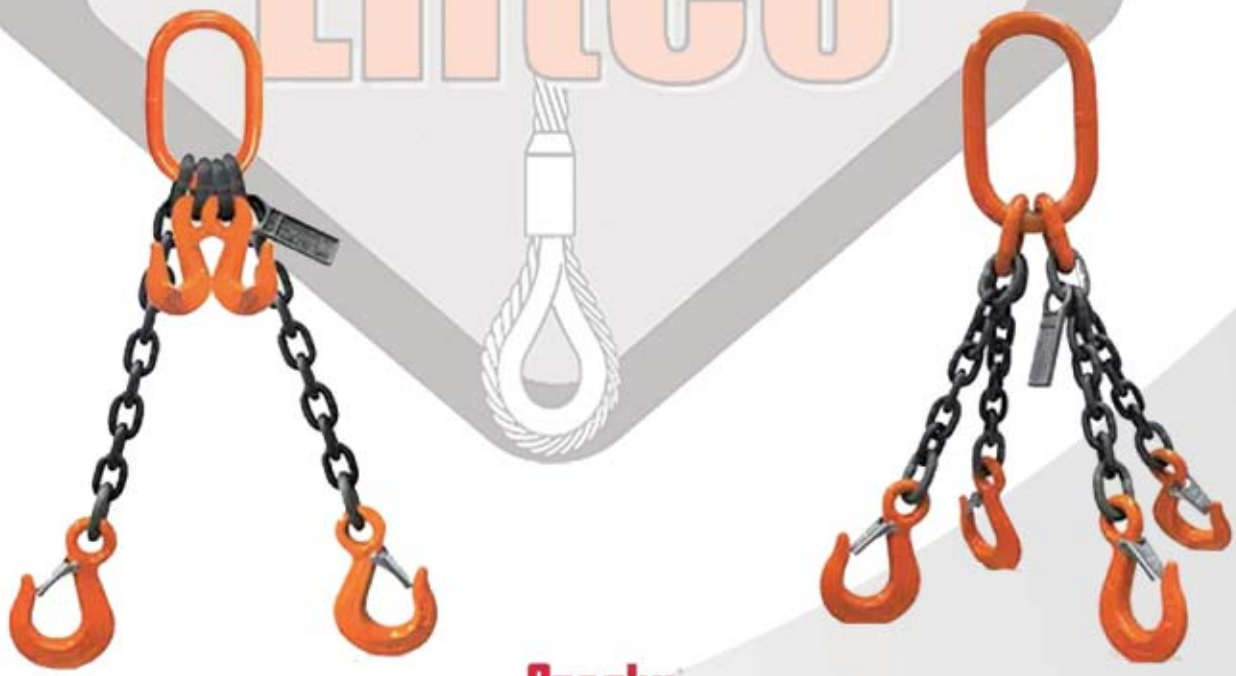
Spectrum 10®
Grade 100
Alloy Chain

- 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

Grade 100 Alloy Chain Recommended for overhead lifting applications

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	2.0	1.05
5/16	8	1210076	200	8 x 24	2.5	1.25
3/8	10	1210097	200	10 x 30	4.0	2.20
1/2	13	1210118	150	13 x 39	6.7	3.80
5/8	16	1210139	100	16 x 48	10.0	5.70
3/4	19	1210160	50	19 x 57	14.0	8.03
7/8	22	273867	50	23 x 69	21.0	10.9
7/8	23	1210202	50	23 x 69	21.0	10.9
1	26	1210232	50	26 x 78	26.5	15.2
1-1/4	32	1210250	20	32 x 96	40.0	23.0

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



Yale®

Hoisting Equipment Ratchet lever hoists

Palan UNO

Ratchet lever hoists

Capacity 750 - 6000 kg

Designed and built for safe and efficient operation.
A hoist with low maintenance - at an economical price.

Features

- Strong bolts between side plates and housing cover ensure increased stability.
- Chain guide rollers eliminate fouling and jamming of chain.
- Bearings for side plates permit a long service life.
- Zinc-plated load chain as standard.
- Forged suspension and load hooks are made from high tensile steel and fitted with safety latches.

INFO

All ratchet lever hoists with a capacity exceeding 750 kg can be used for load attachment according to EN 12195.

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Hoisting Equipment Hand chain hoists

Yale®

Yale *VS III*

Hand chain hoist

Capacity 250 - 5000 kg

Extremely low overall height allows optimal use of available headroom. Fully enclosed stamped steel housing allows also outdoor use. The improved hand chain guide prevents canting or jamming of the hand chain, leading to a smooth running of the chain. High quality bearings on side plates, gearbox and load chain sheave ensure smooth operation of load chain and drive pinion. Optimized hand forces set standards for easy operation. The hooks are equipped with robust safety latches and can rotate 360°.

Features

- Strong bolts between side plates and housing cover and the reinforced hand wheel cover ensure increased stability.
- Precision machined guide rollers ensure smooth running of the load chain.
- High quality bearings for gearbox, side plates and load chain sheave permit a long service life.
- Zinc-plated and yellow-chromated brake parts and guide rollers ensure increased corrosion protection.
- Zinc-plated load chain as standard for added corrosion protection.

Options

- Overload protection device (from 500 kg available)
- Chain container

Load chain sheave with needle bearing

Side plate with ball bearing

Housing cover with ball bearing

Hoisting Equipment Hand chain hoists

Yale®

Yale *VS III*

Hand chain hoist

Capacity 10000 - 50000 kg

Having long years of experience with this solid product, we decided to extend the VS*III* series by the load capacities 10 t, 20 t, 30 t and 50 t.

In order to serve all industries (even the paper- or the ship industry), the VS*III* lifts the loads very sensitively, as the components and construction parts have been positioned very precisely.

Features

- Strong bolts between side plates and housing cover and the reinforced hand wheel cover ensure increased stability.
- Precision machined guide rollers ensure smooth running of the load chain.
- High quality bearings for gearbox, side plates and load chain sheave permit a long service life.
- Zinc-plated and yellow-chromated brake parts and guide rollers ensure increased corrosion protection.
- Zinc-plated load chain as standard for added corrosion protection.

Options

- Overload protection device (from 500 kg available)
- Chain container

SERIES EXTENSION

NOW WITH HIGH SWL!

10000 - 50000 kg

INFO

To avoid bruising or injuries, the chain inlet as well as the top hook connection is covered in protective material.

Hoisting Equipment Hand chain hoists

Yale®

Technical data VS*III*

Model	Art.-No.	Capacity in kg/ Number of chain falls	Chain dimensions d x p in mm/ design	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
VS*III* 0,25/1	N04200123	250/1	4 x 12 - T	50	20	4.9
VS*III* 0,5/1	N04200124	500/1	5 x 15 - T	26	21	9.0
VS*III* 1,0/1	N04200125	1000/1	6 x 18 - T	24	24	11.5
VS*III* 1,5/1	N04200134	1500/1	8 x 24 - T	17	30	17.5
VS*III* 2,0/1	N04200126	2000/1	8 x 24 - T	19	32	19.0
VS*III* 2,0/2	N04200127	2000/2	6 x 18 - T	15	29	17.3
VS*III* 3,0/1	N04200128	3000/1	10 x 30 - T	12	40	31.0
VS*III* 3,0/2	N04200129	3000/2	8 x 24 - T	10	37	27.0
VS*III* 5,0/2	N04200130	5000/2	10 x 30 - T	8	41	4.0
VSIII 10/4	192039383	10000/4	10 x 30 - T	2.84	37	78.5
VS*III* 20/8	192039384	20000/8	10 x 30 - T	1.42	44.5	197
VS*III* 30/12	192039385	30000/12	10 x 30 - T	0.83	46.3	268
VS*III* 50/18	192039386	50000/18	10 x 30 - T	0.56	53.6	540

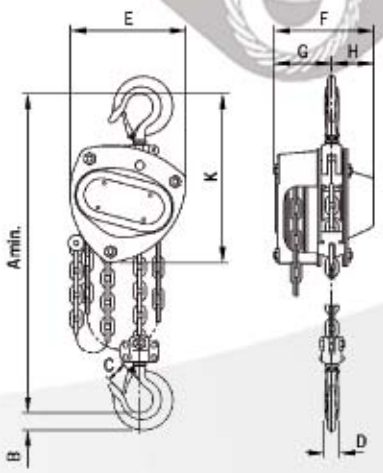
Dimensions VS*III*

Model	VS*III* 0.25/1	VS*III* 0.5/1	VS*III* 1.0/1	VS*III* 1.5/1	VS*III* 2.0/1	VS*III* 2.0/2	VS*III* 3.0/1	VS*III* 3.0/2	VS*III* 5.0/2	VS*III* 10/4	VS*III* 20/8	VS*III* 30/12	VS*III* 50/18
A min., mm	290	350	380	450	460	490	570	580	700	860	950	1112	1700
B, mm	12	21	27	33	37	37	46	46	56	63	90	90	165
C, mm	26	28	32	37	41	41	44	44	50	65	86	85	135
D, mm	11	16	19	22	27	27	31	31	37	47	69	67	108
E, mm	118	145	158	180	205	170	240	220	250	463	860	704	776
F, mm	113	140	155	175	180	155	210	175	190	104	200	410	627
G, mm	65	80	87	85	94	87	110	94	95	55	100	225	314
H, mm	48	60	68	90	86	68	100	81	95	50	100	186	314
K, mm	190	240	270	300	320	285	370	340	410	448	508	528	656

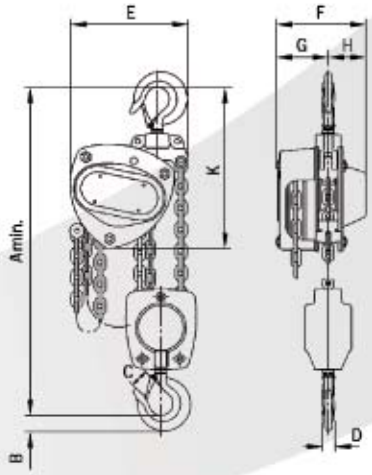
INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

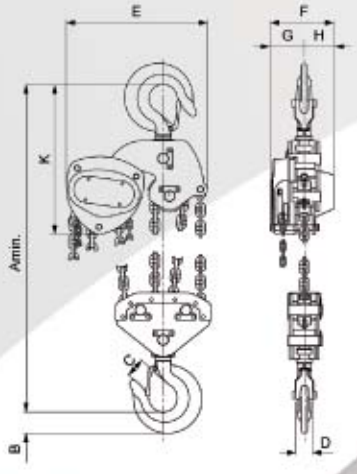
Option: Chain container



VS*III*, 250 - 3000 kg, single fall



VS*III*, 2000 - 5000 kg, double fall



VS*III*, 10000 kg, four chain falls

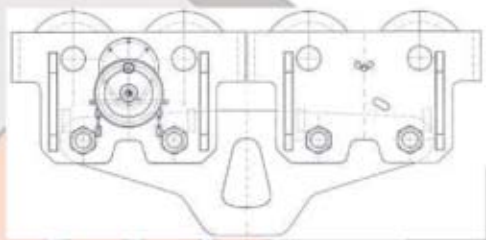
INFO

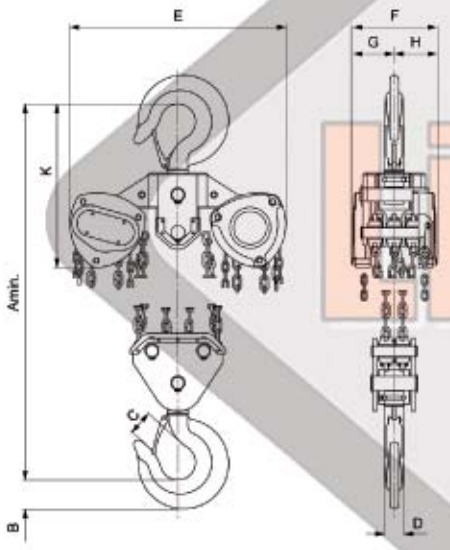
HTG trolleys for hand chain hoists upwards 10000 kg
please see pages 54-57.

SERIES EXTENSION

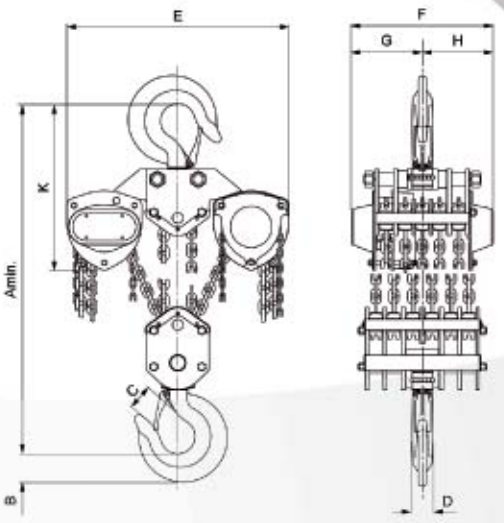
NOW WITH HIGH SWL!

10000 - 50000 kg

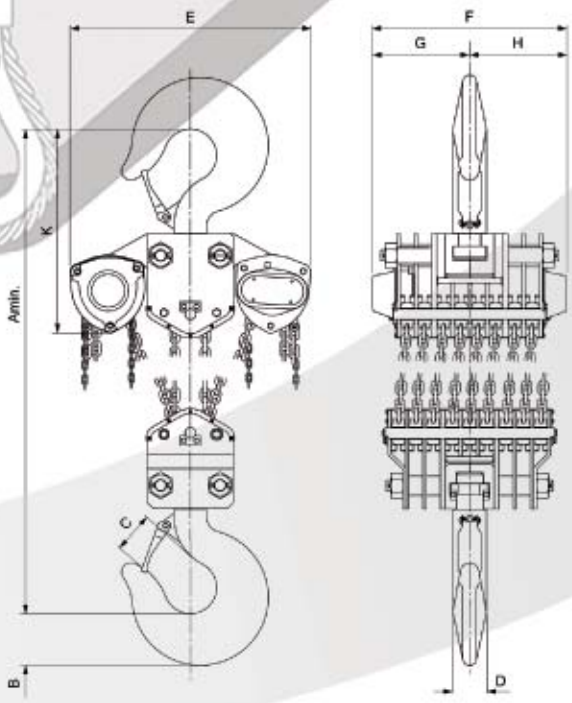




VS*III*, 20000 kg, eight chain falls



VS*III*, 30000 kg, twelve chain falls



VS*III*, 50000 kg, eighteen chain falls

_ Hand chain hoist_

Yale®

Yalelift 360

Hand chain hoist

Capacity 500 - 10000 kg

Areas of operation as well as operator conditions have been improved far beyond those of a classical hand chain hoist.

Features

- The enclosed robust stamped steel housing protects all internal components even in the toughest conditions.
- The extremely low headroom allows maximum use of the lifting height.
- The revolutionary 360° rotating hand chain guide allows the operator to work from virtually any position, in confined spaces or above the load. The Yalelift can even be operated from the side of the load which also makes it possible to use the hoist for horizontal pulling or tensioning. Due to the additional flexibility, the operator is no longer forced to work in the danger zone near the load.
- The brake system is extremely quiet and guarantees operational safety and improved serviceability due to omission of the vulnerable ratchet pawls. All parts are made of high quality materials, additionally zinc-plated or yellow-chromated to increase corrosion prevention.
- Chain guide and gearbox are almost totally enclosed. Even under the toughest conditions the internal gearbox remains protected.
- The hardened load sheave with four precision machined pockets ensures accurate movement of the load chain.
- The surface protected zinc-plated alloy steel load chains fulfil all requirements of current national and international standards and regulations. They are optimally matched to the load sprocket and ensure safe and long-lasting operation of the unit.
- Forged load and suspension hooks that yield under overoad instead of breaking, are made of high tensile steel. The hooks are fitted with robust safety latches and rotate 360°.

Options

- Adjustable overload protection device.
- Chain container
- Corrosion resistant version

EXPERIENCE THE ADVANTAGE OF 360°

We are pleased to send you our new Atex catalogue in PDF format.

INFO

Easy modification from Yalelift 360 to Yalelift IT is possible.

Hoisting Equipment Hand chain hoists

Yale®

Yale*lift 360*

Hand chain hoist, 20 t

Capacity 20000 kg

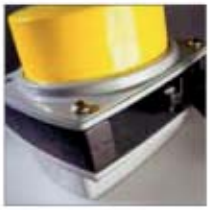
In spite of its high capacity, the Yale*lift 360* 20 t features a compact design.

Features

- All components are made of high quality materials, some components are zinc-plated or yellow-chromated for added corrosion protection. This ensures that also heaviest loads are held reliably.
- The enclosed robust stamped steel body resists in the toughest conditions and allows outside operation.
- The hardened load sheave with five precision machined pockets ensures accurate movement of the load chain.
- The low headroom (hook-to-hook dimension 1065 mm) allows maximum use of the lifting height.
- The Yale*lift 360* 20 t is equipped with six chain falls only which results in higher speed and lower weight.

Options

- Adjustable overload protection device.
- Chain container
- Corrosion resistant version



The robust stamped steel housing with four stay bolts is resistant to the toughest working conditions.

Chain guide

UPGRADE

SIMPLE & FLEXIBLE

FROM Yale*lift 360* TO Yale*lift* IT

Hoisting Equipment Hand chain hoists

Yale®

Technical data Yale*lift*

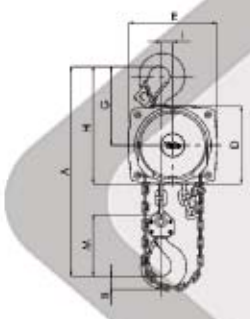
Model	Art.-No.	Capacity kg	Number of chain falls	Chain dimensions d x p in mm/ design	Lift per 1 m hand chain overhaul mm	Handle pull at WLL daN	Weight at standard lift (3 m) kg
YL 500	N04700109	500	1	5 x 15 - T	33	21	9
YL 1000	N04700110	1000	1	6 x 18 - T	20	30	13
YL 2000	N04700111	2000	1	8 x 24 - T	14	32	21
YL 3000	N04700112	3000	1	10 x 30 - V	12	38	34
YL 5000	N04700113	5000	2	10 x 30 - T	6	34	48
YL 10000	N04700075	10000	3	10 x 30 - V	4	44	71
YL 20000	N04700077	20000	6	10 x 30 - V	2	2 x 44	196

Hoisting Equipment Hand chain hoists

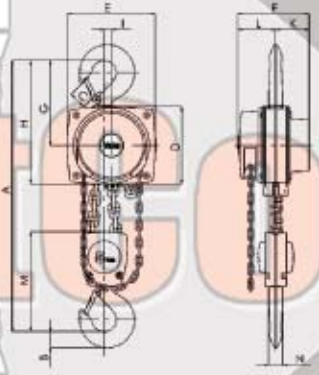
Yale®

Dimensions Yale*lift*

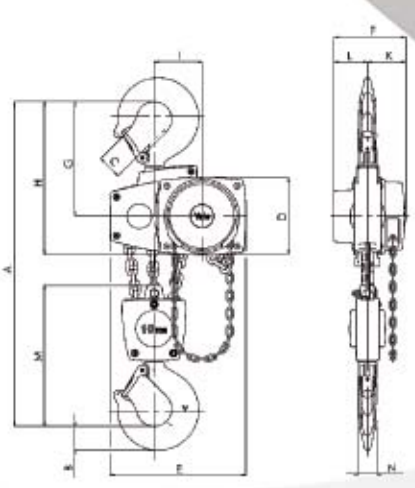
Model	YL 500	YL 1000	YL 2000	YL 3000	YL 5000	YL 10000	YL 20000
A min., mm	300	335	395	520	654	825	1065
B, mm	17	22	30	38	45	68	85
C, mm	24	29	35	40	47	68	64
D, mm	133	156	182	220	220	220	303
E, mm	148	175	203	250	250	383	555
F, mm	148	167	194	219	219	219	250
G, mm	139	164	192	225	242	326	391
H, mm	206	242	283	335	352	436	501
I, mm	24	24	31	34	21	136	–
K, mm	61	70	83	95	95	95	396
L, mm	87	97	111	124	124	124	125
M, mm	110	125	156	178	285	401	471
N, mm	14	19	22	30	37	50	56



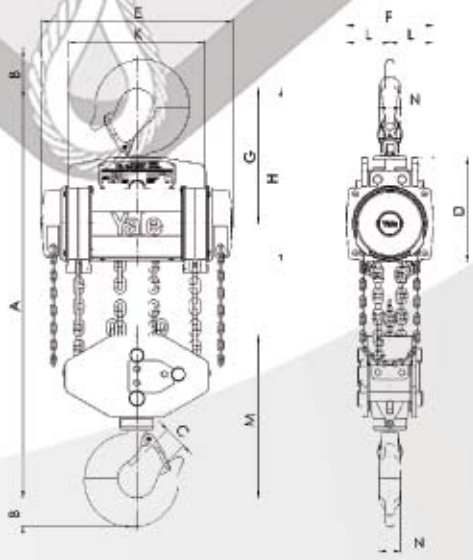
Yale*lift 360*, 500 - 3000 kg, single fall



Yale*lift 360*, 5000 kg, double fall



Yale*lift 360*, 10000 kg, three falls



Yale*lift 360*, 20000 kg, six falls

Hoisting Equipment Cable puller

Yale®

Yale*trac ST*

Cable puller

Pulling force 500 - 3200 daN

The portable Yale*trac ST* cable puller is a versatile tool for pulling, lifting, lowering, tensioning and securing loads over long distances. It has been specially designed for applications in industry, building construction, civil engineering, power line construction, ship building and oil refineries etc. The Yale*trac ST* cable puller is almost service free – easy to use and safe.

Cable pullers model Yale*trac ST* feature a housing of dimensionally stable deep-drawn steel plates ensuring a compact and robust design. The hand operating forces have been noticeably optimised for the user by the application of axial ball bearings.

Features

- Stable upright positioning of the unit due to the combination of handle and foot.
- Space-saving telescopic hand lever that can be safely attached to the unit by means of a hook-and-pile fastener. Short handle lever for Y05ST not telescopic.
- Overload protection is provided by a shearing pin. Spare shear pins are conveniently located in the carrying handle. A broken pin can be replaced without removing the load.
- Yale*trac ST* uses a special flexible rope. It has six strands with a steel core and is identified by an orange strand. The rope is tapered at one end for easy threading and is fitted with an eye sling hook with safety latch on the other end.
- The parallel arrangement of the clamping system protects the rope by distributing the clamping forces evenly. A long rope advance per each lever stroke increases the working speed.
- Increased service life of the unit due to the use of rubber sleeves which prevent dirt and dust from penetrating into the mechanical equipment of the unit.
- Positioning of the forward and reversing levers in tandem provides a slim design and ensures optimal power transfer.
- A lever disengages the rope clamp system allowing easy and smooth installation of the rope.
- The large opening in the top of the unit allows easy cleaning: simply flush the unit with water and apply motor oil for lubrication and the Yale*trac ST* is again ready for use.

Y10ST up to Y32ST

Options

- Eye sling hook with safety latch
- Longer ropes
- Drum reel
- Storage box made from steel plate

Hoisting Equipment Cable puller

Yale®

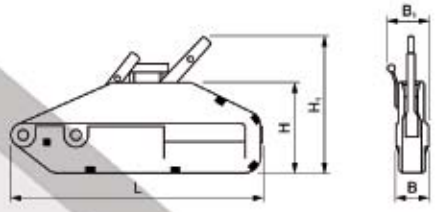
Technical data Yale*trac ST*

Model	Art.-No.	Capacity WLL kg	Rope advance per double stroke in mm	Lever pull at WLL daN	Lever length mm	Rope diameter mm	Weight without rope kg	Rope weight kg/m
Y 05 ST[1]	192043685	500	20	30	260	6.0	2.8	0.10
Y 10 ST	N02400009	1000	60	23	800	8.4	8.5	0.29
Y 16 ST	N02400010	1600	60	28	790/1190	11.2	15.8	0.53
Y 32 ST	N02400011	3200	40	46	790/1190	16.0	27.2	1.00

[1]see complete scope of delivery

Dimensions Yale*trac ST*

Model	Y 05 ST	Y 10 ST	Y 16 ST	Y 32 ST
L, mm	285	435	560	664
H, mm	116	178	205	240
H1, mm	164	235	280	350
B, mm	48	61	86	96
B1, mm	70	94	125	123



MODEL UPRATING

NOW ALSO AVAILABLE:
500 daN PULLING FORCE!
FOR MOBILE USE

Option only for Yale*trac 05 ST*
Useful shoulder bag

Model Yale*trac 05 ST*
Assembled and ready for operation (installed)

Y 05 ST

Scope of delivery

- Cable puller 500 kg capacity
- Hand lever
- Wire rope Ø 6 mm, 10 m
- Eye sling hook with safety latch
- Webbing sling HSE 00500

Option

- Shoulder bag

Hoisting Equipment Trolleys

Yale®

HTP (Push trolley)

HTG (Geared trolley)

SERIES EXTENSION

NOW WITH HIGH WWL!

30000 - 50000 kg

HTP and HTG
Push and geared trolley

Capacity 500 - 50000 kg

The trolley enables the exact positioning or easy traversing of large loads with either manual or powered hoisting equipment.

Features

- It has excellent rolling features due to machined steel wheels mounted on prelubricated, encapsulated ball bearings.
- Adjustable to fit a wide range of beam widths and profiles (e.g. INP, IPE and IPB).
- Adjustments are made by rotating the clevis load bar which also ensures the centred positioning of the hoist in the clevis – no creeping to the left or the right (up to 5000 kg capacity, from 8000 kg upwards the traverse is adjusted via sleeves and washers).
- The trolley wheels are designed for a max. beam profile incline of 14 % (DIN 1025 - part 1).

Options

up to 20000 kg capacity:

- Rotating hand chain guide.
- Stainless steel hand chains.
- Locking device to secure the trolley in position on the beam (park position e.g. on ships).
- Corrosion resistant version.

all capacities:

- Buffers

INFO

Yale hoists and trolleys are not designed for passenger elevation applications and must not be used for this purpose.

Hoisting Equipment Trolleys

Yale®

Technical data HTP

Model	Art.-No.	Capacity kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Hand effort at WLL daN	Weight kg	Weight with locking device kg
HTP 500	N05141273	500	A	50 - 220	25	0.9	–	8.0	14.5
HTP 1000	N05141274	1000	A	50 - 220	25	0.9	–	9.0	17.0
HTP 2000	N05141275	2000	A	66 - 220	25	1.15	–	16.0	24.0
HTP 3000	N05141276	3000	A	74 - 220	25	1.4	–	32.0	41.2
HTP 5000	N05141277	5000	A	90 - 220	25	1.8	–	48.0	58.5
HTP 500	N05148305	500	B	160 - 300	40	0.9	–	10.6	17.1
HTP 1000	N05148306	1000	B	160 - 300	40	0.9	–	12.0	20.0
HTP 2000	N05148307	2000	B	160 - 300	40	1.15	–	19.3	27.3
HTP 3000	N05148308	3000	B	160 - 300	40	1.4	–	35.8	45.0
HTP 5000	N05148309	5000	B	180 - 300	40	1.8	–	52.2	62.7

Technical data HTG

Model	Art.-No.	Capacity kg	Size	Beam flange width b mm	Beam flange thickness t max. mm	Curve radius min. m	Hand effort at WLL daN	Weight [1] kg	Weight [1] with locking device kg
HTG 500	N05300006	500	A	50 - 220	25	0.9	3	97	16.2
HTG 1000	N05300007	1000	A	50 - 220	25	0.9	6	11.2	19.2
HTG 2000	N05300008	2000	A	66 - 220	25	1.15	7	18.0	26.0
HTG 3000	N05300009	3000	A	74 - 220	25	1.4	7	35.4	44.6
HTG 5000	N05300010	5000	A	90 - 220	25	1.8	9	51.8	62.3
HTG 500	N05300011	500	B	160 - 300	40	0.9	3	12.6	19.1
HTG 1000	N05300012	1000	B	160 - 300	40	0.9	6	14.1	22.1
HTG 2000	N05300013	2000	B	160 - 300	40	1.15	7	21.3	29.3
HTG 3000	N05300014	3000	B	160 - 300	40	1.4	7	39.2	48.4
HTG 5000	N05300015	5000	B	180 - 300	40	1.8	9	56.0	66.5
HTG 8000	N05300016	8000	B	125 - 310	40	1.8	14	104.0	–
HTG 10000	N05300017	10000	B	125 - 310	40	1.8	14	104.0	–
HTG 15000	N05300018	15000	B	125 - 310	40	5.0	29	230.0	–
HTG 20000	N05300019	20000	B	125 - 310	40	5.0	29	230.0	–
HTG 30000	192045613	30000	B	175 - 305	34	1.6	24	248.0	–
HTG 50000	192045614	50000	B	175 - 305	34	5.1	25	489.0	–

[1] Weight HTG: without hand chain

We are pleased to send you our new Atex catalogue in PDF format.

Hoisting Equipment Trolleys

Yale®

Dimensions HTP

Model	HTP 500-A	HTP 1000-A	HTP 2000-A	HTP 3000-A	HTP 5000-A	HTP 500-B	HTP 1000-B	HTP 2000-B	HTP 3000-B	HTP 5000-B
A, mm	77	82.5	98.5	114	132.5	92	97.5	113.5	129	147.5
D, mm	16	17	22	26	33	16	17	22	26	33
D1, mm	25	30	40	48	60	25	30	40	48	60
D2, mm	30	35	47	58	70	30	35	47	58	70
F1, mm	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
H1, mm	30.5	30.5	30.5	30	30	45.5	45.5	45.5	45	49.5
I (HTP), mm	71.5	71.5	95.5	131	142.5	71.5	71.5	95.5	131	142.5
L, mm	260	260	310	390	450	260	260	310	390	450
L1, mm	130	130	150	180	209	130	130	150	180	209
O, mm	60	60	80	112	125	60	60	80	112	125
P1, mm	168	168	168	168	168	168	168	168	168	168
P2, mm	146	150	155	160	167.5	177	177	177	180	187.5
L3, mm	346	346	396	476	556	346	346	396	476	556

Dimensions HTG

Model	HTG 500-A	HTG 1000-A	HTG 2000-A	HTG 3000-A	HTG 5000-A	HTG 500-B	HTG 1000-B	HTG 2000-B	HTG 3000-B	HTG 5000-B
A, mm	77	82.5	98.5	114	132.5	92	97.5	113.5	129	147.5
D, mm	16	17	22	26	33	16	17	22	26	33
D1, mm	25	30	40	48	60	25	30	40	48	60
D2, mm	30	35	47	58	70	30	35	47	58	70
F (HTG), mm	91.5	91.5	90.5	107.5	149.5	91.5	91.5	90.5	107.5	149.5
F1, mm	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
H1, mm	30.5	30.5	30.5	30	30	45.5	45.5	45.5	45	45
I (HTG), mm	76.5	76.5	98	132.5	148.5	76.5	76.5	98	132.5	148.5
L, mm	260	260	310	390	450	260	260	310	390	450
L1, mm	130	130	150	180	209	130	130	150	180	209
O, mm	60	60	80	112	125	60	60	80	112	125
P (HTG), mm	110	110	110	110	110	110	110	110	110	110
P1, mm	168	168	168	168	168	168	168	168	168	168
P2, mm	146	150	155	160	167.5	187	187	189.5	191.5	191.5
L3, mm	346	346	396	476	556	346	346	396	476	556
P3, mm	194	194	194	195	195	194	194	194	195	195

Dimensions HTG

Model	HTG 8000-B	HTG 10000-B	HTG 15000-B	HTG 20000-B	HTG 30000-B	HTG 50000-B
A, mm	276	276	270	270	261	310
B, mm	52	52	70	70	65	100
D, mm	30	30	35	35	35	60
D1, mm	80	80	110	110	90	125
D2, mm	114	114	155	155	125	195
F (HTG), mm	113	113	113	113	93	93
F1, mm	77	77	–	–	–	–
H1, mm	45	45	45	45	40	40
I (HTG), mm	170	170	170	170	224	224
L, mm	430	430	870	870	625	1.260
L1, mm	200	200	200	200	296	296
L2, mm	–	–	115	115	164.5	164.5
O, mm	150	150	150	150	196	196
P (HTG), mm	163	163	163	163	165	165
P1, mm	193	193	–	–	–	–
T, mm	270	270	270	270	333	343
L3, mm	536	536	976	976	–	–

_ Pneumatic chain hoist_

Yale

ATEX Hoisting Equipment

Zones 2 & 3

Manual hoists
250 kg to 50 t

Manual trolleys
500 kg to 20 t

Low headroom

Rack & Pinion jacks
600 to 1000 kg

Pneumatic hoists
125 kg to 10 t

Electric winches
250 kg to 7,5 t

STAHL CraneSystems

Explosion-proof components for cranes

Zones 1, 2, 21 & 22

Electric wire rope hoists Ex
500 kg to 125 t

Electric chain hoists Ex
125 kg to 6,3 t

MOORING ROPE

Fibres, constructions and quantities for all applications

The products of the Van der Lee are made of natural materials and synthetic fibres. Manila is the most frequently used material amongst the natural materials. But flax, sisal and hemp are still being processed into fibre rope products of excellent quality. Well-known synthetic fibres nylon, polyester and polypropylene have had preference for many applications since the second half of the last century. Their excellent breaking strength is the main reason for this. Super fibres with even more impressive properties have become available in the past few decades.

- **Polypropylene**
- **Polyester**
- **Nylon**
- **'LeoTec'**
  High Strength Polypropylene
- **'LeoMix'**
  High Strength Polypropylene/Polyester (85:15)
- **'SuperLeoMix'**
  High Strength Polypropylene/Polyester (60:40)
- **'LeoTec' Winchline**
- **Mooring tails**
- **'LeoWinch'**
  Nylon Mono And Multifilament
- **'Dyneema® SK75'**
  High Modulus Polyethylene
- **Manila**
- **Rope fenders**

The final destinations for most of these products are professional applications. There still is a great demand for fenders and bow fenders in pleasure cruising.

POLYPROPYLENE ROPE

POLYPROPYLENE

TECHNICAL SPECIFICATIONS

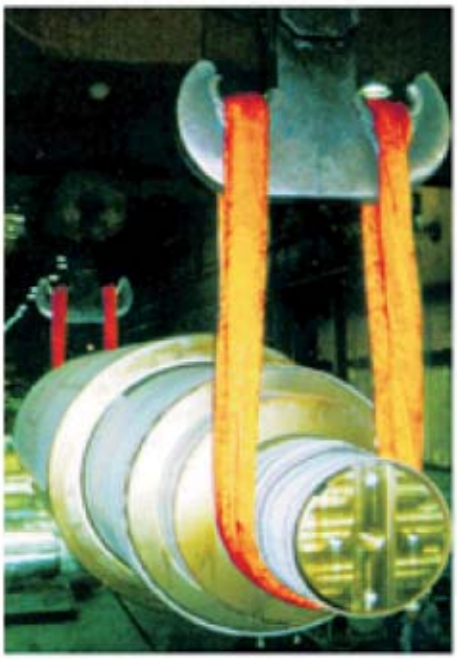
Specific gravity:	0.91
Melting point:	160 °C
Elongation at break:	30%
Colour:	Salmon and Orange
Construction:	3-strand, 8- and 12-strand plaited

Diameter mm	Circumference inches	Weight kg/100mtr	MBL tons	MBL kN
8	1	3.0	1.0	9.4
10	1¼	4.5	1.4	14.0
12	1½	6.5	2.0	19.9
14	1¾	9.0	2.8	27.4
16	2	11.5	3.5	34.3
18	2¼	14.8	4.5	43.6
20	2½	18.0	5.4	52.6
22	2¾	22.0	6.5	63.7
24	3	26.0	7.6	74.5
26	3¼	31.0	8.9	86.8
28	3½	35.5	10.1	99.0
30	3¾	41.0	11.5	112.7
32	4	46.0	12.8	125.5
36	4½	58.5	16.1	157.8
40	5	72.0	19.4	190.2
44	5½	88.0	23.4	229.4
48	6	104.0	27.2	266.7
52	6½	122.0	31.5	308.8
56	7	142.0	36.0	352.9
60	7½	163.0	41.2	403.9
64	8	185.0	46.6	456.9
68	8½	210.0	52.6	515.7
72	9	234.0	58.5	573.5
80	10	290.0	72.0	705.9
88	11	351.0	86.4	847.1
96	12	417.0	102.0	1,000.0
104	13	482.0	118.0	1,156.9
112	14	568.0	138.0	1,352.9
120	15	648.0	156.0	1,529.4
128	16	740.0	176.0	1,725.5
136	17	838.0	197.6	1,937.3
144	18	940.0	219.6	2,152.9
152	19	1,047.0	242.0	2,372.5
160	20	1,160.0	266.2	2,609.8

Textile Lifting Slings

Webbing and Round Slings

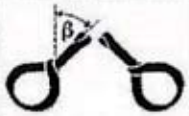
LiftCo manufactures webbing slings made from woven industrial webbing in a large range of webbing widths ranging from 30mm-600mm according to the European Machinery Directive EN 1492-1:2008+A1. Webbing slings can be manufactured in a large variety of models adapted to your lifting situation and lifting challenges. Feel free to contact our sales department or product engineers for more technical details.



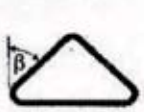
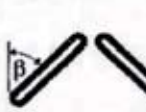
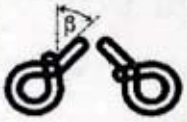
All products are manufactured in Holland.

TESTILE LIFTING SLINGS

Webbing slings Rated capacities for different slinging methods

		WLL (kg) with one webbing sling					WLL (kg) with two webbing slings			
		straight pull	choke hitch	basket angle β			straight angle β		choke hitch angle β	
				up to 7°	7°-45°	45°-60°	7°-45°	45°-60°	7°-45°	45°-60°
										
Factor		1.0	0.8	2.0	1.4	1.0	1.4	1.0	1.12	0.8
1000kg	violet	1000	800	2000	1400	1000	1400	1000	1120	800
2000kg	green	2000	1600	4000	2800	2000	2800	2000	2240	1600
3000kg	yellow	3000	2400	6000	4200	3000	4200	3000	3360	2400
4000kg	grey	4000	3200	8000	5600	4000	5600	4000	4480	3200
5000kg	red	5000	4000	10000	7000	5000	7000	5000	5600	4000
6000kg	brown	6000	4800	12000	8400	6000	8400	6000	6720	4800
8000kg	blue	8000	6400	16000	11200	8000	11200	8000	8960	6400
10000kg	orange	10000	8000	20000	14000	10000	14000	10000	11200	8000

Round slings Rated capacities for different slinging methods

		WLL (kg) with one round sling							WLL (kg) with two round slings			
		straight pull	choke hitch	basket angle β					straight angle β		choke hitch angle β	
				up to 7°	7°-45°	45°-60°	7°-45°	45°-60°	7°-45°	45°-60°	7°-45°	45°-60°
												
Factor		1.0	0.8	2.0	1.4	1.0	0.7	0.5	1.4	1.0	1.12	0.8
1000kg	violet	1000	800	2000	1400	1000	700	500	1400	1000	1120	800
2000kg	green	2000	1600	4000	2800	2000	1400	1000	2800	2000	2240	1600
3000kg	yellow	3000	2400	6000	4200	3000	2100	1500	4200	3000	3360	2400
4000kg	grey	4000	3200	8000	5600	4000	2800	2000	5600	4000	4480	3200
5000kg	red	5000	4000	10000	7000	5000	3500	2500	7000	5000	5600	4000
6000kg	brown	6000	4800	12000	8400	6000	4200	3000	8400	6000	6720	4800
8000kg	blue	8000	6400	16000	11200	8000	5600	4000	11200	8000	8960	6400
10000kg	orange	10000	8000	20000	14000	10000	7000	5000	14000	10000	11200	8000

Lashing Systems Textile lashing

INFO

Other end liftings (hook) and individual prints on webbing are availbale on request.

Other lengths on request.

Ratchet lashing with long lever ratchet model ZGR-XL-50-2000 or model ZGR-XLZ-50-2000

Made from polyester (PES), EN 12195-2
50mm - lashing capacity LC 2000daN.

Features

* Standard tension force STF 500daN at standard hand force SHF 50 daN.
* Long lever ratchet with precise interlocking.
* Long lever push ratchet model ZGR-XL with device for controlled release.
* Long lever pull ratchet model ZGR-XLZ, ergonomic design.
* Standard lengths 8m and 10m.

Long Lever ratchet
with precise interlocking. Device for controlled released.

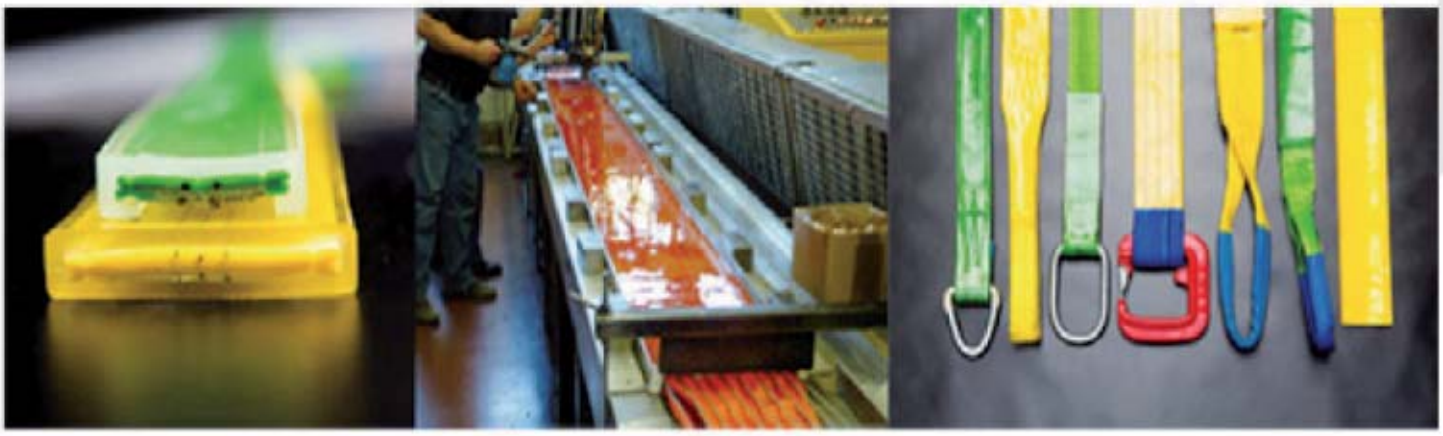
GHK
with twisted snap hook

SPH
with claw snap hook

KLH
with chassis hook

Pur-Tex® Protections

PUR-TEX® cut, abration and wear protection sleeves, covers, corner protectors en protections are manufactured from extremely durable polyurethane material. Substantial protections are recommended acc. to EN 1492 Standard for webbing slings, round slings and lashing system. PUR-TEX® protections can be supplied in many different configurations.



Lashing Systems User Manual Lash-Tex®

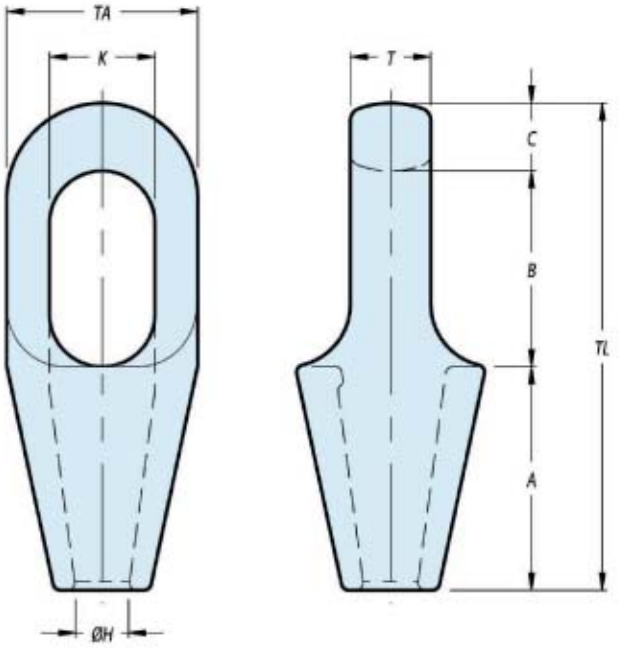
- It's only allowed to use undamaged lashing systems.
- Lashing systems may only be charged up to the maximum permissible tensile strength indicated on the label (LC = Load Capacity).
- Lashing systems may never be pulled over sharp edges or raw surfaces, unless equipped with a good protection.
- Lashing systems has to be equally divided over the cargo.
- Lashing systems must not be used as a fastener. They are not made for hoisting.

Personalized Cargo Straps made to Customer specifications

- Any length
- Variety of colors
- Customer name printed on logo and webbing
- Manufactured in Holland

CLOSED SPELTER SOCKETS

ALLOY CAST STEEL
CLOSED SPELTER SOCKETS



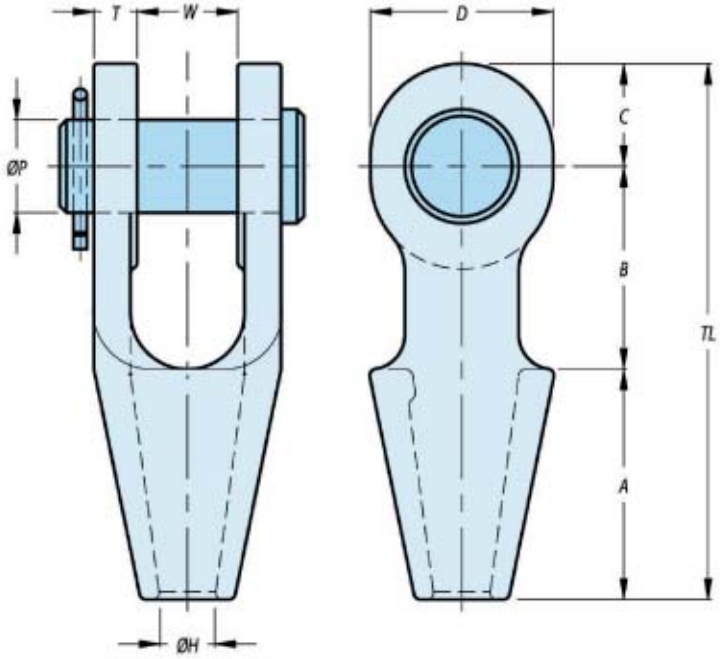
Model No.	MBL (tons)	for wire ø (mm)	for wire ø (inch)	Dimensions (mm) A	B	C	øH	K	T	TA	TL	Weight (kgs)
CSS 298	20	11 - 13	7/16 - 1/2	63,5	59	17,5	14	30	22,5	51	140	0,7
CSS 299	25	14 - 16	9/16 - 5/8	76	65	21	17,5	36	26	67	162	1,3
CSS 200	40	18 - 19	3/4	89	78	27	21	42	32	76	194	2,1
CSS 201	55	20 - 22	7/8	101	90	33	24	47	38	92	224	3,6
CSS 204	75	23 - 26	1	114	103	36	28	57	44	104	253	5,3
CSS 207	90	27 - 30	1 1/8	127	116	39	32	63	51	114	282	7
CSS 212	125	31 - 36	1 1/4 - 1 3/8	139	130	43	38	70	57	127	312	9,7
CSS 215	150	37 - 39	1 1/2	152	155	51	41	79	63	136	358	13
CSS 217	170	40 - 42	1 5/8	165	171	54	44	83	70	146	390	17
CSS 219	225	43 - 48	1 3/4 - 1 7/8	190	198	55	51	93	76	171	443	26
CSS 222	280	49 - 54	2 - 2 1/8	216	224	62	57	100	82	193	502	37,5
CSS 224	360	55 - 60	2 1/4 - 2 3/8	228	247	73	63	112	92	216	548	50
CSS 226	425	61 - 68	2 1/2 - 2 5/8	248	270	79	73	140	102	241	597	65
CSS 227	460	69 - 75	2 3/4 - 2 7/8	279	286	79	79	159	124	273	644	94
CSS 228	560	76 - 80	3 - 3 1/8	305	298	83	86	171	133	292	686	110
CSS 229	625	81 - 86	3 1/4 - 3 3/8	330	311	102	92	184	146	311	743	145
CSS 230	720	87 - 93	3 1/2 - 3 5/8	356	330	102	99	197	159	330	788	182
CSS 231	875	94 - 102	3 3/4 - 4	381	356	108	108	216	178	362	845	210
CSS 233	1200	108 - 115	4 1/4 - 4 1/2	450	425	125	125	235	190	405	1000	330
CSS 240	1300	120 -130	4 3/4 - 5	500	525	125	138	260	200	450	1150	500

MBL = Minimum Breaking Load.
Standard all sockets are painted blue, but can be supplied galvanized.
All sockets can be supplied with EN 10204/DIN 50049 3.1B certificate (no additional costs).
Other than 3.1B certificates on request and at additional costs.

ROPEBLOCK

OPEN SPELTER SOCKETS

ALLOY CAST STEEL
OPEN SPELTER SOCKETS



Model No.	MBL (tons)	for wire ø		Dimensions (mm)									Weight (kgs)
		(mm)	(inch)	A	B	C	D	øH	øP	T	TL	W	
OSS 198	20	11 - 13	7/16 - 1/2	64	51	27	50	14	25	12	142	25	1
OSS 199	25	14 - 16	9/16 - 5/8	76	63	32	58	17,5	30	14	171	32	1,8
OSS 100	40	18 - 19	3/4	89	76	40	70	21	35	16	205	38	3,2
OSS 104	55	20 - 22	7/8	101	89	45	80	24	41	19	235	44	4,6
OSS 108	75	23 - 26	1	114	101	60	104	28	51	22	275	51	8
OSS 111	90	27 - 30	1 1/8	127	114	65	114	32	57	25	306	57	11
OSS 115	125	31 - 36	1 1/4 - 1 3/8	139	127	72	126	38	63	28	338	63	16
OSS 118	150	37 - 39	1 1/2	152	162	80	142	41	70	30	394	76	23
OSS 120	170	40 - 42	1 5/8	165	165	88	152	44	76	33	418	76	27
OSS 125	225	43 - 48	1 3/4 - 1 7/8	190	178	100	176	51	89	39	468	89	41
OSS 128	280	49 - 54	2 - 2 1/8	216	228	108	194	57	95	46	552	101	58
OSS 130	360	55 - 60	2 1/4 - 2 3/8	228	250	120	210	63	108	53	598	113	85
OSS 132	425	61 - 68	2 1/2 - 2 5/8	248	273	133	236	73	121	60	654	127	118
OSS 135	460	69 - 75	2 3/4 - 2 7/8	279	279	138	240	79	127	73	696	133	155
OSS 138	560	76 - 80	3 - 3 1/8	305	286	146	252	86	133	76	737	146	173
OSS 140	625	81 - 86	3 1/4 - 3 3/8	330	298	160	290	92	140	79	788	159	230
OSS 142	720	87 - 93	3 1/2 - 3 5/8	356	318	178	320	99	152	83	852	171	265
OSS 144	875	94 - 102	3 3/4 - 4	381	343	190	350	108	178	89	914	191	370
OSS 146	1200	108 - 115	4 1/4 - 4 1/2	450	480	215	400	125	195	100	1145	205	525
OSS 150	1300	120 - 130	4 3/4 - 5	500	500	280	560	138	250	110	1280	225	900

MBL = Minimum Breaking Load.
Standard all sockets are painted blue, but can be supplied galvanized.
All sockets can be supplied with EN 10204/DIN 50049 3.1B certificate (no additional costs).
Other than 3.1B certificates on request and at additional costs.

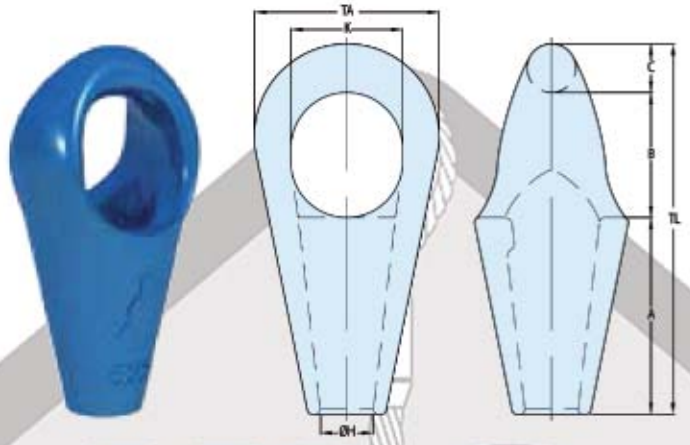
ROPEBLOCK

SHORT BOW SOCKETS

ROPEBLOCK

Short Bow Sockets

Quenched and tempered cast steel



Model nr.	MBL (Mtons)	for wire Ø		Dimensions (mm)							Weight (kg)
		mm	inch	A	B	C	Ø H	K	TA	TL	
SBS 512	140	31-36	1 1/4-1 3/8	141	83	38	39	75	132	262	7
SBS 517	160	37-42	1 1/2-1 5/8	162	103	40	44	92	152	305	10
SBS 519	200	43-48	1 3/4-1 7/8	188	120	48	51	112	178	356	16
SBS 522	250	49-54	2-2 1/8	204	132	54	59	120	200	390	21
SBS 524	320	55-60	2 1/4-2 3/8	230	148	62	64	135	220	440	28
SBS 526	400	61-68	2 1/2-2 5/8	265	165	68	73	150	250	498	44
SBS 527	500	69-75	2 3/4-2 7/8	287	178	75	79	164	274	540	53
SBS 528	600	76-80	3-3 1/8	314	195	76	89	175	295	585	70
SBS 529	700	81-86	3 1/4-3 3/8	327	216	82	92	194	320	625	81
SBS 530	800	87-93	3 1/2-3 5/8	358	220	92	99	202	350	670	112
SBS 531	900	94-102	3 3/4-4	365	235	100	108	215	375	700	130
SBS 533	1000	108-115	4 1/4-4 1/2	420	270	110	120	240	410	800	182

MBL = Minimum Breaking Load
The standard finish of our sockets is blue. Hot dipped galvanized is also available. All sockets are provided with an EN 10204-2.1 declaration of conformity, EN 10204-3.1 material certificate and can be provided with a 2006/42/EC declaration where applicable.

Other accessories

Barrel Clamp model TFK

Conatainer lifting lugs model TCU capacity 32000 - 56000 kg

GENERAL CARGO HANDLING TOOL

The key to your Hands Free Solution, the General Cargo Handling Tool is designed as a multifunctional push/pull pole that allows your user to safely control the guiding and landing of deck cargo from containers to tubulars by creating a safe distance and buffer area between the user and the load.

Enclosed Handle
GCHT18001 1300mm
GCHT18002 1500mm

Open Handle
GCHT19002 1500mm

Custom made lengths available on request

Manufactured from medium density polyethylene and 30mm marine grade aluminium makes the General Cargo Handling Tool light weight and extremely durable. Suitable for use in harsh environments.

TAG

Green Pin ID Tag
Aluminium identification tag

. Matérial : aluminium
. Finish : see table below
. ecrtification : 21

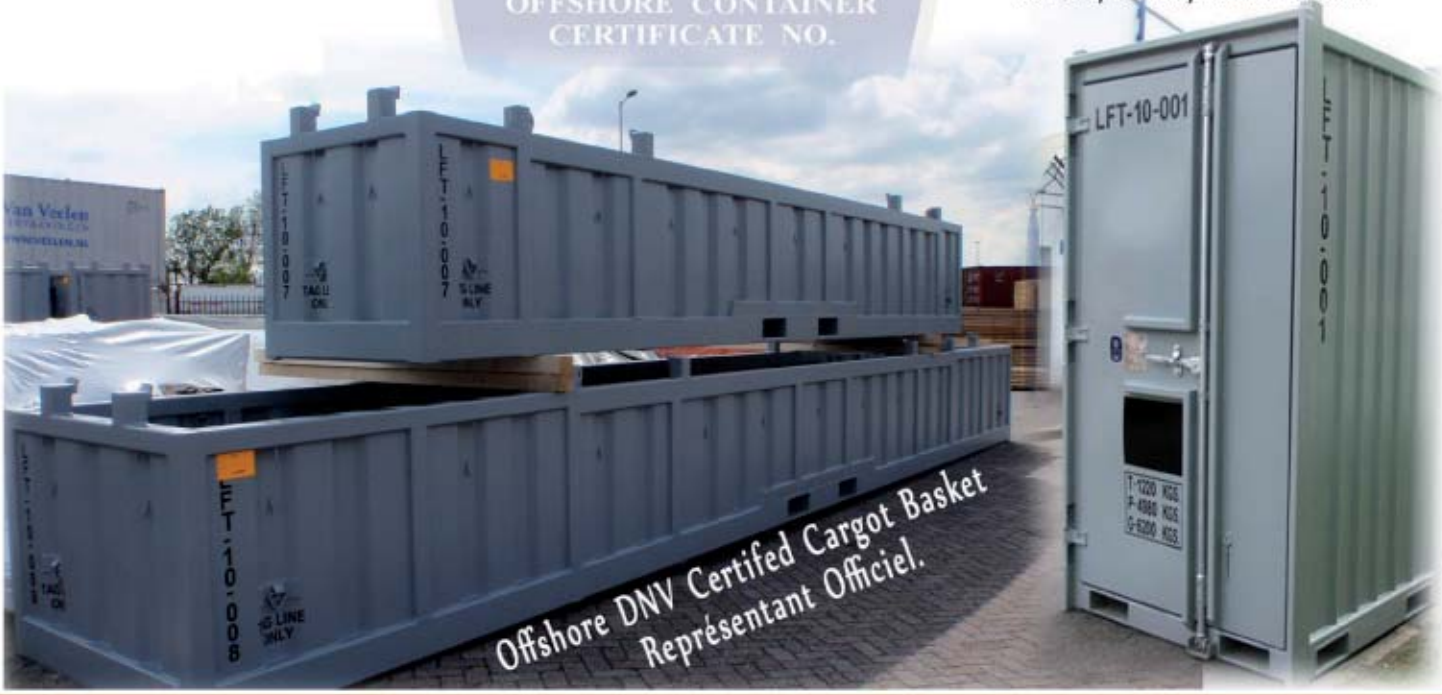
partnumber	finish	width	length	length	weight each
		a mm	b mm	c mm	kg
TAGVIERGE	self coloured	51	76	222	0.07

OTHER SERVICES

Supply, assembly and test of Hoses

Lifting, Rigging, Marine
& Offshore Mooring Equipment

Reliable, Robust, Safe & Certified



Offshore DNV Certifed Cargot Basket
Représentant Officiel.

OTHER SERVICES

Socketing Operations

- Fully certified highly specialized technicians available on shore / off shore.
- Certificates of conformity issued after each application.
- Quickness and Reactivity.



On Site Lubrication of Wire Ropes

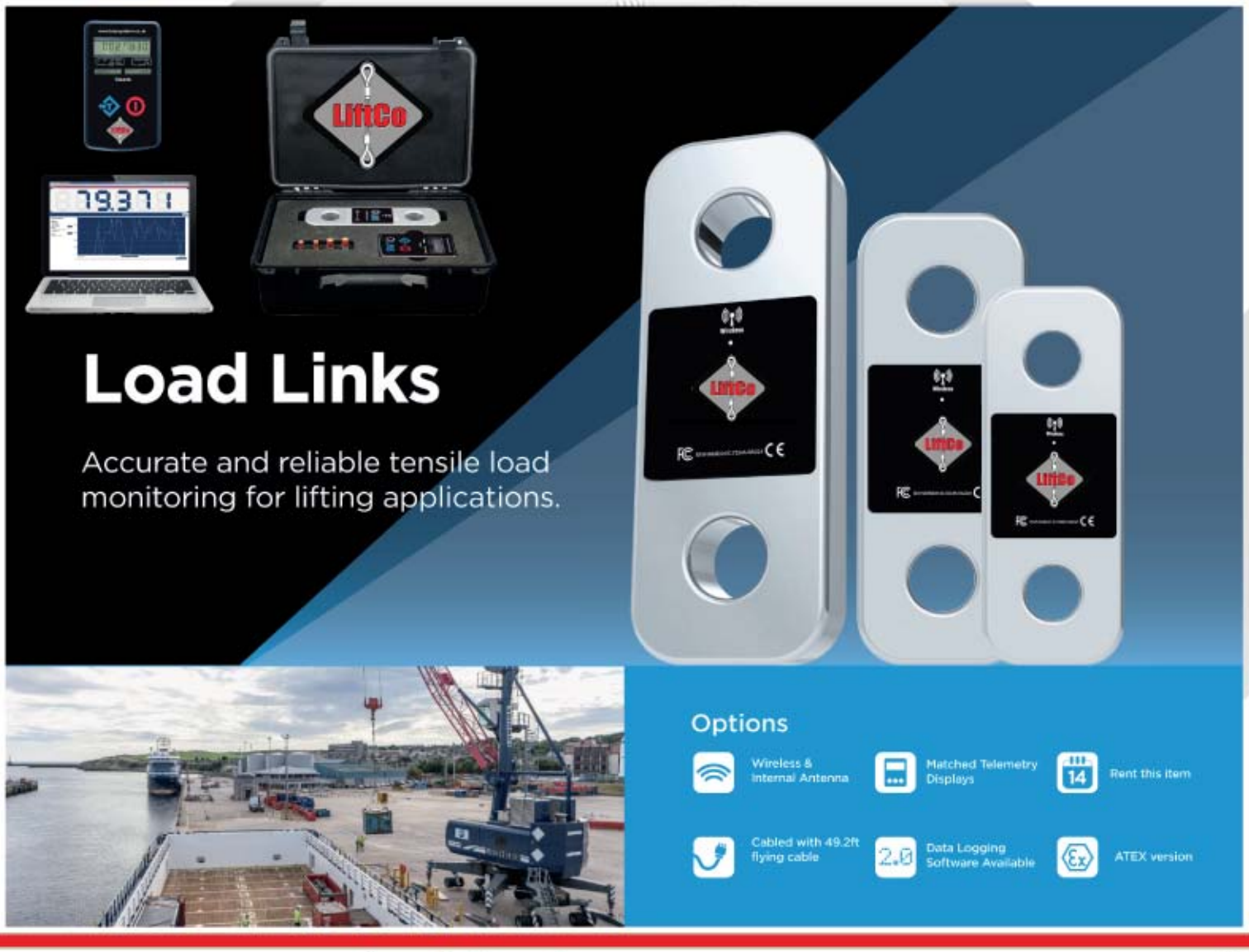



_ OTHER SERVICES _

Pneumatic Fenders Repairs

Service Repairs for all brands of pneumatic fenders:

- Re-netting new chain, coupling links, tires, rubber hoses and swivels.
- Sandbasting and painting jobs on joining links
- Works performed by qualified technicians.



Load Links

Accurate and reliable tensile load monitoring for lifting applications.

Options

- Wireless & Internal Antenna
- Matched Telemetry Displays
- Rent this item
- Cabled with 49.2ft flying cable
- Data Logging Software Available
- ATEX version

_ OTHER SERVICES _

LiftCo Open Days

Liftco regularly organizes OPEN DAYS and TRAINING seminars to increase user awareness and improve workplace safety.

Agenda :

- LiftCo presentation (coffee - cake)
-Demonstration of sling manufacturing
- Traceability
-Break test
-Points to check on a sling
-Proper use of slings and lifting accessories.
-Maintenance and storage
-Handing out of the certificates of participation.

Customers who has already participated on several accasions

***Total Gabon * Total Congo**
*** Eni Congo * Saga Gabon**
*** L2M**

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LiftCo Catalogue

2023