Catalogue No.3
Edition 2011

Carl Stahl®
rope and wire rope systems

STAINLESS

• Stainless steel wire ropes • Stainless steel wire rope fittings
• Stainless steel hardware • Synthetic fibre ropes

WE OFFER A RELIABLE PARTNERSHIP

Carl Stahl started in 1880 as a small ropemaker specializing in agricultural products and has grown to an enterprise with more than 1100 employees operating from over 52 locations around the world.

We offer you a full range of lifting and hoisting equipment, Micro- and TechnoCables for medical, automotive, or general industrial use.
For architectural applications we have our architectural range of products which includes X-TEND; a stainless steel cable net, I-SYS; an architectual wire rope system and POSILOCK; an interior design wire rope suspension system.

We also have an extensive range of products presented in our new "Company Equipment" catalogue.
Innovative products are always being sought, the latest addition to our range is Nokon; a unique highly efficient "Bowden" cable system for sports and industrial applications.
In 1997 we decided to open a new subsidiary in Europe specializing in Stainless Steel wire ropes and hardware.

This stainless Steel wire rope specialist, Carl Stahl Benelux, located in Zaandam, is not just a supplier of wire rope, we also produce and stock a complete range of end fittings.

Our in-house swaging facilities go up to 32 mm and we have pressing facilities to 30 mm, and of course the whole range of products is available through all the other Carl Stahl companies.

This new Stainless Steel catalogue offers you an exclusive program for high quality products.
Influenced by our strong background in yachting we have also included a wide range of synthetic fiber and high performance ropes together with fittings and blocks.

Don't hesitate to call us whenever you have any questions about stainless Steel.

Enjoy the new catalogue.

Our Headquarters
in Süssen, Germany

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Inch	Millimeter
1/32	0,794
1/16	1,588
3/32	2,381
1/8	3,175
5/32	3,968
3/16	4,763
1/4	6,350
5/16	7,938
3/8	9,525
7/16	11,113
1/2	12,700
9/16	14,288
5/8	15,875
3/4	19,050
7/8	22,225
1	25,400
1 1/8	28,575
1 1/4	31,750
1 3/8	34,925

kg	=	kp	=	N	=	daN	=	kN
1000		1000		9810		981		9,81

Mechanical Properties of Stainless Steel

AISI USA	DIN W-Dld	Yield Strength 0,2 % (N/mm²) at 20° C	Tensile Strength (N/mm²)
301	1.4310	350	700-950
303	1.4305	195	500-700
304	1.4301	195	500-700
304L	1.4306	180	460-480
304LN	1.4311	270	550-760
305	1.4303	185	490-690
308	1.4303	185	490-690
309	1.4828	280	650-750
309S	1.4833	280	650-750
310	1.4841	280	650-750
310S	1.4845	280	650-750
314	1.4841	310	650-750
316	1.4401	205	610-710
316L	1.4404	190	490-690
316TI	1.4571	210	500-730
316LN	1.4429	295	580-800
317	1.4449	205	540-740
317L	1.4438	195	490-690
318	1.4583	225	490-740
321	1.4541	200	500-730
329	1.4460	490	640-900

AISI USA	DIN W-Dld	Yield Strength 0,2 % (N/mm²) at 20° C	Tensile Strength (N/mm²)
347	1.4550	205	510-740
348	1.4546	250	600-700
403	1.4000	250	400-600
405	1.4002	250	400-600
409	1.4512	260	400-600
410S	1.4000	250	400-600
410	1.4006	250	450-650
410 1)	1.4006	-	600-800
416 1)	1.4005	440	590-780
420 1)	1.4021	450	650-800
420F 1)	-	450	650-800
422	1.4935	875	1015
430	1.4016	270	450-600
430F	1.4104	300	540-740
430F 1)	1.4104	450	640-840
431 1)	1.4057	550	750-950
434	1.4113	270	450-650
440B	1.4112	430	740
440C	1.4125	445	755
630 2)	1.4542	1000	1070
631	1.4568	280	900

1) Hardened 2) After anealing and precipitation hardening at 550°C

Stainless Steel Wire Rope

Stainless steel wire ropes are developed for those situations where there must be no corrosion whatsoever and where high temperatures occur. Yachting, aviation, and the sun awning, chemical and food industries are all examples.

The special structure of the basic material (Austeniet) makes these ropes not only rustproof but also resistant to high temperatures. Where ordinary steel or galvanised wire ropes fall short, the stainless steel wire rope does the job - up to temperatures of 300 degrees Celsius. Quality coding: A.i.S.I. 316.

Quality

Material of type A.I.S.I. 316 is the most “all round” in terms of basic characteristics and is therefore used for many purposes. For this reason, type A.I.S.I. 316 is our standard quality. Where special requirements are laid down regarding a-magnetic characteristics, a different type of stainless steel may be used, for instance A.I.S.I. 305. This material is often used for mine sweeping.

As a basic analysis, we can supply you with the following information:

Max.%C	0.08
Max.%Mn.	2.00
Max.%P.	0.045
Max.%S.	0.030
Max.%Si.	1.00
Max.%Cr.	16-18
Max.%Ni.	10-14
Max.%Mo.	2-3

Due to the high Mo. content, namely 2 to 3%, this material is extremely corrosion-proof, for example in contact with seawater or halogenic salts.

Quality Coding

We refer to stainless steel wire ropes by the American A.I.S.I. quality numbers. For completeness, we have listed the corresponding German and French codings.

United States	Germany	France
A.I.S.I.	D.I.N. Werkstoffno.	A.F.N.O.R.
304	1.4301	Z.6.C.N.18-09
305	1.4312	Z.8.C.N.18-12
316	1.4401	Z.6.C.N.D.17-11

Heat Resistant up to 300° C

The special structure of the basic material (Austeniet) makes these wire ropes resistant to high temperatures. Unlike ordinary or galvanised steel wire ropes, stainless steel wire ropes may be exposed to a temperature of approx. 300°C without any risk.

Elasticity

The structure of the basic material also ensures greater elasticity compared with ordinary or galvanised steel wire ropes. The modulus of elasticity (E) of stainless steel wire ropes is about 10% lower.

Basic Material

During the cooling process, between 1100°C and 700°C, common steel acquires a special cristaline shape which depends on the quantity of carbon present in the steel. Below 700°C, however, this type of steel - for the manufacture of ordinary or galvanised steel wire rope for example - will acquire a different structural form, which now becomes permanent. Steel for the manufacture of stainless steel wire ropes, retains on further cooling the same structural shape which was acquired between 1100°C and 700°C.
This is mainly due to the content of chromium in this type of material.

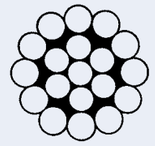
Application of Stainless Steel Wire Rope

Some of the special characteristics of stainless steel makes the wire ropes manufactured from this material suitable for use in those situations where no rust may develop and where high temperatures occur. A few examples: yachting, the sun awning industry, the chemical industry, machine manufacture, architecture, aviation and the food industry. Roughly in all these applications the use of stainless steel wire ropes guarantees a smooth progress of many kinds of processing.

Construction 1 x 7

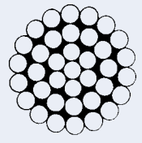
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
1,0	0,86	88	0,50	0152.10.10
1,5	1,92	196	1,13	0152.10.15
2,0	3,41	348	2,01	0152.10.20
2,5	5,33	544	3,13	0152.10.25
3,0	7,69	784	4,51	0152.10.30
4,0	11,95	1219	8,02	0152.10.40
5,0	18,68	1905	12,55	0152.10.50

Construction 1 x 19



ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
1,0	0,87	99	0,49	0153.10.10
1,25	1,45	148	0,76	0153.10.12
1,5	1,86	190	1,11	0153.10.15
2,0	3,30	337	1,98	0153.10.20
2,5	5,15	525	3,10	0153.10.25
3,0	7,42	757	4,46	0153.10.30
3,5	10,10	1030	6,07	0153.10.35
4,0	13,20	1350	7,93	0153.10.40
5,0	20,60	2100	12,40	0153.10.50
6,0	29,70	3030	17,80	0153.10.60
7,0	37,80	3850	24,30	0153.10.70
8,0	49,40	5040	31,70	0153.10.80
10,0	77,20	7870	49,50	0153.11.00
12,0	104,00	10600	71,30	0153.11.20
14,0	131,00	13400	97,10	0153.11.40
16,0	176,00	17940	127,00	0153.11.60
19,0	233,00	23751	176,00	0153.11.90
22,0	299,00	30479	236,00	0153.12.20
26,0	416,00	42405	330,00	0153.12.60

Construction 1 x 37

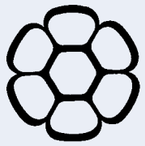


ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
18,0	227,50	23211	159	0154.11.80
20,0	292,40	29826	204	0154.12.00
22,0	322,00	32844	241	0154.12.20
24,0	387,00	39474	289	0154.12.40
26,0	445,00	45390	333	0154.12.60
28,0	510,00	52025	389	0154.12.80
30,0	595,00	60700	449	0154.13.00
32,0	679,00	69260	504	0154.13.20

FF-95 design Jac de Ridder

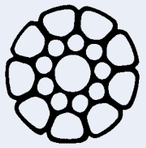
Stainless Steel Wire Rope (AISI 316)

“Compacted Strand” Construction 1 x 7



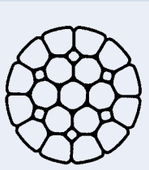
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
2,0	4,11	440	2,2	0152.10.20CS
2,5	6,76	690	3,4	0152.10.25CS
3,0	9,81	1000	4,9	0152.10.30CS
3,5	13,33	1360	6,8	0152.10.35CS
4,0	17,46	1780	8,8	0152.10.40CS

“Compacted Strand” Construction 1 x 19



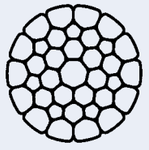
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
4,0	17,46	1780	9,1	0153.10.40CS
5,0	25,49	2600	14,2	0153.10.50CS
6,0	35,29	3600	20,5	0153.10.60CS
7,0	49,02	5000	27,9	0153.10.70CS
8,0	61,76	6300	36,5	0153.10.80CS
10,0	98,04	10000	57,0	0153.11.00CS
12,0	142,15	14500	82,1	0153.11.20CS

“Compacted Strand” Construction 1 x 25



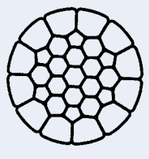
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
14,0	189,33	19300	115	0153.11.40D
16,0	251,14	25600	147	0153.11.60D

“Compacted Strand” Construction 1 x 36 (**is far superior on fatigue compared to the 1 x 25 construction**)



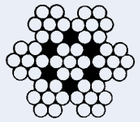
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
14,0	194,11	19800	115,9	0153.11.40CS
16,0	253,92	25900	149,9	0153.11.60CS

“Compacted Strand” Construction 1 x 31



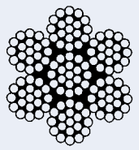
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
19,0	313,92	32000	206	0153.11.90D

Construction 7 x 7



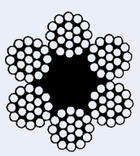
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
1,0	0,56	57	0,38	0155.10.10
1,2	1,13	115	0,50	0155.10.12
1,5	1,26	128	0,86	0155.10.15
1,8	1,82	186	1,30	0155.10.18
2,0	2,24	228	1,54	0155.10.20
2,5	3,49	356	2,40	0155.10.25
3,0	5,03	513	3,46	0155.10.30
4,0	8,94	912	6,14	0155.10.40
5,0	14,00	1430	9,60	0155.10.50
6,0	20,10	2050	13,80	0155.10.60
7,0	27,40	2790	18,80	0155.10.70
8,0	35,80	3650	24,60	0155.10.80
10,0	55,90	5700	38,40	0155.11.00
12,0	81,10	8270	55,30	0155.11.20
14,0	109,84	11200	82,32	0155..11.40
16,0	144,16	14700	107,52	0155.11.60
18,0	182,40	18600	131,32	0155.11.80

Construction 7 x 19



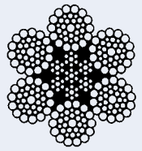
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
1,5	1,25	128	0,90	0160.10.15
2,0	2,08	212	1,49	0160.10.20
2,5	3,26	332	2,33	0160.10.25
3,0	4,69	478	3,35	0160.10.30
3,5	6,39	652	4,56	0160.10.35
4,0	8,34	850	5,95	0160.10.40
5,0	13,00	1330	9,30	0160.10.50
6,0	18,80	1920	13,40	0160.10.60
7,0	25,50	2600	18,20	0160.10.70
8,0	33,40	3410	23,80	0160.10.80
10,0	52,10	5310	37,20	0160.11.00
12,0	75,10	7660	53,60	0160.11.20
13,0	88,80	9041	65,20	0160.11.30
14,0	102,00	10100	72,90	0160.11.40
16,0	133,00	13600	95,50	0160.11.60

Construction 6 x 19 + pp core



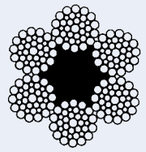
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
3,0	4,34	443	3,1	0060.10.30
4,0	7,71	786	5,5	0060.10.40
5,0	12,00	1220	8,6	0060.10.50
6,0	17,40	1770	12,4	0060.10.60
7,0	23,60	2410	16,9	0060.10.70
8,0	30,80	3140	22,0	0060.10.80
10,0	47,9	4880	34,6	0060.11.00

Construction 6 x 36WS + IWRC



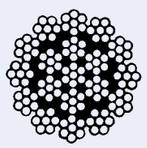
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
6,0	20,08	2047	14,6	0164.10.60
8,0	35,70	3641	26,0	0164.10.80
10,0	55,90	5700	40,9	0164.11.00
12,0	80,50	8210	58,9	0164.11.20
13,0	94,44	9630	71,6	0164.11.30
14,0	110,00	11200	80,2	0164.11.40
16,0	143,00	14600	105,0	0164.11.60
18,0	181,00	18500	133,0	0164.11.80
20,0	224,00	22800	164,0	0164.12.00
22,0	271,00	27600	198,0	0164.12.20
24,0	322,00	32800	236,0	0164.12.40
26,0	354,00	36100	276,0	0164.12.60
28,0	410,00	41800	321,0	0164.12.80
30,0	471,00	48000	368,0	0164.13.00

Construction 6 x 36WS + pp core



ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
10,0	51,8	5285	36,5	0064.11.00
12,0	74,6	7610	52,8	0064.11.20
14,0	102,0	10400	71,9	0064.11.40
16,0	133,0	13600	94,0	0064.11.60
18,0	168,0	17100	119,0	0064.11.80
20,0	207,0	21100	147,0	0064.12.00
22,0	251,0	25600	178,0	0064.12.20
24,0	298,0	30400	211,0	0064.12.40
26,0	328,0	33400	248,0	0064.12.60

Construction 18 x 7 + IWRC



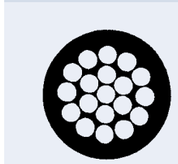
ø in mm	minimum breaking load kN	kg	weight in kg/100 m	**Ref. No.**
1,5	1,20	122	0,90	0169.10.15
2,0	2,13	217	1,60	0169.10.20
2,5	3,32	339	2,50	0169.10.25
3,0	4,66	475	3,70	0169.10.30
4,0	8,50	867	6,40	0169.10.40
5,0	12,90	1320	10,00	0169.10.50
6,0	18,50	1890	14,40	0169.10.60
7,0	25,20	2570	19,60	0169.10.70
8,0	33,00	3370	25,70	0169.10.80
10,0	51,50	5250	40,10	0169.11.00
12,0	74,20	7570	57,70	0169.11.20
14,0	100,90	10289	75,20	0169.11.40
16,0	129,30	13179	101,50	0169.11.60

Thermoplastic Sheating Materials

material	permanent temperature of usage (°C)	short-time temperature of usage (°C) (hours/days)	density 10^3 kg/m^3 (20°C)	modulus of elasticity daN/mm^2 (20°C)	indentation hardness N/mm^2 (20°C)	hygroscopicity % (20°C)	restistance to atmospheric conditions	combustibility (s.e.) = selfextingushing (i.) = inflammable (n.i.) = not inflammable	abraison restistance
PVC	-20	+100 +70	1,42	-	20-60	0,4	good	(s.e.) good	fair
PP	-10 100	+140	0,91	10^4	65	0,1	good	(i.)	good
PA 6	-30 +110	+140	1,13	3 x 10^4	50-100	4,4	good	(i.)	excellent
PA 11/12	-30 +105	+125	1,03	10^4	80-100	1	good	(i.)	excellent
PETP	-100 +130	+180	1,40	3 x 10^4	100	0,5	good	(i.)	excellent

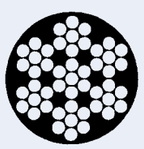
PVC Coated Stainless Steel Wire Rope (AISI 316)

Construction 1 x 19



ø in mm	minimum breaking load kN	minimum breaking load kg	weight in kg/100 m	color	**Ref. No.**
2,0-3,0	3,30	337	2,5	clear	1340.20.30
2,0-3,0	3,30	337	2,5	white	1344.20.30
2,0-4,5	3,30	337	3,6	white	1344.20.45
2,5-4,0	5,15	525	4,1	white	1344.25.40
3,0-5,0	7,42	757	5,5	white	1344.30.50
4,0-6,0	13,20	1350	10,2	white	1344.40.60
4,0-6,0	13,20	1350	10,2	red	1341.40.60

Construction 7 x 7



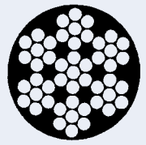
ø in mm	minimum breaking load kN	minimum breaking load kg	weight in kg/100 m	color	**Ref. No.**
2,5-3,5	3,49	356	3,4	white	13I4.25.35
2,5-4,0	3,49	356	3,6	red	13I1.25.40
2,5-5,0	3,49	356	4,3	clear	13I0.25.50
3,0-5,0	5,03	513	5,5	clear	13I0.30.50
3,0-5,0	5,03	513	5,5	white	13I4.30.50
3,0-5,0	5,03	513	5,5	black	13I2.30.50
4,0-6,0	8,94	912	8,8	white	13I4.40.60
4,0-6,0	8,94	912	8,8	red	13I1.40.60
4,0-7,0	8,94	912	10,8	white	13I4.40.70
4,0-8,0	8,94	912	12,0	white	13I4.40.80
5,0-7,0	14,00	1430	13,1	white	13I4.50.70
5,0-8,0	14,00	1430	12,5	white	13I4.50.80
5,0-9,0	14,00	1430	13,0	white	13I4.50.90
6,0-8,0	20,10	2050	17,6	clear	13I0.60.80
6,0-8,0	20,10	2050	17,6	white	13I4.60.80
6,0-9,0	20,10	2050	21,5	white	13I4.60.90
8,0-12,0	33,40	3410	27,1	white	13I4.81.20

PA 6 - PA 12 - PE - PP and Hytrel coated wire ropes on request.

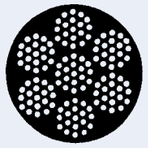
In following constructions:

1x7

1x19



7x7



7x19

Wire Rope Cutting Machine

- Our automatic wire rope cutters realize low priced and quick to deliver serial productions.
- Instead of ordering 1 x 2000 meter of wire rope, you can ask for 2000 x 1 meter or 1000 x 2 meters of wire rope against an economical price level.

Monel locking and seizing single wire

Wire rope ø in mm	Reel lenght/ mtr.	Min. packing pcs.	Product code	**Ref. No.**
0,90	10	1	509-0901	monel.090
0,90	10	20	509-090120	monel.09020
1,60	bulk	bulk	508-1600	monel.160

Monel Wire is made from Bright Annealed Alloy 400 (BS 3075 NA13)

Randmeer design: vd Stadt en Partners

Because we know your problems,
we can help you efficiently!

There is an increasing pressure and responsibility which rests on you - the technical engineer. This area of responsibility also includes so called little things like static tensioning or suspending elements and dynamic control and drive assemblies.

Conventional solutions like wires and metal tapes, synthetic ropes and gears, rods and chains sometimes offer advantages but they also have immense disadvantages:
they are too expensive or have no dimensional stability, they fatigue quickly, break or kink, they do not withstand temperature fluctuations, they knot, they are not shock-absorbing or offer an unsatisfactory strength/weight ratio, they are too bulky and cannot execute any threedimensional movements or movements around corners.

Since 1978 microcables and microstrands from Carl Stahl have proved to be excellent products in many branches of industry and also in surgery and medical equipment. Due to the extremely small diameter of wire - starting from 0,03 mm - they offer technical solutions which seemed to be impossible not long ago.
An increasing number of technical engineers decide for microcables and microstrands from Carl Stahl when static tensioning or suspending elements or control and drive assemblies are concerned; because they don't want to do any more without the following advantages:

- small space requirements
- excellent strength/weight ratio
- low maintenance requirements
- reduced fatigue
- non-rotating and
- free of tension
- flexible
- smooth and easy running
- long lifetime
- threedimensional movement into various directions and around corners
- from 0,06 to 2 mm diameter
- standard and special constructions
- made out of stainless steel, corrosion resistant steel and aloy steel
- and other special material like titanum, tantalum, Monel, Inconel, Hastelloy
- or copper alloys like brass, tombac etc.
- galvanized, tinned, plastic coated or with special surface treatment
- to be supplied on reels or
- with terminals
- and last but not least: economical!

Ask for the Technocables catalogue
where you can find more about

- end fittings
- pulleys
- pressing tools
- and technical information

Stainless Steel Strands 1.4401 (AISI 316)

Unless otherwise specified, all strand and ropes are manufactured with a wire tensile strength of 1770 N/mm^2.

Construction 1 x 7

ø nominal in mm	minimum breaking load 1770 N/mm^2 180 kp/mm^2 in N	weight kg/1000 m	**Ref. No.**
0,09	6,9	0,040	CG00.70.09
0,12	13,3	0,073	CG00.70.12
0,15	20,0	0,113	CG00.70.15
0,18	30,0	0,163	CG00.70.18
0,21	41,0	0,210	CG00.70.21
0,24	53,0	0,280	CG00.70.24
0,27	70,0	0,360	CG00.70.27
0,30	85,0	0,440	CG00.70.30
0,33	100,0	0,540	CG00.70.33
0,36	120,0	0,640	CG00.70.36
0,39	140,0	0,750	CG00.70.39
0,45	200,0	1,000	CG00.70.45
0,51	280,0	1,250	CG00.70.51
0,57	350,0	1,600	CG00.70.57
0,60	400,0	1,800	CG00.70.60
0,69	520,0	2,400	CG00.70.69
0,75	600,0	2,800	CG00.70.75

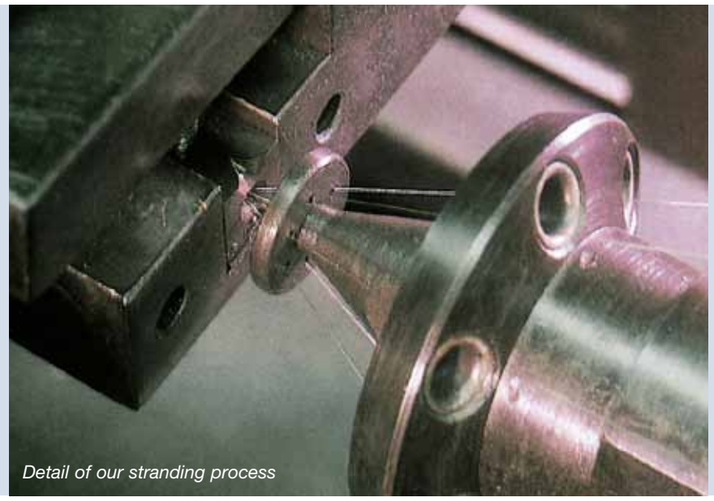
Construction 1 x 12

ø nominal in mm	minimum breaking load 1770 N/mm^2 180 kp/mm^2 in N	weight kg/1000 m	**Ref. No.**
0,20	43	0,180	CG01.20.20
0,24	62	0,260	CG01.20.24
0,28	84	0,350	CG01.20.28
0,32	111	0,460	CG01.20.32
0,36	140	0,580	CG01.20.36
0,40	173	0,720	CG01.20.40
0,44	209	0,870	CG01.20.44
0,48	248	1,030	CG01.20.48
0,52	291	1,210	CG01.20.52
0,56	338	1,400	CG01.20.56
0,60	387	1,600	CG01.20.60
0,68	499	2,100	CG01.20.68
0,80	691	2,900	CG01.20.80

special rope constructions available on request

Stainless Steel Strands 1.4401 (AISI 316)

Unless otherwise specified, all strand and ropes are manufactured with a wire tensile strength of 1770 N/mm^2.



Detail of our stranding process

Construction 1 x 19

ø nominal in mm	minimum breaking load 1770 N/mm^2 180 kp/mm^2 in N	weight kg/1000 m	**Ref. No.**
0,15	25	0,110	CG01.90.15
0,20	44	0,200	CG01.90.20
0,25	69	0,300	CG01.90.25
0,30	98	0,440	CG01.90.30
0,35	135	0,600	CG01.90.35
0,40	177	0,780	CG01.90.40
0,45	224	0,970	CG01.90.45
0,50	275	1,200	CG01.90.50
0,55	330	1,450	CG01.90.55
0,60	392	1,750	CG01.90.60
0,65	461	2,070	CG01.90.65
0,75	618	2,760	CG01.90.75
0,85	795	3,500	CG01.9.085
1,00	1079	4,900	CG01.91.00
1,25	1765	7,600	0153.10.12

special rope constructions available on request

Stainless Steel Wire Ropes 1.4401 (AISI 316)

Unless otherwise specified, all strand and ropes are manufactured with a wire tensile strength of 1770 N/mm^2.

Should you have any special needs, please ask us - we are ready to help you!

Construction 8 x 19 + 7 x 7

ø nominal in mm	minimum breaking load 1770 N/mm² 180 kp/mm² in N	weight kg/1000 m	**Ref. No.**
0,57	247	1,170	CG 819057
0,76	400	2,120	CG 819076
0,95	650	3,200	CG 819095
1,14	946	4,720	CG 819114
1,33	1180	6,400	CG 819133
1,52	1500	8,340	CG 819152
1,71	2100	10,360	CG 819171

Construction 7 x 7

ø nominal in mm	minimum breaking load 1770 N/mm² 180 kp/mm² in N	weight kg/1000 m	**Ref. No.**
0,12	10	0,060	CG07.70.12
0,18	15	0,130	CG07.70.18
0,27	59	0,290	CG07.70.27
0,36	103	0,520	CG07.70.36
0,45	162	0,800	CG07.70.45
0,54	235	1,200	CG07.70.54
0,63	324	1,600	CG07.70.63
0,72**	422	2,100	CG07.70.72
0,81**	530	2,600	CG07.70.81
0,90	647	3,200	CG07.70.90
1,00	785	3,900	CG07.71.00
1,20	1128	5,000	CG07.71.20
1,35	1330	7,200	CG07.71.35
1,50	1800	9,200	CG07.71.50

**** AISI 304 (1.4301)**

Construction 7 x 19

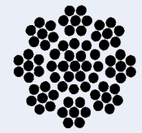
ø nominal in mm	minimum breaking load 1770 N/mm² 180 kp/mm² in N	weight kg/1000 m	**Ref. No.**
0,45	152	0,810	CG71.90.45
0,60	270	1,440	CG71.90.60
0,75	417	2,100	CG71.90.75
0,90	613	3,500	CG71.90.90
1,00	765	4,400	CG71.91.00
1,20	976	5,600	CG71.91.20
1,35	1227	7,100	CG71.91.35
1,50	1590	9,000	CG71.91.50
1,75	2099	13,500	CG71.91.75
2,00	2768	17,000	CG71.92.00
2,50	3551	24,500	CG71.92.50

special rope constructions available on request

Stainless Steel Wire Ropes 1.4401 (AISI 316)

Unless otherwise specified, all strand and ropes are manufactured with a wire tensile strength of 1770 N/mm².

Construction 8 x 7 + 1 x 19



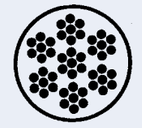
ø nominal in mm	minimum breaking load 1770 N/mm² 180 kp/mm² in N	weight kg/1000 m	**Ref. No.**
0,44	172	0,760	CG08.70.44
0,55	270	1,200	CG08.70.55
0,66	387	1,700	CG08.70.66
0,77	495	2,300	CG08.70.77
0,88	696	3,000	CG08.70.88
0,99	824	3,900	CG08.70.99
1,10	1010	4,700	CG08.71.10
1,21	1226	5,700	CG08.71.21
1,32	1471	6,800	CG08.71.32
1,43	1716	8,000	CG08.71.43
1,54	1962	9,200	CG08.71.54

special rope constructions available on request

Coated Stainless Steel Wire Ropes 1.4401 (AISI 316)

Unless otherwise specified, all strand and ropes are manufactured with a wire tensile strength of 1770 N/mm².

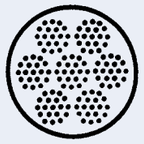
Construction 7 x 7 Polyamid coated (PA12)



ø in mm	ø outer in mm	minimum breaking force in N	weight in kg/1000 m	**Ref. No.**
0,27	0,36	59	0,35	U077.27.36
0,36	0,45	103	0,58	U077.36.45
0,45	0,61	162	0,94	U077.45.61
0,54	0,70	235	1,35	U077.54.70
0,63	0,80	324	1,80	U077.63.80
0,72**	0,90	422	2,35	U077.72.90
0,81	1,00	530	2,90	U077.81.10
0,90	1,20	647	3,70	U077.90.12
1,00	1,60	785	5,00	U077.10.16
1,20	1,60	1128	7,21	U077.12.16
1,20	1,80	1128	7,77	U077.12.18
1,35	1,80	1452	8,25	U077.13.18
1,50	2,00	1800	10,4	U077.15.20
1,80***	2,50	1820	14,8	U077.18.25
2,00*	3,00	2200	19,3	U077.20.30
2,50*	3,50	3360	28,8	U077.25.35
3,00*	4,00	5060	40,2	U077.30.40
4,00*	5,00	9010	68,0	U077.40.50
5,00*	7,00	14100	116,0	U077.50.70

*** Wire tensile strength 1570 N/mm²**
**** AISI 304 (1.4301)**
***** only PA 6 coated available**

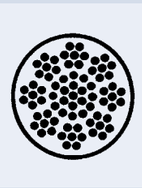
Construction 7 x 19 Polyamid coated (PA12)



ø in mm	ø outer in mm	minimum breaking force in N	weight in kg/1000 m	Ref. No.
0,45	0,61	152	0,93	U719.45.61
0,60	0,80	270	1,64	U719.60.80
0,75	1,00	417	2,40	U719.75.10
0,90	1,10	613	3,75	U719.90.11
1,00	1,25	765	4,80	U719.10.12
1,20	1,50	976	6,30	U719.12.15
1,35**	1,65	1227	7,80	U719.13.16
1,50	1,75	1590	9,50	U719.15.17
2,00	2,40	2768	18,20	U719.20.24
2,50*	3,50	3551	29,00	U719.25.35
3,00*	4,00	4690	39,00	U719.30.40
4,00*	5,00	8340	66,80	U719.40.50
5,00*	7,00	13000	112,50	U719.50.70
6,00*	8,00	18800	157,00	U719.61.80

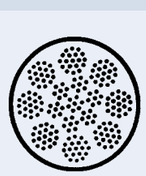
*** Wire tensile strength 1570 N/mm^2**
**** AISI 304 (1.4301)**

Construction 8 x 7 + 1 x 19 Polyamid coated (PA12)



ø in mm	ø outer in mm	minimum breaking force in N	weight in kg/1000 m	Ref. No.
0,44	0,61	172	0,9	U087.44.61
0,55	0,70	270	1,3	U087.55.70
0,66	0,80	387	1,8	U087.66.80
0,77	1,00	495	2,6	U087.77.10
0,88	1,10	697	3,3	U087.88.11
0,99	1,20	824	4,2	U087.99.12
1,10	1,30	1010	5,0	U087.11.13
1,21	1,50	1226	6,2	U087.12.15

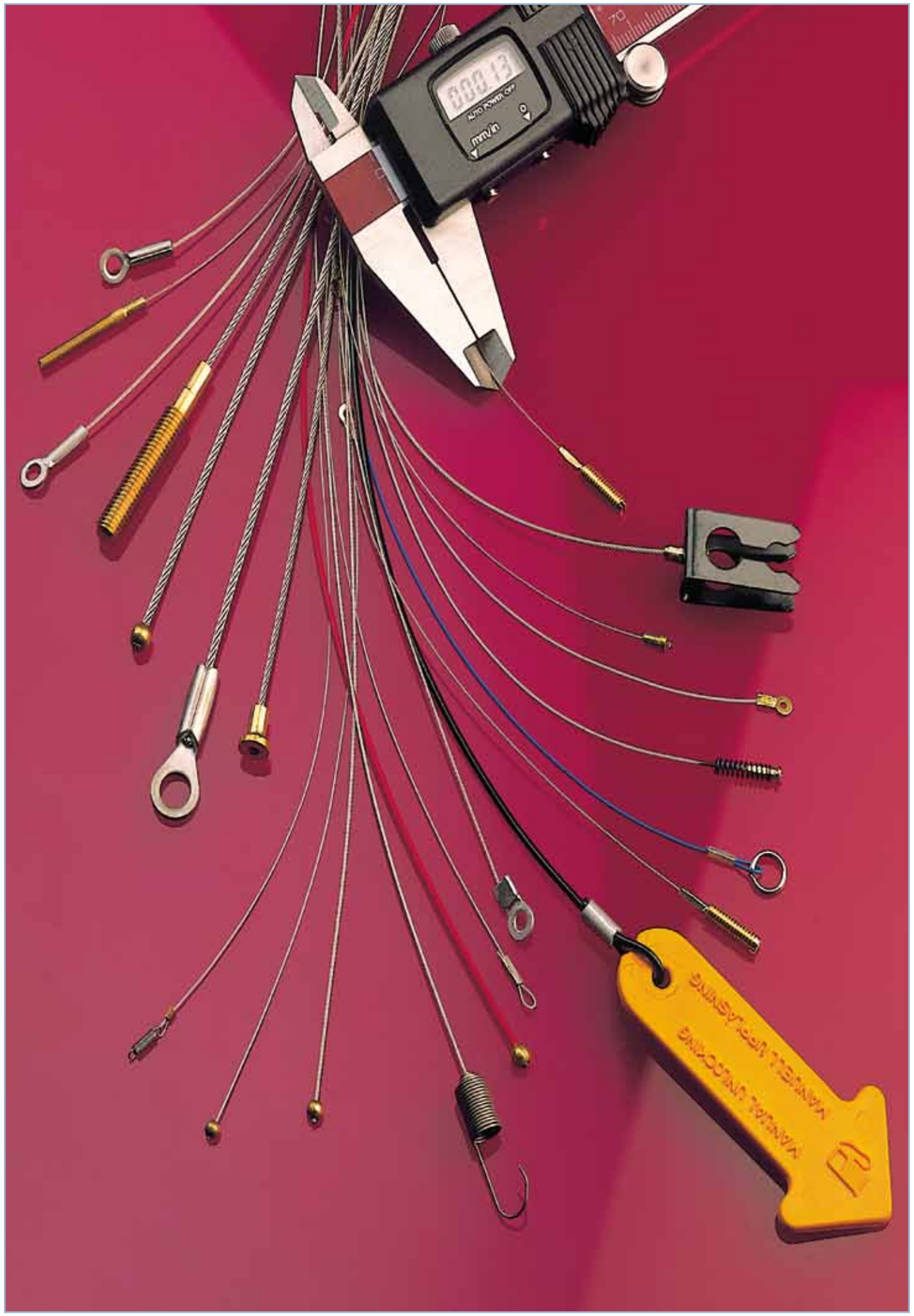
Construction 8 x 19 + 7 x 7 Polyamid coated (PA12)



ø in mm	ø outer in mm	minimum breaking force in N	weight in kg/1000 m	Ref. No.
0,57	0,80	247	1,5	U819.57.80
0,76	0,95	400	2,5	U819.76.95
0,95**	1,20	650	3,9	U819.95.12
1,14*	1,45	946	5,8	U819.11.14
1,33	1,55	1180	7,6	U819.13.15
1,52	1,75	1500	9,4	U819.15.17
1,76	2,00	2100	13,0	U819.17.20
2,00	3,00	2580	19,0	U819.20.30
2,50	3,50	4000	29,0	U819.25.35
3,00	4,00	5350	40,0	U819.30.40
4,00	5,00	9100	67,5	U819.40.50

*** Wire tensile strength 2050 - 2350 N/mm^2**
**** AISI 304 (1.4301)**

special rope constructions available on request



Felco C 7 wire rope cutter

max. capacity 1 x 19	4 mm	**Ref. No.**
max. capacity 7 x 19	5 mm	5090.00.20
length	190 mm	
weight	0,27 kg	

Felco C 9 wire rope cutter

max. capacity 1 x 19	6 mm	**Ref. No.**
max. capacity 7 x 19	7 mm	5090.00.30
length	325 mm	
weight	0,75 kg	

Set spare blades for Felco C 9 — **Ref. No.** 5090.00.30S

Felco C 12 wire rope cutter

max. capacity 1 x 19	8 mm	**Ref. No.**
max. capacity 7 x 19	10 mm	5090.00.31
length	500 mm	
weight	1,50 kg	

Set spare blades for Felco C 12 — **Ref. No.** 5090.00.31S

Felco C 16 wire rope cutter

max. capacity 1 x 19	10 mm	**Ref. No.**
max. capacity 7 x 19	12 mm	5090.00.32
length	630 mm	
weight	2,30 kg	

Set spare blades for Felco C 16 — **Ref. No.** 5090.00.32S

Felco C 108 wire rope cutter

max. capacity 1 x 19	8 mm	**Ref. No.**
max. capacity 7 x 19	10 mm	5090.00.33
length	560 mm	
weight	1,95 kg	

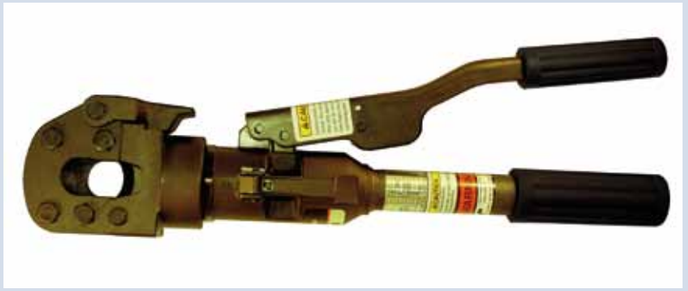
Set spare blades for Felco C 108 — **Ref. No.** 5090.00.33S

Felco C 112 wire rope cutter

max. capacity 1 x 19	12 mm	**Ref. No.**
max. capacity 7 x 19	14 mm	5090.00.34
length	730 mm	
weight	3,60 kg	

Set spare blades for Felco C 112 — **Ref. No.** 5090.00.34S

Underwater Hydraulic Cutter with nickel plating



Ref. No.
LC TPL-S20

- Lenght 40,6cm.
- Cutting capacity 16mm.
- Head rotates 180° for easy positioning.
- Saltwater resistant, nickel-plated cutter for use in underwater environments.
- Its recommended uses include: marine nautical cutting, emergency cutting of stainless steel wire rope rigging and hardware, underwater rebar and cable cutting.
- No need for difficult tools like hacksaws, acetylene cutting torches or pneumatic cutting tools.
- The TPL-S20 requires only minimum pumping effort to produce specified output tonnage.
- Especially designed for use by the U.S. Coast Guard, Army Corp of Engineers, offshore drilling companies, longshoremen and port authorities.

NOTE: Flush with fresh water to remove salt after each use.

Standard Tension Gauge

- The standard economy tension gauge takes the guesswork out of cable tension adjustment. It's especially designed for accurate, repeatable tuning of a sailboat's standing rigging. Manufactured of rugged anodized aluminium, the gauge is corrosion-resistant and will provide years of service.

for wire rope size in mm	Product code	**Ref. No.**
2,5 - 3 - 4	91 metric	LC91-2540
5 - 6 - 7	90 metric	LC90-5070

Professional Tension Gauge

- Higher accuracy and easier to use than standard models. The cable can be adjusted while the gauge remains on the cable. „Just watch the pointer move."
- All readings are based on 302/304 1x19 S.S. breaking strengths.

for wire rope size in mm	Product code	**Ref. No.**
2,5 - 3 - 4	PT-1 metric	LCPT12540
5 - 6 - 7	PT-2 metric	LCPT25070
8 - 10	PT-3 metric	LCPT380100

Professional PT-CR Tension Gauge

- The Professional Model #PT-CR tension gauge is designed to provide an accurate measurement of the tension in architectural cable railing systems.
- The Model #PT-CR is designed to measure cable tension in kg for 4mm 1x19 cables.

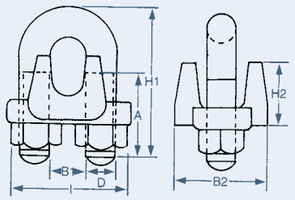
for wire rope size in mm	Product code	**Ref. No.**
4	PT-CR	LCPTCR4000

Rod Rigging Gauge

- We offer a series of gauges to measure the tension in rods from .172 to .375 inch in diameter over a range of approximately 5% to 25% of the breaking strength of the rod and provide an accuracy of + or -5%. The „Professional Model" RT series provides an increasing durability, accuracy and convenience of use.
- Manufactured of rugged anodized aluminium, this gauge is corrosive resistant and will give years of service. Detailed operating instructions are included with each tension gauge. Operates in the same manner as the Professional Model Series.

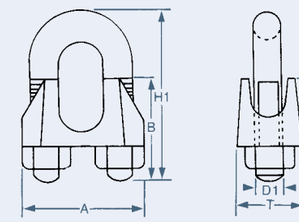
for rod size in mm	Product code	**Ref. No.**
4,4 - 7,1	RT-10M	LCRT10M
7,1 - 9,5	RT-11M	LCRT11M

Stainless Steel wire rope clips AISI 316 same as American Federal Specification



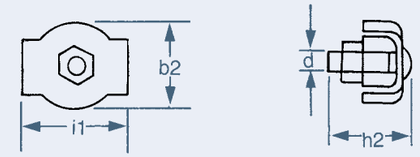
wire rope ø in mm	A	B1	B2	D	H1	H2	l	Min. packing pcs.	weight in kg/100 pcs.	Ref. No.
2	9	4	13	M 3	18	11	14	10	0,8	5870.00.02
3	12	5	16	M 4	25	12	17	10	1,5	5870.00.03
4	13	6	18	M 4	25	14	19	10	2,9	5870.00.04
5	15	7	20	M 5	29	15	24	10	3,1	5870.00.05
6	18	8	21	M 6	31	17	27	10	4,0	5870.00.06
8	23	10	27	M 8	41	21	34	10	7,7	5870.00.08
10	28	12	34	M 10	52	25	45	10	17,0	5870.00.10
12	35	14	38	M 12	61	28	51	1	26,5	5870.00.12
14	42	15	43	M 12	68	32	53	1	31,0	5870.00.14
16	42	18	47	M 14	76	36	60	1	50,0	5870.00.16
19	50	20	51	M 14	79	40	62	1	58,0	5870.00.19
22	60	26	61	M 16	98	46	72	1	80,0	5870.00.22
25	62	29	61	M 16	110	49	76	1	108,0	5870.00.25

Stainless Steel wire rope clips AISI 316, light type DIN 741



wire rope ø in mm	B	D1	H1	H2	A	T	Min. packing pcs.	weight in kg/100 pcs.	Ref. No.
2	11	M 3	17,5	10,0	17	10	10	0,7	5871.00.02
3	12	M 3	21,0	11,0	18	10	10	1,2	5871.00.03
4	14	M 4	23,0	13,0	21	11	10	1,4	5871.00.04
5	15	M 5	28,0	15,0	25	12	10	1,5	5871.00.05
6	17	M 6	32,0	17,0	28	16	10	2,1	5871.00.06
8	21	M 6	36,0	20,0	31	18	10	4,1	5871.00.08
10	25	M 8	44,0	23,0	36	19	10	6,8	5871.00.10
13	28	M 10	55,0	25,5	47	26	1	13,0	5871.00.13
16	32	M 12	65,0	28,0	52	26	1	21,0	5871.00.16
19	38	M 12	78,0	32,0	58	30	1	28,0	5871.00.19
22	40	M 12	86,0	43,5	64	32	1	40,0	5871.00.22
25	46	M 14	94,0	43,5	69	32	1	44,0	5871.00.25

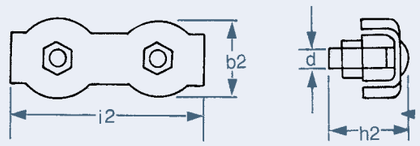
Stainless Steel Simplex Wire Rope Clips AISI 304



wire rope ø in mm	b2	d	h2	i1	Min. packing pcs.	weight in kg/100 pcs.	Ref. No.
2	12	M 4	14	15	10	0,46	5855.00.02
3	14	M 4	14	17	10	0,72	5855.00.03
4	18	M 5	18	20	10	1,72	5855.00.04
5	20	M 5	18	25	10	1,46	5855.00.05
6	24	M 6	23	30	1	2,52	5855.00.06
8	30	M 8	25	37	1	5,42	5855.00.08
10	35	M 10	32	48	1	8,80	5855.00.10

■ **Also available in AISI 316**

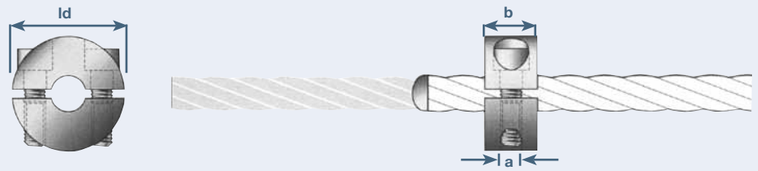
Stainless Steel Duplex Wire Rope Clips AISI 304



wire rope ø in mm	b2	d	h2	i2	Min. packing pcs.	weight in kg/100 pcs.	Ref. No.
2	12	M 4	14	30	10	0,97	5865.00.02
3	14	M 4	14	35	10	1,41	5865.00.03
4	18	M 5	18	40	10	2,45	5865.00.04
5	20	M 5	18	50	10	2,91	5865.00.05
6	24	M 6	23	60	1	5,00	5865.00.06
8	30	M 8	25	75	1	10,63	5865.00.08
10	35	M 10	32	95	1	17,13	5865.00.10

■ **Also available in AISI 316**

Clamp Rings Stainless Steel (AISI 316)

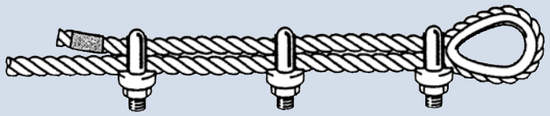


Light 2-Part Clamp Rings S.S. AISI 316

wire rope Ø in mm	a	max. axial force in kN	b	ld	Ref. No.
2	M3	1,0	10	15	I863-0200
3	M3	1,3	10	15	I863-0300
4	M3	1,6	10	15	I863-0400
5	M4	2,0	10	20	I863-0500
6	M4	2,2	10	20	I863-0600
8*	M4	2,2	10	20	I863-0800
10	M6	6,0	15	32	I863-1000
12	M6	7,0	20	40	I863-1200

- **Degreasing the parts and the wire rope increases the permissible axial force (kN)!**
- **The max. axial force is based on 6 strand wire rope.**

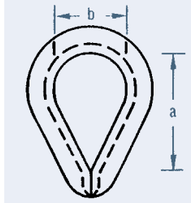
* **The 8 mm clamp can be used for 7 mm also (axial force is different)**



The right way to mount wire rope-clips.

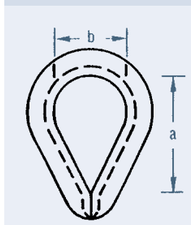
Thimbles

Standard Stainless Steel Thimbles AISI 316



groove width in mm	a	b	thickness	min. packing pcs.	weight in kg/100 pcs.	Ref. No.
2,0	12	8	1,0	25	0,3	5970.00.02
2,5	16	10	1,0	25	0,4	5970.00.25
3,0	16	10	1,0	25	0,4	5970.00.03
4,0	17	11	1,0	25	0,5	5970.00.04
5,0	20	13	1,0	25	0,6	5970.00.05
6,0	25	16	1,2	25	1,0	5970.00.06
7,0	28	18	1,2	10	1,2	5970.00.07
8,0	32	20	1,4	10	1,8	5970.00.08
10,0	40	26	1,6	10	2,9	5970.00.10
12,0	45	28	2,0	10	4,6	5970.00.12
14,0	56	34	2,2	10	9,0	5970.00.14
16,0	62	37	2,5	1	10,4	5970.00.16
18,0	68	42	2,8	1	17,1	5970.00.18
20,0	75	46	3,4	1	27,7	5970.00.20
22,0	85	50	3,6	1	29,7	5970.00.22
24,0	94	58	4,5	1	54,9	5970.00.24
26,0	102	66	4,5	1	60,5	5970.00.26
28,0	115	75	4,5	1	88,0	5970.00.28
32,0	125	80	6,0	1	140,0	5970.00.32
36,0	160	100	6,0	1	185,0	5970.00.36

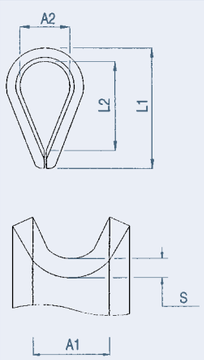
Stainless Steel Thimbles AISI 316



groove width in mm	a	b	thickness	min. packing pcs.	weight in kg/100 pcs.	Ref. No.
2,0	10	7	0,8	50	0,2	5970.00.02EB
2,5	14	8	0,8	50	0,2	5970.00.25EB
3,0	17	10	1,0	50	0,4	5970.00.03EB
4,0	18	11	1,0	50	0,5	5970.00.04EB
5,0	22	13	1,2	50	0,7	5970.00.05EB
6,0	27	15	1,2	50	1,0	5970.00.06EB
8,0	33	18	1,4	50	1,5	5970.00.08EB
10,0	41	22	2,0	25	3,8	5970.00.10EB
12,0	48	27	2,0	25	5,0	5970.00.12EB

BLUE WAVE®

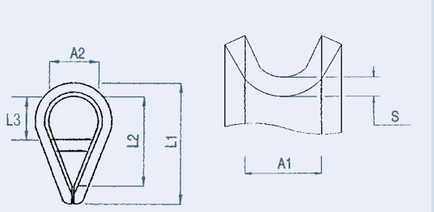
Stainless Steel Highly Polished Thimbles AISI 316



for wire rope ø in mm	A1	A2	B	L1	L2	S	min. packing	weight in kg/100 pcs.	**Ref. No.**
2	3	9,0	4,5	22,5	17	1,0	25	0,2	BW11.00.02
3	4	10,0	5,5	25,0	18	1,0	25	0,3	BW11.00.03
4	5	11,0	7,5	28,0	20	1,2	25	0,5	BW11.00.04
5	6	13,0	8,2	32,0	21	1,2	25	0,7	BW11.00.05
6	7	15,0	9,7	39,0	27	1,5	25	1,2	BW11.00.06
7	8	19,0	11,0	45,0	33	1,5	25	1,5	BW11.00.07
8	9	22,0	13,0	51,0	38	2,0	10	2,7	BW11.00.08
9	10	24,0	14,0	58,0	41	2,0	10	2,9	BW11.00.09
10	11	27,0	15,5	65,0	48	2,5	10	5,2	BW11.00.10
12	14	29,0	18,0	71,0	53	2,5	10	5,5	BW11.00.12
14	16	32,0	21,0	78,0	57	3,0	10	11,0	BW11.00.14
16	18	40,0	22,0	88,0	67	3,0	1	12,0	BW11.00.16
18	20	45,0	26,0	102,0	75	4,0	1	21,5	BW11.00.18
20	22	52,0	30,0	124,0	84	4,0	1	32,0	BW11.00.20
22	24	56,0	34,0	137,0	96	5,0	1	47,0	BW11.00.22
26	28	65,0	40,0	158,0	115	6,0	1	80,0	BW11.00.26
28	30	76,0	42,0	187,0	135	6,0	1	110,0	BW11.00.28
32	34	88,0	46,0	215,0	160	6,0	1	156,0	BW11.00.32
34	36	100,0	48,0	220,0	160	6,0	1	176,0	BW11.00.34
36	38	110,0	50,0	237,0	176	6,0	1	192,0	BW11.00.36
38	40	115,0	56,0	247,0	184	8,0	1	292,0	BW11.00.38
40	42	120,0	58,0	257,0	192	8,0	1	320,0	BW11.00.40
42	45	150,0	61,0	309,0	240	8,0	1	364,0	BW11.00.42

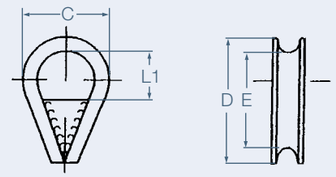
BLUE WAVE®

Stainless Steel Bar Reinforged Thimbles AISI 316



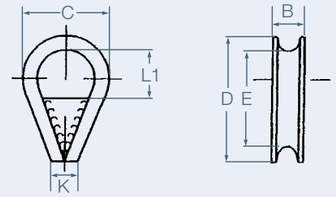
for wire rope ø in mm	A1	A2	L2	S	L3	min. packing	weight in kg/100 pcs.	**Ref. No.**
8	8	20,0	30	1,5	20,0	40	3,0	BW11.99.08S
9	10	24,0	38	2,0	24,0	10	3,2	BW11.99.09
10	11	27,0	48	3,0	27,0	10	5,9	BW11.99.10
12	14	29,0	53	3,0	29,0	10	6,3	BW11.99.12
14	16	32,0	57	3,0	32,0	10	12,3	BW11.99.14
16	18	40,0	67	3,0	40,0	1	13,6	BW11.99.16
18	20	45,0	75	4,0	45,0	1	24,0	BW11.99.18
20	22	50,0	84	4,0	50,0	1	34,8	BW11.99.20
22	24	56,0	96	5,0	56,0	1	51,8	BW11.99.22
26	28	60,0	115	6,0	60,0	1	85,6	BW11.99.26

Stainless Steel Plate Reinforced Thimbles AISI 316



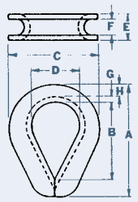
for wire rope ø in mm	C	D	E	L1	min. packing	weight in kg/100 pcs.	**Ref. No.**
6	24	37	22	11	10	1,2	5970.00.06V
8	32	48	30	15	10	2,0	5970.00.08V
10	40	54	34	20	10	4,2	5970.00.10V
12	42	60	40	25	10	5,9	5970.00.12V
14	51	74	50	30	10	10,0	5970.00.14V

Stainless Steel Casted Plate Reinforced Thimbles AISI 316



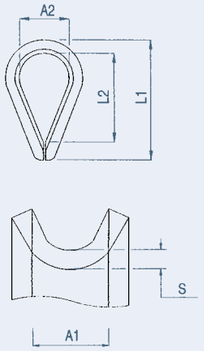
for wire rope ø in mm	B	C	D	L1	K	min. packing	weight in kg/100 pcs.	**Ref. No.**
6	11,0	24	36	11	7	10	1,4	5970.00.06VC
8	13,8	31	49	16	10	10	2,7	5970.00.08VC
10	14,5	40	54	21	14	10	5,0	5970.00.10VC
12	16,5	42	61	27	16	10	6,2	5970.00.12VC
14	19,5	52	73	30	20	10	10,1	5970.00.14VC

Stainless Steel Heavy Duty Thimbles AISI 304



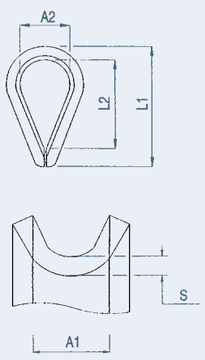
A	B	C	D	E	F	G	H	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
55	41,4	38,1	22,2	10,4	7,11	1,52	5,84	1	3,06	5975.00.06
63	47,8	46,0	26,9	12,7	8,64	2,03	7,11	1	5,10	5975.00.08
73	54,0	54,0	28,7	16,0	10,40	2,79	8,64	1	11,30	5975.00.10
92	70,0	70,0	38,1	20,6	13,50	3,65	10,40	1	23,10	5975.00.13
108	82,5	79,5	44,5	24,6	16,80	4,06	12,70	1	34,00	5975.00.16
127	95,5	97,0	51,0	31,0	19,80	5,59	16,80	1	67,00	5975.00.19

Stainless Steel Thimbles Closed Shape AISI 316



for wire rope ø in mm	L1	L2	A2	A1	S	min. packing	weight in kg/100 pcs.	**Ref. No.**
4	26	20	11	4	1,0	10	0,3	5970.00.03E
5	32	25	12	5	1,2	10	0,7	5970.00.05E
6	45	36	17	6	1,5	10	1,4	5970.00.06E

Nylon Thimbles



for wire rope ø in mm	L1	L2	A2	A1	S	min. packing	weight in kg/100 pcs.	**Ref. No.**
3	18	11,0	7,3	3	0,6	10	0,05	5970.00.03N
4	24	14,5	10,0	4	0,8	10	0,08	5970.00.04N
5	30	18,0	12,0	5	1,0	10	0,15	5970.00.05N
6	36	21,8	14,7	6	1,1	10	0,25	5970.00.06N
8	48	29,0	19,5	8	1,5	10	0,50	5970.00.08N
10	60	36,3	24,4	10	1,9	10	0,98	5970.00.10N
12	72	43,5	29,3	12	2,3	10	1,72	5970.00.12N
14	84	51,0	34,0	14	2,6	10	2,74	5970.00.14N
18	108	65,3	44,0	18	3,4	10	5,68	5970.00.16N

Nicopress Oval Sleeves (Zinc Plated Copper)

ø wire rope in mm	Nicopress No.	Recommended Nicotool jaw	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
0,72-0,8	NT-27-1-B	B	100	0,028	NICO.10.08
1,0-1,2	NT-28-11-B4	B4	100	0,084	NICO.10.10
1,5-2,0	NT-28-1-C	C	100	0,125	NICO.10.20
2,5-2,8	NT-28-2-G	G	50	0,261	NICO.10.25
3,0-3,5	NT-28-3-M	M	50	0,760	NICO.10.30
4,0-4,5	NT-28-4-P	P	50	1,060	NICO.10.40
5,0	NT-28-6-X	X	50	2,256	NICO.10.50
6,0	NT-28-8-F2	F2	50	2,144	NICO.10.60
7,0	NT-28-10-F6	F6	25	3,580	NICO.10.70
8,0	NT-28-13-G9	G9	25	5,128	NICO.10.80

■ **Zinc plated copper sleeves can be used on stainless and galvanised wire rope**

Nicopress Stop Sleeves (Plain Copper)

ø wire rope in mm	Nicopress No.	Recommended Nicotool jaw	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
0,72-0,8	NT-871-32-B	B	10	0,040	NICO.20.08
1,0-1,2	NT-871-12-B4	B4	10	0,068	NICO.20.10
1,5-2,0	NT-871-1-C	C	10	0,096	NICO.20.20
2,5-2,8	NT-871-17-J	J or G	10	0,340	NICO.20.25
3,0-3,5	NT-871-18-J	J or G	10	0,350	NICO.20.30
4,0-4,5	NT-871-19-M	M	10	0,536	NICO.20.40
5,0	NT-871-20-M	M	10	0,472	NICO.20.50
6,0	NT-871-22-M	M	10	0,860	NICO.20.60

Multi Groove Hand Tools

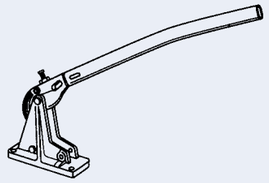
to use for following oval sleeves (in mm)	Nicopress No.	weight (in kg)	**Ref. No.**
1,2-1,5/1,8-2,0/2,5-2,8	NT-33V-CGB4	1,2	NICO.40.33
1,8-2,0/2,5-2,8/3,0-3,5/4,0-4,5	NT-64-CGMP	2,9	NICO.40.64
3,0-3,5/4,0-4,5/5,0	NT-63-XPM	2,9	NICO.40.63

Jaw B4 = 1,2-1,5 mm
Jaw C = 1,8-1,5 mm
Jaw G = 2,5-2,8 mm
Jaw M = 3,0-3,5 mm
Jaw X = 5,0 mm

Single Groove Hand Tools

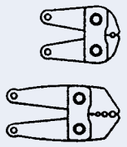
to use for following oval sleeves (in mm)	Nicopress No.	weight (in kg)	**Ref. No.**
0,72-1,0	NT-17-BA	0,34	NICO.30.08
3,0-3,5	NT-51-M-850	2,60	NICO.30.30
4,0-4,5	NT-51-P-850	2,60	NICO.30.40
5,0	NT-51-X-850	2,60	NICO.30.50
6,0	NT-51-F2-850	2,80	NICO.30.60
7,0	NT-3-F6-950	6,48	NICO.30.70
8,0	NT-3-G9-950	6,48	NICO.30.80

Nicopress



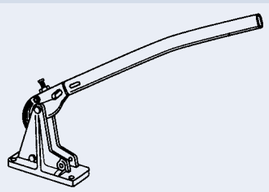
Small Bench Tool (Without Dies)

Nicopress No.	weight (in kg)	Ref. No.
NT-510	2,95	NICO.60.00



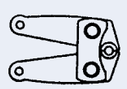
Dies For Small Bench Tool

to use for following oval sleeves (in mm)	Nicopress No.	Ref. No.
1,8-2,0/2,5-2,8/3,0-3,5/4,0-4,5	NT-10-CGMP	NICO.60.64
3,0-3,5/4,0-4,5/5,0	NT-10-XPM	NICO.60.63
5,0	NT-10-X	NICO.60.50
6,0	NT-10-F2	NICO.60.60



Big Bench Tool (Without Dies)

Nicopress No.	weight (in kg)	Ref. No.
NT-300	8,55	NICO.70.00



Dies For Big Bench Tool

to use for following oval sleeves (in mm)	Nicopress No.	Ref. No.
1,8-2,0/2,5-2,8/3,0-3,5/4,0-4,5	NT-30-CGMP	NICO.70.64
5,0	NT-30-X	NICO.70.50
6,0	NT-30-F2	NICO.70.60
7,0	NT-30-F6	NICO.70.70
8,0	NT-30-G9	NICO.70.80

Tools for Nicopress stop sleeves with J on request

SAVAPRESS

Savapress Oval Sleeves (Zinc Plated Copper)

ø wire rope in mm	Savapress No.	Recommended Savatool jaw	Recommended Nicotool jaw	min. packing pcs.	weight in kg/100 pcs.	Ref. No.
0,72-0,8	7030 C	185-D	B	100	0,028	TK72.10.70
1,0-1,2	7047 C	T188 no.1 or T185-B	B4	100	0,084	TK12.15.10
1,5-2,0	7062 C	T188 no.2 or T185-C	C	100	0,125	TK18.20.10
2,5-2,8	7092 C	T188 no.3	G	50	0,261	TK25.01.20
3,0-3,5	7125 C	T188 no.4	M	50	0,760	TK30.01.90
4,0-4,5	7156 C	T188 no.5 or 0-5/32SC	P	50	1,060	TK40.02.10
5,0	7187 C	T188 no.6 or 0-3/16SC	X	50	2,256	TK50.03.40
6,0	7218 C	0-7/32	F2	50	2,144	TK60.02.70
7,0	7250 C	0-1/4	F6	25	3,580	TK70.03.80
8,0	7312 C	0-5/16	G9	25	5,128	TK80.04.30

■ **Zinc plated copper sleeves can be used on stainless and galvanised wire rope**

Savapress Stop Sleeves (Plain Copper)

ø wire rope in mm	Savapress No.	Recommended Savatool jaw	Recommended Nicotool jaw	min. packing pcs.	weight in kg/100 pcs.	Ref. No.
0,72-0,8	8030 C	T185-D	B	10	0,040	TK72.10.00
1,0-1,2	8047 C	T188 no.1/T185-B	B4	10	0,068	TK12.15.00
1,5-2,0	8062 C	T188 no.2/T185-C	C	10	0,096	TK18.20.00
2,5-2,8	8092 C	*	J or G	10	0,340	TK25.00.00
3,0-3,5	8125 C	*	J or G	10	0,350	TK30.00.00
4,0-4,5	8156 C	T188 no.4	M	10	0,536	TK40.00.00
5,0	8187 C	T188 no.4	M	10	0,472	TK50.00.00

*** Tool for Savapress stop sleeves on request**

⬡ presses hexacon

Multigroove Hand Tool

to use for following oval sleeves (in mm)	Savapress No.	length (in mm)	weight (in kg)	Ref. No.
0,72-1,0/1,2-1,5/1,8-2,0	T185* ⬡	220	0,4	CGT0.01.85

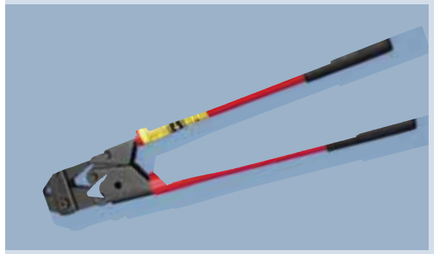
Jaw A = ——
Jaw B = 1,0-1,2 mm
Jaw C = 1,5-2,0 mm
Jaw D = 0,72-0,8 mm

○ presses round

Multigroove Hand Tool

to use for following oval sleeves (in mm)	Savapress No.	length (in mm)	weight (in kg)	Ref. No.
1,2-1,5/1,8-2,0/2,5-2,8/ 3,0-3,5/4,0-4,5/5,0	T188 ○	510	2,27	CGT0.01.88

Jaw 1 = 1,2-1,5 mm
Jaw 2 = 1,8-2,0 mm
Jaw 3 = 2,5-2,8 mm
Jaw 4 = 3,0-3,5 mm
Jaw 5 = 4,0-4,5 mm
Jaw 6 = 5,0 mm

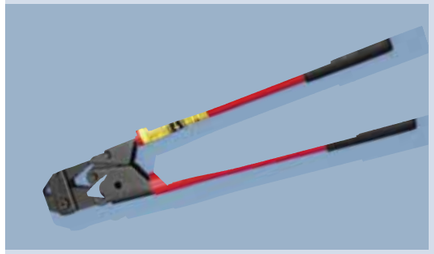


Single Groove Hand Tool

to use for following oval sleeves (in mm)	Savapress No.	length (in mm)	weight (in kg)	**Ref. No.**
4,0-4,5	0-5/32SC	510	2,0	CGLC532

Single Groove Hand Tool

to use for following oval sleeves (in mm)	Savapress No.	length (in mm)	weight (in kg)	**Ref. No.**
5,0	0-3/16SC	510	2,0	CGLC316



Single Groove Hand Tool

to use for following oval sleeves (in mm)	Savapress No.	length (in mm)	weight (in kg)	**Ref. No.**
6,0	0-7/32	710	2,35	CGLC732

Single Groove Hand Tool

to use for following oval sleeves (in mm)	Savapress No.	length (in mm)	weight (in kg)	**Ref. No.**
7,0	0-1/4	710	2,35	CGLC014

Single Groove Hand Tool

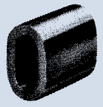
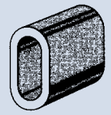
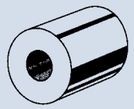
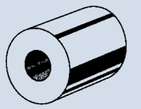
to use for following oval sleeves (in mm)	Savapress No.	length (in mm)	weight (in kg)	**Ref. No.**
8,0	0-5/16	710	2,35	CGLC516

Talurit Clamps

The aluminium talurit clamps are manufactured acc. DIN 3093 (exept ❷).

They can worked up with a talurit press, but also with a dies driven swaging machine. For working up with a swaging machine it is important to know which dies you have to use. We can give you this information on request.

Copper and Stainless Steel talurit clamps will be used on Stainless Steel wire rope.
Aluminium talurit clamps will normally be used on galvanised and bright steelwire rope and under special conditions on Stainless Steel wire rope.

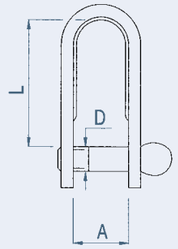






No.	**Aluminium Talurit Clamp Ref. No.**	weight kg/ 100 pcs.	**Copper Talurit Clamp Ref. No.**	weight kg/ 100 pcs.	**Stainless Steel Talurit Clamp Ref. No.**	weight kg/ 100 pcs.	**Aluminium Round Clamp Ref. No.**	weight kg/ 100 pcs.	**Copper Round Clamp Ref. No.**	weight kg/ 100 pcs.
1	T100.54.30 ❷	0,010	KU50.00.10	0,035	P5E0.00.10	0,04	-	-	KU5R.00.10	0,023
1,5	T151.20.42 ❷	0,021	KU50.00.15	0,071	P5E0.00.15	0,06	P5R0.00.15	0,020	KU5R.00.15	0,087
2	T201.60.42 ❷	0,024	KU50.00.20	0,080	P5E0.00.20	0,09	P5R0.00.20	0,028	KU5R.00.20	0,100
2,5	P500.00.25	0,050	KU50.00.25	0,167	P5E0.00.25	0,13	P5R0.00.25	0,054	-	-
3	P500.00.30	0,084	KU50.00.30	0,282	P5E0.00.30	0,17	P5R0.00.30	0,093	KU5R.00.30	0,324
3,5	P500.00.35	0,132	KU50.00.35	0,442	P5E0.00.35	0,36	P5R0.00.35	0,147	-	-
4	P500.00.40	0,181	KU50.00.40	0,606	P5E0.00.40	0,40	P5R0.00.40	0,219	KU5R.00.40	0,710
4,5	P500.00.45	0,261	KU50.00.45	0,873	P5E0.00.45	0,71	P5R0.00.45	0,311	-	-
5	P500.00.50	0,357	KU50.00.50	1,194	P5E0.00.50	0,94	P5R0.00.50	0,427	KU5R.00.50	1,420
6	P500.00.60	0,586	KU50.00.60	1,960	P5E0.00.60	1,60	P5R0.00.60	0,745	KU5R.00.60	2,410
6,5	P500.00.65	0,755	KU50.00.65	2,530	-	-	-	-	-	-
7	P500.00.70	0,953	KU50.00.70	3,190	P5E0.00.70	2,20	P5R0.00.70	1,180	KU5R.00.70	3,740
8	P500.00.80	1,370	KU50.00.80	4,600	P5E0.00.80	3,60	P5R0.00.80	1,780	KU5R.00.80	5,290
9	P500.00.90	1,980	KU50.00.90	6,650	P5E0.00.90	5,10	P5R0.00.90	2,530	-	-
10	P500.01.00	2,640	KU50.01.00	8,850	P5E0.01.00	7,17	P5R0.01.00	3,460	-	-
11	P500.01.10	3,580	KU50.01.10	12,000	P5E0.01.10	8,27	P5R0.01.10	4,610	-	-
12	P500.01.20	4,580	KU50.01.20	15,350	P5E0.01.20	12,06	P5R0.01.20	5,980	-	-
13	P500.01.30	5,970	KU50.01.30	20,000	-	-	-	-	-	-
14	P500.01.40	7,350	KU50.01.40	24,600	P5E0.01.40	18,50	P5R0.01.40	9,460	-	-
16	P500.01.60	11,100	KU50.01.60	37,150	P5E0.01.60	29,00	P5R0.01.60	14,080	-	-
18	P500.01.80	15,900	KU50.01.80	53,150	P5E0.01.80	41,50	P5R0.01.80	20,010	-	-
20	P500.02.00	21,700	KU50.02.00	72,600	P5E0.02.00	56,10	P5R0.02.00	27,480	-	-
22	P500.02.20	29,100	KU50.02.20	96,900	P5E0.02.20	74,00	P5R0.02.20	36,600	-	-
24	P500.02.40	37,500	KU50.02.40	121,800	P5E0.02.40	94,90	P5R0.02.40	47,450	-	-
26	P500.02.60	47,900	KU50.02.60	157,300	P5E0.02.60	123,50	P5R0.02.60	60,250	-	-
28	P500.02.80	62,300	KU50.02.80	204,500	P5E0.02.80	160,50	-	-	-	-
30	P500.03.00	77,800	KU50.30.00	265,800	P5E0.03.00	208,70	-	-	-	-

Only in aluminium bigger sizes available

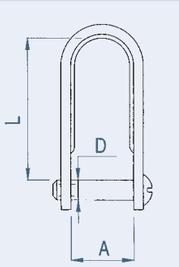
BLUE WAVE®

AISI 304 Stainless Steel Highly Polished



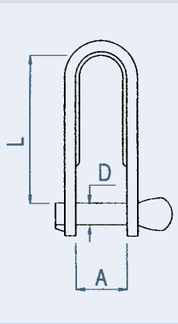
Breaking load in kg	D	A	L	min. packing pcs.	weight in kg/100 pcs.	Ref. No.
500	M4	10,0	15,0	10	0,5	BW15.00.41
600	M4	11,0	20,0	10	0,6	BW15.00.42
1000	M5	12,0	17,0	10	1,6	BW15.00.51
1000	M5	16,0	24,0	10	1,6	BW15.00.52
1100	M5	16,0	36,0	10	1,8	BW15.00.53
1100	M5	13,5	25,0	10	1,5	BW15.52.51
1400	M6	16,0	23,0	10	1,6	BW15.52.06
2000	M6	14,0	40,0	10	2,9	BW15.00.62
3000	M8	18,0	42,0	10	5,0	BW15.00.82

AISI 304 Stainless Steel Highly Polished



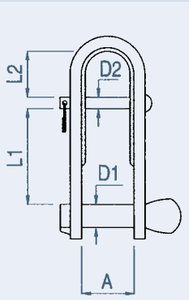
Breaking load in kg	D	A	L	min. packing pcs.	weight in kg/100 pcs.	Ref. No.
500	M4	10,0	15	10	0,5	BW16.00.41
1000	M5	12,0	17	10	1,0	BW16.00.51
1000	M5	16,0	24	10	1,6	BW16.00.52
1100	M5	16,0	36	10	1,8	BW16.00.53
1100	M5	13,5	25	10	1,5	BW16.52.51
1400	M6	16,0	23	10	1,6	BW16.52.06

Key Pin AISI 304 Stainless Steel Highly Polished



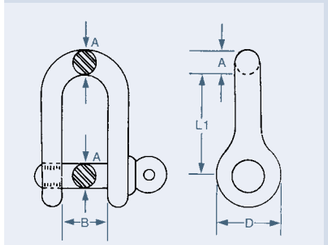
Breaking load in kg	D	A	L	min. packing pcs.	weight in kg/100 pcs.	Ref. No.
600	4	11	20	10	0,5	BW18.00.04
1000	5	15	36	10	1,8	BW18.00.05
1000	5	13	26	10	1,5	BW18.52.05
1650	6	15	40	10	2,9	BW18.00.06
2750	8	20	41	10	5,0	BW18.00.08

Key Pin AISI 304 Stainless Steel Highly Polished



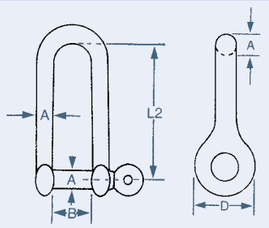
Breaking load in kg	D1	D2	A	L1	L2	min. packing pcs.	weight in kg/100 pcs.	Ref. No.
700	5	3	12	14	9	10	1,6	BW18.03.52
700	5	3	15	21	12	10	1,9	BW18.03.05
1500	6	3	14	25	12	10	3,0	BW18.03.06
2000	8	3	20	26	12	10	5,1	BW18.03.08

Stainless Steel **Casted** D-Shackle AISI 316



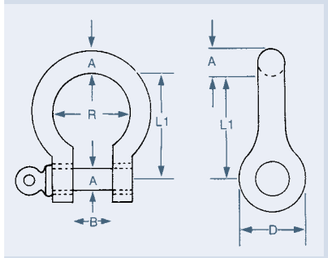
Breaking load in kg	A	B and D	L1	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
550	4	8	16,00	10	0,8	5670.00.04
1000	5	10	20,00	10	1,4	5670.00.05
1700	6	13	25,00	10	2,7	5670.00.06
2500	8	16	31,00	10	6,4	5670.00.08
4100	10	20	40,00	10	12,0	5670.00.10
5400	12	25	47,00	1	21,0	5670.00.12
6100	13	26	53,00	1	28,0	5670.00.13
6500	14	28	49,00	1	35,0	5670.00.14
8800	16	32	64,00	1	50,0	5670.00.16
10000	19	35	75,00	1	88,0	5670.00.19
19000	22	43	88,00	1	140,0	5670.00.22
21000	25	47	96,00	1	208,0	5670.00.25
23000	28	52	108,00	1	250,0	5670.00.28
26000	32	64	125,00	1	426,0	5670.00.32

Stainless Steel **Casted** Long D-Shackle AISI 316



Breaking load in kg	A	B and D	L2	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
500	4	8	32,0	10	1,0	IL21.10.40
920	5	10	40,0	10	2,0	IL21.10.50
1560	6	12	48,0	10	3,5	IL21.10.60
2300	8	16	64,0	10	8,0	IL21.10.80
3770	10	20	80,0	10	15,5	IL21.11.00
4970	12	24	96,0	1	28,0	IL21.11.20

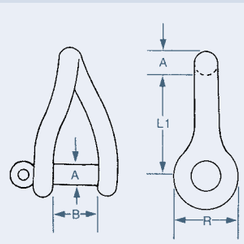
Stainless Steel **Casted** Bow Shackle AISI 316



Breaking load in kg	A	B and D	L1	R	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
550	4	8	21,0	17	10	0,9	5671.00.04
1000	5	10	25,0	17	10	1,6	5671.00.05
1700	6	12	27,0	21	10	3,0	5671.00.06
2500	8	16	40,0	28	10	7,0	5671.00.08
4100	10	20	43,0	31	10	12,5	5671.00.10
5400	12	24	54,0	42	1	22,5	5671.00.12
6100	13	26	65,0	45	1	30,0	5671.00.13
6500	14	28	66,0	50	1	37,0	5671.00.14
8800	16	32	72,0	56	1	52,0	5671.00.16
10000	19	38	92,0	61	1	93,0	5671.00.19
19000	22	44	102,0	76	1	150,0	5671.00.22
21000	25	50	112,5	84	1	220,0	5671.00.25
23000	28	56	130,0	94	1	285,0	5671.00.28
26000	32	64	154,0	114	1	326,0	5671.00.32

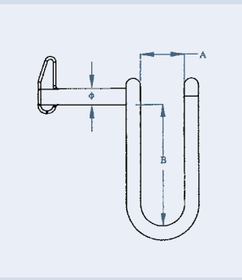
■ **Do not use casted shackles for standing rigging.**

Stainless Steel **Casted** Twisted D-Shackle AISI 316



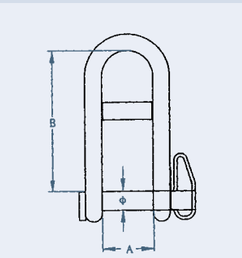
Breaking load in kg	A	B and R	L1	min. packing pcs.	weight in kg/ 100 pcs.	**Ref. No.**
550	4	8	20	10	1,0	IL22.00.40
1000	5	10	30	10	2,0	IL22.00.50
1700	6	12	35	10	3,5	IL22.00.60
2500	8	16	42	10	8,0	IL22.00.80
4100	10	20	60	10	15,5	IL22.01.00
5400	12	24	62	1	28,0	IL22.01.20

Stainless Steel **Casted** D-Shackle Key Model AISI 316



Breaking load in kg	ø	A	B	min. packing pcs.	weight in kg/ 100 pcs.	**Ref. No.**
850	5	12,5	38,0	5	3,0	IL21.30.50
1275	6	15,5	43,0	5	5,0	IL21.30.60
2550	8	20,5	60,5	5	11,0	IL21.30.80

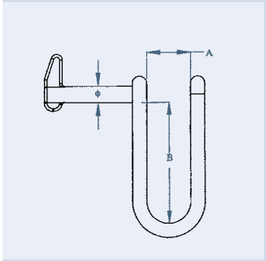
Stainless Steel **Casted** D-Shackle Key Model With Bar AISI 316



Breaking load in kg	ø	A	B	min. packing pcs.	weight in kg/ 100 pcs.	**Ref. No.**
850	5	13	38	5	3,5	IL21.40.50
1275	6	16	43	5	5,8	IL21.40.60
2550	8	22	60	5	12,5	IL21.40.80

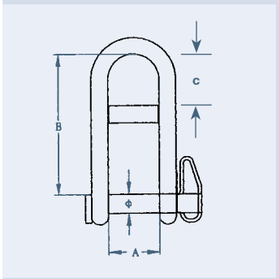
■ **Do not use casted shackles for standing rigging.**

Stainless Steel **Forged** D-Shackle Key Model AISI 316



Breaking load in kg	ø	A	B	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
1000	5	13	37	1	3,1	W143.20.00
1500	6	16	45	1	4,8	W143.30.00
2300	8	21	59	1	12,1	W143.40.00

Stainless Steel **Forged** D-Shackle Key Model With Bar AISI 316

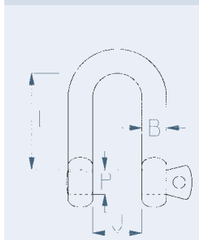


Breaking load in kg	ø	A	B	C	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
1200	5	13	37	12	1	3,1	W814.32.00
1700	6	16	45	15	1	5,2	W814.33.00
2500	8	21	59	20	1	12,3	W814.34.00
1500	5	13	37	12	1	3,1	W914.32.00HR
2200	6	16	45	15	1	5,3	W914.33.00HR
3500	8	21	59	20	1	12,3	W914.34.00HR

Stainless Steel **Forged** Thimble Shackle AISI 316

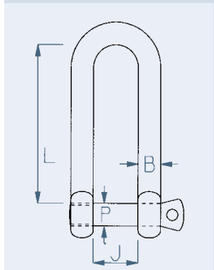
Breaking load in kg	ø	A	B	max. rope diam.	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
3000	8	16	41	12	1	7,6	W149.40.00
5000	10	20	51	16	1	14,2	W149.50.00

Stainless Steel **Forged** D-Shackle



Breaking load in kg	P	B	J	L	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
800	4,0	4,0	8	16	10	0,7	FS01.00.40
1500	5,0	5,0	10	20	10	1,3	FS01.00.50
1950	6,0	6,0	13	25	10	2,4	FS01.00.60
3000	8,0	8,0	16	32	10	5,3	FS01.00.80
4800	9,5	9,5	19	38	10	9,7	FS01.00.95
6000	11,0	11,0	22	44	1	15,2	FS01.01.10
7500	12,7	12,7	26	52	1	23,7	FS01.01.27
10000	16,0	14,3	29	58	1	45,0	FS01.01.60
14000	19,0	16,0	32	64	1	58,5	FS01.01.90

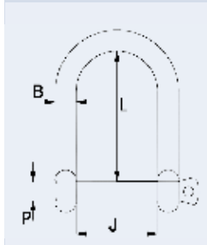
Stainless Steel **Forged** Long D-Shackle



Breaking load in kg	P	B	J	L	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
600	4,0	4,0	8	24	10	1,2	FS01.10.40
1200	5,0	5,0	10	29	10	1,6	FS01.10.50
1600	6,0	6,0	13	43	10	3,2	FS01.10.60
2400	8,0	8,0	16	49	10	6,9	FS01.10.80
3800	9,5	9,5	19	55	10	11,7	FS01.10.95

Also available with socket head pin.

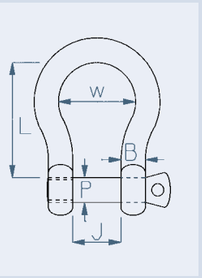
Stainless Steel **Forged** Wide D-Shackle



Breaking load in kg	P	B	J	L	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
750	5,0	5,0	20	30	1	1,5	FS01.00.50W
1300	6,0	6,0	25	32	1	3,1	FS01.00.60W
2500	8,0	8,0	32	48	1	6,5	FS01.00.80W
3300	10,0	10,0	40	60	1	11,6	FS01.00.95W

Also available with socket head pin.

Stainless Steel **Forged** Bow-Shackle



Breaking load in kg	P	B	J	L	W	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
600	4,0	4,0	8	18	12	10	0,9	FS00.00.40
1200	5,0	5,0	10	22	16	10	1,4	FS00.00.50
1600	6,0	6,0	13	28	19	10	2,8	FS00.00.60
2400	8,0	8,0	16	35	25	10	5,9	FS00.00.80
3800	9,5	9,5	19	38	28	10	10,6	FS00.00.95
4800	11,0	11,0	22	46	33	1	16,1	FS00.01.10
6000	12,7	12,7	26	52	38	1	27,0	FS00.01.27
8000	16,0	14,3	29	60	43	1	50,0	FS00.01.60
10000	19,0	16,0	32	68	50	1	63,0	FS00.01.90

Stainless Steel **Forged** Twisted D-Shackle

Breaking load in kg	P	B	J	L	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
600	4,0	4,0	8	13	5	0,7	FS02.00.40
1200	5,0	5,0	10	16	5	1,3	FS02.00.50
1600	6,0	6,0	13	20	5	2,4	FS02.00.60
2400	8,0	8,0	16	26	5	5,3	FS02.00.80
3800	9,5	9,5	19	31	5	9,7	FS02.00.95
4800	11,0	11,0	22	35	1	15,2	FS02.01.10
6000	12,7	12,7	26	41	1	23,7	FS02.01.27
8000	16,0	14,3	29	45	1	45,0	FS02.01.60
10000	19,0	16,0	32	64	1	58,5	FS02.01.90

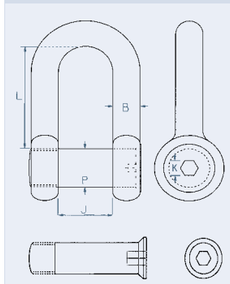
Also available with socket head pin.

Stainless Steel **Forged** Long Twisted D-Shackle

Breaking load in kg	P	B	J	L	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
600	4,0	4,0	8	23	5	1,2	FS02.10.40
1200	5,0	5,0	10	26	5	1,6	FS02.10.50
1600	6,0	6,0	13	40	5	3,2	FS02.10.60
2400	8,0	8,0	16	45	5	6,9	FS02.10.80
3800	9,5	9,5	19	50	5	11,7	FS02.10.95

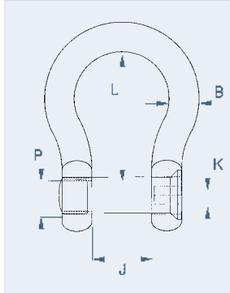
Also available with socket head pin.

Stainless Steel **Forged** D-Shackle With Socket Head Pin



Breaking load in kg	P	B	J	L	K (Alan Key Size)	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
1500	5,0	5,0	10	20	2	5	1,3	FS01.30.50
1950	6,0	6,0	13	25	3	5	2,4	FS01.30.60
3000	8,0	8,0	16	32	4	5	5,3	FS01.30.80
4800	9,5	9,5	19	38	4	5	9,7	FS01.30.95
6000	11,0	11,0	22	44	5	1	15,2	FS01.31.10
7500	12,7	12,7	26	52	5	1	23,7	FS01.31.27
10000	16,0	14,3	29	58	6	1	45,0	FS01.31.60
14000	19,0	16,0	32	64	6	1	58,5	FS01.31.90

Stainless Steel **Forged** Bow-Shackle With Socket Head Pin



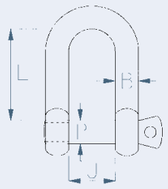
Breaking load in kg	P	B	J	L	K (Alan Key Size)	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
1200	5,0	5,0	10	22	2	5	1,4	FS00.30.50
1600	6,0	6,0	13	28	3	5	2,8	FS00.30.60
2400	8,0	8,0	16	35	4	5	5,9	FS00.30.80
3800	9,5	9,5	19	38	4	5	10,6	FS00.30.95
4800	11,0	11,0	22	46	5	1	16,1	FS00.31.10
6000	12,7	12,7	26	52	5	1	27,0	FS00.31.27
8000	16,0	14,3	29	60	6	1	50,0	FS00.31.60
10000	19,0	16,0	32	68	6	1	63,0	FS00.31.90

Stainless Steel AISI 316 **Forged** Retained Shake Proof Pin Shackles

The shake proof shackle incorporates the new Smart-Lock pin. This pin benefits from a unique locking mechanism. When the pin is threaded into the shackle body the ring acts like viscous liquid and binds itself to the internal threads in the shackle head. After a short period of time the pin is locked in position.
A sharp turn by hand or use of a shackle key will release the ring and allow the pin to be unscrewed very easily. The pin can be re-used without any deterioration. A practical solution to the problem of losing the shackle pin.

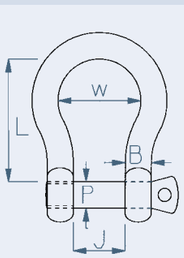
The pin will not fall out, but may be unscrewed from the partially threaded second head to give unrestricted jaw width.

Stainless Steel **Forged** D-Shackle With Retaining Shake Proof Pin (Dimension J did not change)



Breaking load in kg	P	B	J	L	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
1500	5,0	5,0	10	20	5	1,3	FS01.20.50
1950	6,0	6,0	13	25	5	2,4	FS01.20.60
3000	8,0	8,0	16	32	5	5,3	FS01.20.80
4800	9,5	9,5	19	38	5	9,7	FS01.20.95
6000	11,0	11,0	22	44	1	15,2	FS01.21.10
7500	12,7	12,7	26	52	1	23,7	FS01.21.27
10000	16,0	14,3	29	58	1	45,0	FS01.21.60
14000	19,0	16,0	32	64	1	58,5	FS01.21.90

Stainless Steel **Forged** Bow-Shackle With Retaining Shake Proof Pin (Dimension J did not change)

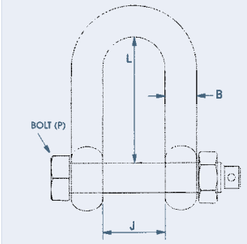


Breaking load in kg	P	B	J	L	W	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
1200	5,0	5,0	10	22	16	5	1,4	FS00.20.50
1600	6,0	6,0	13	28	19	5	2,8	FS00.20.60
2400	8,0	8,0	16	35	25	5	5,9	FS00.20.80
3800	9,5	9,5	19	38	28	5	10,6	FS00.20.95
4800	11,0	11,0	22	46	33	1	16,1	FS00.21.10
6000	12,7	12,7	26	52	38	1	27,0	FS00.21.27
8000	16,0	14,3	29	60	43	1	50,0	FS00.21.60
10000	19,0	16,0	32	68	50	1	63,0	FS00.21.90

Shackles **Forged** Stainless Steel AISI 316 with E Type Safety Pin

- The special bolt end ensures the nut is positioned correctly allowing sufficient room for the split pin
- This range of shackles benefits from full materials traceability, CE marking and test batch identification
- Safety factor 6:1
- Supplied with test certificate type EN 102043.1b on request

Forged D-Shackle with E Type Safety Pin



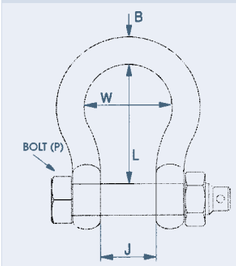
SWL kg	P	B	J	L	min. packing pcs.	weight in g	**Ref. No.**
350	M6	6,0	13	25	1	48	56.730.006
500	M8	8,0	16	32	1	75	56.730.008
800	M10	9,5	19	38	1	136	56.730.010
1000	M12	11,0	22	44	1	212	56.730.012
1250	M12	12,7	26	52	1	331	56.730.013
1800	M16	14,3	29	58	1	585	56.730.016
2800	M20	16,0	32	64	1	760	56.730.020
3300	M22	19,0	38	76	1	1180	56.730.022
4500	M24	22,0	44	88	1	1750	56.730.024
5000	M27	25,4	50	100	1	2600	56.730.027

Bigger sizes on request.

The special bolt end ensures the nut is positioned correctly allowing sufficient room for the split pin.

Forged Bow Shackle with E Type Safety Pin

- This bow shackle is ideal for submersible water pumps



SWL kg	P	B	J	L	W	min. packing pcs.	weight in g	**Ref. No.**
280	M6	6,0	13	28	19	1	52	56.740.006
400	M8	8,0	16	35	25	1	81	56.740.008
600	M10	9,5	19	38	28	1	147	56.740.010
800	M12	11,0	22	46	33	1	221	56.740.012
1000	M12	12,7	26	52	38	1	354	56.740.013
1500	M16	14,3	29	60	43	1	635	56.740.016
2500	M20	16,0	32	68	50	1	805	56.740.020
3000	M22	19,0	38	76	58	1	1250	56.740.022
4000	M24	22,0	44	88	66	1	1820	56.740.024
4500	M27	25,4	50	100	76	1	2700	56.740.027

Bigger sizes on request.

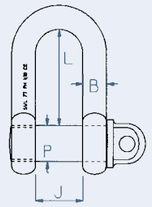
The special bolt end ensures the nut is positioned correctly allowing sufficient room for the split pin.

Industrial High Tensile Shackles
Stainless Steel 17/4 PH (= AISI 630)

- Manufactured from 17/4 PH precipitation hardening martensitic stainless steel (AISI 630)
- Corrosion resistance approximating to that of 18/8 grade steel, high tensile properties while avoiding work hardening
- Tested and certified to CE requirements
- Safety factor 6:1
- PH Shackles are delivered with pin detail as follows:
  Type A: Forged collar pin with eye-standard length (see drawing)
  Type A Long: Forged collar pin with eye-extra length plus hole for split pin
  Type B: Countersunk socket head pin
- min. packing pcs. 1

Industrial High Tensile Shackle Stainless Steel AISI 630 D-Type

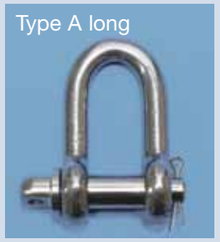
Type A



W.L.L. in t	P	B	J	L	weight in kg/100 pcs.	Product Code	**Ref. No. Type A**	**Ref. No. Type A Long**	**Ref. No. Type B**
1	10,0	8,0	16	32	8,5	PH1T	5672.00.10	FS11.60.10	FS11.70.10
2	12,7	10,0	20	40	15,0	PH2T	5672.00.13	FS11.60.20	FS11.70.20
3	16,0	12,7	25	50	35,0	PH3T	5672.00.16	FS11.60.30	FS11.70.30
5	19,0	16,0	32	64	55,0	PH5T	5672.00.19	FS11.60.50	FS11.70.50
7	22,2	19,0	38	76	100,0	PH7T	5672.00.22	FS11.60.70	FS11.70.70
9	25,4	22,2	44	88	190,0	PH9T	5672.00.25	FS11.60.90	FS11.70.90
11	28,6	25,4	51	102	290,0	PH11T	5672.00.29	FS11.61.10	FS11.71.10
13	31,8	28,6	57	114	310,0	PH13T	5672.00.32	FS11.61.30	FS11.71.30
15	34,9	31,8	64	128	435,0	PH15T	5672.00.35	FS11.61.50	FS11.71.50
18	38,0	34,9	70	140	530,0	PH18T	5672.00.38	FS11.61.80	FS11.71.80

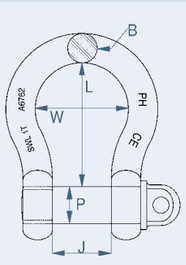
Type A

Type A long



Type B

Industrial High Tensile Shackle Stainless Steel AISI 630 Bow-Type



W.L.L. in t	P	B	J	W	L	weight in kg/100 pcs.	Product Code	**Ref. No. Type A**	**Ref. No. Type A Long**	**Ref. No. Type B**
0,8	10,0	8,0	16	24	32	9,5	PHB008T	FS12.50.08	FS12.60.08	FS12.70.08
1,5	12,7	10,0	20	30	40	15,8	PHB015T	FS12.50.15	FS12.60.15	FS12.70.15
2,5	16,0	12,7	25	38	50	36,8	PHB025T	FS12.50.25	FS12.60.25	FS12.70.25
4,0	19,0	16,0	32	48	64	57,8	PHB040T	FS12.50.40	FS12.60.40	FS12.70.40
5,5	22,2	19,0	38	57	76	105,0	PHB055T	FS12.50.55	FS12.60.55	FS12.70.55
7,5	25,4	22,2	44	66	88	199,5	PHB075T	FS12.60.75	FS12.60.75	FS12.70.75
9,0	28,6	25,4	51	76	102	304,5	PHB090T	FS12.50.90	FS12.60.90	FS12.70.90

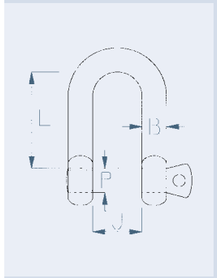
Type A

Type A long

Type B

- The HR Shackles are manufactured from Stainless Steel grade 17/4PH = AISI 630. After production of the entire shackle, we process and re-condition the material to ensure that the mechanics of the shackle reach its optimum levels, offering high breaking loads and high resistance to stress corrosion cracking without comprimising the integrity of the shackle. We consider this to be the optimum condition for 17/4PH for use in a marine application.
- Manufactured from 17/4PH precipitation hardening martensitic stainless steel
- Corrosion resistance approximating to that of 18/8 grade steels, high tensile properties while avoiding work hardening

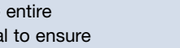
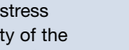
High Resistance Marine D Shackle



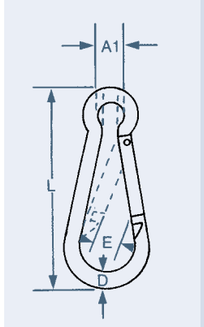
Breaking load in kg	P	B	J	L	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
2700	6,0	6,0	12	20	1	2,4	PSHRD06
4400	8,0	8,0	16	26	1	5,3	PSHRD08
7500	10,0	9,5	20	33	1	9,7	PSHRD10
10000	12,0	12,7	24	39	1	23,7	PSHRD12
14000	14,0	14,3	28	49	1	36,5	PSHRD14
19000	16,0	16,0	32	56	1	47,0	PSHRD16
28000	20,0	19,0	40	70	1	60,5	PSHRD19

- All Hi-MOD shackles are available on retail cards (blister packing). Ask for samples and prices.

- All Hi-MOD shackles are available with standard - shake proof - and socket head pin

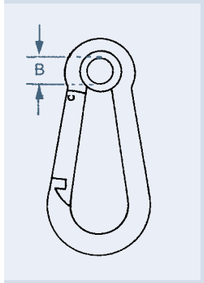
Shackle Pin Types		
Pin	**Description**	**Sizes**
	Standard screw pin	**4 mm to 19 mm**
	**Shake proof retain pin**	**5 mm to 16 mm**
	**Socket head pin**	**5 mm to 19 mm**

Stainless Steel Carbine Hook With Crack AISI 316



Breaking load in kg	D	L	A1	E	weight in kg/100 pcs.	**Ref. No.**
180	4	40	7	6	1,0	IL22.01.04
220	5	50	8	7	1,8	5145.00.10
272	6	60	9	8	2,8	5145.00.15
364	7	70	10	9	4,6	5145.00.23
508	8	80	12	10	7,0	5145.00.27
728	10	100	15	12	14,6	5145.00.40
816	11	120	19	16	19,5	5145.00.55
908	12	140	22	21	27,5	IL22.01.14
1000	13	160	22	24	36,3	IL22.01.16

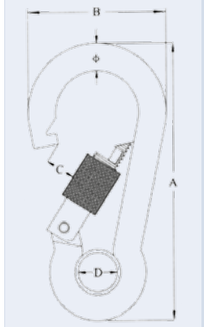
Stainless Steel Carbine Hook With Crack And Eye Let AISI 316



Breaking load in kg	D	L	E	B	weight in kg/100 pcs.	**Ref. No.**
180	4	40	6	5,0	1,1	IL22.02.04
220	5	50	7	7,0	1,9	IL22.02.05
272	6	60	8	7,5	2,9	IL22.02.06
364	7	70	9	8,0	4,7	IL22.02.07
508	8	80	10	10,0	7,3	IL22.02.08
728	10	100	12	13,5	14,9	IL22.02.10
816	11	120	16	15,0	19,9	IL22.02.12
908	12	140	20	18,0	27,9	IL22.02.14
1060	13	160	24	22,0	37,0	IL22.02.16

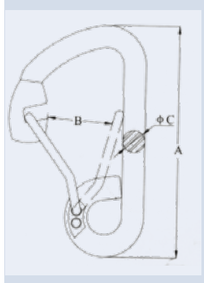
Dimensions
D, L, E
same as above

Stainless Steel Carbine Hook With Crack Eyelet and Safety nut AISI 316



Breaking load in kg	ø	A	B	D	C	weight in kg/100 pcs.	**Ref. No.**
365	6	60	30	7,8	6,5	2,9	IL22.02.06LN
580	8	80	40	10,8	8,5	7,5	IL22.02.08LN
870	10	100	50	14,0	10,0	15,0	IL22.02.10LN
1008	11	120	59	18,0	14,5	20,0	IL22.02.12LN
1170	12	140	66	22,0	19,0	28,0	IL22.02.14LN

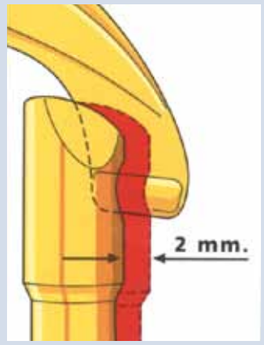
Stainless Steel Spring Hook With Curved Gate AISI 316



A	B	C	weight in kg/100 pcs.	**Ref. No.**
60	13	6	2,8	IL22.02.06S
80	18	8	7,0	IL22.02.08S
100	21	10	14,6	IL22.02.10S
120	27	12	26,5	IL22.02.12S

Patented Key-Lock System -
The only «no snagging» closure

This revolutionary patented locking system draws its name from the peculiar shape of the connection between the gate and the body of the carabiner, that looks like the key hole of a lock. The real novelty of this closure is that it doesn't need any keeping tooth neither on the body of the carabiner, nor on the gate, now fully cylindrical.
There are no more possible points of snagging of the rope or of the web when inserting or removing.
Every sharp edge has been also removed. Millings in the body of the carabiner and in the gate are no more necessary.



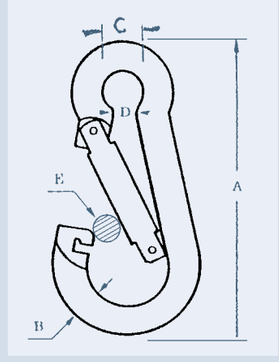
IMPORTANT:
KEY-LOCK SYSTEM carabiners are partially safe also if the gate is 2 mm open!
This doesn't happen on a traditional snap.

KEY-LOCK SYSTEM
No hooking points
No sharp edges

OLD
2 hooking points
2 sharp edges

OUT-OF-DATE
1 hooking point
2 sharp edges

TRADITIONAL
1 hooking point
2 sharp edges



Different types and sizes see next page

Carbine Hook With Crack And Key Lock System

Breaking load in kg	A	B	C	D	E	weight in kg/100 pcs.	Ref. No.
-	50	5	8	5,5	7,5	1,6	KO05.55.05
-	60	6	9	6,5	9,0	2,7	KO05.55.06
-	70	7	10	8,0	9,0	4,4	KO05.55.07
800	80	8	11	8,5	11,0	6,6	KO05.55.08
1200	100	10	15	10,5	15,0	12,8	KO05.55.10
2000	120	11	18	12,0	17,0	18,4	KO05.55.12
2400	160	13	23	17,5	30,0	35,3	KO05.55.16

Carbine Hook With Crack, Eyelet And Keylock System

Breaking load in kg	A	B	C	E	weight in kg/100 pcs.	Ref. No.
-	50	5	8	7,5	1,7	KO05.57.05
-	60	6	9	9,0	2,8	KO05.57.06
-	70	7	10	9,0	4,5	KO05.57.07
800	80	8	11	11,0	6,7	KO05.57.08
1200	100	10	15	15,0	12,9	KO05.57.10
2000	120	11	18	17,0	18,5	KO05.57.12
2400	160	13	23	30,0	35,4	KO05.57.16

Carbine Hook With Crack, Eyelet And Threaded Locking Sleeve

Breaking load in kg	A	B	C	E	weight in kg/100 pcs.	Ref. No.
1200	100	10	14	13	1,7	KO05.58.10
2000	120	11	17	16	2,8	KO05.58.12

Carbine Hook With Crack And Automatic Sliding Sleeve, External Opening

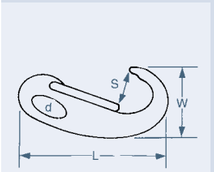
Breaking load in kg	A	B	C	D	E	weight in kg/100 pcs.	Ref. No.
800	80	8	11	8,5	25	6,9	KO05.60.08
1200	100	10	15	10,5	32	13,5	KO05.60.10

Carbine Hook With Crack, Eyelet And Automatic Sliding Sleeve, External Opening

Breaking load in kg	A	B	C	E	weight in kg/100 pcs.	Ref. No.
800	80	8	11	25	7,0	KO05.61.08
1200	100	10	14	32	13,6	KO05.61.10

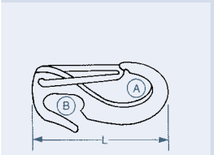
INOX LINE

Stainless Steel Spring Snap AISI 316



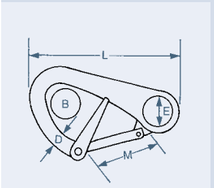
Breaking load in kg	L	W	S	D	weight in kg/100 pcs.	**Ref. No.**
220	50	24	10	8	2,0	IL22.20.50
500	69	31	12	12	5,0	IL22.20.70
900	96	47	20	16	15,0	IL22.21.00

Stainless Steel Spring Snap Open End AISI 316



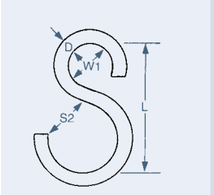
Breaking load in kg	A	B	L	weight in kg/100 pcs.	**Ref. No.**
220	7,5	6,5	50	2,0	IL22.50.50
500	11,0	10,0	65	4,5	IL22.50.65
900	17,0	13,0	90	14,0	IL22.50.90

Stainless Steel Double Safety Hook AISI 316



Breaking load in kg	B	D	E	M	L	weight in kg/100 pcs.	**Ref. No.**
1400	22	10	22	19	11	17,2	IL22.31.10

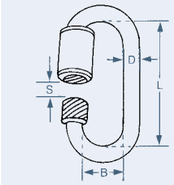
Stainless Steel S-Hook AISI 304



D	L	W1	S2	weight in kg/100 pcs.	**Ref. No.**
3	30	6	5,0	0,3	IL22.40.03
4	36	11	6,0	0,8	IL22.40.04
5	43	14	10,0	1,5	IL22.40.05
6	55	16	18,0	2,6	IL22.40.06
7	65	10	19,0	5,0	IL22.40.07
8	75	23	20,0	6,5	IL22.40.08

INOX LINE

Stainless Steel Quicklink AISI 316



Breaking load in kg	D	L	B	S	weight in kg/100 pcs.	**Ref. No.**
720	4	32	12	5,5	1,1	6585.00.04
960	5	39	13	6,5	2,2	6585.00.05
1280	6	45	14	7,5	3,8	6585.00.06
2240	8	58	18	9,5	8,0	6585.00.08
3360	10	69	22	12,0	14,9	6585.00.10
3840	12	81	24	14,5	22,5	IL21.20.12
6000	14	93	27	17,0	36,0	IL21.20.14
7200	16	109	30	19,0	56,0	IL21.20.16

Maille Rapide

Maxi Tightening Torque (N.m.)

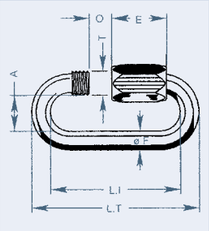
ØF	TORQUE	ØF	TORQUE
2,5	0,15	9,0	4,5
3,0	0,30	10,0	7,0
3,5	0,60	12,0	9,0
4,0	0,70	14,0	12,0
5,0	0,80	16,0	18,0
6,0	1,20	18,0	30,0
7,0	2,50	20,0	40,0
8,0	3,00	-	-

Chemical Composition (%)

Carbon:	0,03	Manganese:	2
Chromium:	16/18	Silicon:	1
Nickel:	10/14	Sulphurl:	0,03
Molybdenum:	2/2,5	Phosphorous:	0,04

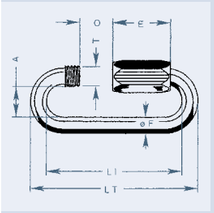
- **We can supply mat. black quicklinks for the entertainment industry**
- **Certificates available**

Standard Series “N” - Stainless 316 L



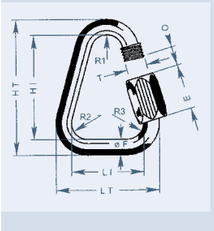
WLL in kg	Breaking load in kg	Dimensions in mm ØF	L. T	L. I	A	O	E	Ø T	weight in kg	**Ref. No.**
100	500	2,5	26,0	21,0	7,0	3,5	8,0	3,5x60	0,310	MRN0.00.25
160	800	3,0	31,0	25,0	8,5	4,0	9,0	4x60	0,530	MRN0.00.30
220	1100	3,5	36,0	29,0	10,0	5,0	11,0	5x80	0,810	MRN0.00.35
280	1400	4,0	39,5	31,5	11,5	5,5	12,5	6x100	1,200	MRN0.00.40
450	2250	5,0	49,5	39,5	13,0	6,5	16,0	7x100	2,100	MRN0.00.50
650	3250	6,0	57,0	45,0	14,5	7,5	19,0	9x125	3,540	MRN0.00.60
900	4500	7,0	66,0	52,0	16,0	8,5	21,5	10x125	5,230	MRN0.00.70
1100	5500	8,0	74,0	58,0	17,5	11,0	24,0	11x125	7,900	MRN0.00.80
1800	9000	10,0	89,0	69,0	20,5	12,0	29,0	13x125	14,050	MRN0.01.00
2500	12500	12,0	104,5	80,5	23,5	15,0	33,0	15x150	23,800	MRN0.01.20
3500	17500	14,0	121,0	93,0	26,5	17,0	38,5	17x150	37,400	MRN0.01.40
4500	22500	16,0	140,0	108,0	29,5	19,0	45,0	19x150	57,600	MRN0.01.60
5400	27000	18,0	157,0	121,0	32,5	23,0	52,0	22x150	81,303	MRN0.01.80

Large Mouth Series “GO” - Stainless 316 L

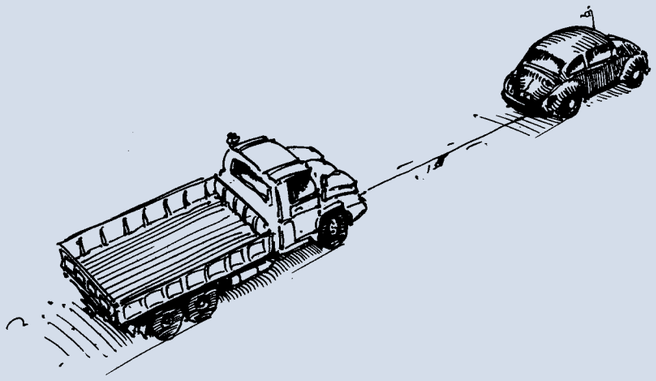


WLL in kg	Breaking load in kg	ØF	L. T	L. I	A	O	E	ØT	weight in kg	Ref. No.
				Dimensions in mm						
90	450	2,5	33,0	28,0	7,0	7,0	12,0	3,5x60	0,360	MRGO.00.25
145	725	3,0	39,5	33,5	8,5	8,5	13,5	4x60	0,700	MRGO.00.30
200	1000	3,5	46,0	39,0	10,0	10,0	16,0	5x80	1,050	MRGO.00.35
250	1250	4,0	53,0	45,0	11,5	11,5	19,0	6x100	1,540	MRGO.00.40
400	2000	5,0	62,0	52,0	13,0	13,0	22,0	7x100	2,570	MRGO.00.50
580	2900	6,0	70,5	58,5	14,5	14,5	25,0	9x125	4,200	MRGO.00.60
800	4000	7,0	79,0	65,0	16,0	16,0	28,0	10x125	6,150	MRGO.00.70
980	4900	8,0	88,0	72,0	17,5	17,5	31,5	11x125	9,330	MRGO.00.80
1600	8000	10,0	105,0	85,5	20,5	20,5	36,0	13x125	16,100	MRGO.01.00
2200	11000	12,0	124,0	100,0	23,5	23,5	43,0	15x150	27,470	MRGO.01.20
3100	15500	14,0	142,0	114,0	26,5	26,5	49,0	17x150	43,050	MRGO.01.40
4000	20000	16,0	161,0	129,0	29,5	29,5	54,0	19x150	64,580	MRGO.01.60
4900	24500	18,0	176,5	140,5	32,5	32,5	62,0	22x150	90,120	MRGO.01.80

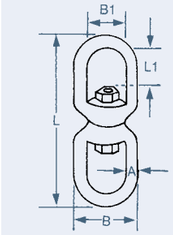
Delta Shaped Series “D” - Stainless 316 L



WLL in kg	Breaking load in kg	ØF	L. T	L. I	H. T	H. I	O	E	R 1-2-3	ØT	weight in kg	Ref. No.
					Dimensions in mm							
70	350	2,5	22,0	17,0	27,0	22,0	3,5	8,0	3,50	3,5x60	0,260	MRD0.00.25
110	550	3,0	27,0	21,0	30,0	24,0	4,0	9,0	4,25	4x60	0,610	MRD0.00.30
150	750	3,5	31,0	24,0	36,0	29,0	5,0	11,0	5,00	5x80	0,950	MRD0.00.35
200	1000	4,0	35,5	27,5	40,0	32,0	5,5	12,5	5,75	6x100	1,390	MRD0.00.40
325	1625	5,0	40,0	30,0	48,0	38,0	6,5	16,0	6,50	7x100	2,360	MRD0.00.50
450	2250	6,0	47,0	35,0	56,0	44,0	7,5	19,0	7,25	9x125	3,950	MRD0.00.60
625	3125	7,0	51,0	37,0	63,0	49,0	8,5	21,5	8,00	10x125	5,900	MRD0.00.70
770	3850	8,0	56,0	40,0	73,0	57,0	10,0	24,0	8,85	11x125	8,820	MRD0.00.80
1250	6250	10,0	66,0	46,0	87,0	67,0	12,0	29,0	10,25	13x125	15,640	MRD0.01.00
1750	8750	12,0	75,0	51,0	104,0	80,0	15,0	33,0	11,75	15x150	26,240	MRD0.01.20
2450	12250	14,0	85,0	57,0	123,0	95,0	17,0	38,5	13,25	17x150	41,360	MRD0.01.40
3150	15750	16,0	93,0	61,0	138,0	106,0	19,0	45,0	14,75	19x150	62,730	MRD0.01.60
4200	21000	18,0	102,0	66,0	155,0	119,0	23,0	52,0	16,25	22x150	86,620	MRD0.01.80

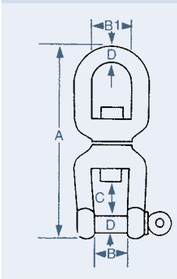


Stainless Steel **Casted** Swivels Eye-Eye AISI 316



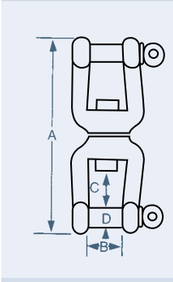
Breaking load in kg	A	L	B	B1	L1	weight in kg/100 pcs.	Ref. No.
400	4	50	19	11	13	2,2	5545.00.40
650	5	60	23	14	13	3,4	5545.00.50
1140	6	66	27	15	15	5,1	5545.00.60
1600	8	90	36	20	22	13,1	5545.00.80
2500	10	112	44	24	27	26,0	5545.01.00
5000	13	149	58	32	35	58,0	5545.01.30
8500	16	186	70	38	45	105,0	5545.01.60
10000	19	223	79	41	50	220,0	5545.01.90
12000	22	258	92	48	52	285,0	5545.02.20
13000	25	290	115	65	67	455,0	5545.02.50
18000	28	336	126	70	76	660,0	IL27.40.28
26000	32	384	144	80	87	950,0	IL27.40.32

Stainless Steel **Casted** Swivels Eye-Jaw AISI 316



Breaking load in kg	D	A	B1	B	C	weight in kg/100 pcs.	Ref. No.
1140	6	66	14	12	11	4,9	IL27.41.06
1600	8	90	20	16	16	15,0	IL27.41.08
2500	10	111	24	20	21	29,5	IL27.41.10
5000	13	149	32	26	26	66,7	IL27.41.13
8500	16	188	39	32	36	120,5	IL27.41.16
10000	19	218	41	38	41	250,0	IL27.41.19

Stainless Steel **Casted** Swivels Jaw-Jaw AISI 316



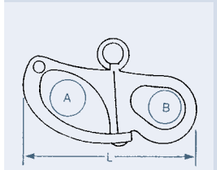
Breaking load in kg	D	A	C	B	weight in kg/100 pcs.	Ref. No.
1140	6	65	11	12	4,4	IL27.42.06
1600	8	87	16	16	16,5	IL27.42.08
2500	10	111	22	20	33,0	IL27.42.10
5000	13	145	28	26	74,5	IL27.42.13
8500	16	178	37	32	134,5	IL27.42.16
10000	19	213	45	38	280,0	IL27.42.19

■ **Do not use casted swivels for standing rigging.**

Swivel Shackles

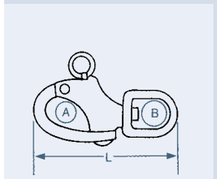
ø clevis pin in mm	Plate Size in mm	Fork Width in mm	Ref. No.
6	1,5	13	HYE6.12.81
6	2,0	13	HYE6.12.82
8	3,0	21	HYE6.12.83

Stainless Steel **Casted** Snapshackle With Eye AISI 316



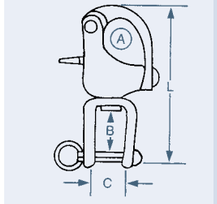
Breaking load in kg	Yield strength in kg	A	B	L	weight in kg/100 pcs.	**Ref. No.**
400	180	11	5	32	0,6	IL23.10.32
1100	495	12	9	55	4,2	IL23.10.52
2000	900	20	14	70	9,0	IL23.10.66
3500	1500	27	16	93	23,5	IL23.10.96

Stainless Steel **Casted** Snapshackle With Swivel AISI 316



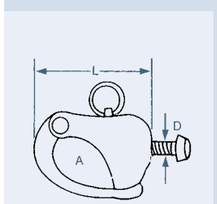
Breaking load in kg	Yield strength in kg	A	B	L	weight in kg/100 pcs.	**Ref. No.**
1100	495	12	12	69	6,0	IL23.20.70
2000	900	16	15	86	12,5	IL23.20.87
3500	1500	22	20	122	31,5	IL23.21.28

Stainless Steel **Casted** Snapshackle With Fork AISI 316



Breaking load in kg	Yield strength in kg	A	B	C	L	weight in kg/100 pcs.	**Ref. No.**
1100	495	12	14	11	73	6,0	IL23.30.70
2000	900	16	19	16	96	12,5	IL23.30.87
3500	1500	22	23	20	127	31,0	IL23.31.28

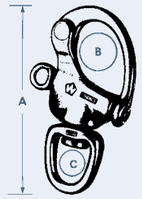
Stainless Steel **Casted** Snapshackle Body AISI 316



D	A	L	weight in kg/100 pcs.	**Ref. No.**
M6	12	42	4,4	IL23.40.06
M8	16	55	10,0	IL23.40.08
M10	22	75	24,0	IL23.40.10

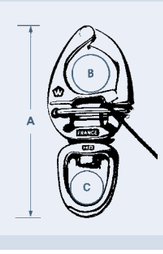
Wichard Snapshackles - High Resistant
Quick release snap shackles are forged from high resistand “HR” stainless steel (AISI 630). They open easily under load, even at a distance (with a line or webbing). Indispensable for spinnakers, they are useful for any application which requires release under load (towing, lifting or material handling.)

Stainless Steel Snapshackles With Swivel Eye AISI 630 (**High Tensile**)



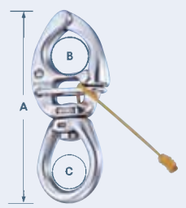
Breaking load in kg	A	B	C	weight in kg/100 pcs.	Wichard No.	**Ref. No.**
2000	70	16	11	6,5	2473	W247.30.00
3850	90	21	14	13,6	2475	W247.50.00
8000	120	26	21	35,3	2477	W247.70.00

Stainless Steel Quick Release Snapshackles With Small Swivel Eye AISI 630 (**High Tensile**)



Breaking load in kg	A	B	C	weight in kg/100 pcs.	Wichard No.	**Ref. No.**
1500	70	14	11,0	5,4	2673	W267.30.00
2000	80	16	12,0	8,8	2674	W267.40.00
3200	90	20	13,5	13,6	2675	W267.50.00
4300	110	25	16,0	23,3	2676	W267.60.00
6300	130	30	20,0	63,0	2677	W267.70.00
9000	150	34	24,0	90,0	2678	W267.80.00

Stainless Steel Quick Release Snapshackles With Large Swivel Eye AISI 630 (**High Tensile**)



Breaking load in kg	A	B	C	weight in kg/100 pcs.	Wichard No.	**Ref. No.**
1500	80	14	19,0	5,9	2773	W277.30.00
2000	90	16	23,0	10,0	2774	W277.40.00
3200	110	20	26,5	16,0	2775	W277.50.00
4300	120	25	31,0	27,1	2776	W277.60.00
6300	145	30	35,5	39,6	2777	W277.70.00
8500	160	34	41,0	61,8	2778	W277.80.00

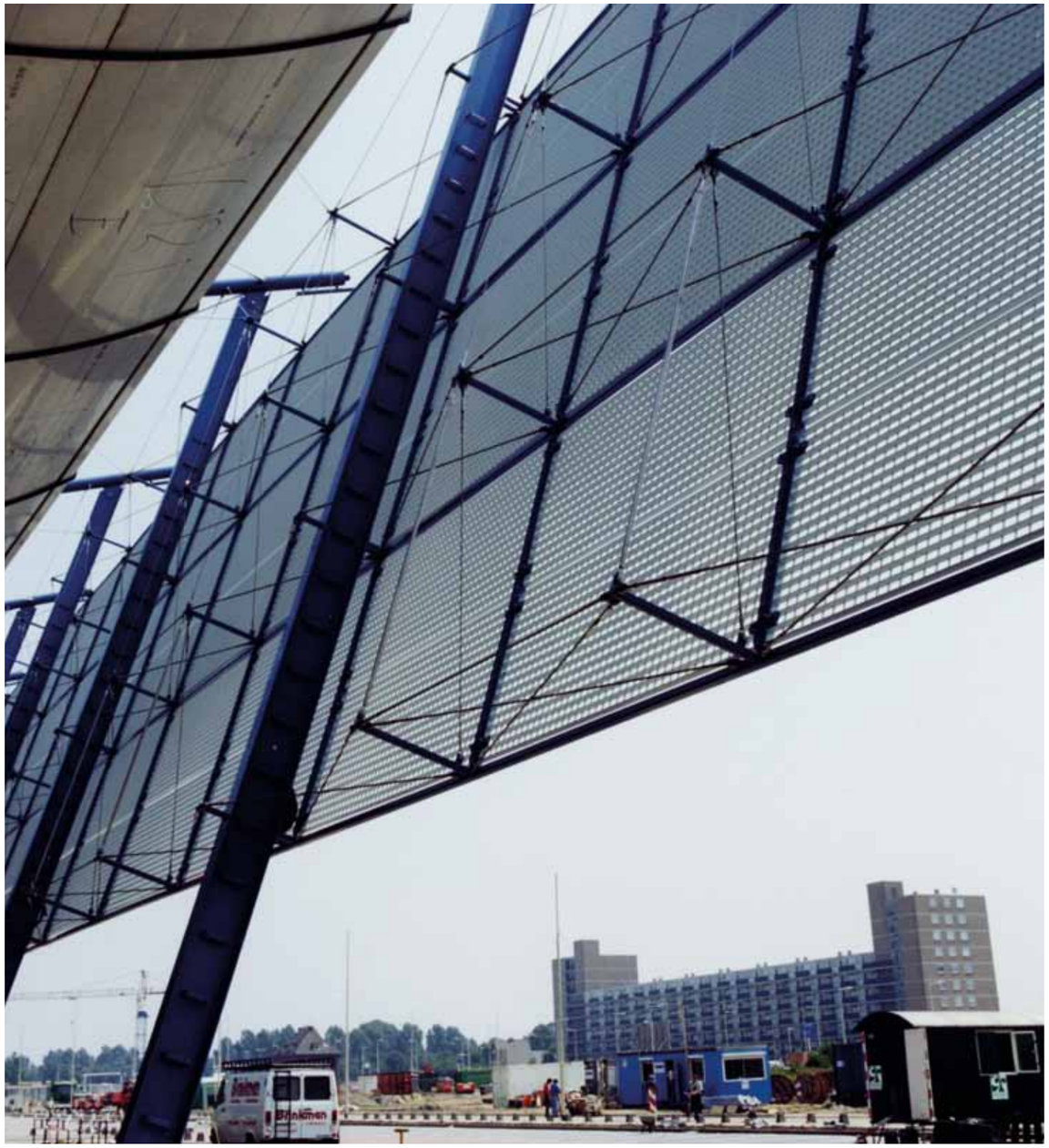
Stainless Steel Snapshackles With Fixed Eye AISI 630 (**High Tensile**)

Breaking load in kg	A	B	C	weight in kg/100 pcs.	Wichard No.	**Ref. No.**
400	35	8	6	1,2	2470	W247.00.00*
2000	50	16	10	4,2	2471	W247.10.00
3500	70	21	13	9,0	2472	W247.20.00

***W247.00.00 is not HR**

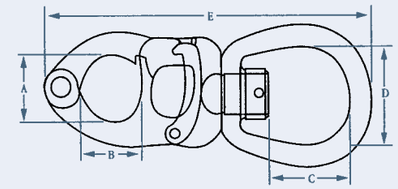
Stainless Steel Snapshackles With Thimble Eye AISI 630 (**High Tensile**)

Breaking load in kg	A	B	C	weight in kg/100 pcs.	Wichard No.	**Ref. No.**
2000	95	16	12	7,6	2493	W249.30.00
2500	110	21	14	15,0	2495	W249.50.00



Tylaska Snapshackles

- Tylaska snapshackles are available in 7 different types with standard - large bail or fork.
- The computer optimized 17-4 PH stainless steel construction gives the Tylaska shackles the highest in strength-to-weight ratios.
- The precision engineered U.S. made shackles are constructed to near-military specifications, with every shackle individually tested prior to shipping.
- Safety factor 1:2



Tylaska Snapshackles with standard bail

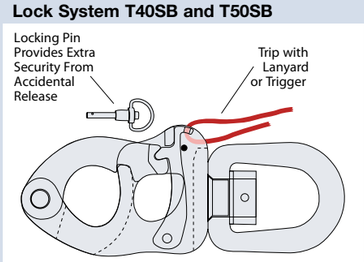
Breaking load in kg	Work load in kg	A	B	C	D	E	Weight in gr	Type	**Ref. No.**
2273	1136	14,2	14,2	13,5	14,2	74,6	59	T5SB	TYL0.00.T5
3636	1818	15,7	16,7	15,1	16,7	87,3	97	T8SB	TYL0.00.T8
5455	2727	19,1	19,8	19,1	19,1	101,0	159	T12SB	TYL0.0T.12
9091	4545	24,6	23,8	23,8	24,6	127,0	338	T20SB	TYL0.0T.20
13636	6818	31,8	28,6	28,6	31,8	161,9	636	T30SB	TYL0.0T.30
18181	9090	45,7	42,6	47,1	45,2	243,0	2820	T40SB	TYL0.0T.40
22727	11364	50,8	47,6	52,4	50,3	270,0	3130	T50SB	TYL0.0T.50

Tylaska Snapshackles with large bail

Breaking load in kg	Work load in kg	A	B	C	D	E	Weight in gr	Type	**Ref. No.**
2273	1136	14,2	14,2	20,6	22,2	84,1	74	T5LB	TYL0.00.T5L
3636	1818	17,5	16,7	24,6	25,4	92,1	116	T8LB	TYL0.00.T8L
5455	2727	19,1	19,8	28,6	30,2	114,3	205	T12LB	TYL0.0T.12L
9091	4545	24,6	23,8	34,9	38,1	141,3	406	T20LB	TYL0.0T.20L
13636	6818	31,8	28,6	46,9	48,4	182,6	824	T30LB	TYL0.0T.30L
18181	9090	45,7	42,6	72,8	74,0	274.0	3900	T40LB	TYL0.0T.40L
22717	11364	50,8	47,6	81,0	82,3	304,8	4320	T50LB	TYL0.0T.50L

- Tylaska T50 and T40 snapshackles are the largest trigger-type snap shackles ever made. They can be opened using either a trigger or a lanyard. A lanyard allows for remote operation - ideal for towing applications. The locking pin provides extra security from accidental release.
- All sizes Tylaska snapshackles are available with swivel forks.
- Ask for specification sheets.

Lock System T40SB and T50SB



Tylaska linked Snapshackles with standard bail

Breaking load in kg	Work load in kg	E	Weight in gr	Type	**Ref. No.**
2273	1136	136	119	T5D	TYL0.00.T5D
3636	1818	164	193	T8D	TYL0.00.T8D
5455	2727	194	318	T12D	TYL0.0T.12D
9091	4545	244	676	T20D	TYL0.0T.20D
13636	6818	302	1273	T30D	TYL0.0T.30D

■ Safety factor 1:2

Tylaska Fids

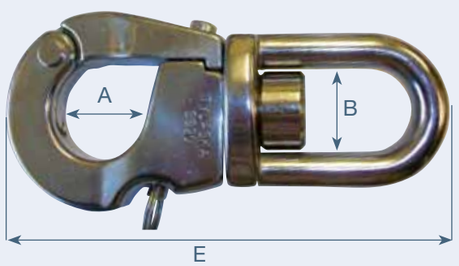
E	For shackle size	**Ref. No.**
170	T5 - T12	TYLF.05.12
170	T5 - T12	TYLTF.05.12*
220	T20 - T30	TYLF.20.30
360	T40 - T50	TYLF.40.50

***TYLTF.05.12 is tapered fid**

Tylaska Plug Fids

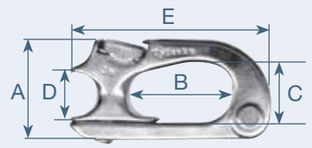
For shackle size	**Ref. No.**
T8	TYLP.F08
T12	TYLP.F12
T20	TYLP.F20

Tylaska S.S 20



Breaking load in kg	Work load in kg	E	A	B	Weight in gr	Type	**Ref. No.**
9132	4566	114	20	26	706	SS10	TYLS.S10
18265	9132	152	28	35	1020	SS20	TYLS.S20
36364	18181	246	44	55	4100	SS40	TYLS.S40

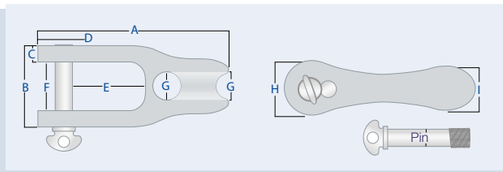
- The Tylaska SS Snap Shackles are the standard for the highest-load shackle in our line. It relies on an old fashioned piston pin for those applications that don't need the ability to be released under load.
- Made from the same durable 17-4 PH stainless
- Safety factor 1:2



Tylaska J-Locks

Breaking load in kg	Work load in kg	Rope size	A	B	C	D	E	Weight in gr	Type	**Ref. No.**
3636	1818	8-10	26,7	26,7	15,2	10,9	53,3	54	J8	TYL0.00.J8
5455	2727	10-12	30,5	30,5	17,3	12,7	70,0	82	J12	TYL0.0J.12
9091	4545	12-16	38,1	38,1	21,5	15,7	76,0	159	J20	TYL0.0J.20
13636	6818	14-20	49,3	44,7	26,4	19,1	103,0	371	J30	TYL0.0J.30

- Easily spliced onto Genoa sheets, outhauls and halyards, the new low-profile Tylaska J-Locks fit through most Genoa blocks for fast sheet changes. Unique patented double-locking plunger locks in two directions for the ultimate in flog-free operation.
- Safety factor 1:2



Tylaska Headboard Shackles

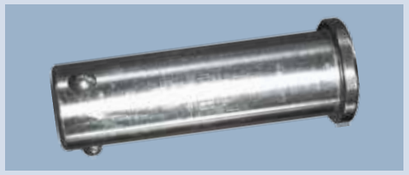
Breaking load in kg	Work load in kg	Rope size	A	B	C	D	E	F	G	H	I	Pin	Weight in gr	Type	**Ref. No.**
2273	1136	8	56,3	25,4	4,6	35,6	23,1	16,1	9,5	19,1	19,1	6,6	36,9	H5	TYL0.00.H5
3636	1818	10	80,0	33,4	7,1	38,1	21,6	19,3	14,2	25,4	26,9	8,1	87,7	H8	TYL0.00.H8
5455	2727	12	76,2	38,2	8,0	50,8	30,5	22,4	14,3	30,1	28,6	9,5	127,8	H12	TYL0.0H.12
9091	4545	14-16	122,9	46,5	10,6	63,5	36,6	25,4	19,1	40,1	38,1	12,7	272,7	H20	TYL0.0H.20

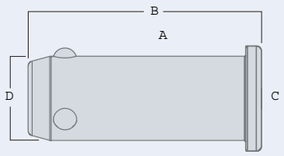
- Lightest halyard shackle available
- Highest strength to weight ratio
- Captive cross pin
- Can be used as 2:1 purchase
- Safety factor 1:2

Tylaska Standard Swivels Stainless Steel 17-4 PH

Breaking load in kg	Work load in kg	A	B	E	Weight in gr	Type	**Ref. No.**
2273	1136	14,2	14,2	60,3	51	T5SBSB	TYLS.BS.B05
3636	1818	17,5	16,7	71,4	74	T8SBSB	TYLS.BS.B08
5455	2727	19,8	19,1	83,0	125	T12SBSB	TYLS.BS.B12
9091	4545	27,8	24,6	110,0	281	T20SBSB	TYLS.BS.B20
13636	6818	31,8	31,8	133,0	483	T30SBSB	TYLS.BS.B30
22727	11364	42,1	42,1	178,0	1144	T50SBSB	TYLS.BS.B50

- Tylaska Swivels are made from 17-4 PH = AISI 630 and therefore a very high yield strength
- Safety factor 1:2



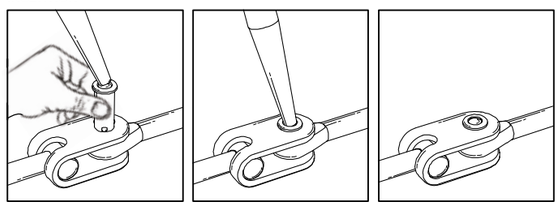


Nominal Diameter	Grip Length	A in mm	B in mm	C in mm	C in mm	Type	**Ref. No.**
	9/16"	14.3	21.1			BL313-563	TYL BL 313 563
	11/16"	17.5	24.3			BL313-688	TYL BL 313 688
5/16"	3/4"	19.1	25.9	11.0	7.9	BL313-750	TYL BL 313 750
	1"	25.4	32.2			BL313-1000	TYL BL 313 1000
	1 1/4"	31.8	38.6			BL313-1250	TYL BL 313 1250
	5/8"	15.9	23.0			BL375-625	TYL BL 375 625
	13/16"	20.7	27.7			BL375-813	TYL BL 375 813
3/8"	1"	25.4	32.5	12.6	9.5	BL375-1000	TYL BL 375 1000
	1 1/4"	31.8	38.8			BL375-1250	TYL BL 375 1250
	1 1/2"	38.1	45.2			BL375-1500	TYL BL 375 1500
	3/4"	19.1	28.6			BL500-750	TYL BL 500 750
1/2"	1"	25.4	35.0	15.7	12.6	BL500-1000	TYL BL 500 1000
	1 1/4"	31.8	41.3			BL500-1250	TYL BL 500 1250
	1 1/2"	31.8	47.7			BL500-1500	TYL BL 500 1500
	1"	25.4	36.6			BL625-1000	TYL BL 625 1000
5/8"	1 1/4"	31.8	43.0	18.9	15.8	BL625-1250	TYL BL 625 1250
	1 1/2"	38.1	49.3			BL625-1500	TYL BL 625 1500
	1 3/4"	44.5	55.7			BL625-1750	TYL BL 625 1750

- Tylaska Marine Hardware's new patented ball-lock clevis pins provide a direct replacement for standard clevis pins.
- Unlike traditional ball lock pins, the Tylaska ball lock clevis pin has no bulky handle and has a release button on both ends.
- This revolutionary pin eliminates the need for sharp cotter pins, bulky snap rings, and messy rigging tape, providing a smooth, snagfree connection that is easy to assemble and disassemble.
- The clevis pins are constructed out of a hardened and electro-polished 17-4 stainless steel alloy, which allows for comparable strength to standard 316 stainless steel clevis pins.

- Tylaska's ball-lock clevis pins utilize three ball bearings at the end of the pin to hold the clevis pin captive. In their at-rest state, the ball bearings are locked in a protruded position, holding the pin captive in the same way a cotter pin would.
- Depressing a button recessed in the head of the pin permits the ball bearings to drop into the pin, allowing the pin to be easily inserted into a clevis.
- A second button on the opposite end of the pin can be used in the same fashion for easy removal and allows the use of a hammer and punch to dislodge the pin if it is ever corroded or stuck.
- A standard fid or other spike can also be used to depress the buttons.
- The buttons use stiff springs to ensure that the pins will not easily dislodge themselves under heavy flogging or shock.
- The release buttons are also recessed to ensure that the pins resist accidental release when bumped or struck by other objects.

INSERTION

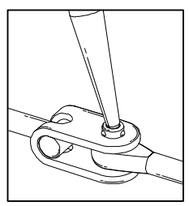


Guide clevis pin into clevis with hand while applying pressure to front button with a fid, screw driver or any pointed object.

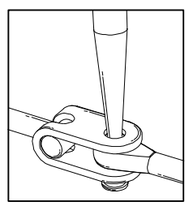
Once button is sufficiently depressed, the clevis pin will slip into place.

Once in place, the ballbearings will snap into a locked position and hold the clevis pin captive.

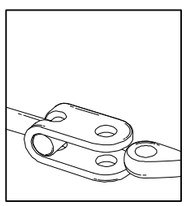
REMOVAL



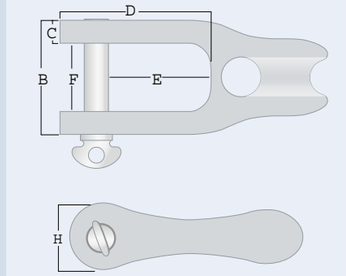
Apply pressure to rear button on opposite end of clevis pin with a fid, screw driver or other pointed tool.



Push pin through until balls are released.



The pin will slip free.

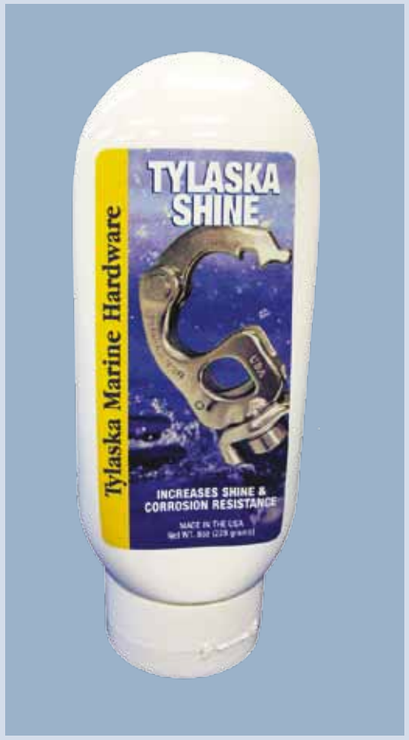


Tylaska Headboard Sheaved Shackles

Breaking load in kg	Work load in kg	Rope size	B	C	D	E	F	H	PIN	Weight in gr	Type	**Ref. No.**
2273	1136	10	25,4	4,6	35,6	23,1	16,1	19,1	6,6	36,9	H5 S	TYL0.00.H5 S
3636	1818	14	33,4	7,1	38,1	21,6	19,3	25,4	8,1	87,7	H8 S	TYL0.00.H8 S
5455	2727	16	38,2	8,0	50,8	30,5	22,4	30,1	9,5	127,8	H12 S	TYL0.0H.12 S
9091	4545	22	46,5	10,6	63,5	36,6	25,4	40,1	12,7	272,7	H20 S	TYL0.0H.20 S

True 2:1 Sheaved Shackles

- Using a high strength composite sleave bearing, Tylaska has created true 2-1 halyard shackles capable of handling the full rated load of the shackle.
- The size was made to fit standard sail headboards without adding any unnecessary weight.
- Strength was optimized by computer and then verified by numerous "make and break" destructive tests.



Tylaska Shine

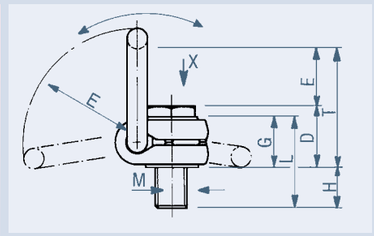
- Tylaska Marine Hardware has introduced a polish to easily remove rust stains from stainless steel.
- TYLASKA SHINE has been formulated to clean, polish, and protect stainless steel in just one application using very little paste and a soft cloth.
- TYLASKA SHINE is non-toxic, non-abrasive, and non-flammable. It works very well and has no bad odors.
- Remember, a little goes a long way.

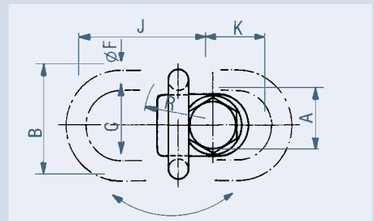
Ring Bolt Threaded

Type	WLL	Dimensions in mm																	max. thread torque	WT.	**Ref. No.**
		A	B	C	D		E	E'		ø	G	H	J	K	L	M	R	T	ø		kg/	
	in t		max.		RUD	DIN		RUD	DIN	F									DB		unit	
LBG (3) M16 RS 1t	1	46	85	50	–	45	72	–	43	16,5	38	25	95	45	63	16	46	88	45	100 Nm	1	5568.30.16
LBG (3) M20 RS 2t	2	46	85	50	–	45	72	–	42	16,5	38	26	95	45	65	20	46	88	45	200 Nm	1,1	5568.30.20

BG Test Number 935119.
Lashing or lifting point with replaceable hexagon headed bolt. BG tested. Folding link rotates on all sides, bears the rated load in all directions.
Only one threaded hole required. Also available without bolt.

Safety note
Make sure the mounting surface is leveled. The thread connection on the load must meet the required load capacity.
The following minimum thread lengths are normally prescribed:
1 x m in steel; 2 x m in aluminium; 1.25 x m in cast iron; 2.5 x m
in aluminium-magnesium alloys.
100 % electromagnetically crack tested!





Eye Plate Weldable

WLL	Description	Welding	Dimensions in mm								Weight	**Ref. No.**
in t		seam	A	B	C	D	E	øF	G	H	in kg	**LBS stainless**
0,5	LBS (1) RS 0,5t	HV 5+3	32	65	36	25	39	13,5	33	85	0,3	5563.10.05
1	LBS (3) RS 1t	HV 8+3	42	85	50	31	50	16,5	46	108	0,6	5563.10.10
2	LBS (5) RS 2t	HV 12+4	61	110	65	44	72	22,5	60	155	1,6	5563.10.20

With spring.
BG tested, test number 935118.
A particularly cost-effective lifting and lashing point.

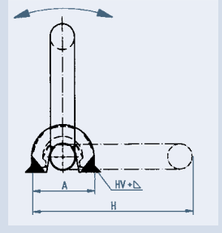
Particular benefits:
Can be loaded to the WLL in all directions. Link rotates through 180°. Load limit clearly defined.

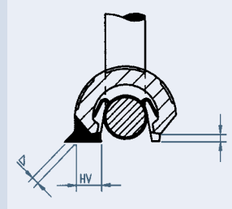
Stainless Steel LBS ( ) RS-version:

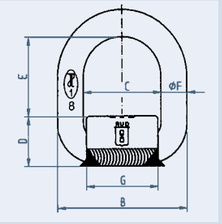
Material of the Stainless Steel version:
X 10 CR Ni Mo Tl 1810 (1.4571), B.S. 320 S 17, AISI 316 Tl.

Due to the Mo contents, increasing the chemical resistance and the resistance against pitting by chloride media, material 1.4571 is used in chemical industry, petroleum and coaltar chemistry and textile industry.

The stainless steel version is only delivered without spring.

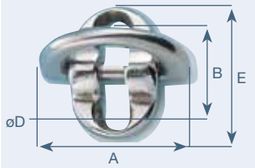






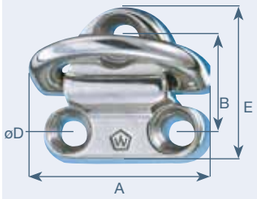
Most boat builders have opted for Wichard folding pad eyes. They are drop-forged with no welding, and in themselves offer remarkable strength.
In addition, by aligning themselves in the forces direction, they can handle higher operating loads, regardless of the position in question.
When only used intermittently, they can be folded dwon out of the way using a silicon pad that also eliminates noise and unpleasant vibrations.
The double folding pad eyes were designed to enable several stays or a baby stay and a jib tack point to be attached to a single point.

Folding Pad Eyes **Forged** Stainless Steel AISI 316



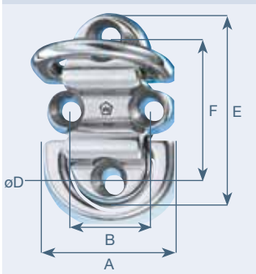
Breaking load in kg	A	B	E	øD	weight in kg/100 pcs.	Wichard No.	**Ref. No.**
1600	40	23	40	6,4	5,6	6584	W658.40.00

Folding Pad Eyes **Forged** Stainless Steel AISI 316



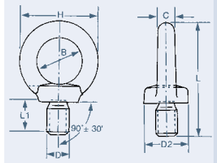
Breaking load in kg	A	B	E	øD	weight in kg/100 pcs.	Wichard No.	**Ref. No.**
1800	45	27	40	6,4	6,7	6504	W650.40.00
3000	59	35	50	8,5	13,6	6505	W650.50.00
5100	75	45	65	10,5	28,6	6506	W650.60.00

Folding Pad Eyes **Forged** Stainless Steel AISI 316



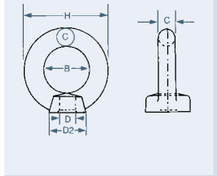
Breaking load in kg	A	B	E	F	øD	weight in kg/100 pcs.	Wichard No.	**Ref. No.**
2700	45	27	90	59	6,4	12,6	6564	W656.40.00
4500	59	35	81	59	8,5	25,2	6565	W656.50.00
10000	75	45	125	78	10,5	49,4	6566	W656.60.00

Stainless Steel **Casted** Eye Bolts AISI 316 acc. to DIN 580



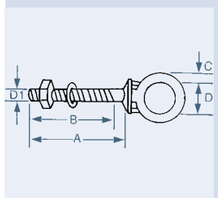
Breaking Load in kg	D	C	B	H	L	L1	D2	weight in kg/100 pcs.	**Ref. No.**
420	M 6	6	16	28	41	12	17	2,5	5551.30.06
840	M 8	8	20	36	48	13	20	5,0	5551.30.08
1380	M 10	10	25	45	62	17	25	9,4	5551.30.10
2040	M 12	12	30	54	75	21	30	16,6	5551.30.12
4200	M 16	14	35	63	90	27	35	26,0	5551.30.16
7200	M 20	16	40	72	102	30	40	42,0	5551.30.20
10800	M 24	20	50	90	126	36	50	84,0	5551.30.24
19200	M 30	30	60	109	154	45	60	157,0	5551.30.30

Stainless Steel **Casted** Eye Nuts AISI 316 acc. to DIN 582



Breaking Load in kg	D	C	B	H	D2	weight in kg/100 pcs.	**Ref. No.**
420	M 6	6	16	28	17	2,3	5552.30.06
840	M 8	8	20	36	20	4,6	5552.30.08
1380	M 10	10	25	45	25	8,6	5552.30.10
2040	M 12	12	30	54	30	14,4	5552.30.12
4200	M 16	14	35	63	35	23,0	5552.30.16
7200	M 20	16	40	72	40	33,4	5552.30.20
10800	M 24	20	50	90	50	67,5	5552.30.24
19200	M 30	30	60	109	60	130,0	5552.30.30

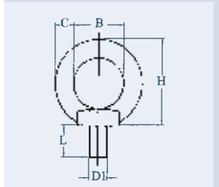
Stainless Steel **Casted** Eye Bolts AISI 316 Long Model With Nut And Washer



D1 x A	B	C	D	weight in kg/100 pcs.	**Ref. No.**
M 6 x 40	34	5	16	4,0	IL26.16.04
M 6 x 60	54	5	16	4,5	IL26.16.06
M 6 x 80	70	5	16	5,0	IL26.16.08
M 8 x 80	70	6	20	9,0	IL26.18.08
M 8 x 100	90	6	20	9,8	IL26.18.10
M 10 x 100	88	8	25	14,5	IL26.11.10
M 10 x 120	105	8	25	15,0	IL26.11.12
M 12 x 120	100	10	30	16,0	IL26.12.12
M 12 x 140	120	10	30	16,5	IL26.12.14

INOX LINE

Stainless Steel **Forged** Eye Bolts AISI 316 acc. to DIN 580



Breaking Load in kg	D1	C	B	H	WLL in kg vertical	weight in kg/100 pcs.	**Ref. No.**
840	M 8	8	20	36	70	5,0	5551.60.08
1380	M 10	10	25	45	230	9,4	5551.60.10
2040	M 12	12	30	53	340	16,6	5551.60.12
4200	M 16	14	35	62	700	26,0	5551.60.16
7200	M 20	16	40	71	1200	42,0	5551.60.20
10800	M 24	20	50	90	1800	84,0	5551.60.24
19200	M 30	30	60	109	3200	157,0	5551.60.30

■ Safety factor 1:6

Stainless Steel **Forged** Eye Nuts AISI 316 acc. to DIN 582

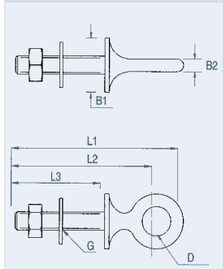
Breaking Load in kg	D1	C	B	H	WLL in kg vertical	weight in kg/100 pcs.	**Ref. No.**
840	M 8	8	20	36	70	4,6	5552.60.08
1380	M 10	10	25	45	230	8,6	5552.60.10
2040	M 12	12	30	54	340	14,4	5552.60.12
4200	M 16	14	35	63	700	23,0	5552.60.16
7200	M 20	16	40	72	1200	33,4	5552.60.20
10800	M 24	20	50	90	1800	67,5	5552.60.24
19200	M 30	30	60	109	3200	130,0	5552.60.30

■ Safety factor 1:6

Shamoun

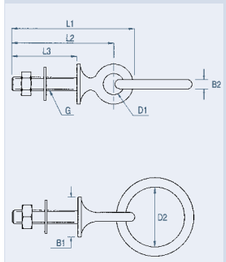
BLUE WAVE®

Eye Bolts AISI 304 Stainless Steel Highly Polished



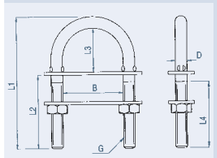
Breaking Load in kg	Thread Length in mm	G	L1	L2	L3	B1	B2	D	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
1300	30	M 6	57	46	30	25	5	13	5	1,8	BW37.06.30
1300	40	M 6	66	56	40	25	5	13	5	2,8	BW37.06.40
1300	50	M 6	76	62	50	25	5	13	5	3,0	BW37.06.50
1300	60	M 6	87	76	60	25	5	13	5	3,3	BW37.06.60
1300	95	M 6	126	115	100	25	5	13	5	3,7	BW37.06.00
2400	35	M 8	66	53	35	25	6	15	5	3,8	BW37.08.35
2400	50	M 8	80	68	50	25	6	15	5	4,9	BW37.08.50
2400	75	M 8	110	98	80	25	6	15	5	5,5	BW37.08.80
2400	75	M 8	130	118	100	25	6	15	5	6,5	BW37.08.00
3500	50	M 10	85	70	50	30	7	16	5	8,7	BW37.10.50
3500	95	M 10	135	120	100	30	7	16	5	11,0	BW37.10.00
4500	45	M 12	90	74	50	30	9	18	5	10,2	BW37.12.50
4500	85	M 12	140	124	100	30	9	18	5	15,0	BW37.12.10
4500	85	M 12	200	184	160	30	9	18	5	19,0	BW37.12.16

Eye Bolts with Ring AISI 304 Stainless Steel Highly Polished



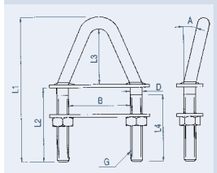
Breaking Load in kg	Thread Length in mm	G	L1	L2	L3	B1	B2	D1	D2	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
950	30	M 6	57	46	30	25	5	13	30	5	4,4	BW38.06.30
950	60	M 6	87	76	60	25	5	13	30	5	4,9	BW38.06.60
1500	35	M 8	66	53	35	25	6	15	40	5	7,3	BW38.08.35
1500	75	M 8	111	98	80	25	6	15	40	5	8,8	BW38.08.80
2200	50	M 10	85	70	50	30	7	16	45	5	13,6	BW38.10.50
2200	95	M 10	135	120	100	30	7	16	45	5	16,3	BW38.10.00
3300	85	M 12	140	124	100	30	10	18	50	5	28,2	BW38.12.10
3300	85	M 12	200	184	160	30	10	18	50	5	32,1	BW38.12.16

U-Bolts AISI 304 Stainless Steel Highly Polished



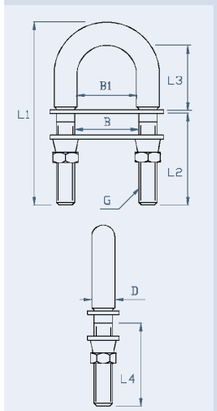
Breaking Load in kg	G	L1	L2	L3	L4	B	D	min. packing pcs.	weight in kg/100 pcs.	**Ref. No.**
750	M 4	66	35	25	30	26	4,0	5	2,1	BW34.04.35
900	M 5	67	35	25	30	25	4,4	5	2,6	BW34.05.35
1250	M 6	67	35	26	30	27	5,3	5	4,5	BW34.06.35
1250	M 6	84	50	26	30	27	5,3	5	5,7	BW34.06.50
1750	M 8	71	35	26	30	25	7,1	5	7,2	BW34.08.35
1750	M 8	86	50	26	30	25	7,1	5	9,7	BW34.08.50
1750	M 8	116	80	26	45	25	7,1	5	11,8	BW34.08.80
1750	M 8	80	40	30	32	42	8,0	5	12,4	BW34.88.40
1750	M 8	90	50	30	32	42	8,0	5	13,2	BW34.88.50
3500	M 10	95	45	40	40	30	10,0	5	18,4	BW34.10.45
3500	M 10	110	60	40	35	30	10,0	5	20,4	BW34.10.60
3500	M 10	150	100	40	85	30	10,0	5	25,0	BW34.10.10
5100	M 12	122	80	30	85	35	10,8	5	29,0	BW34.12.80

U-Bolts AISI 316 Stainless Steel Highly Polished



Breaking Load in kg	G	L1	L2	L3	L4	A	B	D	min. packing pcs.	weight in kg/100 pcs.	Ref. No.
3500	M 8	100	50	40	45	0°	33	8	2	12,5	BW40.85.00
3500	M 8	100	50	40	45	8°	33	8	2	12,5	BW40.85.08
3500	M 8	100	50	40	45	18°	33	8	2	12,5	BW40.85.18
5100	M 10	120	60	48	55	0°	40	10	2	15,0	BW41.06.00
5100	M 10	120	60	48	55	8°	40	10	2	15,0	BW41.06.08
5100	M 10	120	60	48	55	18°	40	10	2	15,0	BW41.06.18

Security U-Bolts



High Polished Stainless Steel AISI 316 with hard chromed layer

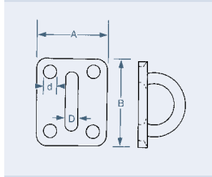
Blue Waves class 3 certified U-bolt is the most sold on the market because of the high quality and resistance against rust.

Breaking Load in kg	G	D	L1	L2	L3	L4	B	B1	weight in kg/100 pcs.	break NUT	Ref. No.
5100	M 12	14	122	65	41	48	34,5	32,5	31	50 Nm	BW43.12.65
				CLASS 3 CERTIFIED							
3500	M 10	12	95	45	38	40	30,0	30,0	22	50 Nm	BW43.10.45
				CLASS 2 CERTIFIED							

Stainless Steel Eye Strap AISI 316

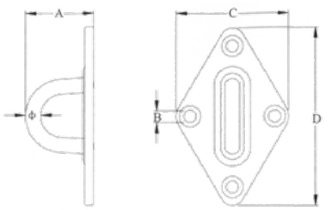
D	L2	H	d	weight in kg/100 pcs.	**Ref. No.**
4	32	16	3,2	0,5	IL27.00.04
5	40	18	4,2	0,9	IL27.00.05
6	45	22	5,2	1,3	IL27.00.06
8	50	23	5,2	2,8	IL27.00.08
10	62	28	8,2	5,5	IL27.00.10

Stainless Steel Square Padeye AISI 316



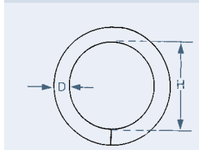
D	A	B	d	weight in kg/100 pcs.	**Ref. No.**
5	30	35	4,3	2,9	IL27.10.05
6	35	40	5,3	4,0	IL27.10.06
8	40	50	5,5	7,0	IL27.10.08
10	48	60	5,5	13,0	IL27.10.10

Stainless Steel Diamond Padeye AISI 316



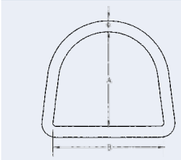
D	A	B	C	D	weight in kg/100 pcs.	**Ref. No.**
5	23	4	37	59	2,9	IL27.10.05D
6	27	4	40	64	4,0	IL27.10.06D
8	33	5	50	80	7,0	IL27.10.08D

Stainless Steel Welded Rings AISI 316



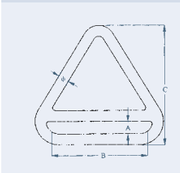
D	H	Ref. No.
3	15	IL28.03.15
3	20	IL28.03.20
3	30	IL28.03.30
4	20	IL28.04.20
4	30	IL28.04.30
4	35	IL28.04.35
5	20	IL28.05.20
5	30	IL28.05.30
5	40	IL28.05.40
6	30	IL28.06.30
6	35	IL28.06.35
6	40	IL28.06.40
6	50	IL28.06.50
8	30	IL28.08.30
8	40	IL28.08.40
8	50	IL28.08.50
8	60	IL28.08.60
10	50	IL28.10.50
10	60	IL28.10.60
10	75	IL28.10.75
10	100	IL28.10.100
12	70	IL28.12.70
12	100	IL28.12.100
12	120	IL28.12.120
13	70	IL28.13.70
13	100	IL28.13.100
13	130	IL28.13.130

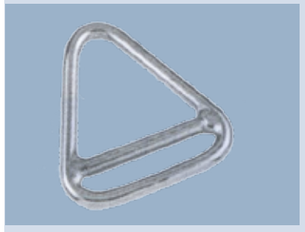
Stainless Steel D-ring AISI 316



ø	A	B	Ref. No.
3	22	26	IL29.03.26
4	22	27	IL29.04.27
4	25	30	IL29.04.30
5	22	26	IL29.05.26
5	25	30	IL29.05.30
5	30	35	IL29.05.35
5	35	40	IL29.05.40
6	30	35	IL29.06.35
8	43	51	IL29.08.51
8	60	70	IL29.08.70
8	68	80	IL29.08.80

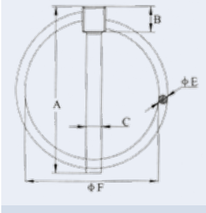
Stainless Steel Triangle Ring with Welded Cross Bar AISI 316





ø	A	B	C	Ref. No.
5	5	46	41	IL29.15.46
5	5	52	45	IL29.15.52
6	4	46	53	IL29.16.46
6	5	52	45	IL29.16.52
8	5	46	41	IL29.18.46
8	5	52	45	IL29.18.52
8	6	61	54	IL29.18.61

Stainless Steel Ring Catch AISI 316



A	B	C	E	F	Ref. No.
47,9	7,4	4,4	2,6	37,8	IL31.93.044
52,3	7,6	6,0	3,2	41,5	IL31.96.060
53,6	8,6	7,9	3,4	41,4	IL31.93.079
52,2	10,7	10,6	3,6	44,0	IL31.93.106

Stainless Steel **Casted** Turnbuckle Eye-Eye AISI 316

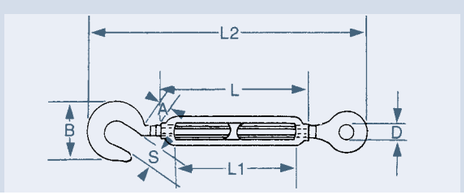
Breaking load in kg	A	L	L1	L2	D	weight in kg/100 pcs.	**Ref. No.**
430	M4	60	47	98	8	3,2	5781.00.55
610	M5	70	52	115	8	3,8	5781.00.70
1350	M6	90	66	155	11	10,0	5781.00.90
2070	M8	120	94	200	13	17,2	5781.01.20
2790	M10	150	120	235	15	26,0	5781.01.50
3960	M12	200	168	310	18	52,0	5781.02.00
7290	M16	250	210	370	26	110,0	5781.02.50
9900	M20	295	250	480	29	192,5	5781.02.95

Stainless Steel **Casted** Turnbuckle Hook-Hook AISI 316

Breaking load in kg	A	B	L	L1	L2	S	weight in kg/100 pcs.	**Ref. No.**
80	M4	15	60	47	98	7	3,2	5782.00.55
115	M5	19	70	52	115	7	3,8	5782.00.70
300	M6	23	90	66	155	10	10,0	5782.00.90
500	M8	31	120	94	200	11	17,2	5782.01.20
700	M10	36	150	120	235	12	26,0	5782.01.50
1260	M12	41	200	168	310	12	52,0	5782.02.00
2160	M16	55	250	210	370	16	110,0	5782.02.50
3150	M20	-	295	250	480	20	192,50	5782.02.95

Stainless Steel **Casted** Turnbuckle Hook-Eye AISI 316

Breaking load in kg	A	B	L	L1	L2	D	S	weight in kg/100 pcs.	**Ref. No.**
80	M4	15	60	47	98	8	7	3,2	5780.00.55
115	M5	19	70	52	115	8	7	3,8	5780.00.70
300	M6	23	90	66	155	11	10	10,0	5780.00.90
500	M8	31	120	94	200	13	11	17,2	5780.01.20
700	M10	36	150	120	235	15	12	26,0	5780.01.50
1260	M12	41	200	168	310	18	12	52,0	5780.02.00
2160	M16	55	250	210	370	26	16	110,0	5780.02.50
3150	M20	-	295	250	480	29	20	192,50	5780.02.95

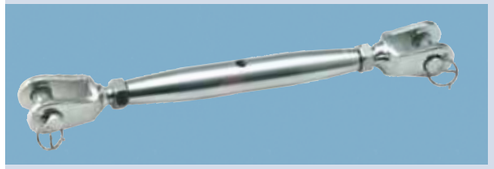


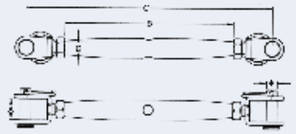
INOX LINE

Stainless Steel **Casted** Turnbuckle Fork-Fork AISI 316

Breaking load in kg	D	A	B	C	T	min. packing	weight in kg/100 pcs.	**Ref. No.**
562	M5	10,5	80	125	5	10	5,1	I8712-050
1050	M6	10,5	92	140	6	10	9,0	I8712-060
1650	M8	11,5	112	170	8	10	15,0	I8712-080
2580	M10	15,5	120	190	10	10	24,0	I8712-100
3750	M12	19,2	150	240	12	5	52,5	I8712-120
4800	M14	16,2	170	270	14	5	63,5	I8712-140
6000	M16	22,8	190	314	16	5	100,0	I8712-160
7800	M20	27,3	220	452	20	5	197,0	I8712-200

■ Do not use casted turnbuckles for standing rigging





Wireteknik

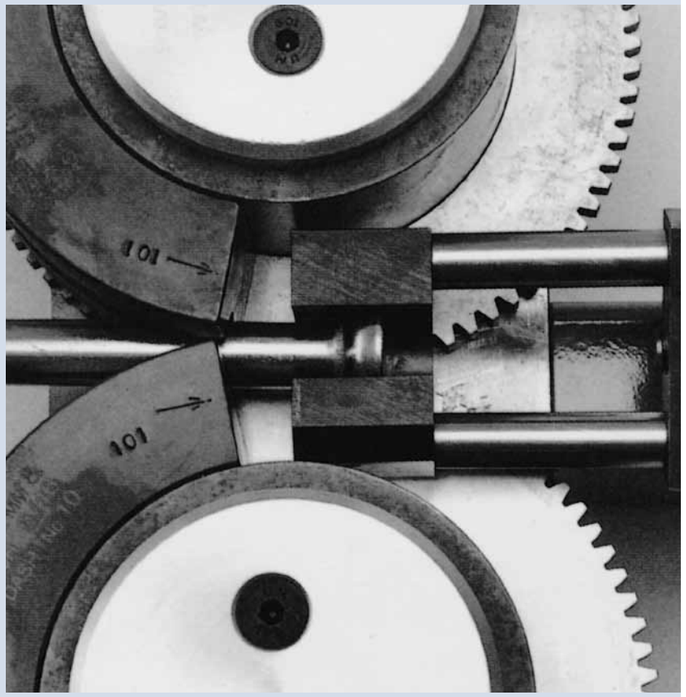
The yacht market was where it began. The first machine was developed in the midseventies. A machine that did away with convention. All previous concepts of fitting terminals onto full-steel wire rope and solid rod were turned upside down. Further, the terminal was also straight, not curved as was usual hitherto.

The principle is simple. The terminal itself drives the roller dies. The machine works with a freely rotating pair of rollers, driven when the terminal is drawn between them. It is a simple and robust design with the minimum of movable parts, making it reliable both in the field and in rational production.

Development was quick. In many fields, the need for high strength swaged terminals is considerable. The machines perform equally effectively on solid rod as they do on full-steel wire. The breaking load is as high as that of the rod or wire

Electricity, Air or Man Power

A big advantage with the swage is their portability. One man can do the job, whether he uses manual pump, an electric motor or compressed air. Due to the portability, a permanent onsite solution can be achieved in all circumstances. The range is wide, and the capacity is from 1,5 mm - 44 mm, wire or rod.



Wireteknik swagingmachine A 100
incl. roller dies 2,5-3-4-5 mm,
handpump, tools and transportbox

Swaging range in mm	Dimensions in mm	weight in kg	**Ref. No.**
1,6 - 5	L 500 x W 300 x H 100	12	WTA1.00.00

Wireteknik swagingmachine A 200
incl. handpump, tools and transportbox

Swaging range in mm	Dimensions in mm	weight in kg	**Ref. No.**
1,6 - 8	L 500 x W 290 x H 140	19,5	WTA2.00.00

Set roller dies 2,5 mm for A 200	0,8	WTA2.00.02
Set roller dies 3,0 mm for A 200	0,8	WTA2.00.03
Set roller dies 4,0 mm for A 200	0,8	WTA2.00.04
Set roller dies 5,0 mm for A 200	0,8	WTA2.00.05
Set roller dies 6,0 mm for A 200	0,8	WTA2.00.06
Set roller dies 7,0 mm for A 200	1,7	WTA2.00.07
Set roller dies 8,0 mm for A 200	1,7	WTA2.00.08

Wireteknik swaging machine A 250 incl. handpump and tools

Swaging range in mm	Dimensions in mm	weight in kg	**Ref. No.**
2,5 - 12	L 1320 x W 370 x H 177	58	WTA2.50.00
Set roller dies 2,5 mm for A 250		2,7	WTA3.00.02
Set roller dies 3,0 mm for A 250		2,7	WTA3.00.03
Set roller dies 4,0 mm for A 250		2,7	WTA3.00.04
Set roller dies 5,0 mm for A 250		2,7	WTA3.00.05
Set roller dies 6,0 mm for A 250		2,7	WTA3.00.06
Set roller dies 7,0 mm for A 250		2,7	WTA3.00.07
Set roller dies 8,0 mm for A 250		2,7	WTA3.00.08
Set roller dies 10,0 mm for A 250		5,1	WTA3.00.10
Set roller dies 12,0 mm for A 250		5,1	WTA3.00.12
Set roller dies 12,0 mm for Blue Wave E-Size Terminals		5,1	WTA3.00.12E

Wireteknik swaging machine Standard A 300 incl. handpump and tools

Swaging range in mm	Dimensions in mm	weight in kg	**Ref. No.**
2,5 - 16	L 1320 x W 370 x H 240	67	WTA3.00.00
Set roller dies 2,5 mm for A 300		2,7	WTA3.00.02
Set roller dies 3,0 mm for A 300		2,7	WTA3.00.03
Set roller dies 4,0 mm for A 300		2,7	WTA3.00.04
Set roller dies 5,0 mm for A 300		2,7	WTA3.00.05
Set roller dies 6,0 mm for A 300		2,7	WTA3.00.06
Set roller dies 7,0 mm for A 300		2,7	WTA3.00.07
Set roller dies 8,0 mm for A 300		2,7	WTA3.00.08
Set roller dies 10,0 mm for A 300		5,1	WTA3.00.10
Set roller dies 12,0 mm for A 300		5,1	WTA3.00.12
Set roller dies 12,0 mm for Blue Wave E-Size Terminals		5,1	WTA3.00.12E
Set roller dies 14,0 mm for A 300		5,1	WTA3.00.14
Set roller dies 16,0 mm for A 300		5,1	WTA3.00.16

Wireteknik swaging machine A 270 incl. handpump and tools

Swaging range in mm	Dimensions in mm	weight in kg	**Ref. No.**
2,5 - 12	L 750 x W 420 x H 177	51	WTA2.70.00
Set roller dies 2,5 mm for A 270		2,7	WTA3.00.02
Set roller dies 3,0 mm for A 270		2,7	WTA3.00.03
Set roller dies 4,0 mm for A 270		2,7	WTA3.00.04
Set roller dies 5,0 mm for A 270		2,7	WTA3.00.05
Set roller dies 6,0 mm for A 270		2,7	WTA3.00.06
Set roller dies 7,0 mm for A 270		2,7	WTA3.00.07
Set roller dies 8,0 mm for A 270		2,7	WTA3.00.08
Set roller dies 10,0 mm for A 270		5,1	WTA3.00.10
Set roller dies 12,0 mm for A 270		5,1	WTA3.00.12
Set roller dies 12,0 mm for Blue Wave E-Size Terminals		5,1	WTA3.00.12E

A 270 is a new compact light weight machine.
Roller dies are the same as the A250.

Wireteknik swaging machine A 350 incl. handpump and tools

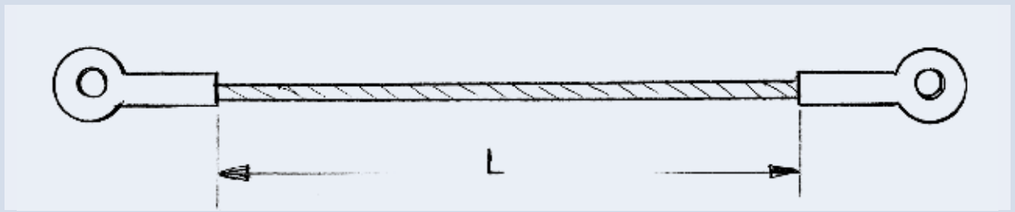
Swaging range in mm	Dimensions in mm	weight in kg	**Ref. No.**
2,5 - 12	L 1117 x W 370 x H 210	69	WTA3.50.00
Set roller dies 2,5 mm for A 350		2,7	WTA3.00.02
Set roller dies 3,0 mm for A 350		2,7	WTA3.00.03
Set roller dies 4,0 mm for A 350		2,7	WTA3.00.04
Set roller dies 5,0 mm for A 350		2,7	WTA3.00.05
Set roller dies 6,0 mm for A 350		2,7	WTA3.00.06
Set roller dies 7,0 mm for A 350		2,7	WTA3.00.07
Set roller dies 8,0 mm for A 350		2,7	WTA3.00.08
Set roller dies 10,0 mm for A 350		5,1	WTA3.00.10
Set roller dies 12,0 mm for A 350		5,1	WTA3.00.12
Set roller dies 12,0 mm for Blue Wave E-Size Terminals		5,1	WTA3.00.12E
Set roller dies 14,0 mm for A 350		5,1	WTA3.00.14
Set roller dies 16,0 mm for A 350		5,1	WTA3.00.16

Bigger machines and 220 and 380 Volt powerpacks on request.

A 350 is a new compact light weight machine.
Roller dies are the same as the A300.

Wire-rope mm	Inside diameter in mm (+/- 0,2)	Outside diameter in mm before swaging	Min. Bore depth in mm (+/- 0,2)	Outside diameter in mm after swaging
2,0	2,2	5,41 - 5,53	32	4,70 - 4,82
2,5	2,8	5,41 - 5,53	32	4,70 - 4,82
3,0	3,5	6,22 - 6,35	38	5,44 - 5,56
4,0	4,4	7,42 - 7,54	45	6,23 - 6,35
5,0	5,3	9,00 - 9,12	51	7,83 - 7,95
6,0	6,5	12,42 - 12,54	64	10,95 - 11,12
7,0	7,5	14,18 - 14,30	70	12,50 - 12,70
8,0	8,4	16,01 - 16,13	83	14,07 - 14,30
10,0	10,5	17,73 - 17,85	89	15,70 - 15,90
12,0 Ⓔ	12,5	20,00 - 20,08	105	17,60 - 17,80
12,0	12,5	21,32 - 21,44	120	18,82 - 19,05
14,0	14,8	24,88 - 25,00	140	22,00 - 22,23
16,0	17,0	28,05 - 28,17	160	25,15 - 25,40
19,0	20,0	34,40 - 34,52	200	31,44 - 31,75
22,0	23,3	40,21 - 40,46	230	36,20 - 36,50
26,0	28,0	45,77 - 46,02	280	40,97 - 41,28
28,0	29,6	50,00	310	44,00 - 44,50
30,0	*	*	*	*
32,0	*	*	*	*

- * sizes on request



- Minimum length L should be for 1 x 19 and 18 x 7 + IWRC
  100 x wire rope diam.

- Minimum length L should be for 7 x 7 - 7 x 19 - 6 x 36 w.s. + IWRC and compacted strand.
  40 x wire rope diam.

- **Rig Maintenance**
  All rigs should be checked and maintained regularly. The rig and sails are your boat's „engine" and as with all engines, the fittings should be checked at least each year. Are your rigging screws starting to fail? Are all treads and pins intact? Cleaning the fittings and adding fresh lubricant, will extend the lifetime of your rig. A qualified inspector should inspect a wire rig after 10-15 years. Ask for qualified riggers who can do inspections.

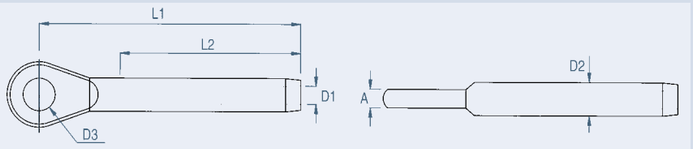
BLUE WAVE®

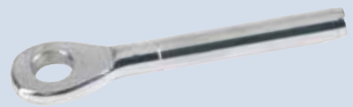
BLUE WAVE®

Eye-Terminals AISI 316 Stainless Steel Highly Polished

ø Wire in mm	Breaking Load in kg	D1	D2	D3	L1	L2	A	weight in kg/100 pcs.	**Ref. No.**
2,0	800	2,2	5,50	5,5	49,0	32	3	0,9	BW19.00.02
2,5	800	2,8	5,50	5,5	49,0	32	3	0,8	BW19.00.25
3,0	1300	3,5	6,35	6,5	58,0	38	4	1,3	BW19.00.03
4,0	2350	4,4	7,50	8,5	67,0	45	5	2,3	BW19.00.04
5,0	3500	5,3	9,00	10,5	79,0	51	6	3,9	BW19.00.05
6,0	5600	6,5	12,58	13,0	94,0	64	8	8,7	BW19.00.06
6,0	6200	6,5	12,58	13,2	105,0	64	10	13,2	▲BW19.00.06X
7,0	5600	7,5	14,20	13,0	104,0	70	9	11,5	BW19.00.07
7,0	6200	7,5	14,20	13,2	110,0	70	10	13,5	▲BW19.00.07X
8,0	7600	8,4	16,00	14,5	124,0	83	10	17,0	BW19.00.08
8,0	9800	8,4	16,00	16,5	141,0	83	12	23,5	▲BW19.00.08X
10,0	9800	10,5	17,80	16,3	137,0	89	11	25,0	BW19.00.10
10,0	9800	10,5	17,80	16,3	165,0	100	16	38,0	▲BW19.00.10BW
10,0	13000	10,5	17,80	19,5	165,0	100	16	38,0	BW19.00.10X
12,0 Ⓔ	13000	12,5	20,00	19,3	156,0	105	15	41,5	BW19.00.12Ⓔ
12,0	13000	12,5	21,40	19,3	178,0	120	15	41,9	▲BW19.00.12X
14,0	17000	14,8	25,00	23,0	206,0	140	18	75,6	BW19.00.14
16,0	24000	17,0	28,00	26,0	232,0	160	20	102,0	BW19.00.16
19,0	27000	20,0	34,50	28,5	302,0	200	25	209,0	BW19.00.19
22,0	31000	23,5	40,40	33,0	348,0	230	30	314,0	BW19.00.22
26,0	43000	27,5	46,00	36,0	400,0	280	30	425,0	BW19.00.26

Note: All break loads are determined by eye (D3)
▲= recommended for compacted strand
Ⓔtype terminal has unswaged outside diameter 20,0 mm.

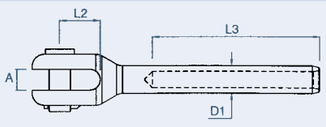


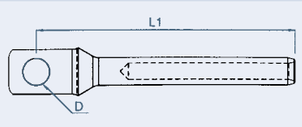


Machined Fork Terminals AISI 316 Stainless Steel Highly Polished

ø Wire in mm	Breaking Load in kg	L1	L2	L3	A	D PIN	D1	weight in kg/100 pcs.	**Ref. No.**
12,0	13000	212	45	105	24	19,0	21,4	100	BW72.19.12XB
14,0	17000	239	49	140	22	22,0	25,0	170	BW72.22.14
16,0	24000	271	52	160	25	25,4	28,0	210	BW72.25.16
19,0	25500	327	55	200	30	28,0	34,5	330	BW72.28.19
22,0	31000	377	67	230	35	32,0	40,4	480	BW72.32.22
26,0	43000	434	67	280	35	35,0	46,0	700	BW72.35.26

Note: All break loads are determined by clevis pin





BLUE WAVE®

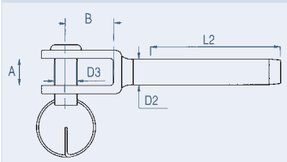
Welded Fork Terminals AISI 316 Stainless Steel Highly Polished

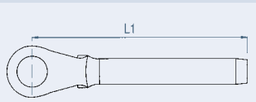
ø Wire in mm	Breaking Load in kg	D2	D3 PIN	L1	L2	A	B	weight in kg/100 pcs.	**Ref. No.**
2,0	800	5,50	5,0	58	32	7,5	12,0	2,0	●BW10.05.02
2,5	800	5,50	5,0	58	32	7,0	12,0	2,0	BW10.05.25
3,0	800	6,35	5,0	67	38	7,5	12,0	2,3	BW10.05.03
3,0	1250	6,35	6,0	68	38	9,5	13,0	2,8	●BW10.06.03
3,0	1250	6,35	6,3	68	38	9,5	13,0	2,8	▲BW10.63.03
4,0	800	7,50	5,0	71	45	7,5	12,0	2,7	BW10.05.04
4,0	1250	7,50	6,0	73	45	9,5	13,0	3,4	●BW10.06.04
4,0	1250	7,50	6,3	73	45	9,5	13,0	3,4	BW10.63.04
4,0	2350	7,50	8,0	77	45	11	15,0	4,9	▲BW10.08.04
5,0	1300	9,00	6,0	83	51	9,5	13,0	4,1	BW10.06.05
5,0	2350	9,00	8,0	87	51	11	15,0	5,5	●BW10.08.05
5,0	3500	9,00	9,5	91	51	12	19,0	7,2	▲BW10.95.05
6,0	2350	12,58	8,0	99	64	11	15,0	10,0	BW10.08.06
6,0	3500	12,58	9,5	104	64	12	19,0	11,3	BW10.95.06
6,0	4700	12,58	11,0	108	64	13	23,0	13,9	●BW10.11.06
6,0	5100	12,58	12,0	110	64	14	25,0	17,6	▲BW10.12.06
7,0	5100	14,20	12,0	119	70	14	25,0	18,1	BW10.12.07
7,0	5400	14,20	12,7	119	70	14	25,0	18,1	▲BW10.13.07
8,0	5100	16,00	12,0	136	83	14	25,0	21,6	BW10.12.08
8,0	5400	16,00	12,7	136	83	14	25,0	21,6	●BW10.13.08
14,0	7600	16,00	14,0	145	83	18	33,0	22,0	BW10.14.08
8,0	9600	16,00	16,0	145	83	18	33,0	25,5	▲BW10.16.08
10,0	7600	17,80	14,0	151	89	18	40,0	35,0	BW10.14.10
10,0	7600	17,80	14,0	149	89	22	38,0	36,0	BW10.14.10L
10,0	7600	17,80	16,0	151	89	18	33,0	35,0	●BW10.16.10
10,0	7600	17,80	14,0	149	89	22	31,0	36,0	BW10.16.10L
10,0	13000	17,80	19,0	168	89	24	50,5	52,4	BW10.19.10
12,0 Ⓔ	13000	20,00	19,0	187	105	30	48,0	66,0	BW10.19.12LⒺ
12,0 Ⓔ	19000	20,00	19,0	189	105	24	52,0	60,0	BW10.19.12 Ⓔ
12,0	13000	21,40	19,0	205	120	24	52,0	75,0	●BW10.19.12X
14,0	13000	25,00	19,0	221	140	30	48,0	75,0	BW10.19.14L
14,0	17000	25,00	22,0	232	140	30	57,0	112,7	●BW10.22.14
14,0	24000	25,00	25,4	235	140	30	62,0	125,0	BW10.25.14
16,0	24000	28,00	25,4	264	160	30	62,0	140,0	BW10.25.16

Note: All break loads are determined by clevis pin

● = recommended for yachting
▲= recommended for compacted strand

Ⓔtype terminal has unswaged outside diameter 20,0 mm.

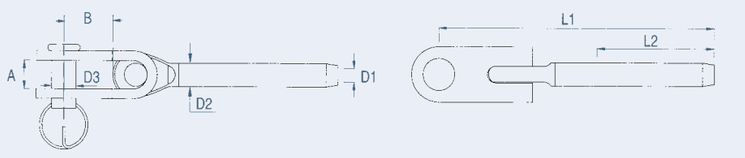




Toggle-Terminals AISI 316 Stainless Steel Highly Polished

ø Wire in mm	Breaking Load in kg	D2	D3 PIN	L1	L2	A	B	weight in kg/100 pcs.	**Ref. No.**
3,0	1300	6,35	6,35	81	38	10	16,0	4,3	BW50.06.03
4,0	2350	7,50	8,00	94	45	11	19,0	7,3	BW50.08.04
5,0	3500	9,00	9,50	116	51	13	25,0	13,8	BW50.95.05
6,0	4100	12,58	11,00	135	64	15	25,0	27,3	BW50.11.06X
6,0	6200	12,58	12,70	151	64	18	31,0	33,4	BW50.12.06X
7,0	6200	14,20	12,70	157	70	18	31,0	35,7	BW50.12.07X
8,0	6200	16,00	12,70	170	83	18	31,0	37,5	BW50.13.08
8,0	9800	16,00	15,90	198	83	20	37,0	59,7	BW50.16.08X
10,0	9800	17,80	15,90	192	89	20	37,0	64,3	BW50.16.10
10,0	13000	17,80	19,00	228	100	24	42,0	100,0	BW50.19.10X
12,0	13000	21,40	19,00	240	120	24	42,0	103,0	BW50.19.12X
14,0	17000	25,00	22,00	277	140	26	46,0	170,2	BW50.22.14
16,0	24000	28,00	25,40	313	160	29	53,0	265,5	BW50.25.16
19,0	25500	34,50	28,00	399	200	34	60,0	512,0	BW50.28.19
22,0	31000	40,40	32,00	463	230	40	70,0	570,0	BW50.32.22
26,0	43000	46,00	36,00	518	280	44	80,0	750,0	BW50.35.26

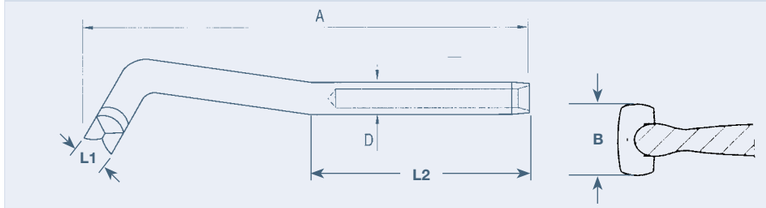
Note: All break loads are determined by clevis pin



WINNER 1220 vd stadt design

T-Terminals AISI 316 Stainless Steel Highly Polished

ø Wire in mm	L1	L2 Bore-Hole	A	B	D	weight in kg/100 pcs.	**Ref. No.**
2,0	6,30	32	83	15,0	5,50	1,5	BW61.00.02
2,5	6,30	32	83	15,0	5,50	1,5	BW61.00.25
3,0	6,30	38	88	15,0	6,35	2,0	BW61.00.03
4,0	7,50	45	101	16,5	7,50	4,0	BW61.00.04
5,0	9,00	51	112	18,5	9,00	6,5	BW61.00.05
6,0	12,58	64	138	27,5	12,58	15,0	BW61.00.06
7,0	14,20	80	144	29,0	14,20	17,0	BW61.00.07
8,0	16,00	83	184	34,0	16,00	31,5	BW61.00.08
10,0	17,80	89	208	35,5	17,80	34,5	BW61.00.10

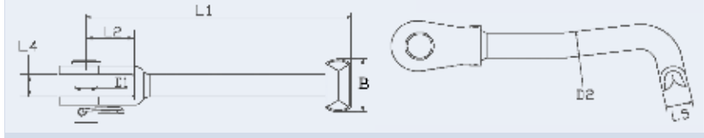


Backing Plates for T-Terminals, T-Forks and T-Rope Eyes: AISI 316 Stainless Steel

ø Wire in mm	A	B	C	D	weight in kg/100 pcs.	**Ref. No.**
2,0-3,0	50	12,5	15,0	7,0	0,5	BW61.61.03
4,0-5,0	88	26,0	26,0	9,5	3,5	BW61.61.05
6,0-7,0	123	32,0	38,0	15,0	9,0	BW61.61.07
8,0-10,0	151	41,0	38,0	19,0	23,0	BW61.61.10

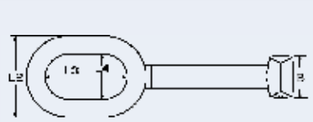
T-Forks AISI 316 Stainless Steel Highly Polished

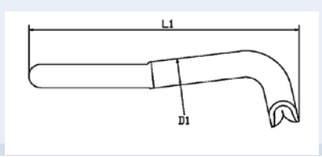
ø Wire in mm	L1	L2	B	L4	L5	D1	D2	weight in kg/100 pcs.	**Ref. No.**
3	83,5	13,0	15,0	9,50	6,35	6,0	6,35	3,8	BW61.34.06
4	93,0	15,0	16,5	11,00	7,50	8,0	7,50	7,4	BW61.34.08
5	104,5	19,0	18,5	12,00	9,00	9,5	9,00	11,5	BW61.34.95
6	130,0	25,5	27,5	14,00	12,58	12,0	12,58	22,3	BW61.34.12



T-Rope Eye AISI 316 Stainless Steel Highly Polished

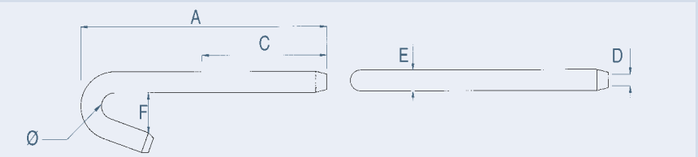
Dyna-one Size	Breaking Load in kg	L1	L2	L3	L4	D1	B	weight in kg/100 pcs.	**Ref. No.**
3	800	81,5	27	26,0	15,0	6,35	15,0	3,8	BW61.65.06
4	1800	85,0	27	26,0	15,0	7,50	16,5	4,1	BW61.65.07
5	2800	99,5	38	34,0	22,0	9,00	18,5	8,7	BW61.65.09
6	4100	109,0	38	34,0	22,0	12,58	27,5	10,2	BW61.65.12

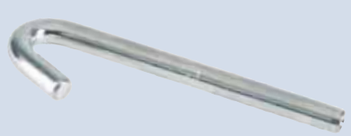




Hook-Terminals AISI 316 Stainless Steel Highly Polished

ø Wire in mm	A	C	D	E	F	ø Radius	weight in kg/100 pcs.	**Ref. No.**
2,5	68,5	32,0	2,8	6,35	12,0	8,0	1,9	BW63.00.25
3,0	73,0	38,0	3,5	6,35	12,0	8,0	2,0	BW63.00.03
4,0	90,0	45,0	4,4	7,50	18,0	11,5	3,3	BW63.00.04

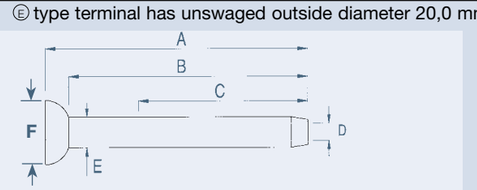


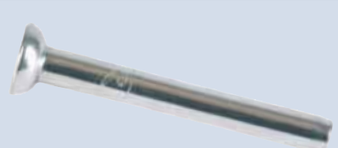


Stemball-Terminals AISI 316 Stainless Steel Highly Polished

ø Wire in mm	A	B	C	D	E	F	weight in kg/100 pcs.	**Ref. No.**
3,0	58	54	38	3,5	6,35	13,0	1,1	BW62.00.03
4,0	69	63	45	4,4	7,50	16,0	2,4	BW62.00.04
5,0	79	72	51	5,3	9,00	19,0	3,8	BW62.00.05
6,0	90	84	64	6,5	12,58	20,0	7,9	BW62.00.06
7,0	94	87	70	7,5	14,20	21,3	10,0	BW62.00.07
8,0	116	108	83	8,4	16,00	26,3	16,9	BW62.00.08
10,0	129	119	89	10,5	17,80	27,5	23,5	BW62.00.10
10,0	128	117	89	10,5	17,80	31,6	23,5	BW62.00.10A
12,0 Ⓔ	145	135	105	12,5	20,00	28,0	26,7	BW62.00.12Ⓔ
12,0 Ⓔ	150	138	105	12,5	20,00	35,6	26,7	BW62.00.12AⒺ
12,0	152	138	105	12,5	21,40	35,4	38,0	BW62.00.12XA
14,0	195	183	140	14,8	25,00	40,2	58,5	BW62.00.14A
16,0	210	199	160	17,0	28,00	44,6	71,6	BW62.00.16A

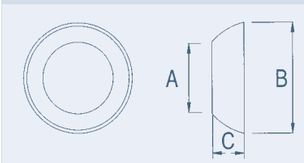
Ⓔ type terminal has unswaged outside diameter 20,0 mm.





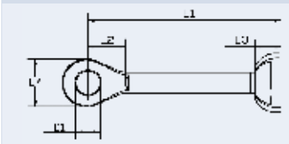
Cups AISI 316 Stainless Steel

ø Wire in mm	A	C	B	weight in kg/100 pcs.	**Ref. No.**
3-4	9,00	11,0	26,0	1,0	BW62.62.04
5	11,25	11,0	26,0	1,0	BW62.62.05
6-7	16,00	9,5	26,0	1,0	BW62.62.07
8-10-12 Ⓔ	20,00	12,0	34,0	1,5	BW62.62.12Ⓔ
12	22,00	12,0	34,0	1,5	BW62.62.12X



Stemball - Eye AISI 316 Stainless Steel Highly Polished

ø Wire in mm	L1	L2	L3	L4	L5	D1	D2	R	weight in kg/100 pcs.	**Ref. No.**
5	83,0	16,0	11,0	21,0	6,0	10,50	26	10	6,9	BW19.62.09.26
6	98,5	15,5	11,0	25,0	8,0	13,00	26	10	12,2	BW19.62.12.26
7	106,0	18,5	10,0	27,0	9,0	13,00	26	10	16,6	BW19.62.14.26
8	128,0	21,5	12,0	30,0	10,0	16,50	34	15	24,9	BW19.62.16.34

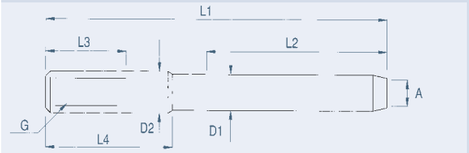


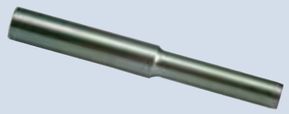
WINNER 1010 vd stadt design

BLUE WAVE®

Insidethread-Terminals AISI 316 Stainless Steel Highly Polished

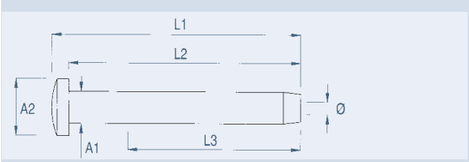
ø Wire in mm	L1	L2	L3	L4	D1	D2	A	G Metric	weight in kg/100 pcs.	**Ref. No. Right**	**Ref. No. Left**
2,5	64	32	15	25	5,50	5,50	2,8	M 4	0,8	BW98.25.04	BW99.25.04
3,0	77	38	20	30	6,35	7,13	3,5	M 5	1,3	BW98.03.05	BW99.03.05
3,0	92	38	35	45	6,35	7,13	3,5	M 5	1,6	BW98.03.05L	BW99.03.05L
4,0	84	45	20	30	7,50	8,00	4,4	M 6	1,8	BW98.04.06	BW99.04.06
4,0	99	45	35	45	7,50	8,00	4,4	M 6	2,1	BW98.04.06L	BW99.04.06L
5,0	90	51	20	30	9,00	9,00	5,3	M 6	2,8	BW98.05.06	BW99.05.06
5,0	105	51	35	45	9,00	9,00	5,3	M 6	3,2	BW98.05.06L	BW99.05.06L
5,0	112	51	40	53	9,00	12,58	5,3	M 8	5,4	BW98.05.08	BW99.05.08
6,0	110	64	25	35	12,58	12,58	6,5	M 8	7,2	BW98.06.08	BW99.06.08
6,0	126	64	40	50	12,58	12,58	6,5	M 8	8,2	BW98.06.08L	BW99.06.08L
6,0	127	64	40	53	12,58	16,00	6,5	M 10	10,5	BW98.06.10	BW99.06.10
8,0	140	83	40	50	16,00	16,00	8,4	M 10	15,4	BW98.08.10	BW99.08.10
8,0	147	83	40	53	16,00	18,00	8,4	M 12	16,7	BW98.08.12	BW99.08.12
10,0	150	89	40	50	17,80	17,80	10,5	M 12	19,4	BW98.10.12	BW99.10.12
10,0	152	89	40	53	17,80	22,00	10,5	M 16	20,7	BW98.10.16	BW99.10.16

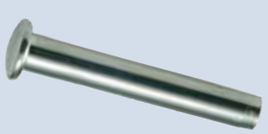




Domehead-Terminals AISI 316 Stainless Steel Highly Polished

ø Wire in mm	ø	L1	L2	L3	A1	A2	weight in kg/100 pcs.	**Ref. No. Left**
3,0	3,5	52,0	48,5	38	6,35	10,0	1,1	BW66.00.03
4,0	4,4	59,0	55,5	45	7,50	12,0	2,4	BW66.00.04
5,0	5,3	66,5	62,5	51	9,00	14,0	3,8	BW66.00.05
6,0	6,5	79,0	74,0	64	12,58	18,0	7,9	BW66.00.06



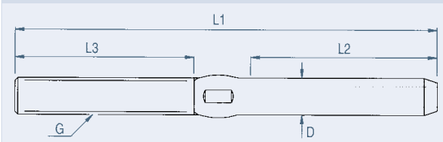


BLUE WAVE®

Thread-Terminals AISI 316 Stainless Steel

ø Wire in mm	Breaking Load in kg	L1	L2	L3	D	G Metric	weight in kg/100 pcs.	**Ref. No. Right**	**Ref. No. Left**
2,0	800	87	32	42	5,50	M 5	1,4	BW90.02.05	BW91.02.05
2,5	800	87	32	42	5,50	M 5	1,5	BW90.25.05	BW91.25.05
3,0	1300	100	38	48	6,35	M 6	2,0	BW90.03.06	BW91.03.06
4,0	1300	110	45	48	7,50	M 6	2,4	BW90.04.06	BW91.04.06
4,0	2350	117	45	57	7,50	M 8	3,0	BW90.04.08	BW91.04.08
5,0	2350	125	51	57	9,00	M 8	4,0	BW90.05.08	BW91.05.08
5,0	3500	130	51	63	9,00	M 10	4,5	BW90.05.10	BW91.05.10
6,0	3500	145	64	63	12,58	M 10	8,4	BW90.06.10	BW91.06.10
6,0	5100	162	64	80	12,58	M 12	11,0	BW90.06.12	BW91.06.12
7,0	5100	170	70	80	14,20	M 12	13,3	BW90.07.12	BW91.07.12
7,0	5900	180	70	89	14,20	M 14	16,0	BW90.07.14	BW91.07.14
8,0	5100	185	83	80	16,00	M 12	19,2	BW90.08.12	BW91.08.12
8,0	5900	194	83	89	16,00	M 14	20,0	BW90.08.14	BW91.08.14
8,0	8000	203	83	100	16,00	M 16	23,0	BW90.08.16	BW91.08.16
10,0	8000	210	89	100	17,80	M 16	35,0	BW90.10.16	BW91.10.16
10,0	13000	230	89	120	17,80	M 20	35,0	BW90.10.20	BW91.10.20
12,0 Ⓔ	13000	249	105	120	20,00	M 20	45,0	BW90.12.20Ⓔ	BW91.12.20Ⓔ
12,0	13000	265	120	120	21,40	M 20	50,0	BW90.12.20X	BW91.12.20X
14,0	17000	308	140	140	25,00	M 22	76,8	BW90.14.22	BW91.14.22
16,0	17000	333	160	140	28,00	M 22	97,8	BW90.16.22	BW91.16.22
16,0	23000	363	160	170	28,00	M 24	111,0	BW90.16.24	BW91.16.24
19,0	25900	425	200	180	34,50	M 27	209,0	BW90.19.27	BW91.19.27
22,0	31000	480	230	200	40,50	M 30	314,0	BW90.22.30	BW91.22.30
26,0	43000	550	280	220	46,00	M 36	470,0	BW90.26.36	BW91.26.36

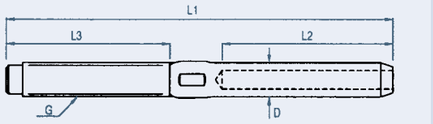
Note: All break loads are determined by thread
Ⓔtype terminal has unswaged outside diameter 20,0 mm.



Thread-Terminals AISI 316 Stainless Steel drilled for split pin

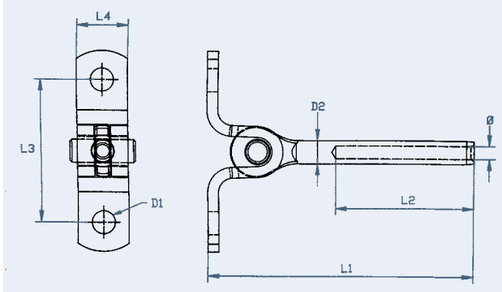
ø Wire in mm	Breaking Load in kg	G UNF	L1	L2	L3	D	weight in kg/100 pcs.	**Ref. No. Right**	**Ref. No. Left**
3,0	1300	1/4”	100	38	48	6,35	2,2	BW930306A	BW940306A
4,0	1300	1/4”	110	45	48	7,50	2,5	BW930406A	BW940406A
4,0	2350	5/16”	117	45	57	7,50	3,8	BW930408A	BW940408A
5,0	2350	5/16”	123	51	57	9,00	4,0	BW930508A	BW940508A
5,0	3500	3/8”	130	51	63	9,00	5,3	BW930510A	BW940510A
6,0	3500	3/8”	145	64	63	12,58	8,3	BW930610A	BW940610A
6,0	4700	7/16”	157	64	68	12,58	10,0	BW930611A	BW940611A
7,0	4700	7/16”	162	70	68	14,20	12,7	BW930711A	BW940711A
6,0	5400	1/2”	162	64	80	12,58	10,8	BW930612A	BW940612A
7,0	5400	1/2”	170	70	80	14,20	14,0	BW930712A	BW940712A
8,0	5400	1/2”	185	83	80	16,00	19,2	BW930812A	BW940812A
8,0	8000	5/8”	203	83	100	16,00	25,9	BW930816A	BW940816A
10,0	8000	5/8”	212	89	100	17,80	30,1	BW931016A	BW941016A
10,0	13000	3/4”	230	89	120	17,80	39,1	BW931020A	BW941020A
12,0	13000	3/4”	265	120	120	20,00	48,6	BW931220A Ⓔ	BW941220A Ⓔ
12,0	13000	3/4”	265	120	120	21,40	48,8	BW931220AX	BW941220AX
14,0	17000	7/8”	308	140	140	25,00	78,7	BW931422A	BW941422A
16,0	24000	1”	363	160	170	28,00	126,0	BW931625A	BW941625A
19,0	25500	1-1/8”	425	200	180	34,50	210,0	BW931927A	BW941927A
22,0	31000	1-1/4”	480	230	200	40,50	313,0	BW932230A	BW942230A
26,0	43000	1-3/8”	550	280	220	46,00	470,0	BW932636A	BW942636A

Note: All break loads are determined by thread
Ⓔ type terminal has unswaged outside diameter 20,0 mm



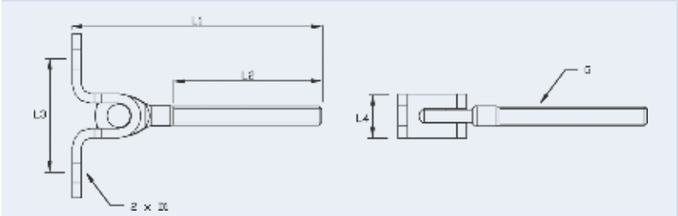
Wall Toggle Terminal AISI 316 Stainless Steel

ø Wire in mm	Breaking Load in kg	L1	L2	L3	L4	D1 ø	D2	weight in kg/100 pcs.	**Ref. No.**
3,0	1250	74	38	40	14	6,4	6,35	4,0	BW19.15.03
4,0	2350	87	45	44	18	8,3	7,50	6,5	BW19.15.04



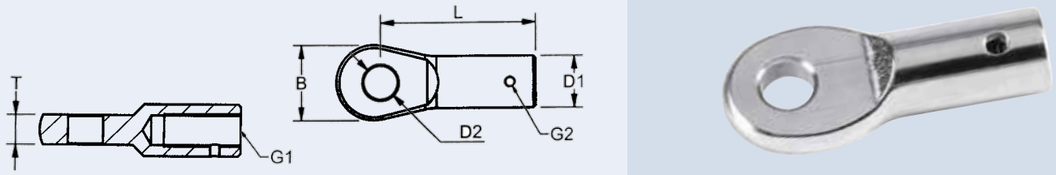
Threaded Wall Toggle (M left handed) AISI 316 Stainless Steel

Breaking Load in kg	G Metric	D1 ø	L4	L3	L1	L2	weight in kg/100 pcs.	**Ref. No. Left**
1250	M 6	6,4	14	40	81,0	47,0	3,8	BW03.15.14.06
2350	M 8	8,3	18	44	97,0	57,0	6,9	BW03.15.18.08



Inside Threaded Eyes right handed UNF

Breaking Load in kg	G1	G2	L	T	B	D1	D2	weight in kg/100 pcs.	**Ref. No.**
2350	5/16”	M4	41,0	5,0	17,0	14,0	8,5	46	BW511908A
3500	3/8”	M4	43,0	6,0	23,0	15,0	9,8	51	BW511910A
4700	7/16”	M4	58,0	8,0	24,0	18,0	11,2	97	BW511911A
5400	1/2”	M4	64,0	10,0	30,0	20,0	13,0	127	BW511912A
10000	5/8	M6	78,0	12,0	36,0	28,0	16,5	384	BW511916A
13000	3/4”	M6	90,0	16,0	43,0	30,0	19,5	466	BW511920A

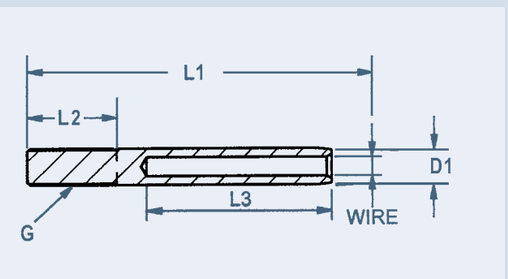


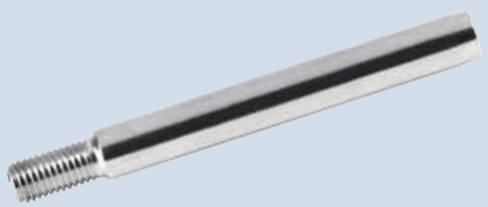
Short Thread Terminal (right handed UNF) AISI 316 Stainless Steel

ø Wire in mm	Breaking Load in kg	G UNF	D1	L1	L2	L3	weight in kg/100 pcs.	**Ref. No.**
5	2350	5/16”	9,00	81,0	15	51	28	BW510508A
5	3500	3/8”	9,00	82,0	20	51	31	BW510510A
6	4700	7/16”	12,58	104,0	30	64	70	BW510611A
6	5400	1/2”	12,58	104,0	30	64	79	BW510612A
7	5400	1/2”	14,20	115,0	30	70	85	BW510712A
8	5400	5/8”	16,00	123,0	30	83	152	BW510816A
10	8000	3/4”	17,80	155,0	40	89	202	BW511020A
12 Ⓔ	13000	3/4”	20,00	185,0	50	120	307	BW511220A Ⓔ

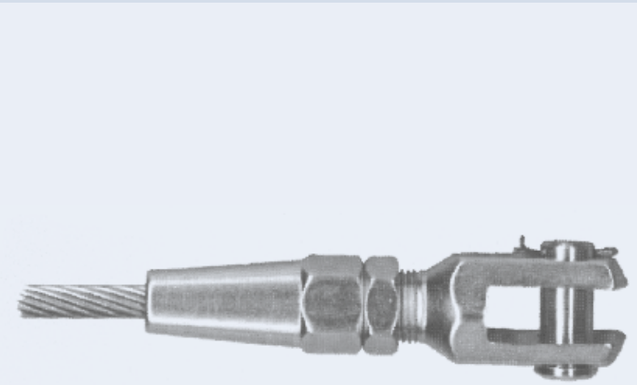
Note: All break loads are determined by thread

Ⓔtype terminal has unswaged outside diameter 20,0 mm





① First slide the jaw housing in place on the cable.
② Then slide the jaws onto the cable, ensuring there is some space between the jaw section.
③ Place the brass pressure ring on the end of the cable. Make sure that the distance from the pressure ring to the end of the cable end is **5 mm**④ Slide the jaw housing over the jaws.
⑤ The terminal can now be assembled. Screw the head **firmly** to the jaw housing with a spanner. Then tighten the lock nut **firmly** with a spanner.
⑥ Blue Wave recommends sealing with a non acidic sealing compound when assembling, Sikaflex-221, for example.
Disassemble the Terminal and fill the jaw housing and the cavity with sealing compound, then assemble the terminal. Repeat this until the sealing compound emerges from the hole through which the cable is inserted. Clean the terminal. **Do not reuse the jaws.**
Make sure that the dimensions of the terminal and cable match.

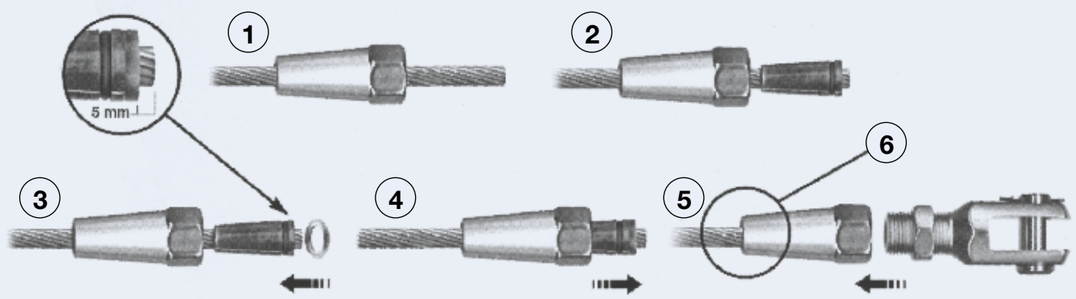


MAINTENANCE

Check the terminal regularly for damage in connection with longer exposure to concentrated saline solutions or polluted surroundings. Check the seal, if it is broken, remove all sealing compound. Then rinse the terminal with fresh water and treat it with WD40.
Reseal the terminal with non-acidic sealing compound.
After the first exposure to tensile stress the terminal should be re-tightened.

The terminal can be used with the following types of cable: 1x19, 7x19, 7x7, 6x36WS+|WRC, 18x7+|WRC and compacted strand.

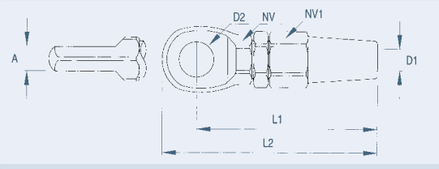
When Swageless Terminals are installed, the breaking strength of the cable used will be reduced by 0-15%.



Swageless Eye-Terminals AISI 316 Stainless Steel Highly Polished

D1 Wire in mm	Breaking Load in kg	A	L1	L2	D2	NV	NV1	weight in kg/100 pcs.	**Ref. No.**
3	750	5,5	50	58	6,3	10	12	4,0	BW82.19.03
4	1500	7,0	58	68	8,3	13	14	7,3	BW82.19.04
5	2180	8,0	70	81	10,3	14	16	9,8	BW82.19.05
6	3700	9,0	83	97	13,0	17	19	15,0	BW82.19.06
7	4700	9,0	89	105	13,0	18	22	21,2	BW82.19.07
8	5600	10,0	103	121	14,5	19	24	28,1	BW82.19.08
10	8300	13,0	116	135	16,2	24	27	46,0	BW82.19.10
12	12000	15,0	137	160	19,5	27	32	72,0	BW82.19.12
14	17000	18,0	159	185	22,0	30	36	110,0	BW82.19.14
16	23000	20,0	180	197	25,0	32	41	160,0	BW82.19.16

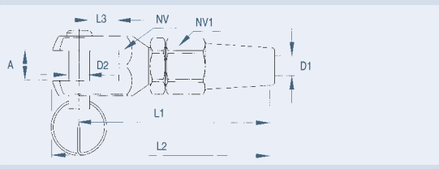
Note: All break loads are determined by wedges (jaws) and eye (D2)



Swageless Fork-Terminals AISI 316 Stainless Steel Highly Polished

D1 Wire in mm	Breaking Load in kg	A	L1	L2	L3	D2 PIN	NV	NV1	weight in kg/100 pcs.	**Ref. No.**
3	750	6	55	63	8	6	14	12	5,5	BW84.06.03
4	1500	8	62	73	8	8	19	14	9,0	BW84.08.04
5	2180	10	72	83	10	10	22	16	15,0	BW84.10.05
6	3700	12	82	95	12	12	27	19	23,0	BW84.12.06
7	4700	12	102	115	13	12	29	22	29,0	BW84.12.07
8	5600	14	103	118	14	14	30	24	38,0	BW84.14.08
10	8300	16	117	135	16	16	36	27	63,0	BW84.16.10
12	12000	18	142	162	16	19	42	32	97,0	BW84.19.12
14	17000	21	162	190	19	22	46	36	135,0	BW84.22.14
16	23000	23	184	217	22	25	55	41	215,0	BW84.25.16

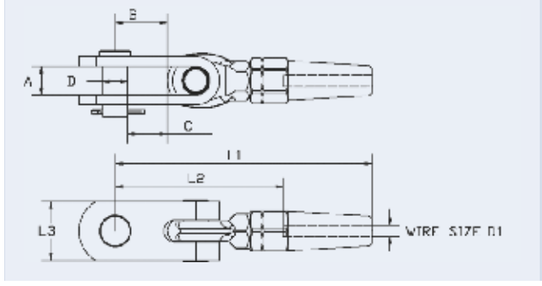
Note: All break loads are determined by wedges (jaws) and clevis pin



Swageless Toggle-Terminals AISI 316 Stainless Steel Highly Polished

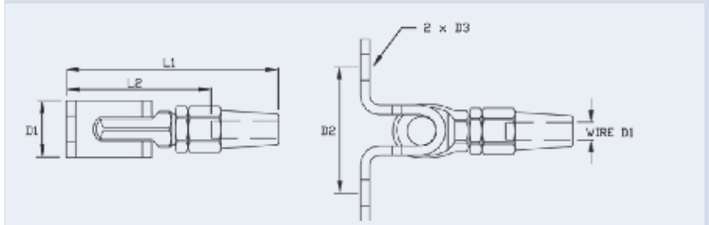
D1 Wire in mm	Breaking Load in kg	L1	L2	L3	A	B	C	D PIN	weight in kg/100 pcs.	**Ref. No.**
3,0	750	71	50	14	8	15,0	12,0	6,0	8,03	BW83.06.03
4,0	1500	90	61	18	10	19,0	15,0	8,0	11,25	BW83.08.04
5,0	2180	108	75	23	12	25,5	21,0	9,5	20,00	BW83.10.05
6,0	3700	125	88	30	15	28,5	23,0	11,0	32,70	BW83.11.06
7,0	4700	140	100	30	18	31,0	24,7	12,7	45,66	BW83.12.07
8,0	5600	148	102	30	18	30,0	23,7	12,7	49,73	BW83.12.08
10,0	8300	176	125	35	20	40,0	32,0	16,0	92,00	BW83.16.10
12,0	12000	206	138	40	24	45,5	36,0	19,0	124,40	BW83.19.12
14,0	17000	230	157	50	26	46,0	35,0	22,2	222,21	BW83.22.14
16,0	23000	261	180	60	29	53,0	40,0	25,4	334,91	BW83.25.16

Note: All break loads are determined by clevis pin and wedges.



Swageless Wall Toggle AISI 316 Stainless Steel Highly Polished

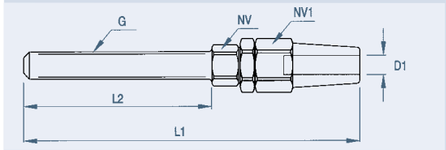
D1 Wire in mm	Breaking Load in kg	D1	D2	D3 ø	L1	L2	weight in kg/100 pcs.	**Ref. No.**
3,0	700	14	40	6,4	64	43	5,8	BW83.15.03
4,0	1500	18	44	8,3	79	50	9,2	BW83.15.04



Swageless-Terminals M Thread AISI 316 Stainless Steel Highly Polished

D1 Wire in mm	Breaking Load in kg	L1	L2	NV	NV1	G Metric	weight in kg/100 pcs.	Ref. No. Right	Ref. No. Left
3	750	79	42	10	12	M 5	4,2	BW80.03.05	BW81.03.05
3	750	85	47	10	12	M 6	4,5	BW80.03.06	BW81.03.06
4	1500	92	47	12	14	M 6	5,6	BW80.04.06	BW81.04.06
4	1500	102	57	12	14	M 8	6,6	BW80.04.08	BW81.04.08
5	2180	111	57	13	16	M 8	9,0	BW80.05.08	BW81.05.08
5	2180	117	63	13	16	M 10	10,0	BW80.05.10	BW81.05.10
6	3700	128	63	16	19	M 10	15,0	BW80.06.10	BW81.06.10
6	3700	145	80	16	19	M 12	17,0	BW80.06.12	BW81.06.12
7	4700	153	80	18	22	M 12	22,0	BW80.07.12	BW81.07.12
7	4700	162	89	18	22	M 14	25,0	BW80.07.14	BW81.07.14
8	5600	162	80	19	24	M 12	28,0	BW80.08.12	BW81.08.12
8	5600	171	89	19	24	M 14	31,0	BW80.08.14	BW81.08.14
8	5600	182	100	19	24	M 16	40,0	BW80.08.16	BW81.08.16
10	8300	190	100	24	27	M 16	48,0	BW80.10.16	BW81.10.16
12	12000	227	120	27	32	M 20	79,0	BW80.12.20	BW81.12.20
14	17000	264	140	30	36	M 22	124,0	BW80.14.22	BW81.14.22
16	23000	308	170	32	41	M 24	175,0	BW80.16.24	BW81.16.24

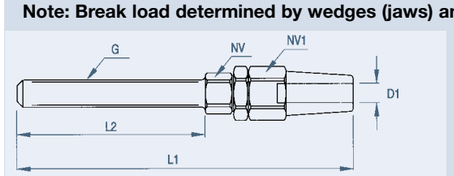
Note: Break load determined by wedges (jaws) and thread



Swageless-Terminals UNF Thread AISI 316 Stainless Steel Highly Polished (incl. split pin hole)

D1 Wire in mm	Breaking Load in kg	G UNF	L1	L2	NV	NV1	weight in kg/100 pcs.	Ref. No. Right
3	750	1/4	85	47	10	12	4,5	BW80.03.06A
4	1500	1/4	92	47	12	14	5,6	BW80.04.06A
4	1500	5/16	102	57	12	14	6,6	BW80.04.08A
5	2180	5/16	111	57	13	16	9,0	BW80.05.0
5	2380	3/8	117	63	13	16	10,0	8ABW80.05.10A
6	3700	3/8	128	63	16	19	15,0	BW80.06.10A
6	3700	7/16	133	68	16	19	15,0	BW80.06.11A
6	3700	1/2	145	80	16	19	17,5	BW80.06.12A
7	4700	1/2	162	80	18	22	17,5	BW80.07.12A
8	5600	1/2	162	80	19	24	19,5	BW80.08.12A
8	5600	5/8	182	100	19	24	31,5	BW80.08.16A
10	8300	5/8	190	100	24	27	47,2	BW80.10.16A
12	12000	3/4	227	120	27	32	79,0	BW80.12.20A
14	17000	7/8	264	140	30	36	124,0	BW80.14.22A
16	23000	1	308	170	32	41	175,0	BW80.16.25A

Note: Break load determined by wedges (jaws) and thread



■ Available with left handed thread on request.

Jaw and Ring Sets for Swageless Terminals

ø Wire rope in mm	Ref. No.
3,0	BW08.00.03
4,0	BW08.00.04
5,0	BW08.00.05
6,0	BW08.00.06
7,0	BW08.00.07
8,0	BW08.00.08
10,0	BW08.00.10
12,0	BW08.00.12
14,0	BW08.00.14
16,0	BW08.00.16

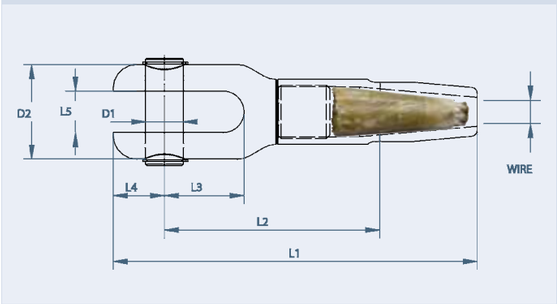
Spelter Fork Socket

ø Wire in mm	Breaking Load in kg	L1	L2	L3	L4	L5	D1	D2	weight in kg/100 pcs.	Ref. No.
19	25500	258	121	55	37	30	28	70	327	BW842819
22	31000	309	145	67	43	35	32	80	485	BW843222
26	43000	366	154	72	46	35	35	85	685	BW843526
32	76000	435	205	93	56	44	48	110	1405	BW844832

Note: All break loads are determined by clevis pin

■ Other sizes on request

This stainless steel spelter socket to be used with the well known and tested method of brooming the wire rope and glueing it in with wirelock® (ask for assemble instructions)

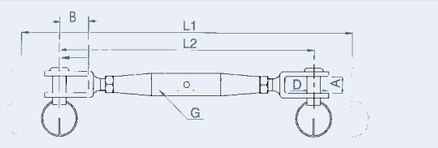


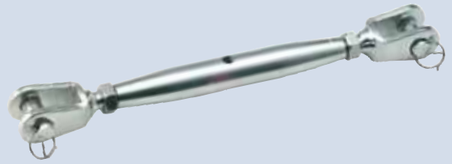
Fork-Fork Rigging Screws

Rigging Screws AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	G Metric	L1	L2	A	D PIN	B	weight in kg/100 pcs.	**Ref. No.**
800	M 5	180	126	7,5	5,0	12,0	5,1	BW12.00.05
1250	M 6	200	138	7,5	5,0	12,0	9,0	BW12.00.06
1300	M 6	202	140	9,5	6,0	13,0	14,0	BW12.00.06X
1300	M 8	234	158	9,5	6,0	13,0	15,0	BW12.00.08
2350	M 8	240	166	11,0	8,0	15,0	15,0	BW12.00.08X
2350	M 10	272	188	11,0	8,0	15,0	24,0	BW12.00.10
3500	M 10	280	196	12,0	9,5	19,0	26,0	BW12.00.10X
5100	M 12	350	244	14,0	12,0	25,0	52,5	BW12.00.12
5900	M 14	387	267	14,0	12,0	25,0	63,5	BW12.00.14
5900	M 14	403	283	18,0	14,0	33,0	63,5	BW12.00.14X
8000	M 16	442	309	22,0	14,0	31,0	100,0	BW12.00.16L
8000	M 16	446	313	18,0	14,0	33,0	100,0	BW12.00.16
8000	M 16	446	313	18,0	16,0	33,0	100,0	BW12.00.16X
13000	M 20	546	386	30,0	19,0	50,5	197,0	BW12.00.20L
13000	M 20	550	390	24,0	19,0	50,5	197,0	BW12.00.20
17000	M 22	653	472	30,0	22,0	57,5	430,0	BW12.00.22✱
20000	M 24	769	536	30,0	25,4	62,5	638,0	BW12.00.24

Note: All break loads are determined by clevis pin and thread
✱ Bodies with bronze inserts

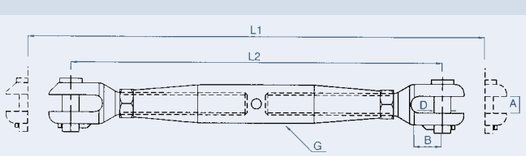


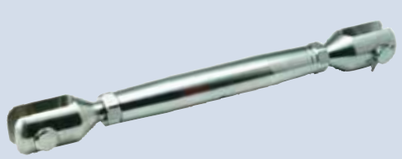


Machined Rigging Screws AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	G Metric	L1	L2	B	A	D PIN	weight in kg/100 pcs.	**Ref. No.**
13000	M 20	619	453	45	20	19	330	BW74.00.20✱
17000	M 22	637	456	49	22	22	892	BW74.00.22✱
20000	M 24	763	530	52	25	25	1193	BW74.00.24✱
25500	M 27	813	578	55	30	28	1803	BW74.00.27✱
31000	M 30	918	656	67	35	32	2614	BW74.00.30✱
43000	M 36	970	696	67	35	35	3390	BW74.00.36✱

Note: All break loads are determined by clevis pin and thread
✱ Bodies with bronze inserts



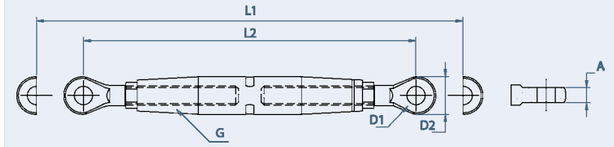


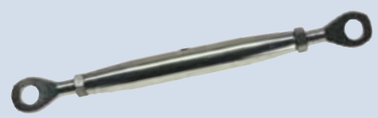
Eye-Eye Rigging Screws | Fork-Eye Rigging Screws

Eye-Eye Rigging Screws AISI 316 Stainless Steel highly polished

Breaking Load in kg	G Metric	L1	L2	D1	A	D2	weight in kg/100 pcs.	**Ref. No.**
800	M 5	190	131	5,5	3	12	3,5	BW19.19.05
1300	M 6	204	136	6,5	4	14	10,7	BW19.19.06
2350	M 8	244	164	8,5	5	17	14,4	BW19.19.08
3500	M 10	270	187	10,5	6	22	22,9	BW19.19.10
5100	M 12	334	226	13,0	8	25	37,8	BW19.19.12
5900	M 14	376	257	13,0	9	28	51,0	BW19.19.14
8000	M 16	408	279	14,5	10	31	72,5	BW19.19.16
13000	M 20	488	334	19,5	15	40	104,5	BW19.19.20
17000	M 22	597	416	23,0	18	47	354,0	BW19.19.22✱
20000	M 24	713	480	26,0	20	53	670,0	BW19.19.24
27000	M 27	759	527	28,5	25	65	710,0	BW19.19.27✱
31000	M 30	861	581	33,0	30	70	991,0	BW19.19.30✱
43000	M 36	892	618	36,0	30	80	1288,0	BW19.19.36✱

Note: All break loads are determined by thread and pin size
✱ Bodies with bronze inserts

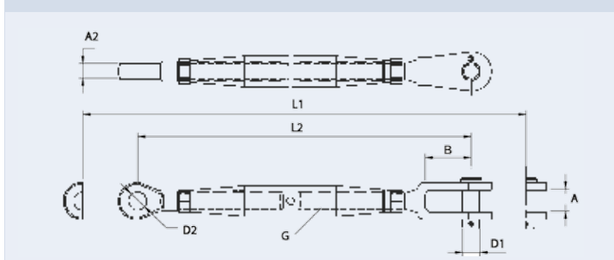


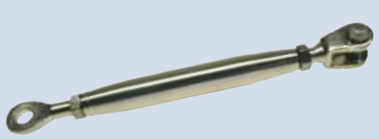


Fork-Eye Rigging Screws AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	G Metric	L1	L2	A	A2	B	D1 PIN	D2	weight in kg/100 pcs.	**Ref. No.**
800	M 5	188	129	7,5	3	12,0	5,0	5,5	4,2	BW19.12.05
1300	M 6	206	138	7,5	4	12,0	5,0	6,5	6,3	BW19.12.06
2350	M 8	244	164	9,5	5	13,0	6,0	8,5	13,0	BW19.12.08
3500	M 10	271	188	11,0	6	15,0	8,0	10,5	21,9	BW19.12.10
5100	M 12	343	235	14,5	8	25,0	12,0	13,0	44,0	BW19.12.12
5900	M 14	381	262	14,5	9	25,0	12,0	13,0	60,0	BW19.12.14
8000	M 16	426	296	18,0	10	33,0	14,0	14,5	85,6	BW19.12.16
13000	M 20	518	364	24,0	15	50,0	19,0	19,5	169,3	BW19.12.20
17000	M 22	625	444	30,0	18	57,0	22,0	23,0	398,5	BW19.12.22✱
20000	M 24	741	508	30,0	20	62,0	25,4	26,0	580,0	BW19.12.24✱

Note: All break loads are determined by clevis pin and thread
✱ Bodies with bronze inserts



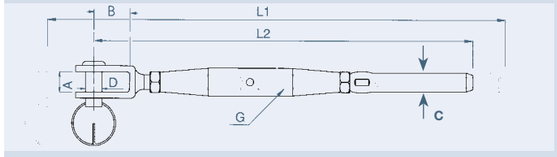


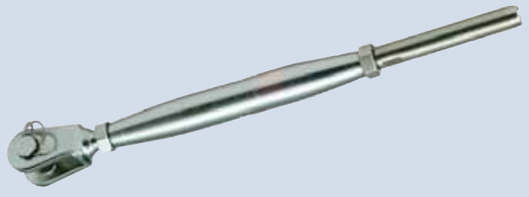
BLUE WAVE®

Rigging Screws AISI 316 Stainless Steel highly polished

ø Wire in mm	Breaking Load in kg	G Metric	L1	L2	A	D PIN	B	C	weight in kg/100 pcs.	Ref. No.
2,0	800	M 5	206	152	7,5	5,0	12,0	5,50	4,5	BW12.02.05
2,5	800	M 5	206	152	7,5	5,0	12,0	5,50	4,6	BW12.25.05
3,0	1250	M 6	232	170	7,5	5,0	12,0	6,35	8,5	BW12.03.06
3,0	1300	M 6	233	171	9,5	6,0	13,0	6,35	8,5	BW12.03.06X
4,0	1250	M 6	242	180	7,5	5,0	12,0	7,50	8,7	BW12.04.06
4,0	1300	M 6	242	180	9,5	6,0	13,0	7,50	9,1	BW12.04.06X
4,0	1300	M 8	275	199	9,5	6,0	13,0	7,50	13,0	BW12.04.08
4,0	2350	M 8	277	201	11,0	8,0	16,0	7,50	13,0	BW12.04.08X
5,0	1300	M 8	281	205	9,5	6,0	13,0	9,00	13,2	BW12.05.08
5,0	2350	M 8	284	208	11,0	8,0	15,0	9,00	14,8	BW12.05.08X
5,0	2350	M 10	312	228	11,0	8,0	16,0	9,00	22,5	BW12.05.10
5,0	3500	M 10	316	232	12,0	9,5	19,0	9,00	22,5	BW12.05.10X
6,0	2350	M 10	327	243	11,0	8,0	16,0	12,58	25,6	BW12.06.10
6,0	3500	M 10	330	250	12,0	9,5	19,0	12,58	27,4	BW12.06.10X
6,0	5100	M 12	393	287	14,0	12,0	25,0	12,58	47,5	BW12.06.12
7,0	5100	M 12	401	295	14,0	12,0	25,0	14,20	50,0	BW12.07.12
7,0	5900	M 14	439	319	14,0	12,0	25,0	14,20	58,0	BW12.07.14
7,0	5900	M 14	453	335	18,0	14,0	33,0	14,20	68,8	BW12.07.14X
8,0	5100	M 12	416	310	14,0	12,0	25,0	16,00	53,5	BW12.08.12
8,0	5900	M 14	453	333	14,0	12,0	25,0	16,00	63,5	BW12.08.14
8,0	8000	M 16	499	366	18,0	14,0	33,0	16,00	89,5	BW12.08.16
8,0	8000	M 16	497	364	22,0	14,0	30,0	16,00	89,5	BW12.08.16L
8,0	8000	M 16	499	366	18,0	16,0	33,0	16,00	89,5	BW12.08.16X
10,0	8000	M 16	506	373	18,0	14,0	33,0	17,80	93,0	BW12.10.16
10,0	8000	M 16	504	371	22,0	14,0	33,0	17,80	93,0	BW12.10.16L
10,0	8000	M 16	510	376	18,0	16,0	33,0	17,80	93,0	BW12.10.16X
10,0	13000	M 20	587	427	24,0	19,0	50,0	17,80	170,1	BW12.10.20
12,0 Ⓔ	13000	M 20	606	446	24,0	19,0	50,0	20,00	170,1	BW12.12.20 Ⓔ
12,0	13000	M 20	622	462	24,0	19,0	50,0	21,40	170,1	BW12.12.20X
14,0	17000	M 22	736	555	30,0	22,0	57,0	25,00	452,0	BW12.14.22✱
14,0	20000	M 24	846	613	30,0	25,4	60,5	25,00	642,0	BW12.14.24
16,0	17000	M 22	696	588	30,0	22,0	57,0	28,00	490,0	BW12.16.22✱
16,0	20000	M 24	874	641	30,0	25,4	60,5	28,00	662,0	BW12.16.24

Note: All break loads are determined by clevis pin and thread
✱ Bodies with bronze inserts
Ⓔ type terminal has unswaged outside diameter 20,0 mm.



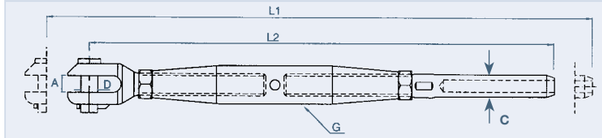


BLUE WAVE®

Machined Fork-Stud Rigging Screws AISI 316 Stainless Steel highly polished

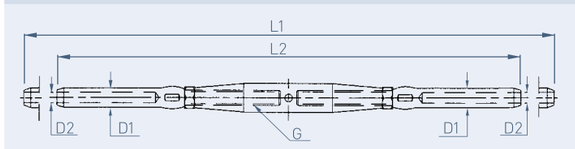
Breaking Load in kg	ø Wire in mm	G Metric	L1	L2	A	D PIN	C	weight in kg/100 pcs.	Ref. No. Left
13000	12,0	M 20	646	492	20	19	21,4	240	BW74.12.20X✱
17000	14,0	M 22	720	540	22	22	25,0	649	BW74.14.22✱
17000	16,0	M 22	745	565	22	22	28,0	670	BW74.16.22✱
20000	16,0	M 24	863	630	25	25	28,0	876	BW74.16.24✱
25500	19,0	M 27	963	728	30	28	34,5	1332	BW74.19.27✱
31000	22,0	M 30	1082	820	35	32	40,5	1888	BW74.22.30✱
43000	26,0	M 36	1186	912	35	35	46,0	2484	BW74.26.36✱

Note: All break loads are determined by clevis pin and thread
✱ Bodies with bronze inserts



Stud-Stud Rigging Screws AISI 316 Stainless Steel highly polished

ø Wire in mm	Breaking Load in kg	G Metric	D1	L1	L2	weight in kg/100 pcs.	Ref. No.
2,0	800	M 5	5,50	239	178	3,8	BW12.02.05T
2,5	800	M 5	5,50	239	178	3,6	BW12.25.05T
3,0	1250	M 6	6,35	274	204	6,3	BW12.03.06T
4,0	1250	M 6	7,50	284	214	7,5	BW12.04.06T
4,0	2350	M 8	7,50	312	242	12,6	BW12.04.08T
5,0	2350	M 8	9,00	328	258	14,6	BW12.05.08T
5,0	3500	M 10	9,00	350	267	20,8	BW12.05.10T
6,0	3500	M 10	12,58	380	297	21,4	BW12.06.10T
6,0	5100	M 12	12,58	410	327	42,4	BW12.06.12T
7,0	5100	M 12	14,20	454	346	47,4	BW12.07.12T
7,0	5900	M 14	14,20	488	369	56,6	BW12.07.14T
8,0	5100	M 12	16,00	490	382	55,2	BW12.08.12T
8,0	5600	M 14	16,00	521	402	65,0	BW12.08.14T
8,0	8000	M 16	16,00	548	418	82,7	BW12.08.16T
10,0	8000	M 16	17,80	566	436	86,8	BW12.10.16T
10,0	13000	M 20	17,80	620	466	135,2	BW12.10.20T
12,0 Ⓔ	13000	M 20	20,00	658	504	148,8	BW12.12.20T Ⓔ
12,0	13000	M 20	21,40	658	504	151,7	BW12.12.20XT
14,0	17000	M 22	25,00	820	639	377,8	BW12.14.22T✱
16,0	17000	M 22	25,00	870	689	378,0	BW12.16.22T
16,0	20000	M 24	28,00	979	746	553,2	BW12.16.24T
19,0	27000	M 27	34,50	1114	879	801,2	BW12.19.27T✱
22,0	31000	M 30	40,50	1245	983	1178,6	BW12.22.30T✱
26,0	43000	M 36	46,00	1402	1128	1588,8	BW12.26.36T✱



Note: All break loads are determined by thread
✱ Bodies with bronze inserts
Ⓔ type terminal has unswaged outside diameter 20,0 mm.

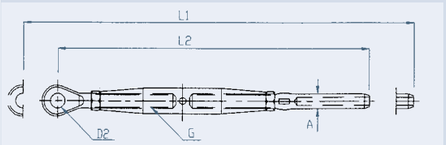
Rigging Screws Stud-eye

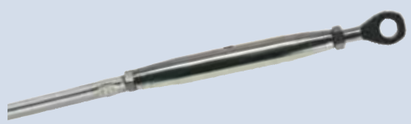
BLUE WAVE®

Rigging Screws Stud-Eye AISI 316 Stainless Steel

ø Wire in mm Metric	Breaking Load in kg	G Metric	L1	L2	A	D2	weight in kg/100 pcs.	Ref. No.
2,0	800	M 5	213	151	5,50	5,5	3,7	BW19.02.05
2,5	800	M 5	213	151	5,50	5,5	3,4	BW19.25.05
3,0	1300	M 6	234	166	6,35	6,5	6,3	BW19.03.06
4,0	1300	M 6	244	176	7,50	6,5	6,7	BW19.04.06
4,0	2350	M 8	282	202	7,50	8,5	12,4	BW19.04.08
5,0	2350	M 8	288	208	9,00	8,5	13,4	BW19.05.08
5,0	3500	M 10	311	227	9,00	10,5	19,5	BW19.05.10
6,0	3500	M 10	326	242	12,58	10,5	23,4	BW19.06.10
6,0	5400	M 12	379	271	12,58	13,0	38,5	BW19.06.12
7,0	5400	M 12	387	279	14,20	13,0	40,8	BW19.07.12
7,0	5600	M 14	432	314	14,20	13,0	46,7	BW19.07.14
8,0	5400	M 12	400	292	16,00	13,0	51,1	BW19.08.12
8,0	5600	M 14	446	328	16,00	13,0	55,1	BW19.08.14
8,0	7600	M 16	478	350	16,00	14,5	74,6	BW19.08.16
10,0	7600	M 16	495	367	17,80	14,5	86,6	BW19.10.16
10,0	13000	M 20	553	405	17,80	19,3	126,9	BW19.10.20
12,0 Ⓔ	13000	M 20	573	419	20,00	19,5	136,9	BW19.12.T20Ⓔ
12,0	13000	M 20	599	435	21,40	19,5	152,8	BW19.12.T20X
14,0	17000	M 22	708	527	25,00	23,0	163,8	BW19.14.22X✱
16,0	20000	M 24	846	613	28,00	26,0	233,6	BW19.16.24X
19,0	27000	M 27	934	702	34,50	29,0	394,0	BW19.19.27X✱
22,0	31000	M 30	1057	777	40,50	33,0	1090,4	BW19.22.30X✱
26,0	43000	M 36	1150	873	46,00	36,0	1446,8	BW19.26.36X✱

Note: All break loads are determined by thread and pin size
✱ Bodies with bronze inserts
Ⓔtype terminal has unswaged outside diameter 20,0 mm.





Bodies

BLUE WAVE®

Stainless Steel Bodies AISI 316 Stainless Steel Highly Polished

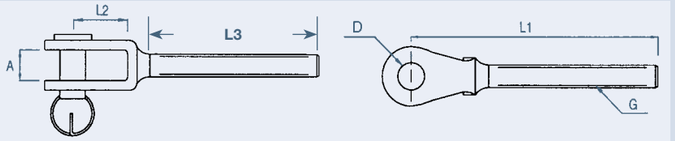
Breaking Load in kg	G Metric	L1	D1	KW	weight in kg/100 pcs.	Ref. No.
800	M 5	80	8,0	-	1,3	BW01.12.05
1300	M 6	92	10,0	-	2,5	BW01.12.06
2350	M 8	112	13,5	-	5,8	BW01.12.08
3500	M 10	120	17,2	-	8,8	BW01.12.10
5100	M 12	150	21,3	-	16,0	BW01.12.12
5900	M 14	170	21,3	-	17,9	BW01.12.14
8000	M 16	190	26,9	-	28,1	BW01.12.16
13000	M 20	220	33,7	-	50,3	BW01.12.20
13000	M 20	240	40,0	36	53,0	BW01.23.20✱
17000	M 22	270	45,0	41	288,5	BW01.23.22✱
20000	M 24	320	43,0	-	340,0	BW01.12.24
23000	M 24	325	50,0	46	384,2	BW01.23.24✱
27000	M 27	345	55,0	50	507,0	BW01.23.27✱
31000	M 30	375	60,0	55	637,0	BW01.23.30✱
43000	M 36	410	65,0	60	751,0	BW01.23.36✱

Note: All break loads are determined by thread
✱Bodies with bronze inserts

Welded Threaded Forks AISI 316 Stainless Steel Highly Polished (incl. clevis pin)

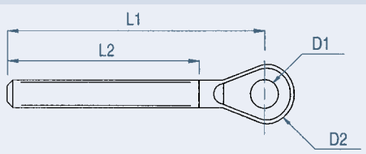
Breaking Load in kg	G Metric	A	D PIN	L1	L2	L3	weight in kg/100 pcs.	**Ref. No. Right**	**Ref. No. Left**
800	M 5	7,5	5,0	60,0	12,0	41,0	1,9	BW02.12.05B	BW03.12.05B
1000	M 6	7,5	5,0	67,0	12,0	47,0	2,3	BW02.12.06B	BW03.12.06B
1300	M 6	9,5	6,0	68,0	13,0	47,0	2,8	BW02.12.06XB	BW03.12.06XB
1300	M 8	10,0	6,0	79,0	13,0	57,0	3,9	BW02.12.08B	BW03.12.08B
2350	M 8	11,0	8,0	82,0	15,0	57,0	5,5	BW02.12.08XB	BW03.12.08XB
2350	M 10	11,0	8,0	90,0	15,0	63,0	6,9	BW02.12.10B	BW03.12.10B
3500	M 10	12,0	9,5	94,0	19,0	63,0	8,7	BW02.12.10XB	BW03.12.10XB
5100	M 12	14,0	12,0	119,0	25,0	80,0	17,0	BW02.12.12B	BW03.12.12B
5100	M 12	18,0	14,0	129,0	33,0	80,0	26,3	BW02.12.12XB	BW03.12.12XB
5100	M 14	14,0	12,0	137,0	25,0	90,0	28,2	BW02.12.14B	BW03.12.14B
5900	M 14	14,0	14,0	137,0	33,0	86,0	30,1	BW02.12.14XB	BW03.12.14XB
8000	M 16	18,0	14,0	151,0	33,0	100,0	35,2	BW02.12.16B	BW03.12.16B
8000	M 16	18,0	16,0	151,0	33,0	100,0	37,3	BW02.12.16XB	BW03.12.16XB
13000	M 20	24,0	19,0	191,0	50,5	119,0	71,9	BW02.12.20B	BW03.12.20B
17000	M 22	30,0	22,0	224,5	57,5	140,0	120,1	BW02.12.22B	BW03.12.22B
20000	M 24	30,0	25,4	258,0	62,5	170,0	180,0	BW02.12.24B	BW03.12.24B

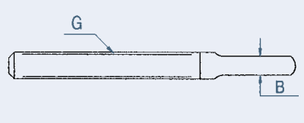
Note: All break loads are determined by clevis pin and thread



Threaded Eyes AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	G Metric	D1	D2	L1	L2	B	Min. packing pcs.	weight in kg/100 pcs.	**Ref. No. Right**	**Ref. No. Left**
800	M 5	5,5	12,0	63,0	41,0	3,0	25	0,9	BW02.19.05	BW03.19.05
1250	M 6	6,5	14,0	65,0	47,0	4,0	25	1,5	BW02.19.06	BW03.19.06
2000	M 8	8,5	17,0	78,0	57,0	5,0	10	3,1	BW02.19.08	BW03.19.08
3500	M 10	10,5	22,0	90,0	63,0	6,0	10	5,1	BW02.19.10	BW03.19.10
5100	M 12	13,0	25,0	110,0	80,0	8,0	10	10,1	BW02.19.12	BW03.19.12
5900	M 14	13,0	28,0	124,0	90,0	9,0	5	14,1	BW02.19.14	BW03.19.14
8000	M 16	14,5	31,0	133,0	100,0	10,0	5	20,4	BW02.19.16	BW03.19.16
13000	M 20	19,5	40,0	164,0	120,0	15,0	5	40,6	BW02.19.20	BW03.19.20
17000	M 22	23,0	46,0	196,0	140,0	18,0	1	69,0	BW02.19.22X	BW03.19.22X
20000	M 24	26,0	53,0	230,0	170,0	20,0	1	105,0	BW02.19.24X	BW03.19.24X
25500	M 27	28,5	65,0	247,0	180,0	25,0	1	153,0	BW02.19.27X	BW03.19.27X
31000	M 30	33,0	70,0	274,0	200,0	30,0	1	204,0	BW02.19.30X	BW03.19.30X
43000	M 36	36,0	80,0	295,0	220,0	30,0	1	296,0	BW02.19.36X	BW03.19.36X



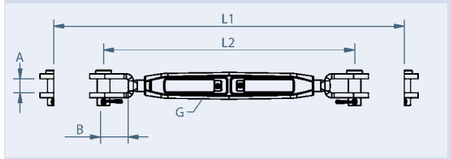


Note: All break loads are determined by thread

Rigging screws Chromed Bronze Body AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	G UNF	L1	L2	A	D PIN	B	weight in kg/100 pcs.	**Ref. No.**
1300	1/4"	205	143	9,5	6,35	13,0	12,0	BW13.00.06A
2350	5/16"	244	168	11,0	8,00	15,0	16,0	BW13.00.08A
3500	3/8"	299	197	12,0	9,50	19,0	25,0	BW13.00.10A
4700	7/16"	312	222	12,0	11,00	23,0	35,0	BW13.00.11A
5400	1/2"	358	248	14,0	12,70	25,0	63,5	BW13.00.12A
8000	5/8"	450	312	18,0	16,00	33,0	121,0	BW13.00.16AX
13000	3/4"	562	392	24,0	19,00	50,5	218,0	BW13.00.20A
17000	7/8"	753	559	26,0	22,00	57,5	316,0	BW13.00.22A
24000	1"	888	648	29,0	25,40	62,0	490,0	BW13.00.25A

Note: All break loads are determined by clevis pin and thread



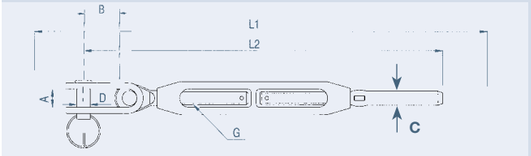
Chromed Bronze Body Rigging Screws Toggle Stud | Toggle Fork

BLUE WAVE®

Rigging Screws Chromed Bronze Body AISI 316 Stainless Steel Highly Polished

ø Wire in mm	Breaking Load in kg	G UNF	L1	L2	A	D PIN	B	C	weight in kg/100 pcs.	Ref. No.
3,0	1300	1/4”	255	193	8,0	6,35	16,0	6,35	12,7	BW33.03.06A
4,0	1300	1/4”	265	203	8,0	6,35	16,0	7,50	12,8	BW33.04.06A
4,0	2350	5/16”	304	228	10,0	8,00	20,0	7,50	17,4	BW33.04.08A
5,0	2350	5/16”	310	234	10,0	8,00	20,0	9,00	18,5	BW33.05.08A
5,0	3500	3/8”	349	265	12,0	9,50	24,0	9,00	28,2	BW33.05.10A
6,0	3500	3/8”	364	280	12,0	9,50	24,0	12,58	32,5	BW33.06.10A
6,0	4700	7/16”	397	307	15,0	11,00	28,0	12,58	47,5	BW33.06.11AX
7,0	4700	7/16”	408	318	15,0	11,00	28,0	14,20	47,5	BW33.07.11AX
6,0	5400	1/2”	425	319	18,0	12,70	31,0	12,58	74,0	BW33.06.12AX
7,0	5400	1/2”	433	327	18,0	12,70	31,0	14,20	77,0	BW33.07.12AX
8,0	5400	1/2”	448	342	18,0	12,70	31,0	16,00	82,0	BW33.08.12AX
8,0	8000	5/8”	536	404	20,0	16,00	37,0	16,00	126,0	BW33.08.16AX
10,0	8000	5/8”	545	413	20,0	16,00	37,0	17,80	135,0	BW33.10.16AX
10,0	13000	3/4”	625	465	24,0	19,00	40,0	17,80	190,0	BW33.10.20AX
12,0 Ⓔ	13000	3/4”	640	480	24,0	19,00	40,0	20,00	200,0	BW33.12.20AXⒺ
12,0	13000	3/4”	660	500	24,0	19,00	40,0	21,40	200,0	BW33.12.20AXX
12,0	17000	7/8”	786	592	26,0	22,00	46,0	21,40	309,0	BW33.12.22AX
14,0	17000	7/8”	794	600	26,0	22,00	46,0	25,00	311,0	BW33.14.22AX
14,0	24000	1”	932	692	29,0	25,40	53,0	25,00	505,0	BW33.14.25AX
16,0	24000	1”	940	700	29,0	25,40	53,0	28,00	512,0	BW33.16.25AX

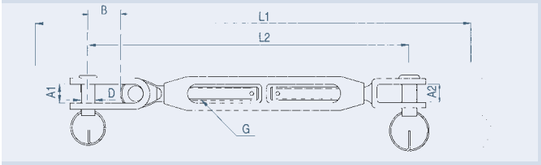
Note: All break loads are determined by clevis pin and thread
Ⓔtype terminal has unswaged outside diameter 20,0 mm.



Rigging Screws Chromed Bronze Body AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	G UNF	L1	L2	A1	A2	D PIN	B	weight in kg/100 pcs.	Ref. No.
1300	1/4”	225	163	8,0	9,5	6,35	16,0	12,8	BW33.00.06A
2350	5/16”	268	192	10,0	11,0	8,00	20,0	20,5	BW33.00.08A
3500	3/8”	313	229	12,0	12,0	9,50	24,0	32,5	BW33.00.10A
4700	7/16”	350	260	15,0	12,0	11,00	28,0	54,0	BW33.00.11AX
5400	1/2”	382	276	18,0	14,0	12,70	31,0	80,0	BW33.00.12AX
8000	5/8”	491	359	20,0	18,0	16,00	37,0	137,0	BW33.00.16AX
13000	3/4”	586	426	24,0	24,0	19,00	40,0	228,0	BW33.00.20AX
17000	7/8”	710	516	26,0	30,0	22,00	46,0	410,0	BW33.00.22AX
24000	1”	835	595	29,0	30,0	25,40	53,0	575,0	BW33.00.25AX

Note: All break loads are determined by clevis pin and thread



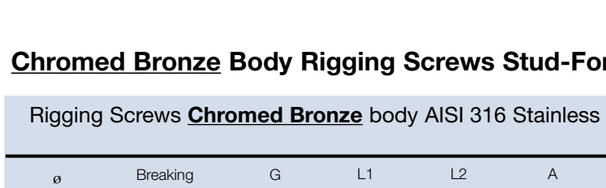
Chromed Bronze Body Rigging Screws Stud-Fork | Bodies

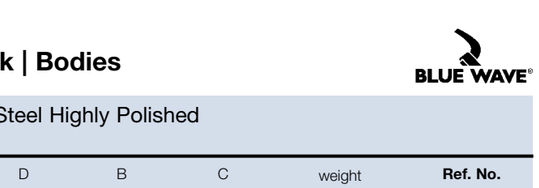
BLUE WAVE®

Rigging Screws Chromed Bronze body AISI 316 Stainless Steel Highly Polished

ø Wire in mm	Breaking Load in kg	G UNF	L1	L2	A	D PIN	B	C	weight in kg/100 pcs.	Ref. No.
3,0	1300	1/4”	236	174	9,5	6,35	13,0	6,35	10,7	BW13.03.06A
4,0	1300	1/4”	246	184	9,5	6,35	13,0	7,50	11,0	BW13.04.06A
4,0	2350	5/16”	280	204	11,0	8,00	15,0	7,50	14,5	BW13.04.08A
5,0	2350	5/16”	286	210	11,0	8,00	15,0	9,00	15,5	BW13.05.08A
5,0	3500	3/8”	317	233	12,0	9,50	19,0	9,00	23,2	BW13.05.10A
6,0	3500	3/8”	332	248	12,0	9,50	19,0	12,58	26,2	BW13.06.10A
6,0	4700	7/16”	365	275	12,0	11,00	23,0	12,58	36,5	BW13.06.11A
7,0	4700	7/16”	370	280	12,0	11,00	23,0	14,20	34,5	BW13.07.11A
6,0	5400	1/2”	397	291	14,0	12,70	25,0	12,58	55,0	BW13.06.12A
7,0	5400	1/2”	405	299	14,0	12,70	25,0	14,20	55,5	BW13.07.12A
8,0	5400	1/2”	420	314	14,5	12,70	25,0	16,60	62,5	BW13.08.12A
8,0	8000	5/8”	496	364	18,0	16,00	33,0	16,00	109,5	BW13.08.16AX
10,0	8000	5/8”	505	373	18,0	14,00	33,0	17,80	114,0	BW13.10.16A
10,0	13000	3/4”	591	431	24,0	19,00	50,5	17,80	191,0	BW13.10.20A
12,0 Ⓔ	13000	3/4”	606	446	24,0	19,00	50,5	20,00	194,0	BW13.12.20AⒺ
12,0	13000	3/4”	626	466	24,0	19,00	50,5	21,40	196,0	BW13.12.20AX
14,0	17000	7/8”	794	600	26,0	22,00	57,5	25,00	304,0	BW13.14.22A
16,0	24000	1”	940	700	29,0	25,40	62,0	28,00	445,0	BW13.16.25A

Note: All break loads are determined by clevis pin and thread
Ⓔtype terminal has unswaged outside diameter 20,0 mm.

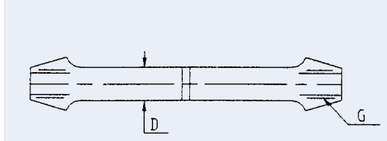


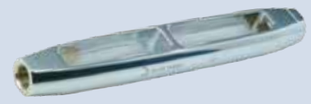


Chromed Bronze Bodies

Breaking Load in kg	G UNF	L1	D	weight in kg/100 pcs.	Ref. No.
1300	1/4”	100	9,0	4,3	BW01.13.06A
2350	5/16”	120	11,0	7,4	BW01.13.08A
3500	3/8”	135	13,0	10,8	BW01.13.10A
4700	7/16”	150	15,0	16,3	BW01.13.11A
5400	1/2”	170	17,4	23,0	BW01.13.12A
8000	5/8”	210	20,7	37,9	BW01.13.16A
13000	3/4”	250	25,4	66,1	BW01.13.20A
17000	7/8”	305	30,0	130,0	BW01.13.22A
24000	1”	366	35,0	190,8	BW01.13.25A

Note: All break loads are determined by thread





The Blue Wave Chromed Bronze Body features a number of details that makes it the best choice for exclusive and durable rigging. The sleek, open Bronze body prevents the threads from seizing up, they are delivered with laser engraved thread size, Blue Wave logo, and side marking of the left thread.

Chromed Bronze Body Rigging Screws Stud-Stemball | Threaded Stemballs

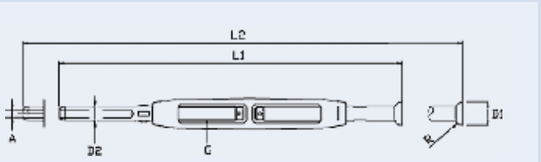
BLUE WAVE®

Rigging Screws **Chromed Bronze** body AISI 316 Stainless Steel Highly Polished

ø Wire in mm	Breaking Load in kg	G UNF	L1	L2	R	D1	D2	weight in kg/100 pcs.	Ref. No.
3,0	1300	1/4”	182	244	5	13	6,35	10,3	BW63.03.06A
4,0	1300	1/4”	192	245	6	13	7,50	10,6	BW63.04.06A
4,0	2350	5/16”	215	305	7	19	7,50	14,6	BW63.04.08A
5,0	2350	5/16”	221	311	7	19	9,00	15,5	BW63.05.08A
5,0	3500	3/8”	240	324	7	19	9,00	21,5	BW63.05.10A
6,0	3500	3/8”	255	339	7	19	12,58	24,6	BW63.06.10A
6,0	4700	7/16”	280	370	7	20	12,58	33,6	BW63.06.11A
7,0	4700	7/16”	285	375	7	20	14,20	36,3	BW63.07.11A
7,0	5400	1/2”	309	415	7	20	14,20	49,6	BW63.07.12A
8,0	5400	1/2”	324	430	7	20	16,00	54,8	BW63.08.12A
8,0	8000	5/8”	367	499	10	25	16,00	88,7	BW63.08.16A
10,0	8000	5/8”	376	508	10	25	17,80	92,9	BW63.10.16A
12,0 Ⓔ	13000	3/4”	437	597	14	28	20,00	138,8	BW63.12.20AⒺ
12,0	13000	3/4”	453	613	14	28	21,40	143,8	BW63.12.20AX

7/8” and 1” rigging screws on request.

Note: All break loads are determined by thread
Ⓔtype terminal has unswaged outside diameter 20,0 mm.

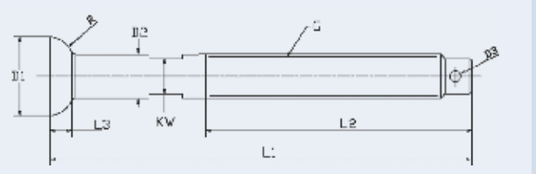


Threaded Stemball for Wire AISI 316 Stainless Steel Highly Polished

G UNF lefthanded	L1	L2	L3	D1	D2	KW	R	weight in kg/100 pcs.	Ref. No.
1/4”	80	50	4,5	13	6,35	5	6	3,9	BWBT01.40.00A
5/16”	92	57	6,5	19	9,00	7	7	4,2	BWBT51.60.00A
3/8”	101	63	5,8	19	9,50	7	7	5,6	BWBT03.80.00A
7/16”	111	70	5,8	20	11,00	9	7	8,0	BWBT71.60.00A
1/2”	129	80	5,8	20	12,70	9	7	12,2	BWBT01.20.00A
5/8”	154	100	8,7	25	16,00	12	10	23,4	BWBT05.80.00A
3/4”	178	120	9,8	28	19,00	15	14	38,4	BWBT03.40.00A

7/8” and 1” threaded stemballs on request.

Note: All break loads are determined by clevis pin and thread



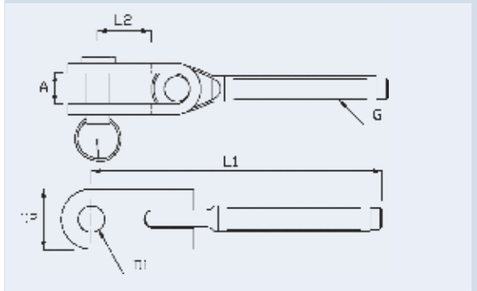
F Toggle Forks | Forks

BLUE WAVE®

Threaded Toggle Forks AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	G UNF lefthanded	A	D1 PIN	D2	L1	L2	weight in kg/100 pcs.	Ref. No. left
1300	1/4”	8	6,35	14	88	16	4,6	BW03.33.06AB
2350	5/16”	10	8,00	18	105	20	8,3	BW03.33.08AB
3500	3/8”	12	9,50	22	126	24	16,0	BW03.33.10AB
4700	7/16”	15	11,00	30	142	28	25,2	BW03.33.11AXB
5400	1/2”	18	12,70	30	147	31	31,3	BW03.33.12AXB
8000	5/8”	20	16,00	35	199	37	62,9	BW03.33.16AXB
13000	3/4”	24	19,00	40	225	40	110,0	BW03.33.20AXB
17000	7/8”	26	22,00	50	267	46	165,5	BW03.33.22AXB
24000	1”	29	25,40	60	311	53	276,5	BW03.33.25AXB

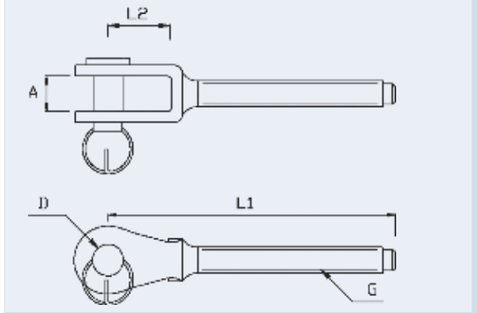
Note: All break loads are determined by clevis pin and thread



Welded Threaded Forks AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	G UNF	A	D PIN	L1	L2	weight in kg/100 pcs.	Ref. No. right	Ref. No. left
1300	1/4”	9,5	6,35	68,0	13,0	3,0	BW02.13.06AB	BW03.13.06AB
2350	5/16”	11,0	8,00	81,0	15,0	5,7	BW02.13.08AB	BW03.13.08AB
3500	3/8”	12,0	9,50	94,0	19,0	8,9	BW02.13.10AB	BW03.13.10AB
4700	7/16”	12,0	11,00	104,0	23,0	12,5	BW02.13.11AB	BW03.13.11AB
5400	1/2”	14,0	12,70	119,0	25,0	19,0	BW02.13.12AB	BW03.13.12AB
7600	5/8”	18,0	14,00	151,0	33,0	35,9	BW02.13.16AB	BW03.13.16AB
8000	5/8”	18,0	16,00	151,0	33,0	37,0	BW02.13.16AXB	BW03.13.16AXB
13000	3/4”	24,0	19,00	191,0	50,5	72,7	BW02.13.20AB	BW03.13.20AB
17000	7/8”	30,0	22,00	224,5	57,5	124,0	BW02.13.22AB	BW03.13.22AB
24000	1”	30,0	25,40	258,0	62,0	171,0	BW02.13.25AB	BW03.13.25AB

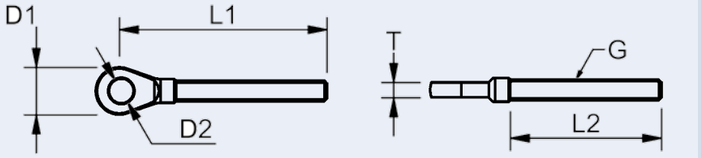
Note: All break loads are determined by clevis pin and thread



Threaded Eyes AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	G UNF	D1	D2	L1	L2	T	weight in kg/100 pcs.	Min. packing pcs.	**Ref. No. left**
1300	1/4”	14	6,5	65	47	4	1,5	25	BW03.19.06A
2350	5/16”	17	8,5	78	57	5	3,1	25	BW03.19.08A
3500	3/8”	22	10,5	89	63	6	5,1	25	BW03.19.10A
4700	7/16”	24	11,5	98	70	8	8,9	10	BW03.19.11AX
5400	1/2”	25	13,0	110	80	8	10,1	10	BW03.19.12A
5400	1/2”	28	13,2	105	80	10	12,0	10	BW03.19.12AX
8000	5/8”	31	14,5	134	100	10	20,4	10	BW03.19.16A
8000	5/8”	36	16,5	141	100	12	25,3	10	BW03.19.16AX
13000	3/4”	40	19,5	164	120	16	47,7	5	BW03.19.20A
17000	7/8”	47	23,0	196	140	18	74,2	1	BW03.19.22AX
24000	1”	52	26,0	230	170	20	108,3	1	BW03.19.25AX

Note: All break loads are determined by thread

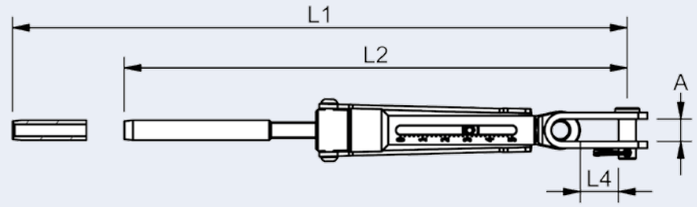


QRT-calibrated Rigging screws

Wire in mm	Breaking Load in kg	Thread inches	L1	L2	A	B	PIN Size	L4	weight in kg/100 pcs.	**Ref. No.**
3	1300	5/16”	268	218	11	19	8	16	23,0	BWQRT03.516G2
4	2350	5/16”	271	221	11	19	8	16	23,4	BWQRT04.516
5	2350	5/16”	277	227	11	19	8	16	24,2	BWQRT05.516
6	4700	7/16”	253	283	11	30	10	31	60,6	BWQRT06.716
7	4700	7/16”	375	305	11	30	10	33	62,7	BWQRT07.716

Note: All break loads are determined by clevis pin and thread

- **The QRT is a top racing rigging screw**
- **Developed specifically for the hardcore racing crews.**
- **It features an adjustment nut in black chromed high quality aluminium bronze**
- **Engraved calibration scale and quick adjust handle for fast and accurate rigtuning.**



Mono Race Tuning Calibrated Rigging Screws

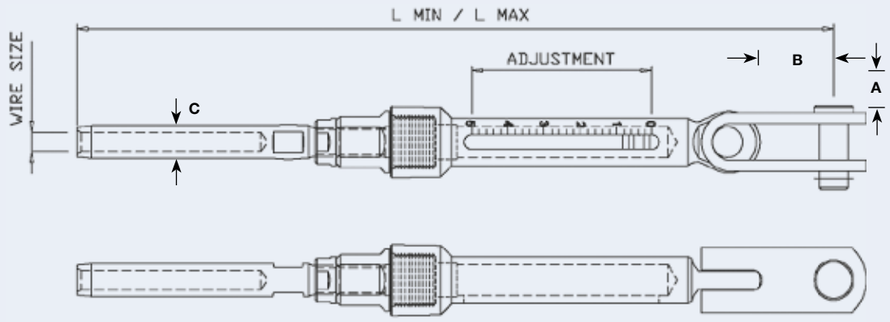
BLUE WAVE®

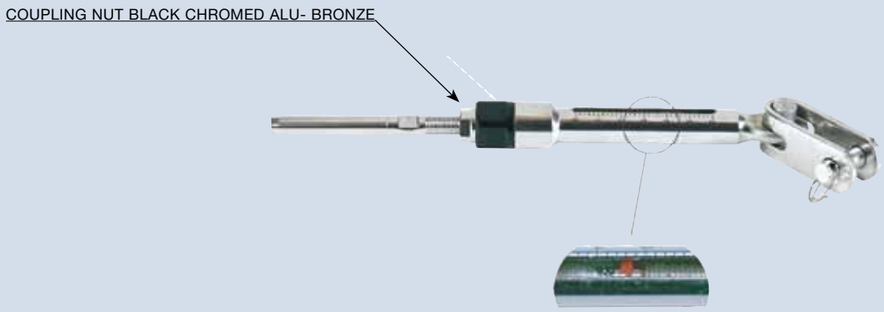
Toggle / Stud Terminal Mono Race Tuning - MRT - Calibrated AISI 316 Stainless Steel Highly Polished

- A highly sophisticated rigging screw, from the Blue Wave racing line.
- It features an adjustment nut in black chromed high quality alu bronze
- Engraved calibration scale for fast and accurate adjustment of the rig tension and an extra length thread terminal.

ø Wire in mm	Breaking Load in kg	Thread UNF	L min	L max	Pin Size	A	B	C	weight in kg/100 pcs.	**Ref. No.**
3,0	1300	1/4"	193	233	6,35	8,0	16,0	6,35	11,4	BWMRT03.014
4,0	1300	1/4"	216	256	6,35	8,0	16,0	7,50	12,2	BWMRT04.014
4,0	2350	5/16"	221	271	8,00	10,0	20,0	7,50	19,2	BWMRT04.516
5,0	2350	5/16"	227	277	8,00	10,0	20,0	9,00	20,0	BWMRT05.516
5,0	3500	3/8"	263	323	9,50	12,0	24,0	9,00	35,1	BWMRT05.038
6,0	4700	7/16"	283	353	11,00	15,0	28,0	12,58	56,3	BWMRT06.716
6,0	5400	1/2"	334	414	12,70	18,0	31,0	12,58	79,9	BWMRT06.012
7,0	4700	7/16"	305	375	11,00	15,0	28,0	14,20	60,2	BWMRT07.716
7,0	5400	1/2"	342	422	12,70	18,0	31,0	14,20	80,5	BWMRT07.012
8,0	5400	1/2"	356	436	12,70	18,0	31,0	16,00	84,4	BWMRT08.012
8,0	8000	5/8"	410	510	16,00	20,0	40,0	16,00	142,8	BWMRT08.058
10,0	8000	5/8"	461	561	16,00	20,0	40,0	17,80	146,4	BWMRT10.058
10,0	13000	3/4"	478	598	19,00	24,0	44,0	17,80	260,0	BWMRT10.034
12,0	13000	3/4"	509	629	19,00	24,0	44,0	21,40	273,0	BWMRT12.034
14,0	17000	7/8"	568	698	22,00	26,0	47,0	25,00	420,5	BWMRT14.078
16,0	24000	1"	660	820	25,40	29,0	59,0	28,00	664,0	BWMRT16.110

Note: All break loads are determined by clevis pin and thread





Mono Standard Tuning Rigging Screws

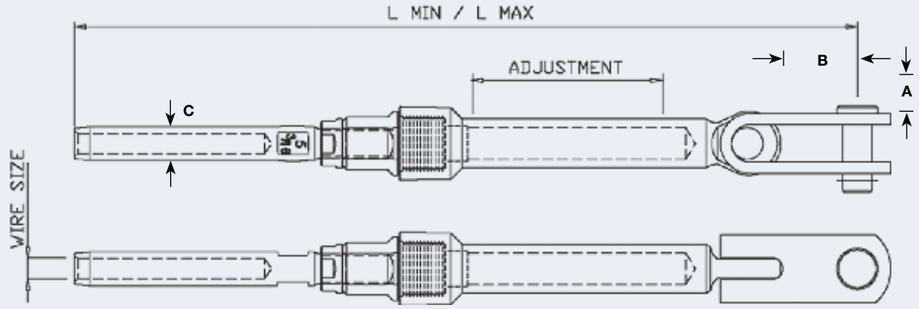
BLUE WAVE®

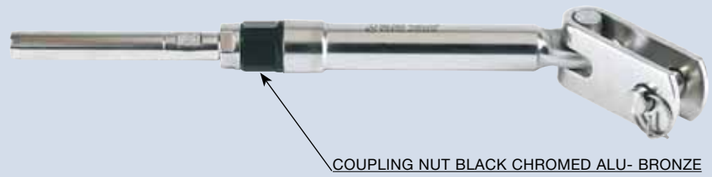
Toggle / Stud Terminal Mono Standard Tuning - MST - AISI 316 Stainless Steel Highly Polished

- Highly sophisticated rigging screw.
- A price favourable alternative to the Blue Wave racing line, with all the features except the calibration scale.
- It features an adjustment nut, in black chromed high quality alu bronze, and an extra length thread terminal.

ø Wire in mm	Breaking Load in kg	Thread UNF	L min	L max	Pin Size	A	B	C	weight in kg/100 pcs.	**Ref. No.**
3,0	1300	1/4"	193	233	6,35	8,0	16,0	6,35	11,8	BWMST03.014
4,0	1300	1/4"	216	256	6,35	8,0	16,0	7,50	12,6	BWMST04.014
4,0	2350	5/16"	221	271	8,00	10,0	20,0	7,50	19,7	BWMST04.516
5,0	2350	5/16"	227	277	8,00	10,0	20,0	9,00	20,5	BWMST05.516
5,0	3500	3/8"	263	323	9,50	12,0	24,0	9,00	36,1	BWMST05.038
6,0	4700	7/16"	305	375	11,00	15,0	28,0	12,58	57,5	BWMST06.716
7,0	4700	7/16	305	375	11,00	15,0	28,0	12,58	58,0	BWMST07.716
6,0	5400	1/2"	334	414	12,70	18,0	31,0	12,58	81,7	BWMST06.012
7,0	5400	1/2"	342	422	12,70	18,0	31,0	14,20	82,2	BWMST07.012
8,0	5400	1/2"	356	436	12,70	18,0	31,0	16,00	86,1	BWMST08.012
8,0	8000	5/8"	410	510	16,00	20,0	37,0	16,00	146,9	BWMST08.058
10,0	8000	5/8"	461	561	16,00	20,0	37,0	17,80	150,5	BWMST10.058
10,0	13000	3/4"	478	598	19,00	24,0	40,0	17,80	246,7	BWMST10.034
12,0	13000	3/4"	509	629	19,00	24,0	40,0	21,40	277,8	BWMST12.034
14,0	17000	7/8"	568	698	22,00	26,0	46,0	25,00	425,7	BWMST14.078
16,0	24000	1"	660	820	25,40	29,0	53,0	28,00	622,8	BWMST16.110

- **Note: All break loads are determined by clevis pin and thread**
- **Stud-Stemball type available on request.**





Long Threaded Terminal

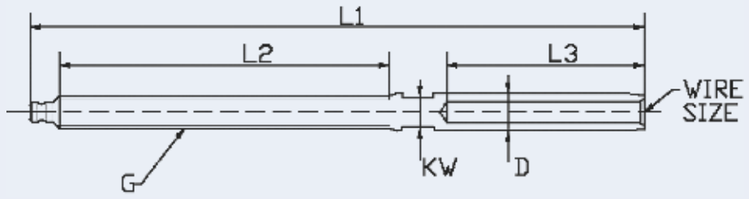
BLUE WAVE®

Long right handed threaded Terminal AISI 316 Stainless Steel Highly Polished

ø Wire in mm	Breaking Load in kg	G UNF righthanded	L1	L2	L3	D	KW	weight in kg/100 pcs.	**Ref. No. right**
3,0	1300	1/4”	132,0	86,0	38,0	6,4	5,0	2,6	BW05M.03.06A
4,0	1300	1/4”	137,0	81,0	45,0	7,5	6,0	3,0	BW05M.04.06A
4,0	2350	5/16”	147,0	93,0	45,0	7,5	6,0	4,3	BW05M.04.08A
5,0	2350	5/16”	156,0	93,0	51,0	9,0	7,0	5,2	BW05M.05.08A
5,0	3500	3/8”	176,0	115,0	51,0	9,0	7,0	7,7	BW05M.05.10A
6,0	4700	7/16”	206,0	123,0	64,0	12,6	11,0	14,5	BW05M.06.11A
7,0	4700	7/16”	211,0	123,0	70,0	14,2	12,0	16,8	BW05M.07.11A
6,0	5400	1/2”	224,0	149,0	64,0	12,6	11,0	18,7	BW05M.06.12A
7,0	5400	1/2”	232,0	149,0	70,0	14,2	12,0	21,3	BW05M.07.12A
8,0	5400	1/2”	247,0	149,0	84,0	16,0	14,0	25,2	BW05M.08.12A
8,0	8000	5/8”	282,0	184,0	84,0	16,0	14,0	37,4	BW05M.08.16A
10,0	8000	5/8”	292,0	179,0	89,0	17,8	15,0	41,6	BW05M.10.16A
12,0	13000	3/4”	368,0	225,0	120,0	21,4	19,0	72,2	BW05M.12.20A
14,0	17000	7/8”	415,0	255,0	140,0	25,0	22,0	112,0	BW05M.14.22A
16,0	24000	1”	480,0	293,0	160,0	28,0	25,0	164,4	BW05M.16.25A

Note: All break loads are determined by thread.

- The Blue Wave extra long Thread Terminals all features, engraved wire size, Blue Wave logo and swage depth marking for faster and easier swaging.
- This extra long thread terminal fits the MRT-MST and QRT Rigging screws



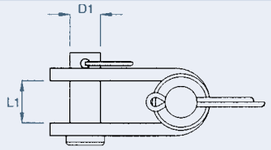
Toggles

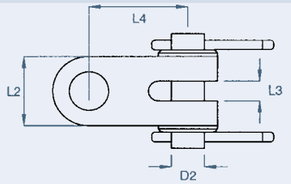
BLUE WAVE®

Double Jaw Toggle AISI 316 Stainless Steel Highly Polished including clevis pins

Breaking Load in kg	L1	L2	L3	L4	D1 PIN	D2 PIN	weight in kg/100 pcs.	**Ref. No.**
2350	10,0	18,0	5,2	30,0	8,0	8,00	6,0	BW25.00.08
3500	12,0	22,0	6,2	38,0	9,5	9,50	11,9	BW25.00.10
4100	15,0	30,0	9,2	42,0	11,0	11,00	18,0	BW25.00.11
6200	18,0	30,0	11,2	47,5	12,7	12,58	24,0	BW25.00.12
9800	20,0	35,0	13,5	57,0	16,0	16,00	41,0	BW25.00.16
13000	24,0	40,0	17,5	63,0	19,0	19,00	70,0	BW25.00.19
17000	26,0	50,0	19,0	72,0	22,0	22,00	87,0	BW25.00.22
24000	29,0	60,0	22,0	82,0	25,4	25,00	107,0	BW25.00.25
25500	34,0	60,0	28,0	97,0	28,0	28,00	234,0	BW25.00.28
31000	40,0	75,0	34,0	105,0	32,0	32,00	340,0	BW25.00.32
43000	44,0	75,0	34,0	118,0	35,0	35,00	470,0	BW25.00.35

Note: All break loads are determined by clevis pin.

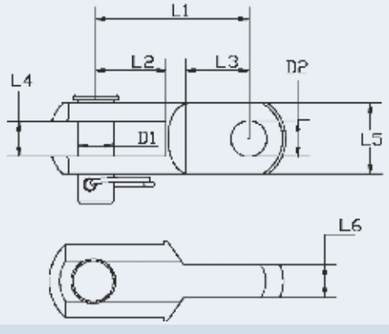




Machined Eye-Jaw Toggle AISI 316 Stainless Steel Highly Polished

Breaking Load in kg	L1	L2	L3	L4	L5	L6	D1 PIN	D2	weight in kg/100 pcs.	**Ref. No.**
1300	28,0	13,0	11,0	6,35	12	5,5	6,35	6,6	1,9	BW14.06.06M
2600	34,5	16,0	13,0	7,90	16	7,0	8,00	8,1	4,3	BW14.08.08M
3500	41,5	19,0	17,0	9,50	19	9,0	9,50	9,7	7,1	BW14.09.09M
4100	48,5	22,0	19,0	11,10	23	9,5	11,00	11,3	12,8	BW14.11.11M
6200	57,0	25,0	24,0	12,70	27	12,5	12,70	12,9	21,1	BW14.13.13M
9800	70,0	32,0	28,0	15,80	33	13,5	16,00	16,3	35,2	BW14.16.16M
13000	89,0	38,0	38,0	19,00	42	18,0	19,00	19,3	74,7	BW14.19.19M
17000	99,0	44,0	41,0	22,20	48	21,0	22,00	22,5	108,2	BW14.22.22M
24000	119,0	51,0	44,0	25,40	53	24,0	25,40	25,8	157,0	BW14.25.25M

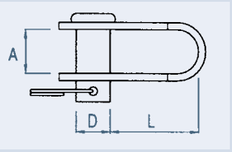
Note: All break loads are determined by clevis pin.



Toggles AISI 316 Stainless Steel Highly Polished including clevis pin

Breaking Load in kg	L	A	B	D PIN	weight in kg/100 pcs.	Ref. No.
1800	25,0	7,5	7,0	6,0	2,3	BW14.00.06
3600	30,0	8,5	7,7	8,0	4,0	BW14.00.08
4000	40,0	10,5	10,2	9,5	5,9	BW14.00.10
4800	45,0	11,5	10,5	11,0	8,5	BW14.00.11
5800	50,0	13,5	12,0	12,0	12,4	BW14.00.12
8000	55,0	17,0	15,0	16,0	22,5	BW14.00.16
13000	60,0	21,0	18,0	19,0	40,7	BW14.00.19
17000	100,0	25,0	25,0	22,0	80,9	BW14.00.22

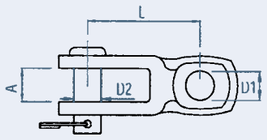
Note: All break loads are determined by clevis pin.

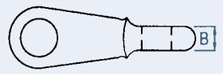


Toggles AISI 316 Stainless Steel Highly Polished including clevis pin

Breaking Load in kg	A	B	D1	D2 PIN	L	weight in kg/100 pcs.	Ref. No.
1300	7,5	5	5,5	5,0	26	1,8	BW14.05.06
1800	9,5	6	6,5	6,0	32	3,0	BW14.06.08
3200	11,0	8	8,5	8,0	36	5,5	BW14.08.10
3500	12,5	9	10,0	9,5	45	7,2	BW14.10.11
5200	12,0	9	11,5	11,0	51	12,1	BW14.11.11
5900	14,0	10	13,0	12,0	59	14,5	BW14.12.14
7500	22,0	14	14,5	14,0	78	28,0	BW14.16.16

Note: All break loads are determined by clevis pin.



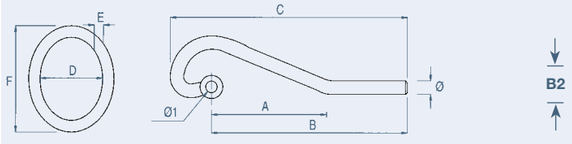


Pelican-Hooks AISI 316 Stainless Steel Highly Polished

A	B	C	ø	ø1	D	E	F	B2	weight in kg/100 pcs.	Ref. No.
82	115	140	6	5,3	30	5	40	7,0	4,62	✷ BW45.05.06
75	125	142	6	6,4	20	5	35	9,2	4,84	✷ BW45.06.06
82	127	142	6	6,8	20	5	35	6,5	11,44	❍ BW45.06.08
113	163	192	8	8,7	27	5	42	11,2	12,65	✷ BW45.08.08
113	163	192	8	8,5	27	5	42	7,5	19,00	❍ BW45.08.10
130	195	235	12	13,4	34	6	54	15,3	52,00	✷ BW45.12.12
140	204	235	12	13,2	34	6	54	15,3	77,00	❍ BW45.14.16

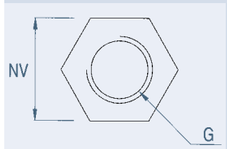
B2 = eye thickness

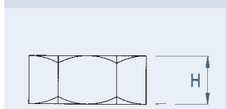
✷ = Standard size
❍ = Special size



Locknuts AISI 316 Stainless Steel

G Metric	NV	H	Minimum packing	weight in kg/100 pcs.	Ref. No. Right	Ref. No. Left
M 5	8	4,0	10	0,10	BW04.12.05	BW05.12.05
M 6	8	4,0	10	0,10	BW04.12.06	BW05.12.06
M 8	10	5,0	10	0,15	BW04.12.08	BW05.12.08
M 10	13	6,5	10	0,25	BW04.12.10	BW05.12.10
M 12	17	8,0	10	0,70	BW04.12.12	BW05.12.12
M 14	19	9,5	10	1,30	BW04.12.14	BW05.12.14
M 16	22	11,0	5	2,00	BW04.12.16	BW05.12.16
M 20	24	13,0	5	2,25	BW04.12.20	BW05.12.20
M 22	30	16,5	1	3,50	BW04.12.22	BW05.12.22
M 24	36	17,5	1	8,80	BW04.12.24	BW05.12.24
M 27	41	22,0	1	16,00	BW04.12.27	BW05.12.27
M 30	46	24,0	1	17,00	BW04.12.30	BW05.12.30
M 36	55	29,0	1	39,00	BW04.12.36	BW05.12.36





Locknuts AISI 316 Stainless Steel

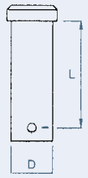
G UNF	NV	H	Minimum packing	weight in kg/100 pcs.	Ref. No. Right	Ref. No. Left
1/4"	8	4,0	10	0,10	BW04.12.06A	BW05.12.06A
5/16"	10	5,0	10	0,15	BW04.12.08A	BW05.12.08A
3/8"	13	6,5	10	0,25	BW04.12.10A	BW05.12.10A
7/16"	14	8,4	10	0,70	BW04.12.11A	BW05.12.11A
1/2"	17	8,0	10	1,20	BW04.12.12A	BW05.12.12A
5/8"	22	11,0	5	2,00	BW04.12.16A	BW05.12.16A
3/4"	24	13,0	5	2,25	BW04.12.20A	BW05.12.20A
7/8"	30	16,5	1	3,40	BW04.12.22A	BW05.12.22A
1"	36	17,5	1	8,80	BW04.12.25A	BW05.12.25A
1 1/8"	41	22,0	1	16,00	BW04.12.27A	BW05.12.27A
1 1/4"	46	24,0	1	17,00	BW04.12.30A	BW05.12.30A
1 3/8"	55	29,0	1	39,00	BW04.12.36A	BW05.12.36A

For full breaking load on the threaded stud use no locknuts but DIN nuts (full nuts).

Clevis Pins

Clevis Pins AISI 316 Stainless Steel

L	D	Minimum packing	weight in kg/100 pcs.	**Ref. No.**
15	5,00	10	0,30	BW06.16.05
17	6,00	10	0,90	BW06.18.06
16	6,35	10	0,90	BW06.16.63
18	8,00	10	1,00	BW06.19.08
21	8,00	10	1,10	BW06.20.08
23	9,50	10	1,50	BW06.23.95
26	11,00	10	2,40	BW06.26.11
28	12,00	10	3,00	BW06.28.12
28	12,70	10	3,50	BW06.28.13
34	12,00	10	4,00	BW06.34.12
33	14,00	10	5,30	BW06.32.14
37	14,00	10	5,50	BW06.37.14
34	16,0	1	6,50	BW06.34.16
40	16,0	1	7,70	BW06.40.16
45	19,0	1	13,00	BW06.44.19
49	19,0	1	14,00	BW06.49.19
46	22,0	1	16,30	BW06.46.22
55	22,0	1	19,00	BW06.55.22
58	22,0	1	20,00	BW06.58.22
56	25,4	1	25,00	BW06.55.25
63	25,0	1	28,00	BW06.63.25
73	28,0	1	40,00	BW06.73.28
83	32,0	1	60,00	BW06.83.32
88	35,0	1	76,00	BW06.88.35



Smart Pins | Splitrings | Splitpins

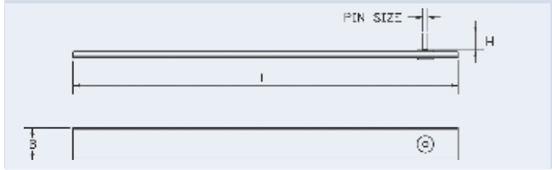
Smart Pins AISI 316 Stainless Steel

Split Pin on Velcro One-Wrap® Strap

- The smart pins are a fast and revolutionary new way of securing open body rigging screws.
- Simply put the pin attached to the Velcro Strap into the split hole and secure the Velcro strap around the rigging screw.

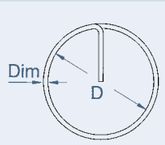
Pin Size	L	B	H	For Rigging Screws	Minimum packing	weight in kg/100 pcs.	**Ref. No.**	**Ref. No. Blisterpacking**
2,0	150	16	8	1/4	20	0,2	BWVP10.20	BWVP10.20P4
2,5	190	16	10	5/16 - 3/8	20	0,3	BWVP12.25	BWVP12.25P4
3,2	260	20	13	7/16 - 1/2	20	0,5	BWVP16.32	BWVP16.32P4
4,0	370	25	20	5/8 - 3/4	20	1,0	BWVP23.40	BWVP23.40P4

- Also available in blisterpacking 4 in each pack.
- Also available blisterpacking shop display (**Ref. No.** BWDISPSMART)



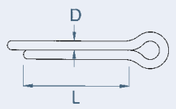
Splitrings AISI 316 Stainless Steel

Diameter mm	D	Minimum packing	weight in kg/100 pcs.	**Ref. No.**
1,00	11	100	0,015	BW07.06.01
1,25	15	100	0,075	BW07.06.02
1,50	19	100	0,100	BW07.06.03
2,00	23	100	0,230	BW07.06.04



Splitpins AISI 316 Stainless Steel

D Diameter mm	L	Minimum packing	weight in kg/100 pcs.	**Ref. No.**
1,5	10	100	0,01	BW07.06.09
2,0	12	100	0,03	BW07.06.101
2,0	15	100	0,03	BW07.06.10
2,0	25	100	0,05	BW07.06.11
2,5	16	100	0,07	BW07.06.121
2,5	25	100	0,10	BW07.06.12
3,0	25	50	0,15	BW07.06.13
3,0	32	50	0,20	BW07.06.14
3,2	20	50	0,15	BW07.06.131
4,0	32	1	0,36	BW07.06.151
5,0	40	1	0,75	BW07.06.17
6,3	50	1	1,30	BW07.06.18



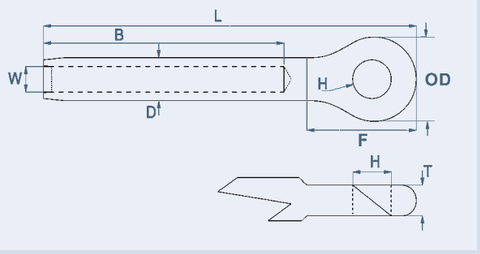
Stainless Steel Forged Swage Eye-Terminals

Hi-MOD

Swage Terminals - **Forged** Eyes High Quality Stainless Steel Grade 316

ø wire in mm	Breaking Load in kN	H	D	B	F	T	OD	L	weight in gr	Product Code	**Ref. No.**
3	13,3	6,3	6,3	39	18	6,0	14,3	60	12	FSE03	PS04.01.03
4	17,6	8,3	7,5	45	23	7,0	18,0	72	24	FSE04	PS04.01.04
5	25,6	9,7	9,1	52	27	8,0	21,0	84	36	FSE05	PS04.01.05
6	56,3	11,3	12,5	64	32	9,5	25,0	102	82	FSE06	PS04.01.06
7	72,7	12,8	14,3	70	36	11,0	28,0	113	120	FSE07	PS04.01.07
8	72,7	12,8	16,0	80	36	11,0	28,0	125	120	FSE08DS	PS04.01.08DS
8	72,7	14,3	16,0	80	40	14,0	32,0	128	170	FSE08	PS04.01.08
8	92,6	16,2	16,0	80	45	15,0	34,0	136	195	FSE08US	PS04.01.08US
10	101,5	16,2	18,0	100	45	15,0	34,0	155	234	FSE10	PS04.01.10
12	146,2	19,3	21,4	132	53	18,0	42,0	197	442	FSE12	PS04.01.12
14	201,9	22,3	25,0	156	62	22,0	48,0	232	708	FSE14	PS04.01.14
16	218,0	25,5	28,0	176	70	24,0	58,0	262	1005	FSE16	PS04.01.16

- **All HI-MOD Terminals: Free from structual welds which may reduce the strength and integrity of the product.**
- **Electrical Upset forging engenders no kinks or interruption of grain flow thus providing a stronger, high integrity product.**
- **All HI-MOD Terminals above 10 mm wire rope are highgloss hand polished.**



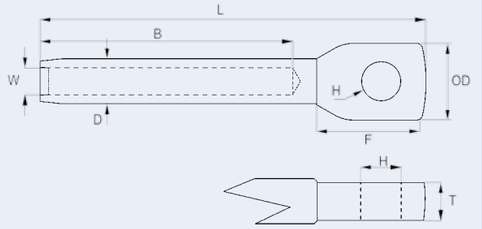
Stainless Steel Machined Swage Eye-Terminals

Hi-MOD

Swage Terminals - **Machined** Eyes High Quality Stainless Steel Grade 316

ø Wire in mm	Breaking Load in kN	H	D	B	F	T	OD	L	weight in gr	Product Code	**Ref. No.**
4	17,6	8,3	7,5	45	20	6,5	16	69	23	MSE04	PS04.02.04
5	25,6	9,7	9,1	52	26	7,8	19	82	42	MSE05	PS04.02.05
6	56,6	11,3	12,5	64	31	9,5	25	99	100	MSE06	PS04.02.06
6	56,6	12,8	12,5	64	35	9,5	27	110	109	MSE06US	PS04.02.06.US
7	72,7	12,8	14,3	70	35	11,5	27	113	129	MSE07	PS04.02.07
8	72,7	12,8	16,0	80	36	11,0	27	123	152	MSE08DS	PS04.02.08DS
8	92,6	14,3	16,0	80	40	14,0	32	128	178	MSE08	PS04.02.08
8	92,6	16,2	16,0	80	43	14,0	34	128	202	MSE08US	PS04.02.08US
10	101,5	16,2	18,0	100	45	15,0	34	155	245	MSE10	PS04.02.10
12	126,0	19,3	21,4	132	53	18,0	38	197	462	MSE12	PS04.02.12
14	174,0	22,3	25,0	156	62	22,0	51	232	721	MSE14	PS04.02.14
16	218,0	25,5	28,2	176	70	24,0	54	262	1090	MSE16	PS04.02.16
19	341,0	28,6	34,5	210	76	28,0	58	302	1780	MSE19	PS04.02.19
22	459,8	32,5	40,3	242	86	32,0	71	347	2704	MSE22	PS04.02.22
26	564,8	35,5	45,9	290	97	34,0	75	408	3955	MSE26	PS04.02.26
28	-	45,4	50,0	310	124	42,0	-	464	5768	MSE28	PS04.02.28
30	-	-	-	-	-	-	-	-	-	MSE30	PS04.02.30
32	-	51,0	-	335	141	50,0	-	507	8720	MSE32	PS04.02.32

- **Exceeds the stated breaking load of relative standard and Compacted Stainless Steel wire.**
- **Very high quality finish suitable for prestigous yachts and architectural projects.**
- **All HI-MOD Terminals above 10 mm wire rope are highgloss hand polished.**
- **Bigger sizes on request.**



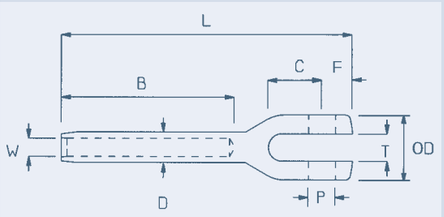
Stainless Steel Swage Fork-Terminals

Hi-MOD

Swage Terminals - **Machined** Solid Fork incl. clevis pin High Quality Stainless Steel Grade 316

ø wire in mm	P	D	F	C	T	B	OD	L	weight in gr	Product Code	**Ref. No.**
3	6,0	6,3	7,0	13	6,3	39	14,3	70,0	20	SF03	PS03.01.03
4	8,0	7,5	9,0	16	8,0	45	18,0	83,0	36	SF04	PS03.01.04
5	9,5	9,1	11,0	19	10,0	52	22,2	97,0	64	SF05	PS03.01.05
6	11,0	12,5	12,0	22	11,0	64	25,4	113,0	142	SF06	PS03.01.06
7	12,0	14,3	15,0	25	12,7	70	28,6	128,0	172	SF07	PS03.01.07
8	12,0	16,0	15,0	25	12,7	80	28,6	140,0	196	SF08DS	PS03.01.08DS
8	14,0	16,0	16,5	28	14,0	80	34,9	144,5	278	SF08	PS03.01.08
10	16,0	18,0	18,0	32	16,0	100	38,1	174,0	376	SF10	PS03.01.10
12	19,0	21,4	23,0	38	19,0	132	47,6	227,0	1097	SF12	PS03.01.12
14	22,0	25,0	26,0	45	22,2	156	54,0	258,0	1105	SF14	PS03.01.14
16	25,4	28,2	30,6	50	25,4	176	63,5	295,5	1683	SF16	PS03.01.16
19	28,0	34,5	33,0	58	28,6	210	69,9	342,0	2580	SF19	PS03.01.19
22	32,0	40,3	39,0	64	32,0	242	76,2	391,0	3611	SF22	PS03.01.22
26	35,0	45,9	43,5	70	35,0	290	82,5	451,5	5019	SF26	PS03.01.26
28	45,0	50,0	52,0	91	45,0	305	-	514,0	10500	SF28	PS03.01.28
30	-	-	-	-	-	-	-	-	-	SF30	PS03.01.30
32	50,0	-	67,0	104	52,0	335	-	600,0	27450	SF32	PS03.01.32

- **Exceeds the stated breaking load of relative standard and Compacted Stainless Steel wire.**
- **Manufactured from Solid Bar.**
- **Breaking load same as MSE type.**
- **All HI-MOD Terminals above 10 mm wire rope are highgloss hand polished.**
- **Bigger sizes on request.**



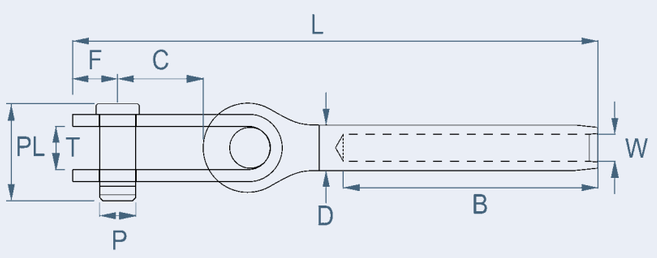
Stainless Steel Swage Strap Toggle Terminals

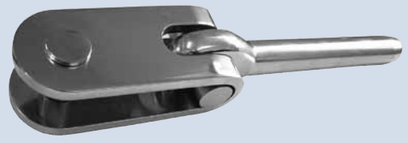
Hi-MOD

Swage Terminals - Strap Toggle Including Clevis Pin
High Quality Stainless Steel Grade 316

ø wire in mm	P	D	F	C	T	B	L	PL	weight in gr	Product Code	**Ref. No.**
3	6,0	6,3	8	16,0	7,7	39	84	19	25	MST03	PS03.04.03
4	8,0	7,5	12	16,5	9,0	45	103	22	45	MST04	PS03.04.04
5	9,5	9,1	13	20,4	10,3	52	111	25	89	MST05	PS03.04.05
6	11,0	12,5	17	28,0	14,0	64	146	32	230	MST06	PS03.04.06
7	12,0	14,3	19	30,3	14,2	70	168	34	271	MST07	PS03.04.07
8	12,0	16,0	25	30,3	14,2	80	169	42	295	MST08DS	PS03.04.58DS
8	16,0	16,0	25	39,4	17,5	80	200	42	515	MST08	PS03.04.68
10	16,0	18,0	25	39,4	17,5	100	212	42	569	MST10	PS03.04.10
12	19,0	21,4	25	55,0	22,0	132	278	51	1409	MST12	PS03.04.12
14	22,0	25,0	30	60,0	24,0	156	328	62	1912	MST14	PS03.04.14
16	25,4	28,2	30	68,0	28,0	176	364	65	2516	MST16	PS03.04.16
19	28,0	34,5	38	80,0	30,0	210	430	73	4147	MST19	PS03.04.19
22	32,0	40,3	50	85,0	34,0	242	496	77	6039	MST22	PS03.04.22
26	35,0	45,9	50	105,0	38,0	290	571	82	8428	MST26	PS03.04.26

- **Generously proportioned toggle straps designed to take the full wire breaking load on each side of the T, avoiding premature failure due to transient unbalanced loads. Swage section manufactured from solid bar.**
- **Breaking load same as MSE type.**
- **All HI-MOD Terminals above 10 mm wire rope are highgloss hand polished.**

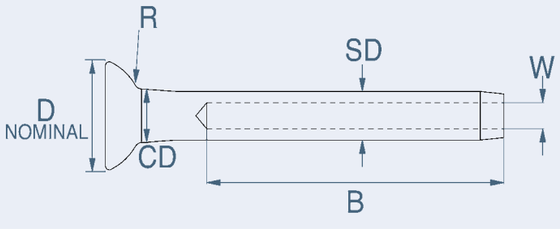


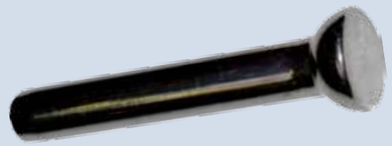


Stainless Steel Forged Stemball Terminals

Swage Terminals **Forged** Stemballs High Quality Stainless Steel Grade 316

ø wire in mm	D	B	SD	CD	W	R	weight in gr	Product Code	**Ref. No.**
3	12,5	39	6,3	7,5	3,4	6,3	11	SB03-065	PS05.01.03
4	17,0	45	7,5	8,5	4,4	8,8	25	SB04-090	PS05.01.04
5	17,0	52	9,1	10,0	5,4	8,8	29	SB05-090	PS05.01.05
5	21,0	52	9,1	10,0	5,4	10,8	43	SB05-110	PS05.01.051
6	21,0	64	12,5	13,5	6,5	10,8	74	SB06-110	PS05.01.06
7	21,0	70	14,3	15,0	7,5	10,8	102	SB07-110	PS05.01.07
7	27,0	70	14,3	15,0	7,5	13,8	119	SB07-140	PS05.01.071
8	27,0	80	16,0	18,5	8,5	13,8	155	SB08-140	PS05.01.08
10	31,0	100	18,0	19,5	10,6	15,8	215	SB10-160	PS05.01.10
12	35,0	132	21,4	23,0	12,8	17,8	374	SB12-180	PS05.01.12



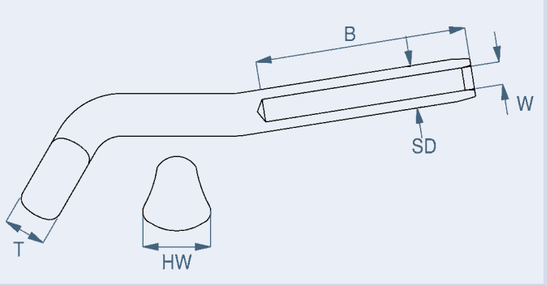


Stainless Steel Forged Shroud Terminals

Swage **Forged** Shroud Terminals High Quality Stainless Steel Grade 316

ø wire in mm	T	B	W	HW	SD	weight in gr	Product Code	**Ref. No.**
3	6,3	39	3,4	12	6,3	21	SH03	PS07.01.03
4	7,5	45	4,4	16	7,5	29	SH04	PS07.01.04
5	9,1	52	5,4	19	9,1	60	SH05	PS07.01.05
6	12,5	64	6,5	22	12,5	124	SH06	PS07.01.06
7	14,3	70	7,5	28	14,3	190	SH07	PS07.01.07
8	16,0	80	8,5	30	16,0	278	SH08	PS07.01.08
10	17,8	100	10,6	32	18,0	360	SH10	PS07.01.10
12	21,4	132	12,8	38	21,4	654	SH12	PS07.01.12

- **Fits in following backing plates:**
  - **GIBB - Type 840 and 740**
  - **Hasselfors - (Selden)**
  - **Blue Wave**
  - **BSI**



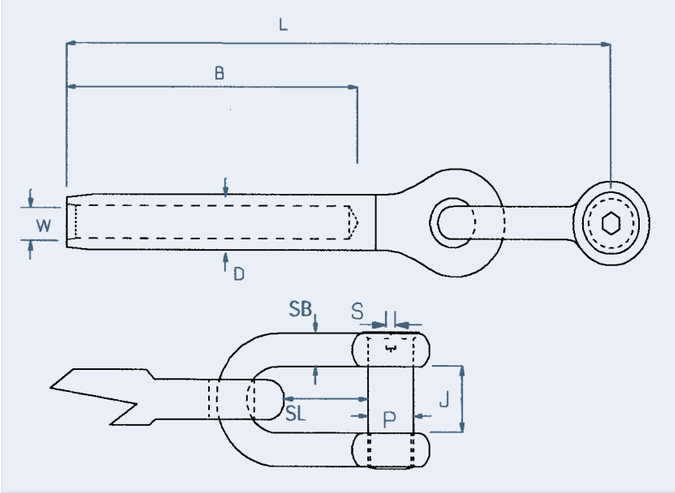
Stainless Steel Swage Shackle Toggle Terminals

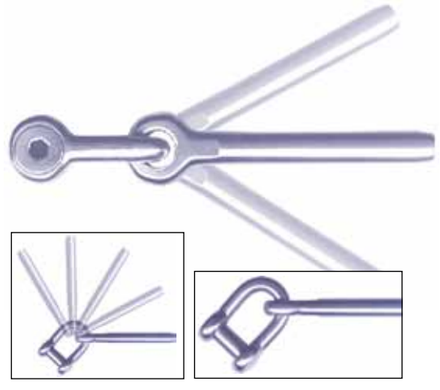
Swage Shackle Toggles High Quality Stainless Steel Grade 316

ø wire in mm	B	D	L	S	J	P	SB	SL	weight in gr	Product Code	**Ref. No.**
3	39	6,3	82	3	14	6,0	5,0	14	25	SST03	PS03.03.03
4	45	7,5	101	4	20	8,0	6,0	16	48	SST04	PS03.03.04
5	52	9,1	118	4	22	9,5	8,0	22	89	SST05	PS03.03.05
6	64	12,7	141	5	25	11,0	9,5	27	179	SST06	PS03.03.06
7	70	14,3	158	5	27	12,0	11,0	32	273	SST07	PS03.03.07
8	80	16,0	179	5	29	14,3	12,7	36	407	SST08	PS03.03.08
10	100	18,0	216	6	29	16,0	14,3	42	684	SST10	PS03.03.10
12	132	21,4	263	6	32	19,0	16,0	45	1027	SST12	PS03.03.12
14	156	25,0	309	8	38	22,2	19,0	63	1508	SST14	PS03.03.14
16	176	28,2	351	8	45	25,4	22,0	63	2525	SST16	PS03.03.16

- **MULTI-PIVOT** action.
- **IDEAL** for life lines & aluminium chain plates.
- **INCORPORATES** upset forged shackles with socket head pin for extra strength and integrity.

- Inspection certificate BS EN 10204 3.1B available on request.
  This must be specified at the time of order.
- **Breaking load same as MSE types.**
- **All HI-MOD Terminals above 10 mm wire rope are highgloss hand polished.**





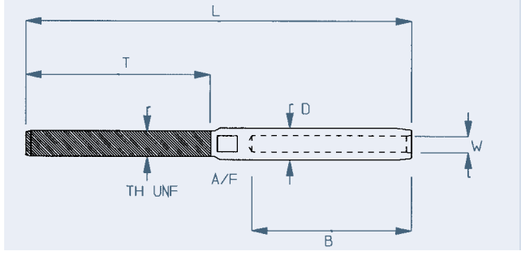
Stainless Steel Swage Stud Terminals

Hi-MOD

Swage Terminals - **Closed Body** Studs UNF THREAD
High Quality Stainless Steel Grade 316

Thread UNF	ø wire in mm	D	B	T	A/F	L	weight in gr	Product Code	**Ref. No.**
1/4”	3	6,3	39	47	5	97	24	SC1/4X3R	PS06.01.13R
1/4”	4	7,5	45	47	5	104	30	SC1/4X4R	PSSC1/4X4R
5/16”	4	7,5	45	54	6	113	36	SC5/16X4R	PS06.01.24R
5/16”	5	9,1	52	54	6	123	51	SC5/16X5R	PSSC5/16X5R
3/8”	5	9,1	52	68	8	135	60	SC3/8X5R	PS06.01.35R
3/8”	6	12,5	64	68	8	149	85	SC3/8X6R	PSSC3/8X6R
7/16”	6	12,5	64	75	11	154	108	SC7/16X6R	PS06.01.46R
7/16”	7	14,3	70	75	11	161	130	SC7/16X7R	PSSC7/16X7R
1/2”	7	14,3	70	90	12	177	162	SC1/2X7R	PS06.01.57R
1/2”	8	16,0	80	90	14	190	196	SC1/2X8R	PSSC1/2X8R
5/8”	8	16,0	80	100	14	201	260	SC5/8X8R	PS06.01.68R
5/8”	10	18,0	100	100	16	223	306	SC5/8X10R	PS06.01.60R
3/4”	12	21,4	132	120	19	277	550	SC3/4X12R	PS06.01.12R
7/8”	14	25,0	156	140	22	325	874	SC7/8X14R	PS06.01.14R
1”	16	28,2	176	160	25	369	1274	SC1X16R	PS06.01.16R
1 1/8”	19	34,5	210	180	28	425	2050	SC11/8X19R	PS06.01.19R
1 1/4”	22	40,3	242	200	32	482	3200	SC11/4X22R	PS06.01.22R
1 3/8”	26	45,9	290	220	36	557	4000	SC13/8X26R	PS06.01.26R
1 1/2”	28	50,0	297	235	44	580	6992	SC11/2X28R	PS06.01.28R

- **Bigger sizes on request.**
- **Replace R for L by Ref. No. for left handed thread.**
- **Breaking loads same as Fork - Fork Rigging Screws.**
- **All HI-MOD Terminals above 10 mm wire rope are highgloss hand polished.**



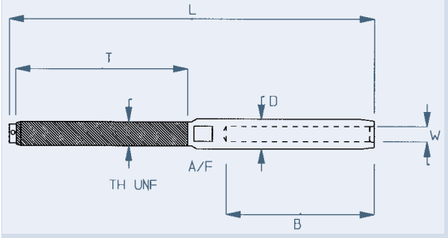
Stainless Steel Swage Stud Terminals

Hi-MOD

Swage Terminals - **Open Body** Studs UNF THREAD
High Quality Stainless Steel AISI 316

Thread UNF	ø wire in mm	D	B	T	_A/F	L	weight in gr	Product Code	**Ref. No.**
1/4”	3	6,3	39	42	5	97	24	SO1/4X3R	PS06.02.13R
1/4”	4	7,5	45	42	5	104	30	SO1/4X4R	PSS0.1/4X4R
5/16”	4	7,5	45	49	6	113	36	SO5/16X4R	PS06.02.24R
5/16”	5	9,1	52	49	6	123	51	SO5/16X5R	PSS0.5/16X5R
3/8”	5	9,1	52	63	8	135	60	SO3/8X5R	PS06.02.35R
3/8”	6	12,5	64	63	8	149	85	SO3/8X6R	PSS0.3/8X6R
7/16”	6	12,5	64	68	11	154	108	SO7/16X6R	PS06.02.46R
7/16”	7	14,3	70	68	11	161	130	SO7/16X7R	PSS0.7/16X7R
1/2”	7	14,3	70	83	12	177	162	SO1/2X7R	PS06.02.57R
1/2”	8	16,0	80	83	14	190	196	SO1/2X8R	PS06.02.58R
5/8”	8	16,0	80	93	14	201	260	SO5/8X8R	PS06.02.68R
5/8”	10	18,0	100	93	16	223	306	SO5/8X10R	PS06.02.60R
3/4”	12	21,4	132	111	19	277	550	SO3/4X12R	PS06.02.12R
7/8”	14	25,0	156	130	22	325	874	SO7/8X14R	PS06.02.14R
1”	16	28,2	176	150	25	369	1275	SO1X16R	PS06.02.16R
11/8”	19	34,5	210	168	28	425	2050	SO11/8X19R	PS06.02.19R
11/4”	22	40,3	242	188	32	482	3200	SO11/4X22R	PS06.02.22R
13/8”	26	45,9	290	208	36	557	4000	SO13/8X26R	PS06.02.26R

- **Breaking loads same as Fork - Fork Turnbuckles.**
- Replace R for L by Ref. No. for left handed thread.
- **All HI-MOD Terminals above 10 mm wire rope are highgloss hand polished.**



Randmeer Design: vd Stadt en Partners

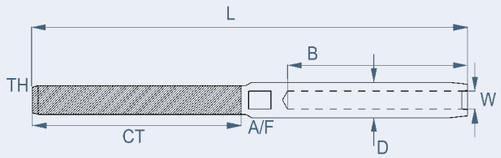
Stainless Steel Swage Stud Terminals

Hi-MOD

Swage **Closed Body** Studs METRIC THREAD
High Quality Stainless Steel Grade 316

ø wire in mm	TH	D	B	L	CT	A/F	weight in gr	Product Code	**Ref. No.**
3	M6	6,3	39	97	47	5	24	SCM6X3	PSSC.M63
4	M6	7,5	45	105	47	6	33	SCM6X4	PSSC.M64
4	M8	7,5	45	113	54	6	36	SCM8X4	PSSC.M84
5	M8	9,1	52	122	54	8	54	SCM8X5	PSSC.M85
5	M10	9,1	52	135	68	8	60	SCM10X5	PSSC.M105
6	M10	12,5	64	154	75	11	108	SCM10X6	PSSC.M106
6	M12	12,5	64	170	90	11	119	SCM12X6	PSSC.M126
7	M12	14,3	70	177	90	12	162	SCM12X7	PSSC.M127
8	M12	16,0	80	190	90	14	196	SCM12X8	PSSC.M128
8	M16	16,0	80	201	100	14	260	SCM16X8	PSSC.M168
10	M16	18,0	100	223	100	16	306	SCM16X10	PSSC.M1610
12	M20	21,4	132	277	120	19	550	SCM20X12	PSSC.M2012
14	M22	25,0	156	325	140	22	874	SCM22X14	PSSC.M2214
16	M27	28,2	176	371	160	25	1275	SCM27X16	PSSC.M2716
19	M30	34,5	210	425	180	28	2050	SCM30X19	PSSC.M3019
22	M36	40,3	242	482	200	32	3200	SCM36X22	PSSC.M3622
26	M42	45,9	290	557	220	36	4000	SCM42X26	PSSC.M4226

- **Bigger sizes on request.**
- **Suffix L on Ref no. for left handed thread**
- **All HI-MOD Terminals above 10 mm wire rope are highgloss hand polished.**



Stainless Steel AISI 316 Swageless Compression Terminals

Hi-MOD

Compression Eyes

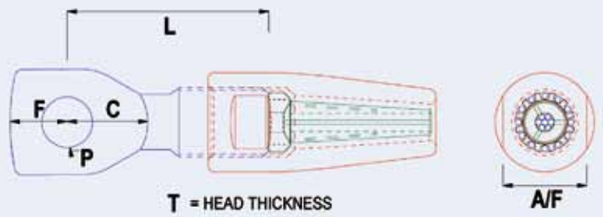
ø wire size	P	F	C	L	T	A/F	weight in gr	Product Code	**Ref. No.**
3	6,3	7	9	22	6,0	9,5	21	CTE03	PS.CTE.03
4	8,0	9	12	28	7,0	11,0	39	CTE04	PS.CTE.04
5	9,5	11	16	32	8,0	14,0	65	CTE05	PS.CTE.05
6	11,0	13	19	38	9,5	17,0	126	CTE06	PS.CTE.06
6	12,7	13	20	43	11,0	17,0	140	CTE06US	PS.CTE.06US
7	12,7	13	20	45	11,0	20,0	165	CTE07	PS.CTE.07
8	12,7	13	20	48	11,0	22,0	235	CTE08DS	PS.CTE.08.DS
8	14,3	16	23	52	13,0	22,0	355	CTE08	PS.CTE.08
8	16,0	19	28	56	15,0	22,0	390	CTE08US	PS.CTE.08.US
10	16,0	19	28	59	15,0	26,0	462	CTE10	PS.CTE.10
10	19,0	22	34	65	18,0	26,0	600	CTE10US	PSCTE10US
12	19,0	22	34	79	18,0	32,0	912	CTE12	PS.CTE.12
14	22,2	26	36	86	22,0	36,0	1344	CTE14	PS.CTE.14
16	25,4	29	41	94	24,0	40,0	1867	CTE16	PS.CTE.16
19	28,6	32	44	98	28,0	44,0	2227	CTE19	PS.CTE.19
22	32,0	36	50	108	32,0	52,0	3440	CTE22	PS.CTE.22
26	35,0	42	55	144	34,0	64,0	5575	CTE26	PS.CTE.26

- The last development for compression fittings in a termination at least as strong as the rated breaking loads of the wire rope. The unique star shaped Crown Ring positions and holds the wire strands in place, eliminating the requirement for awkward wire end bending.
  The shallow angled cone establishes direct mechanical grip on the core and all outer strands.
  Stainless steel grade EN 10088 1.4404 (316) is used on all parts with the exception of the crown ring which is manufactured from Aluminium Bronze. No sealant or packing is required.

- **The part codes in the tables are for 1x19 wire rope construction.**
  Different Cones and Crown Rings are used for 7 strand, Compacted Strand (1 x 19 and 1 x 25)
  C Compacted Strand (1 x 36) CS
  Add suffix -7, -C or -CS for these assemblies after ref. no.

- Spare Cones and Crown Rings available.

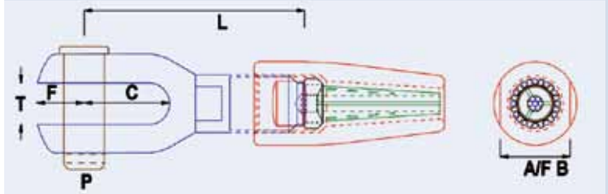
- **All HI-MOD Swageless Terminals are highgloss hand polished.**



Compression Forks

ø wire size	P	F	C	T	L	A/F B	weight in gr	Product Code	**Ref. No.**
3	6,0	7,0	13	6,3	30	9,5	29	CTF03	PS.CTF.03
4	8,0	9,0	16	8,0	40	11,0	60	CTF04	PS.CTF.04
5	9,5	11,0	19	10,0	47	14,0	103	CTF05	PS.CTF.05
6	11,0	12,0	22	11,0	50	19,0	159	CTF06	PS.CTF.06
7	12,0	15,0	25	12,7	58	20,0	239	CTF07	PS.CTF.07
8	12,0	15,0	25	12,7	63	22,0	323	CTF08DS	PS.CTF.08.DS
8	14,0	16,5	28	14,0	70	22,0	395	CTF08	PS.CTF.08
8	16,0	18,0	32	16,0	72	22,0	490	CTF08US	PS.CTF.08.US
10	16,0	18,0	32	16,0	78	26,0	542	CTF10	PS.CTF.10
12	19,0	23,0	38	19,0	93	32,0	918	CTF12	PS.CTF.12
14	22,0	26,0	45	22,2	106	36,0	1464	CTF14	PS.CTF.14
16	25,4	30,5	50	25,4	126	40,0	2125	CTF16	PS.CTF.16
19	28,0	33,0	58	28,6	133	44,0	2616	CTF19	PS.CTF.19
22	32,0	39,0	64	32,0	146	52,0	3890	CTF22	PS.CTF.22
26	35,0	43,5	70	35,0	167	64,0	6393	CTF26	PS.CTF.26

■ **The part codes in the tables are for 1x19 wire rope construction. Different Cones and Crown Rings are used for 7 strand, Compacted Strand (1x19 and 1x25) C, Compacted Strand (1x36) CS. Add suffix -7, -C or -CS for these assemblies after ref. no**

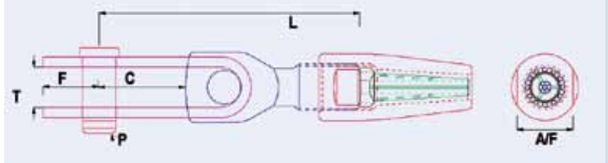


■ **All HI-MOD Swageless Terminals are highgloss hand polished.**

Compression Toggleforks

ø wire size	P	F	C	T	L	A/F	weight in gr	Product Code	**Ref. No.**
3	6,0	8,0	16	7,5	45	9,5	37	CTT03	PS.CTT.03
4	8,0	9,5	20	9,0	53	11,0	71	CTT04	PS.CTT.04
5	9,5	12,0	25	10,0	64	14,0	125	CTT05	PS.CTT.05
6	11,0	17,0	26	14,0	78	19,0	258	CTT06	PS.CTT.06
7	12,0	14,8	29	14,2	89	20,0	327	CTT07	PS.CTT.07
8	12,0	14,8	29	14,2	92	22,0	397	CTT08DS	PS.CTT.08.DS
8	16,0	25,0	40	19,0	116	22,0	700	CTT08US	PS.CTT.08.US
10	16,0	19,0	34	17,5	116	26,0	800	CTT10	PS.CTT.10
12	19,0	25,0	54	22,0	157	32,0	1242	CTT12	PS.CTT.12
14	22,0	30,0	60	24,0	174	36,0	2302	CTT14	PS.CTT.14
16	25,4	32,0	70	28,0	194	40,0	3037	CTT16	PS.CTT.16
19	28,0	38,0	80	30,0	215	44,0	4280	CTT19	PS.CTT.19
22	32,0	50,0	85	34,0	235	52,0	6518	CTT22	PS.CTT.22
26	35,0	50,0	105	38,0	296	64,0	9591	CTT26	PS.CTT.26

■ **The part codes in the tables are for 1x19 wire rope construction. Different Cones and Crown Rings are used for 7 strand, Compacted Strand (1x19 and 1x25) C, Compacted Strand (1x36) CS. Add suffix -7, -C or -CS for these assemblies after ref. no.**



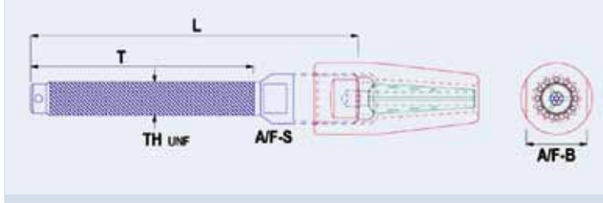
Compression Studs UNF Thread

ø wire size	TH	T	L	A/F S	A/F B	weight in gr	Product Code	**Ref. No.**
3	1/4"	47	67	6	9,5	24	CTS03	PS.CTS.03
4	1/4"	47	67	8	11,0	35	CTS04DS	PS.CTS.04DS
4	5/16"	54	76	8	11,0	42	CTS04	PS.CTS.04
5	5/16"	54	80	9	14,0	65	CTS05DS	PS.CTS.05DS
5	3/8"	68	89	9	14,0	75	CTS05	PS.CTS.05
6	3/8"	68	95	11	17,0	110	CTS06DS	PS.CTS.06DS
6	7/16"	75	99	11	17,0	130	CTS06	PS.CTS.06
6	1/2"	90	117	11	17,0	145	CTS06US	PS.CTS.06US
7	1/2"	90	119	14	20,0	199	CTS07	PS.CTS.07
8	1/2"	90	125	16	22,0	297	CTS08DS	PS.CTS.08DS
8	5/8"	100	135	16	22,0	347	CTS08	PS.CTS.08
10	5/8"	100	140	17	26,0	458	CTS10	PS.CTS.10
10	3/4"	120	158	19	26,0	790	CTS10US	PS.CTS.10US
12	3/4"	120	169	22	32,0	892	CTS12	PS.CTS.12
14	7/8"	140	195	24	36,0	1379	CTS14	PS.CTS.14
16	1"	160	227	28	40,0	1970	CTS16	PS.CTS.16
19	1 1/8"	180	245	32	44,0	2699	CTS19	PS.CTS.19
22	1 1/4"	200	270	36	52,0	4240	CTS22	PS.CTS.22
26	1 3/8"	220	311	44	64,0	6675	CTS26	PS.CTS.26

Metric Thread

3	M 6	47	63	6	9,5	24	CTSM6X03	PS.CTSM.06.03
4	M 6	47	68	8	11,0	35	CTSM6X04	PS.CTSM.06.04
4	M 8	54	74	8	11,0	42	CTSM8X04	PS.CTSM.08.04
5	M 8	54	80	9	14,0	65	CTSM8X05	PS.CTSM.08.05
5	M 10	68	90	9	14,0	75	CTSM10X05	PS.CTSM.10.05
6	M 10	68	95	11	17,0	110	CTSM10X06	PS.CTSM.10.06
6	M 12	90	117	11	17,0	145	CTSM12X06	PS.CTSM.12.06
7	M 12	90	123	14	20,0	199	CTSM12X07	PS.CTSM.12.07
8	M 12	90	129	16	22,0	297	CTSM12X08	PS.CTSM.12.08
8	M 16	100	134	16	22,0	340	CTSM16X08	PS.CTSM.16.08
10	M 16	100	139	17	26,0	453	CTSM16X10	PS.CTSM.16.10
10	M 20	120	158	19	26,0	800	CTSM20X10	PS.CTSM.20.10

■ Available up to 26 mm wire on request
■ Compression studs have right handed thread.
■ Left handed thread available (add Ref. No. with L)
■ **The part codes in the tables are for 1x19 wire rope construction. Different Cones and Crown Rings are used for 7 strand, Compacted Strand (1x19 and 1x25) C, Compacted Strand (1x36) CS. Add suffix -7, -C or -CS for these assemblies after ref. no.**
■ **All HI-MOD Swageless Terminals are highgloss hand polished.**



Stainless Steel Rigging Screws

Rigging Screws - Fork / Fork Including Clevis Pins High Quality Stainless Steel Grade 316

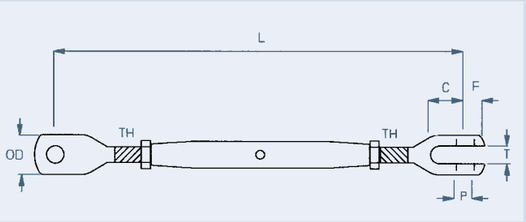
Thread Size UNF	Breaking Load in kN	P PIN	F	C	T	OD	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4"	15,4	6,0	7	13	6,3	14,3	134	204	80	RSFF03	PS01.01.03
5/16"	24,6	8,0	9	16	8,0	18,0	165	243	170	RSFF04	PS01.01.04
3/8"	37,2	9,5	11	19	10,0	22,2	201	301	282	RSFF05	PS01.01.05
7/16"	50,2	11,0	12	22	11,0	25,4	222	330	398	RSFF06	PS01.01.06
1/2"	58,3	12,0	15	25	12,7	28,6	258	390	614	RSFF07	PS01.01.07
5/8"	92,0	14,3	16	28	14,0	34,1	325	480	1430	RSFF08	PS01.01.08✱
5/8"	93,1	16,0	18	32	16,0	38,0	346	502	1434	RSFF10	PS01.01.10✱
3/4"	135,6	19,0	22	38	19,0	47,6	400	571	2418	RSFF12	PS01.01.12✱
7/8"	185,2	22,0	26	45	22,2	54,0	444	641	3577	RSFF14	PS01.01.14✱
1"	241,1	25,4	29	50	25,4	63,5	518	757	5340	RSFF16	PS01.01.16✱
1 1/8"	310,9	28,0	32	58	28,6	69,9	586	856	5618	RSFF19	PS01.01.19✱
1 1/4"	389,6	32,0	38	64	32,0	76,2	634	918	7711	RSFF22	PS01.01.22✱
1 3/8"	477,2	35,0	42	70	35,0	82,5	716	1040	14085	RSFF26	PS01.01.26✱

✱ Bodies with bronze inserts

- **Bigger sizes on request.**
- All threads are precision cut and forged to BS3643 part 1 & 2 and BS1580 part 1 & 2.
- All Forks Manufactured From Solid Bar.
- **All HI-MOD rigging screws above 10 mm wire rope are highgloss hand polished.**
- **In the near future the bodies become a spannerflat instead of a crosshole.**
- All HI-MOD rigging screws:
  Free from structual welds which may reduce the strength and integrity of the product.
- All HI-MOD rigging screws are available in

fork - fork	toggle - fork
fork - eye	toggle - stud
fork - stud	toggle - swageless
eye - eye	eye - swageless
eye - stud	fork - swageless
stud - stud	

types (ask for specification sheets)

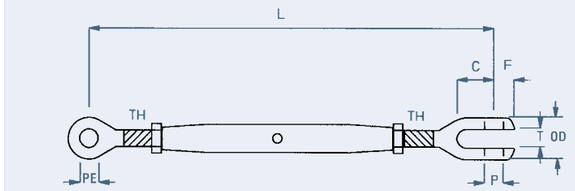


Stainless Steel Rigging Screws

Rigging Screws - Fork / Eye Including Clevis Pin High Quality Stainless Steel Grade 316

Thread Size UNF	P PIN	PE	F	C	T	OD	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4"	6,0	6,3	7	13	6,3	14,3	125	195	67	RSFE03	PS01.02.03
5/16"	8,0	8,4	9	16	8,0	18,0	155	230	135	RSFE04	PS01.02.04
3/8"	9,5	9,8	11	19	10,0	22,2	190	290	235	RSFE05	PS01.02.05
7/16"	11,0	11,5	12	22	11,0	25,4	210	315	332	RSFE06	PS01.02.06
1/2"	12,0	12,7	15	25	12,7	28,6	245	375	521	RSFE07	PS01.02.07
5/8"	14,3	14,5	16	28	14,0	34,1	310	465	1093	RSFE08	PS01.02.08✱
5/8"	16,0	16,5	18	32	16,0	38,0	325	480	1198	RSFE10	PS01.02.10✱
3/4"	19,0	19,5	22	38	19,0	47,6	375	545	1952	RSFE12	PS01.02.12✱
7/8"	22,0	22,2	26	45	22,2	54,0	415	610	3048	RSFE14	PS01.02.14✱
1"	25,0	25,4	29	50	25,4	63,5	485	725	4407	RSFE16	PS01.02.16✱
1 1/8"	28,0	28,6	32	58	28,6	69,9	550	820	4364	RSFE19	PS01.02.19✱
1 1/4"	32,0	32,6	38	64	32,0	76,2	595	880	5992	RSFE22	PS01.02.22✱
1 3/8"	35,0	35,8	42	70	35,0	82,5	675	1000	12122	RSFE26	PS01.02.26✱

✱ Bodies with bronze inserts



- **Breaking load same as Fork - Fork types.**
- **Bigger sizes on request.**
- **All HI-MOD rigging screws above 10 mm wire rope are highgloss hand polished.**

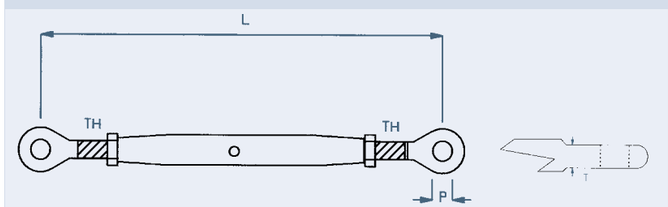
Rigging Screws - Eye / Eye High Quality Stainless Steel Grade 316

Thread Size UNF	P	T	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4"	6,3	6,0	120	190	54	RSEE03	PS01.04.03
5/16"	8,4	7,0	145	220	100	RSEE04	PS01.04.04
3/8"	9,8	8,0	175	275	188	RSEE05	PS01.04.05
7/16"	11,5	9,5	195	300	266	RSEE06	PS01.04.06
1/2"	12,7	11,0	230	365	428	RSEE07	PS01.04.07
5/8"	14,5	14,0	295	450	926	RSEE08	PS01.04.08✱
5/8"	16,5	15,0	305	460	962	RSEE10	PS01.04.10✱
3/4"	19,5	18,0	345	515	1486	RSEE12	PS01.04.12✱
7/8"	22,2	22,0	385	580	2519	RSEE14	PS01.04.14✱
1"	25,4	24,0	450	690	3474	RSEE16	PS01.04.16✱
1 1/8"	28,6	28,0	510	780	4110	RSEE19	PS01.04.19✱
1 1/4"	32,6	32,0	560	840	5273	RSEE22	PS01.04.22✱
1 3/8"	35,5	34,0	630	950	10159	RSEE26	PS01.04.26✱

✱ Bodies with bronze inserts

- **Bigger sizes on request.**

- **Breaking load same as Fork - Fork types.**
- **All HI-MOD rigging screws above 10 mm wire rope are highgloss hand polished.**

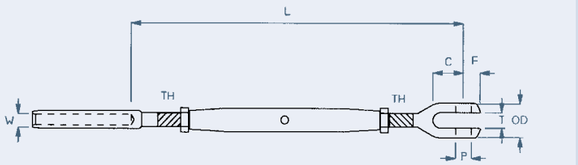


Rigging Screws - Stud / Fork Including Clevis Pin
High Quality Stainless Steel Grade 316

Thread Size UNF	ø wire in mm	P PIN	F	C	T	OD	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4”	3	6,0	7	13	6,3	14,3	125	195	79	RSSF03	PS01.03.03
1/4”	4	6,0	7	13	6,3	14,3	127	197	80	RSSF04DS	PSRS.SF.04DS
5/16”	4	8,0	9	16	8,0	18,0	150	225	151	RSSF04	PS01.03.04
5/16”	5	8,0	9	16	8,0	18,0	152	227	153	RSSF05DS	PSRS.SF.05DS
3/8”	5	9,5	11	19	10,0	22,2	185	285	257	RSSF05	PS01.03.05
3/8”	6	9,5	11	19	10,0	22,2	188	288	261	RSSF06DS	PSRS.SF.06DS
7/16”	6	11,0	12	22	11,0	25,4	200	310	386	RSSF06	PS01.03.06
7/16”	7	11,0	12	22	11,0	25,4	203	313	391	RSSF07DS	PSRS.SF.07DS
1/2“	7	12,0	15	25	12,7	28,6	235	365	591	RSSF07	PS01.03.07
1/2“	8	12,0	15	25	12,7	28,6	240	370	625	RSSF08DS	PSRS.SF.08DS
5/8”	8	14,3	16	28	14,0	34,1	300	455	1185	RSSF08	PS01.03.08✱
5/8”	10	16,0	18	32	16,0	38,0	315	470	1340	RSSF10	PS01.03.10✱
3/4”	12	19,0	22	38	19,0	47,6	360	530	2218	RSSF12	PS01.03.12✱
7/8”	14	22,0	26	45	22,2	54,0	405	600	3376	RSSF14	PS01.03.14✱
1”	16	25,4	29	50	25,4	63,5	475	715	4925	RSSF16	PS01.03.16✱
1 1/8”	19	28,0	32	58	28,6	69,9	530	800	5318	RSSF19	PS01.03.19✱
1 1/4”	22	32,0	38	64	32,0	76,2	575	860	7711	RSSF22	PS01.03.22✱
1 3/8”	26	35,0	42	70	35,0	82,5	655	980	14085	RSSF26	PS01.03.26✱

✱ Bodies with bronze inserts

- **Breaking load same as Fork - Fork type.**
- **Bigger sizes on request.**
- **All HI-MOD rigging screws above 10 mm wire rope are highgloss hand polished.**



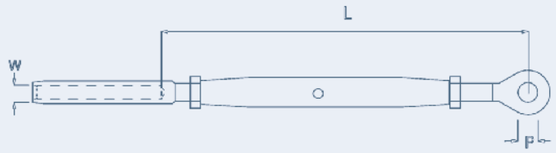
Rigging Screws - Stud / Eye High Quality Stainless Steel Grade 316

Thread Size UNF	ø wire in mm	P	T	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4”	3	6,3	6,0	115	185	62	RSSE03	PS01.05.03
1/4”	4	6,3	6,0	117	187	63	RSSE04DS	PSRS.SE.04DS
5/16”	4	8,4	7,0	140	215	106	RSSE04	PS01.05.04
5/16”	5	8,4	7,0	142	217	108	RSSE05DS	PSRS.SE.05DS
3/8”	5	9,8	8,0	170	270	194	RSSE05	PS01.05.05
3/8”	6	9,8	8,0	173	273	197	RSSE06DS	PSRS.SE.06DS
7/16”	6	11,5	9,5	190	295	298	RSSE06	PS01.05.06
7/16”	7	11,5	9,5	194	299	302	RSSE07DS	PSRS.SE.07DS
1/2”	7	12,7	11,0	220	350	466	RSSE07	PS01.05.07
1/2”	8	12,7	11,0	225	355	500	RSSE08DS	PSRS.SE.08DS
5/8”	8	14,5	14,0	285	410	968	RSSE08	PS01.05.08✱
5/8”	10	16,5	15,0	290	445	1032	RSSE10	PS01.05.10✱
3/4”	12	19,5	18,0	335	505	1626	RSSE12	PS01.05.12✱
7/8”	14	22,2	22,0	375	570	2657	RSSE14	PS01.05.14✱
1”	16	25,4	24,0	440	680	3694	RSSE16	PS01.05.16✱
1 1/8”	19	28,6	28,0	495	765	4670	RSSE19	PS01.05.19✱
1 1/4”	22	32,6	32,0	535	820	5442	RSSE22	PS01.05.22✱
1 3/8”	26	35,8	34,0	615	940	11404	RSSE26	PS01.05.26✱

✱ Bodies with bronze inserts

- **All HI-MOD rigging screws above 10 mm wire rope are highgloss hand polished.**
- **Breaking load same as Fork - Fork type.**
- **Bigger sizes on request.**
- **For HI-MOD rigging screws are available**
  - **Bodies**
  - **Threaded plate toggle forks right - and left handed**
  - **Threaded shackle toggles right - and left handed**
  - **Threaded studs right - and left handed**
  - **Swageless studs right - and left handed**
  - **Threaded eyes right - and left handed**
  - **Nuts right - and left handed**

(Ask for specification sheets)



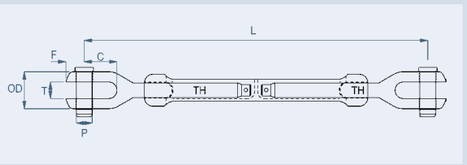
Stainless Steel Turnbuckles with aluminium bronze chromed bodies

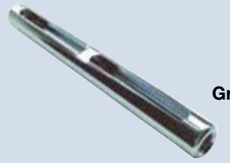
Hi-MOD

Turnbuckles - Fork / Fork including Clevis Pin
High Quality Stainless Steel AISI 316 and bronze chromed bodies

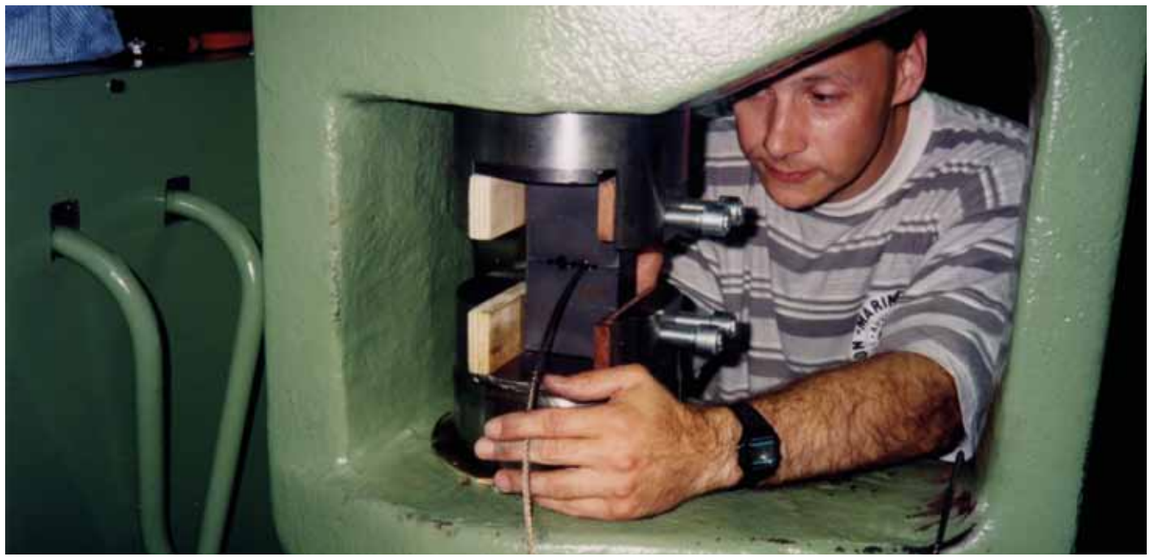
Thread UNF	Breaking Load in kN	P PIN	F	C	OD	T	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4”	14	6,0	7	12,5	14,3	6,2	143	215	84	GTFF03	PSGT.FF.03
5/16“	21	8,0	9	17,0	18,0	7,9	175	255	172	GTFF04	PSGT.FF.04
3/8“	34	9,5	11	19,0	22,7	9,9	211	315	268	GTFF05	PSGT.FF.05
7/16“	46	11,0	12	22,0	25,4	10,9	233	345	388	GTFF06	PSGT.FF.06
1/2“	52	12,0	15	25,0	28,6	12,7	280	420	622	GTFF07	PSGT.FF.07
5/8“	84	14,0	16	28,0	34,1	13,8	318	468	1178	GTFF08	PSGT.FF.08
5/8“	84	16,0	18	32,0	38,0	15,8	342	492	1308	GTFF10	PSGT.FF.10
3/4“	120	19,0	22	38,0	47,6	17,8	393	573	2086	GTFF12	PSGT.FF.12
7/8“	165	22,0	26	45,0	54,0	22,0	450	660	3299	GTFF14	PSGT.FF.14
1“	215	25,4	29	50,0	63,5	25,0	514	754	5255	GTFF16	PSGT.FF.16
1 1/8“	280	28,0	32	58,0	69,9	28,2	581	851	7431	GTFF19	PSGT.FF.19
1 1/4“	350	32,0	38	64,0	76,2	31,8	641	941	9825	GTFF22	PSGT.FF.22
1 3/8“	430	35,0	42	70,0	82,5	34,8	692	1021	12766	GTFF26	PSGT.FF.26

- **This unique Gracilis design lets us machine the bodies from high grade materials**
- **Using this process has allowed us to reduce the weight by 20% without reducing the strength**
- **All forks manufactured from solid bar and above 10 mm wire rope all stainless parts are highgloss hand polished**
- **For traditional boats bodies are available without chrome**
- **Bigger sizes on request**





Gracilis Body



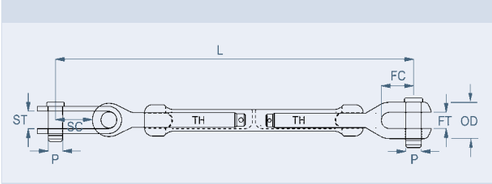
Stainless Steel Turnbuckles with aluminium bronze chromed bodies

Hi-MOD

Turnbuckles - Fork / Toggle including Clevis Pins
High Quality Stainless Steel AISI 316 and aluminium bronze chromed bodies

Thread UNF	P PIN	FC	ST	SC	FT	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4”	6,0	13	7,7	16,0	6,3	157,5	229,5	79	GTFT03	PSGT.FT.03
5/16“	8,0	16	9,0	16,5	8,0	192,0	272,0	181	GTFT04	PSGT.FT.04
3/8“	9,5	19	10,3	20,4	10,0	231,5	335,5	293	GTFT05	PSGT.FT.05
7/16“	11,0	22	14,0	28,0	11,0	260,5	372,5	476	GTFT06	PSGT.FT.06
1/2“	12,0	25	15,0	36,0	12,7	318,0	458,0	721	GTFT07	PSGT.FT.07
5/8“	14,0	28	19,0	39,4	14,0	368,5	518,5	1200	GTFT08	PSGT.FT.08
5/8“	16,0	32	19,0	40,0	16,0	380,5	530,5	1501	GTFT10	PSGT.FT.10
3/4“	19,0	38	22,0	55,0	19,0	443,5	623,5	2548	GTFT12	PSGT.FT12
7/8“	22,0	45	24,0	60,0	22,2	512,0	722,0	4106	GTFT14	PSGT.FT.14
1“	25,4	50	28,0	70,0	25,4	583,5	823,5	6088	GTFT16	PSGT.FT.16
1 1/8“	28,0	58	32,0	80,0	28,6	661,0	931,0	8998	GTFT19	PSGT.FT.19
1 1/4“	32,0	64	36,0	85,0	32,0	730,5	1030,5	12253	GTFT22	PSGT.FT.22
1 3/8“	35,0	70	38,0	105,0	35,0	801,5	1121,5	16175	GTFT26	PSGT.FT.26

- **Breaking load same as fork-fork type**
- **OD size same as fork-fork type**
- **All turnbuckle parts above 10 mm wire rope are highgloss hand polished**
- **For traditional boats bodies are available without chrome**
- **Bigger sizes on request**



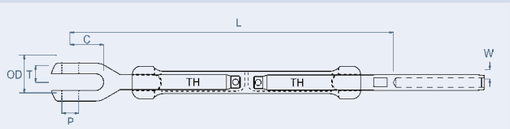
Creole

Stainless Steel Turnbuckles with aluminium bronze bodies

Turnbuckles - Stud / Fork including Clevis Pin
High Quality Stainless Steel AISI 316 and aluminium bronze bodies

Thread UNF	ø wire in mm	P PIN	OD	C	T	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4”	3	6,0	14,3	12,5	6,2	134,0	206,0	83	GTSF03	PSGT.SF.03
1/4“	4	6,0	14,3	12,5	6,2	135,0	207,0	89	GTSF04DS	PSGT.SF.04DS
5/16“	4	8,0	18,0	17,0	7,9	152,5	232,5	153	GTSF04	PSGT.SF.04
5/16“	5	8,0	18,0	17,0	7,9	155,5	235,5	177	GTSF05DS	PSGT.SF.05DS
3/8“	5	9,5	22,2	19,0	9,9	182,0	286,0	268	GTSF05	PSGT.SF.05
3/8“	6	9,5	22,2	19,0	9,9	185,0	289,0	293	GTSF06DS	PSGT.SF.06DS
7/16“	6	11,0	25,4	22,0	10,9	198,0	310,0	464	GTSF06	PSGT.SF.06
7/16“	7	11,0	25,4	22,0	10,9	199,0	311,0	478	GTSF07DS	PSGT.SF.07DS
1/2“	6	12,0	28,6	25,0	12,7	239,0	379,0	666	GTSF06US	PSGT.SF.06US
1/2“	7	12,0	28,6	25,0	12,7	239,0	379,0	698	GTSF07	PSGT.SF.07
1/2“	8	12,0	28,6	25,0	12,7	242,0	382,0	732	GTSF08DS	PSGT.SF.08DS
5/8“	8	16,0	38,0	32,0	15,8	269,0	419,0	1361	GTSF08US	PSGT.SF.08US
5/8“	10	16,0	38,0	32,0	15,8	271,0	421,0	1407	GTSF10	PSGT.SF.10
3/4“	10	19,0	47,6	38,0	17,8	308,5	488,5	2198	GTSF10US	PSGT.SF.10US
3/4“	12	19,0	47,6	38,0	17,8	310,0	490,0	2036	GTSF12	PSGT.SF.12
7/8“	14	22,0	54,0	45,0	22,0	359,0	569,0	3098	GTSF14	PSGT.SF.14
1“	16	25,4	63,5	50,0	25,0	409,0	649,0	4040	GTSF16	PSGT.SF.16
1 1/8“	19	28,0	69,9	58,0	28,2	456,0	726,0	7131	GTSF19	PSGT.SF.19
1 1/4“	22	32,0	76,2	64,0	31,8	503,0	803,0	9825	GTSF22	PSGT.SF.22
1 3/8“	26	35,0	82,5	70,0	34,8	543,0	863,0	12766	GTSF26	PSGT.SF.26

- **Breaking loads same as fork-fork type**
- **All turnbuckle parts above 10 mm wire rope are highgloss hand polished**
- **For traditional boats bodies are available without chrome**
- **Bigger sizes on request**



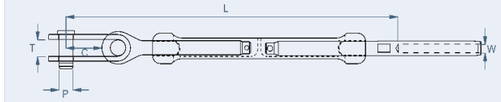
Hi-MOD

Stainless Steel Turnbuckles with aluminium bronze bodies

Turnbuckles - Stud / Toggle including Clevis Pin
High Quality Stainless Steel AISI 316 and aluminium bronze bodies

Thread UNF	ø wire in mm	P PIN	C	T	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4”	3	6,0	14	8	148,5	220,5	78	GTST03	PSGT.ST.03
1/4“	4	6,0	14	8	149,5	221,5	89	GTST04DS	PSGT.ST.04DS
5/16“	4	8,0	18	9	177,5	257,5	153	GTST04	PSGT.ST.04
5/16“	5	8,0	18	9	180,5	260,5	177	GTST05DS	PSGT.ST.05DS
3/8“	5	9,5	21	11	214,5	318,5	268	GTST05	PSGT.ST.05
3/8“	6	9,5	21	11	217,5	321,5	293	GTST06DS	PSGT.ST.06DS
7/16“	6	11,0	25	13	237,5	349,5	464	GTST06	PSGT.ST.06
7/16“	7	11,0	25	13	238,0	350,0	698	GTST07DS	PSGT.ST.07DS
1/2“	6	12,0	27	15	286,0	426,0	666	GTST06US	PSGT.ST.06US
1/2“	7	12,0	27	15	286,0	426,0	698	GTST07	PSGT.ST.07
1/2“	8	12,0	27	15	289,0	429,0	732	GTST08DS	PSGT.ST.08DS
5/8“	8	16,0	36	19	339,5	489,5	1361	GTST08US	PSGT.ST.08US
5/8“	10	16,0	36	19	341,5	491,5	1407	GTST10	PSGT.ST.10
3/4“	10	19,0	45	22	391,5	571,5	2198	GTST10US	PSGT.ST.10US
3/4“	12	19,0	45	22	393,0	573,0	2348	GTST12	PSGT.ST.12
7/8“	14	22,0	53	25	457,5	667,5	3905	GTST14	PSGT.ST.14
1“	16	25,4	62	28	529,0	769,0	5673	GTST16	PSGT.ST.16
1 1/8“	19	28,0	63	32	588,0	858,0	8698	GTST19	PSGT.ST.19
1 1/4“	22	32,0	76	35	662,5	962,5	12253	GTST22	PSGT.ST.22
1 3/8“	26	35,0	92	38	727,0	1047,0	16175	GTST26	PSGT.ST.26

- **Breaking loads same as fork-fork type**
- **All turnbuckle parts above 10 mm wire rope are highgloss hand polished**
- **For traditional boats bodies are available without chrome**
- **Bigger sizes on request**



Creole

Stainless Steel Turnbuckles with aluminium bronze chromed bodies

Hi-MOD

Turnbuckles - Stud / Sternball
High Quality Stainless Steel AISI 316 and aluminium bronze chromed bodies

Thread UNF	ø wire in mm	R	D	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4”	3	6,30	13,0	127,0	199,0	74	GTSB03	PSGT.SB.03
5/16“	4	8,80	17,0	128,0	200,0	212	GTSB04	PSGT.SB.04
3/8“	5	8,80	17,0	182,0	286,0	237	GTSB05	PSGT.SB.05
7/16“	6	10,80	21,0	198,0	310,0	332	GTSB06	PSGT.SB.06
1/2“	7	10,80	21,0	244,0	384,0	538	GTSB07	PSGT.SB.07
1/2“	8	13,80	27,0	250,0	390,0	572	GTSB08DS	PSGT.SB.08DS
5/8“	8	13,80	27,0	284,0	434,0	1004	GTSB08	PSGT.SB.08
5/8“	10	15,80	31,0	287,0	437,0	1050	GTSB10	PSGT.SB.10
3/4“	12	17,80	35,0	327,0	507,0	1696	GTSB12	PSGT.SB.12

- **Breaking loads same as fork-fork type**
- **All turnbuckle parts above 10 mm wire rope are highgloss hand polished**
- **For traditional boats bodies are available without chrome**
- **Bigger sizes on request**

Windrose

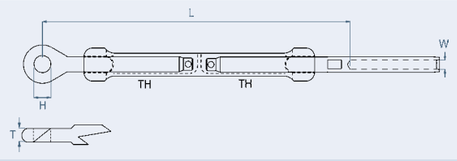
Stainless Steel Turnbuckles with aluminium bronze chromed bodies

Hi-MOD

Turnbuckles - Stud / Eye including Clevis Pin
High Quality Stainless Steel AISI 316 and aluminium bronze chromed bodies

Thread UNF	ø wire in mm	H	T	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4”	3	6,35	5,0	127,0	199,0	74	GTSE03	PSGT.SE.03
1/4“	4	6,35	5,0	128,0	200,0	80	GTSE04DS	PSGT.SE.04DS
5/16“	4	8,00	6,5	149,5	229,5	128	GTSE04	PSGT.SE.04
5/16“	5	8,00	6,5	152,5	232,5	143	GTSE05DS	PSGT.SE.05DS
3/8“	5	9,53	7,8	182,0	286,0	212	GTSE05	PSGT.SE.05
3/8“	6	9,53	7,8	185,0	289,0	237	GTSE06DS	PSGT.SE.06DS
7/16“	6	11,10	9,5	198,5	310,5	332	GTSE06	PSGT.SE.06
7/16“	7	11,10	9,5	-	-	351	GTSE07DS	PSGT.SE.07DS
1/2“	6	12,70	11,5	244,5	384,5	491	GTSE06US	PSGT.SE.06US
1/2“	7	12,70	11,5	244,5	384,5	538	GTSE07	PSGT.SE.07
1/2“	8	12,70	11,5	247,5	387,5	572	GTSE08DS	PSGT.SE.08DS
5/8“	8	14,28	15,0	284,5	434,5	1004	GTSE08US	PSGT.SE.08US
5/8“	10	16,00	15,0	286,5	436,5	1050	GTSE10	PSGT.SE.10
3/4“	10	19,05	17,5	325,5	505,5	1546	GTSE10US	PSGT.SE.10US
3/4“	12	19,05	17,5	327,0	507,0	1696	GTSE12	PSGT.SE.12
7/8“	14	22,20	21,5	378,5	588,5	2759	GTSE14	PSGT.SE.14
1“	16	25,40	23,5	435,0	675,0	4205	GTSE16	PSGT.SE.16
1 1/8“	19	28,58	27,5	488,0	758,0	6271	GTSE19	PSGT.SE.19
1 1/4“	22	32,00	31,0	543,5	843,5	8656	GTSE22	PSGT.SE.22
1 3/8“	26	35,00	33,5	587,0	907,0	11521	GTSE26	PSGT.SE.26

- **Breaking loads same as fork-fork type**
- **All turnbuckle parts above 10 mm wire rope are highgloss hand polished**
- **For traditional boats bodies are available without chrome**
- **Bigger sizes on request**



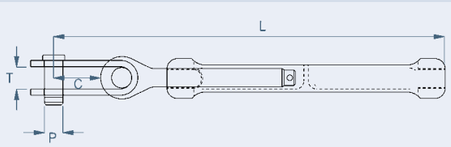
Stainless Steel Turnbuckles with aluminium bronze chromed bodies

Hi-MOD

Turnbuckles - Toggle / Blank including Clevis Pin
High Quality Stainless Steel AISI 316 and aluminium bronze chromed bodies

Thread UNF	P PIN	C	T	Min L	Max L	weight in gr	Product Code	**Ref. No.**
1/4”	6,3	16,0	7,7	137,5	173,5	54	GTTB03	PSGT.TB.03
5/16“	8,0	16,5	9,0	164,0	204,0	126	GTTB04	PSGT.TB.04
3/8“	9,5	20,4	10,3	199,5	251,5	208	GTTB05	PSGT.TB.05
7/16“	11,1	28,0	13,0	225,5	281,5	356	GTTB06	PSGT.TB.06
1/2“	12,7	36,0	15,0	279,0	349,0	536	GTTB07	PSGT.TB.07
5/8“	16,0	40,0	19,0	323,5	398,5	1101	GTTB10	PSGT.TB.10
3/4“	19,0	55,0	22,0	379,5	469,5	1798	GTTB12	PSGT.TB.12
7/8“	22,2	60,0	24,0	442,0	547,0	3031	GTTB14	PSGT.TB.14
1“	25,4	70,0	28,0	504,5	624,5	4398	GTTB16	PSGT.TB.16
1 1/8“	28,6	80,0	32,0	571,0	706,0	6648	GTTB19	PSGT.TB.19
1 1/4“	32,0	85,0	36,0	631,5	781,5	9053	GTTB22	PSGT.TB.22
1 3/8“	35,0	105,0	38,0	693,5	853,5	12175	GTTB26	PSGT.TB.26

- **The blank side of the body has right handed thread**
- **The open part can be used any of the threaded parts, such as an eye-toggle-fork-stud-shackle toggle or swageless studs**
- **Breaking loads same as fork-fork type**
- **All turnbuckle parts above 10 mm wire rope are highgloss hand polished**
- **For traditional boats bodies are available without chrome**
- **Bigger sizes on request**



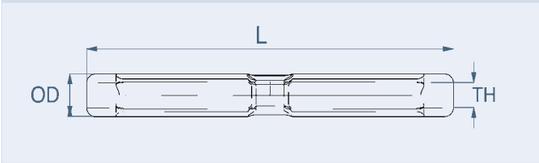
Aluminium bronze chrome bodies

Hi-MOD

Gracilis bronze chrome bodies

Thread Size UNF	OD	L	weight in gr	Product Code	**Ref. No.**
1/4”	10,9	103	34	GTB 1/4	PSGTB 1/4
5/16”	13,8	119	62	GTB 5/16	PSGTB 5/16
3/8”	15,8	147	98	GTB 3/8	PSGTB 3/8
7/16”	18,8	163	148	GTB 7/16	PSGTB 7/16
1/2”	21,9	203	252	GTB 1/2	PSGTB 1/2
5/8”	28,0	228	508	GTB 5/8	PSGTB 5/8
3/4“	31,6	265	736	GTB 3/4	PSGTB 3/4
7/8“	37,7	310	1149	GTB 7/8	PSGTB 7/8
1“	43,6	356	1875	GTB 1	PSGTB 1
1 1/8“	49,5	401	2731	GTB 1 1/8	PSGTB 1 1/8
1 1/4“	53,8	443	3425	GTB 1 1/4	PSGTB 1 1/4
1 3/8“	59,8	476	4766	GTB 1 3/8	PSGTB 1 3/8

- **This unique Gracilis design lets us machine the bodies from high grade materials**
- **Using this process has allowed us to reduce the weight by 20% without reducing the strength**
- **For traditional boats bodies are available without chrome**
- **Bigger sizes on request**



- **For HI-MOD turnbuckles are available**
  - **- threaded plate toggle forks right and left handed**
  - **- threaded studs right and left handed**
  - **- swageless studs right and left handed**
  - **- threaded eyes right and left handed**
  - **- threaded forks right and left handed**
  - **- threaded stemballs right and left handed**
  - **Ask for specification sheets**

Kings Legend

Stainless Steel AISI 316 Threaded parts

Hi-MOD

Threaded parts

- **For all sizes of rigging screws and turnbuckles are available right- and lefthanded UNF open and closed body threaded parts**
  such as: threaded forks
  threaded eyes
  threaded toggle forks
  threaded shackle toggles

- **Ask for specification sheets**

Closed Body

Open Body

Closed Body

Open Body

Closed Body

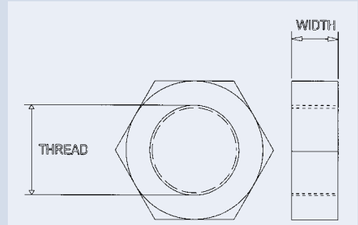
Open Body

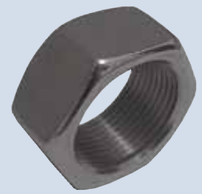
Stainless Steel AISI 316 Nuts

Hi-MOD

Hexagon locking nuts

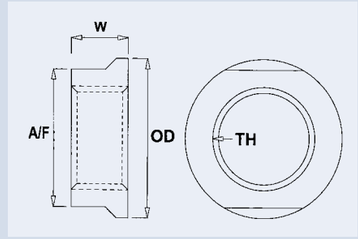
Thread UNF	Width	weight in gr	Product Code	**Ref. No. Right**	**Ref. No. Left**
1/4”	3,8	1,0	NUT1/4	PSNUT1/4R	PSNUT1/4L
5/16”	5,4	2,0	NUT5/16	PSNUT5/16R	PSNUT5/16L
3/8”	6,3	4,0	NUT3/8	PSNUT3/8R	PSNUT3/8L
7/16”	7,8	8,0	NUT7/16	PSNUT7/16R	PSNUT7/16L
1/2”	7,8	9,0	NUT1/2	PSNUT1/2R	PSNUT1/2L
5/8”	10,7	19,0	NUT5/8	PSNUT5/8R	PSNUT5/8L
3/4”	13,1	22,0	NUT3/4	PSNUT3/4R	PSNUT3/4L
7/8”	15,4	46,0	NUT7/8	PSNUT7/8R	PSNUT7/8L
1”	17,3	49,0	NUT1	PSNUT1R	PSNUT1L
1 1/8”	17,8	85,0	NUT11/8	PSNUT11/8R	PSNUT11/8L
1 1/4”	21,6	104,0	NUT11/4	PSNUT11/4R	PSNUT11/4L
1 3/8”	23,0	158,0	NUT13/8	PSNUT13/8R	PSNUT13/8L

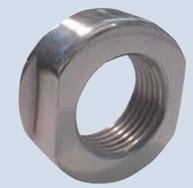




Round locking nuts

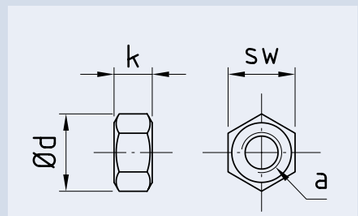
Thread UNF	W	OD	A/F	Product Code	weight in gr	**Ref. No. Right**	**Ref. No. Left**
5/8“	11	22	19	RLN5/8	17,1	PSRLN5/8R	PSRLN5/8L
3/4“	13	27	24	RLN3/4	19,8	PSRLN3/4R	PSRLN3/4L
1“	14	38	33	RLN1	4,4	PSRLN1R	PSRLN1L
1 1/8“	16	44	37	RLN11/8	76,5	PSRLN11/8R	PSRLN11/8L
1 1/4“	18	50	40	RLN11/4	93,6	PSRLN11/4R	PSRLN11/4L
1 3/8“	20	54	46	RLN13/8	142,4	PSRLN13/8R	PSRLN13/8L





Hexagon full nuts

Thread a	d	k	sw	**Min. packing pcs.**	**Ref. No. RH thread**	**Ref. No. LH thread**
M4	7,7	3,2	7	10	I892-0400	I893-0400
M5	8,8	4,0	8	10	I892-0500	I893-0500
M6	11,1	5,0	10	10	I892-0600	I893-0600
M8	14,4	6,5	13	10	I892-0800	I893-0800
M10	18,9	8,0	17	5	I892-1000	I893-1000
M12	21,1	10,0	19	2	I892-1200	I893-1200
M14	24,5	11,0	22	2	I892-1400	I893-1400
M16	26,8	13,0	24	2	I892-1600	I893-1600
M20	33,5	16,0	30	2	I892-2000	I893-2000
M22	35,0	18,0	32	1	I892-2200	I893-2200
M24	39,5	19,0	36	1	I892-2400	I893-2400
M30	50,8	24,0	46	1	I892-3000	I893-3000



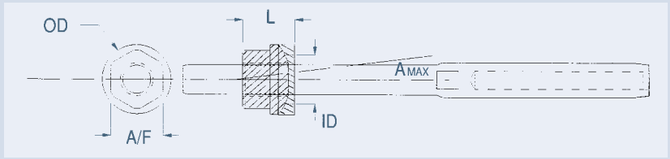
- **Hexagon full nuts are AISI 304**

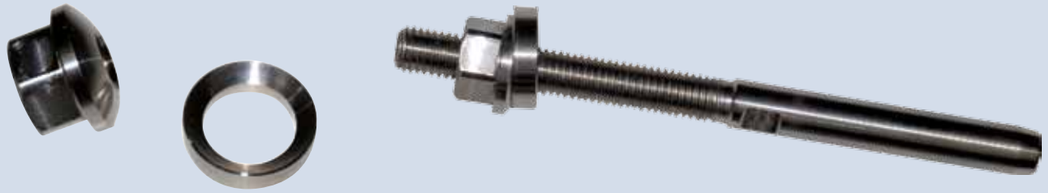
Stainless Steel AISI 316 Spherical nuts and washers

Hi-MOD

Spherical nuts (righthanded thread M) incl. washer

Thread size metric	OD	AF	L	ID	A max.	Product Code	**Ref. No.**
M8	22	17	18	15,0	7°	SNUT08	PSSNUT08
M10	22	17	18	15,0	7°	SNUT10	PSSNUT10
M12	25	19	19	17,5	7°	SNUT12	PSSNUT12





- **Spherical nuts have a rounded off base which fits exactly into the rounded off washer**
- **The swage or swageless stud can make an angle from max. 7 degree from the center line**
- **When somebody puts his weight on a balustrading wire the stud won't be damaged (bended) or when the balustrading part is not exactly vertical the wire will not bend after the stud, but the stud is moving into the right line**
- **The M8 nuts fits on the M8 to 4 studs**
  M8 to 5 studs
- **The M10 nuts fits on the M10 to 5 studs**
  M10 to 6 studs
- **The M12 nuts fits on the M12 to 6 studs**
  M12 to 7 studs
  M12 to 8 studs

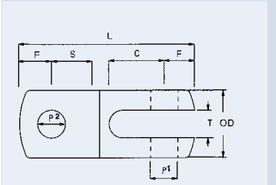
Toggles

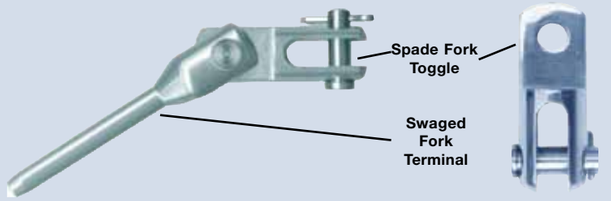
Hi-MOD

Spade & Fork Toggles Including Clevis Pin Stainless Steel AISI 316

P1	F	S	C	T	OD	P2	L	weight in gr	Product Code	**Ref. No.**
6,0	7	10	13	6,3	14,3	6,3	42	22	TOG03	PS08.01.03
8,0	9	13	16	8,0	18,0	8,0	53	44	TOG04	PS08.01.04
9,5	11	15	19	9,5	22,2	9,5	64	84	TOG05	PS08.01.05
11,0	12	17	22	11,1	25,4	11,1	72	100	TOG06	PS08.01.06
12,0	15	21	25	12,7	28,6	12,7	87	180	TOG07	PS08.01.07
14,0	17	22	28	14,3	34,9	14,3	95	292	TOG08	PS08.01.08
16,0	18	24	32	16,0	38,1	16,0	106	424	TOG10	PS08.01.10
19,0	23	30	38	19,1	47,6	19,1	125	724	TOG12	PS08.01.12
22,0	26	36	45	22,2	54,0	22,2	146	825	TOG14	PS08.01.14
25,4	31	39	50	25,4	63,5	25,4	162	1790	TOG16	PS08.01.16
28,0	33	47	58	28,6	69,9	28,6	184	2415	TOG19	PS08.01.19
32,0	39	50	64	32,0	76,2	32,0	207	3229	TOG22	PS08.01.22
35,0	44	54	70	35,0	82,5	35,0	227	5624	TOG26	PS08.01.26

- **This Type of toggle allows a standard fork end to be transformed into a toggle end.**
- **Manufactured without welds.**

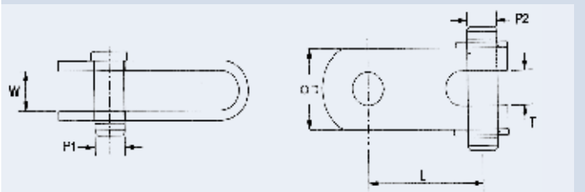




Double Jaw Toggles Including Clevis Pin Stainless Steel AISI 316

P1	P2	W	T	OD	L	weight in gr	Product Code	**Ref. No.**
6,0	6,0	7,7	5,5	17	23	24	DJT06	PS.DJT.06
8,0	8,0	9,0	8,0	19	26	57	DJT08	PS.DJT.08
9,5	9,5	10,3	9,5	23	30	86	DJT10	PS.DJT.10
11,0	11,0	14,0	13,0	25	40	134	DJT11	PS.DJT.11
12,0	12,0	14,2	13,0	29	43	220	DJT12	PS.DJT.12
16,0	16,0	17,5	16,0	40	57	408	DJT16	PS.DJT.16
19,0	19,0	22,0	18,5	50	77	728	DJT19	PS.DJT.19
22,0	22,0	24,5	24,5	55	88	1171	DJT22	PS.DJT.22
25,4	25,0	28,5	24,5	60	100	1628	DJT25	PS.DJT.25
28,0	28,0	32,5	30,0	70	116	2463	DJT28	PS.DJT.28
32,0	32,0	36,5	35,0	80	125	3415	DJT32	PS.DJT.32
35,0	35,0	42,0	36,5	90	152	5414	DJT35	PS.DJT.35

- **This Type of toggle allows a standard eye end to be transformed into a toggle end.**
- **All HI-MOD toggles are highgloss hand polished**

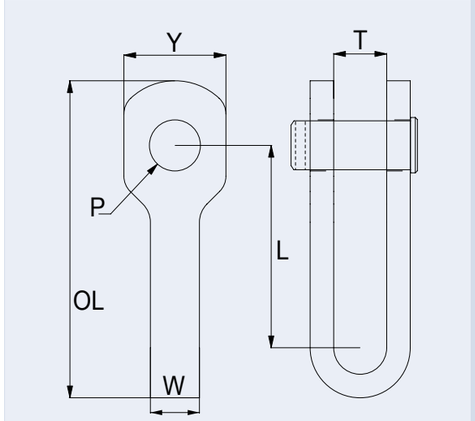


Toggles

Eye-jaw Toggles. Including Clevis Pin Stainless Steel A1S1 316

P	T	Y	L	OL	W	Weight in gr.	Product code	**Ref. No.**
12,7	13	26	51	81	12,5	81	EJT 1/2	PSEJT 12
16,0	17	32	64	101	16,0	223	EJT 5/8	PSEJT 16
19,0	20	39	74	117	19,0	413	EJT 3/4	PSEJT 19
22,0	24	47	84	137	22,0	708	EJT 7/8	PSEJT 22
25,4	27	51	100	158	25,0	891	EJT 1	PSEJT 25
28,0	29	59	108	173	28,0	1481	EJT 1 1/8	PSEJT 28
32,0	34	66	123	197	32,0	1937	EJT 1 1/4	PSEJT 32
35,0	37	70	150	234	35,0	3164	EJT 1 3/8	PSEJT 35

- All HI-MOD toggles are highgloss polished.
- All HI-MOD toggles come supplied with clevis pin and splitpen.

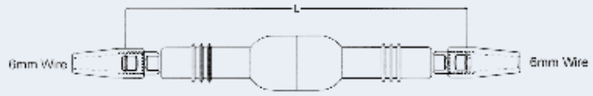


Wire Rigging Insulators

Fail Safe Wire Rigging Insulators

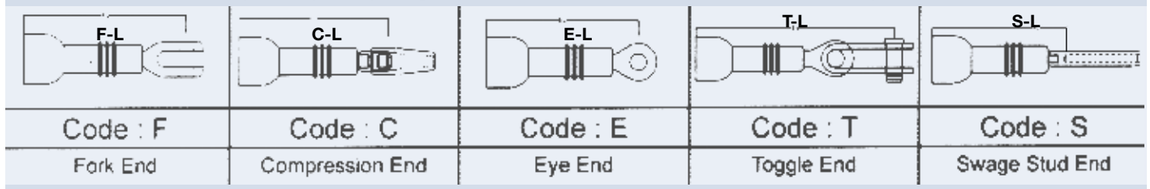
It is the only fail safe rigging insulator for wire available on the market today. Utilising the same features that have made the Hi-Mod compression fittings so popular, this insulator has an internal ball-socket in the main body that threads onto the connecting stud. The nut is insulated from the stainless steel body by a Tufnol™ socket, preventing electrical transference to the insulator body or opposite terminal. Should, for any reason, the Tufnol™ be compromised, the nut will bottom out against the stainless housing. While the backstay will loosen, the insulating studs will remain attached to the insulator body-allowing the rig to be re-tensioned until a repair can be made. The Hi-Mod insulator meets or exceeds current electrical standards for marine backstay insulators. Available with swageless terminals, swage terminals, eye, fork and toggle ends to suit any application.

The insulator diagrams detailed below are showing only half sections of a complete assembly. This allows the end-user to select the terminations they require. For example, if you want an insulator with a compression stud at one end and a fork at the other end then the code would be RICF followed by the wire size.



Ref. No = PSRICC06

The product codes for rigging insulators are made up by suffixing "RI" with the relevant end fittings followed by the wire size.
E.g. The diagram below could be coded RICC06 for wire size 6 mm, RICC07 for wire size 7 mm, etc., etc. as productcode.
The ref. no is PS + productcode, for example PSRICC06 for wire size 6 mm (see drawing).
All insulators can be swaged using most types of swaging machines.
WireTeknik machines require a special pulling tool. For SL Parts see table below for the correct puller code.



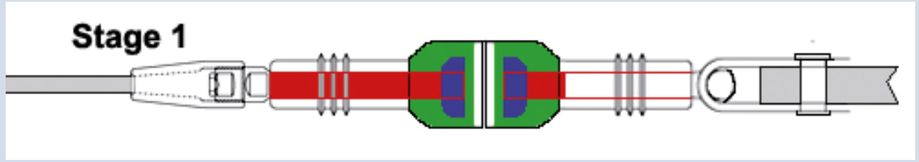
ø wire size	Pin	Hole	C-L	E-L	S-L	F-L	T-L	Puller Code
5	11,0	11,3	106	107	101	121	147	RIP7/16
6	11,0	11,3	110	107	101	121	147	RIP7/16
7	12,0	12,8	131	129	120	142	169	RIP1/2
8	14,0	14,3	153	151	140	164	212	RIP5/8
10	16,0	16,2	159	155	142	176	212	RIP5/8
12	19,0	19,3	192	180	168	207	258	RIP3/4
14	22,0	22,3	222	207	196	238	297	RIP7/8
16	25,4	25,5	258	237	226	271	337	RIP1

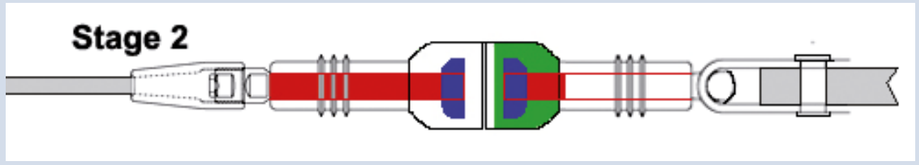
- **CL parts are for 1x19 wire rope construction.**
  Different Cones and Crown Rings are used for 7 strand Compacted Strand ropes.
  Constr. 1 x 19 and 1 x 25 C Compacted Strand constr. 1 x 36 CS
- **Add suffix -7, -C or -CS for these assemblies after ref. no.**
- **Larger sizes manufactured to order.**
- **The insulator exceeds the rated breaking load of the cable.**
- **The 8 mm insulator cannot be swaged on a „Wireteknik A 200"**
- **The 14 and 16 mm insulator cannot be swaged on a „Wireteknik A 300" (ask for information)**

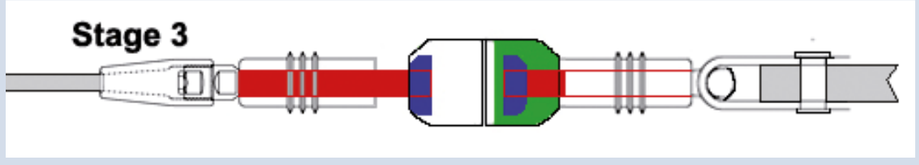
Wire Rigging Insulators

HI-MOD insulators are special because if the boat is struck bij lightning and the inner insulation material is compromised, they will not shatter and break apart (like other insulators). They will collapse slightly but keeps the stay intact.

- **Stage 1 shows the insulating material on both sides of the insulator. The insulating material is coloured green.**
- **Stage 2 shows the insulating material on the LH side gone (maybe after lightning or some other incident).**
- **Stage 3 shows the insulator collapsing, showing the retaining nut falling into place and keeping the insulator intact. The insulation properties are gone and the insulator stops working but the stay does not collapse.**







Rod Rigging Insulators

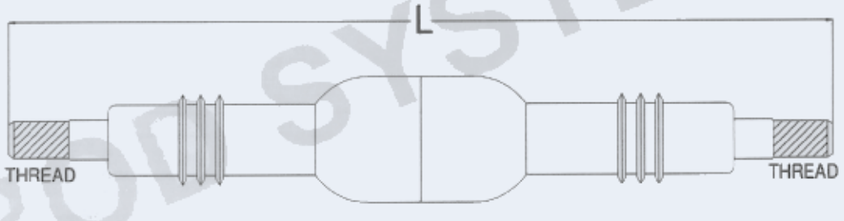
Fail Safe Rod Rigging Insulators

Built around the same design as the award winning Hi-Mod Wire Rigging Insulator, the ROD version of the Hi-Mod insulator has been adapted to fit most sockets and caps. Utilising the same features that have made the Hi-Mod compression fittings so popular, this insulator has an internal ball-socket in the main body that threads onto the connecting stud. The nut is insulated from the stainless steel body by a Tufnol™ socket, preventing electrical transference to the insulator body or opposite terminal. Should, for any reason, the Tufnol™ be compromised, the nut will bottom out against the stainless housing. All Hi-Mod insulators meet or exceed current electrical standards for marine backstay insulators.

The insulator diagram detailed below shows a complete assembly consisting of 2 Rod Demi parts. The Rod Demi part can also be used in conjunction with any Wire Rigging Demi. This results in multiple insulator combinations.
For more information on the Wire Insulator Demi parts or contact us for further information.

Rod size	Socket / Cap Thread UNF RH	Thread mm	L mm	MBL kN	weight in gr	Product Code	**Ref. No.**
- 8	7/16”	17	244	67	560	RIRR-8X7/16	PSRIRR.8.716
- 8	1/2”	19	250	67	580	RIRR-8X1/2	PSRIRR.8.12
- 10	1/2”	19	250	67	790	RIRR-10X1/2	PSRIRR.10.12
- 10	9/16”	21	306	72	800	RIRR-10X9/16	PSRIRR.10.916
- 12	5/8”	24	310	108	1360	RIRR-12X5/8	PSRIRR.12.58
- 15	5/8”	24	310	108	1360	RIRR-15X5/8	PSRIRR.15.58
- 15	3/4”	29	320	108	1490	RIRR-15X3/4	PSRIRR.15.34
- 17	5/8”	24	310	108	1360	RIRR-17X5/8	PSRIRR.17.58
- 17	3/4”	29	320	108	1490	RIRR-17X3/4	PSRIRR.17.34
- 22	3/4”	29	356	157	1490	RIRR-22X3/4	PSRIRR.22.34
- 26	7/8”	33	378	215	1690	RIRR-26X7/8	PSRIRR.26.78
- 30	7/8”	33	378	215	1690	RIRR-30X7/8	PSRIRR.30.78

- **Larger sizes manufactured to order.**
- **All Rod Insulators are inclusive rod sockets.**



ROD SYSTEMS

STA-LOK SWAGELESS TERMINALS

Swageless terminals are a range of high quality high performance wire rope fittings for 1x19, 7x7, 7x19 and compacted wire ropes.

The swageless system has proven itself to be the simplest to assemble and most efficient method of terminating wire ropes. The terminal will work under constant loading and variable shock loading.

STRONGER THAN THE WIRE ROPE

The swageless terminal produces 100% of the rated breaking load of the wire rope and is approved by Lloyds Register of Shipping Certificate No. YSC QA 108.

HAND FITTED INSTEAD OF MACHINE SWAGED

The swageless terminal can be fitted on site using very simple hand tools. Exact length accuracy can be achieved without the need for pre-measurement or tedious calculation.

REUSABLE

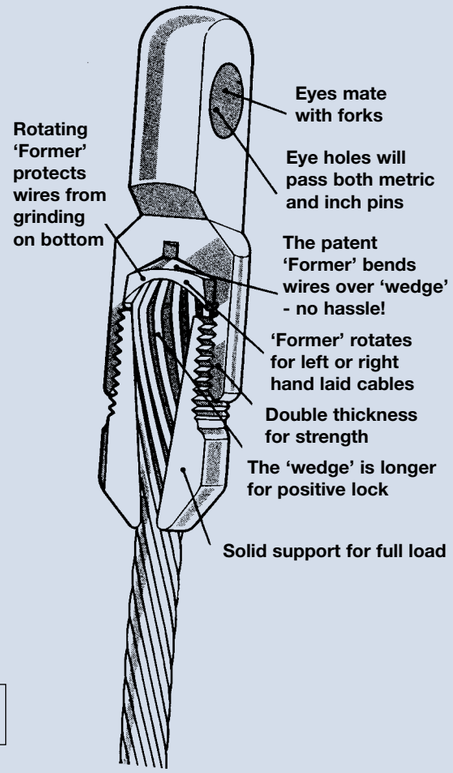
Manufactured from polished stainless steel 316. All swageless terminals are reusable* requiring no servicing, providing long life and very low maintenance costs.

* It is recommended that a new cone component is used.

SWAGELESS Eye, Fork and Stud ends provide standard end fittings for wire rope and are designed to suit most chain plates, turnbuckles and fixing points.

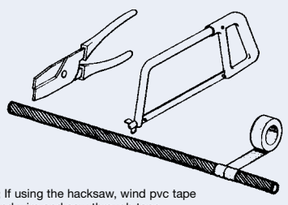
Sizes 3-26 mm are listed, larger sizes are available upon request.

When ordering please state clearly if terminals are for use with compacted wire rope.



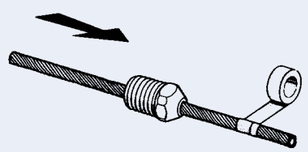
FULL FITTING INSTRUCTIONS PACKED WITH EACH TERMINAL

Step 1 — **Cut Wire Rope**



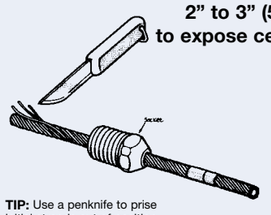
TIP: If using the hacksaw, wind pvc tape around wire and saw through tape.

Step 2 — **Slide socket component over wire**



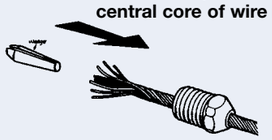
TIP: If using pvc tape around wire approx 12" (300 mm) from end.

Step 3 — **Unravel outer strands 2" to 3" (50-76 mm) to expose central core**



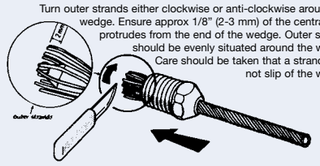
TIP: Use a penknife to prise initial strands out of position

Step 4 — **Slide wedge component over central core of wire rope**



Step 5 — **Reposition outer strands**

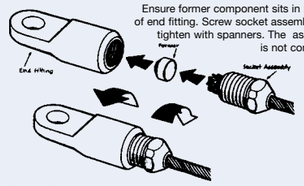
Turn outer strands either clockwise or anti-clockwise around the wedge. Ensure approx 1/8" (2-3 mm) of the central core protrudes from the end of the wedge. Outer strands should be evenly situated around the wedge. Care should be taken that a strand does not slip of the wedge.



TIP: Push the socket towards the end of a wire, while repositioning outer strands, this will help control. When wire strands are in position push socket firmly, as indicated to hold wires in position.

Step 6 — **Final Assembly**

Ensure former component sits in bottom of end fitting. Screw socket assembly and tighten with spanners. The assembly is not complete.

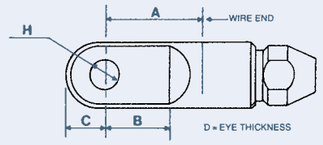


TIP: Undue force is not required to terminate the wire.

Swageless Eye and Fork Terminals Stainless Steel AISI 316

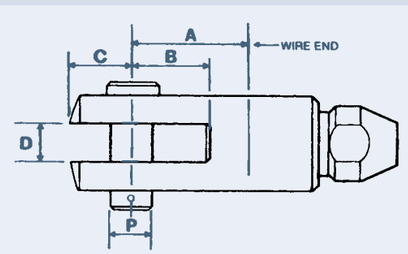
Swageless Eye including **1 x 19 Cone**

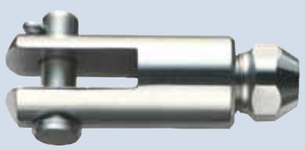
ø Wire in mm	A	B	C	D	H	Product Code	**Ref. No.**
3	17,9	10,0	6,3	5,0	6,5	033-03	SL.33.00.03
4	20,3	14,7	8,0	5,8	8,0	033-04	SL.33.00.04
5	25,9	18,0	10,5	7,5	10,0	033-05	SL.33.00.05
6	31,0	22,2	12,7	9,4	13,0	033-06	SL.33.00.06
7	32,5	24,6	13,6	10,4	13,0	033-07	SL.33.00.07
8	35,7	27,0	14,4	12,0	13,0	033-08-1/2	SL.33.00.58
8	35,7	27,0	15,9	13,4	16,0	033-08-5/8	SL.33.00.68
10	41,1	29,2	17,8	13,4	16,0	033-10	SL.33.00.10
12	42,9	33,3	22,5	19,0	19,5	033-12	SL.33.00.12
14	55,6	38,1	25,5	20,0	22,5	033-14	SL.33.00.14
16	63,8	40,0	27,1	20,0	25,4	033-16-1	SL.33.00.16
19	68,3	49,2	36,5	27,0	28,6	033-19	SL.33.00.19
22	122,2	60,3	39,7	33,3	34,9	033-22	SL.33.00.22
26	128,6	60,3	42,9	33,3	34,9	033-26	SL.33.00.25



Swageless Fork including **1 x 19 Cone**

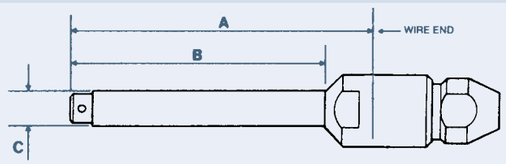
ø Wire in mm	A	B	C	D	P	Product Code	**Ref. No.**
3	15,5	10,0	7,8	5,4	5,0	034-03	SL.34.00.03
4	21,1	14,7	8,9	6,3	6,3	034-04	SL.34.00.04
5	24,4	18,0	11,4	8,0	8,0	034-05	SL.34.00.05
6	30,2	22,2	15,8	9,6	10,9	034-06	SL.34.00.06
7	33,9	25,1	16,0	11,1	10,9	034-07	SL.34.00.07
8	37,0	27,4	19,2	13,7	12,5	034-08	SL.34.00.08
10	39,7	29,4	22,6	13,7	15,6	034-10	SL.34.00.10
12	46,0	33,3	25,5	19,4	18,5	034-12	SL.34.00.12
14	54,0	38,1	31,5	20,4	21,5	034-14	SL.34.00.14
16	57,5	40,0	33,6	20,4	25,0	034-16-1	SL.34.00.16
19	73,8	50,0	40,8	27,8	27,0	034-19	SL.34.00.19
22	152,4	60,3	57,1	34,9	33,0	034-22	SL.34.00.22
26	152,4	60,3	57,1	34,9	33,0	034-26	SL.34.00.25





Swageless Stud Terminal including **1 x 19 Cone**

ø Wire in mm	A	B	C **UNF** Right Hand Thread	Product Code	**Ref. No.**
3	62	56	1/4"	036-03	SL.36.01.03
4	62	56	1/4"	036-04-1/4	SL.36.01.04
4	64	59	5/16'	036-04	SL.36.02.04
5	65	59	5/16'	036-05-5/16	SL.36.02.05
5	78	67	3/8'	036-05	SL.36.03.05
6	84	67	3/8"	036-06-3/8	SL.36.03.06
6	93	75	7/16"	036-06	SL.36.04.06
7	95	75	7/16"	036-07-7/16	SL.36.04.07
7	97	81	1/2"	036-07	SL.36.05.07
8	98	81	1/2"	036-08	SL.36.05.08
8	110	95	5/8"	036-08-5/8	SL.36.06.08
10	111	95	5/8"	036-10	SL.36.06.10
12	139	124	3/4"	036-12	SL.36.07.12
14	170	140	7/8"	036-14	SL.36.08.14
16	172	140	1"	036-16	SL.36.09.16
19	205	171	1 1/8"	036-19	SL.36.10.19
22	281	227	1 1/4"	036-22	SL.36.11.22
26	297	232	1 3/8"	036-25	SL.36.12.25



Swageless Stud Terminal including **1 x 19 Cone**

ø Wire in mm	A	B	C **Metric Thread** Right Hand Thread	Product Code	**Ref. No.**
3	62	56	M 6	036-03-M6R	SL.36.01.03M
4	62	56	M 6	036-04-M6R	SL.36.01.04M
4	64	59	M 8	036-04-M8R	SL.36.02.04M
5	65	59	M 8	036-05-M8R	SL.36.02.05M
5	78	67	M 10	036-05-M10R	SL.36.03.05M
6	84	67	M 10	036-06-M10R	SL.36.03.06M
6	93	75	M 12	036-06-M12R	SL.36.04.06M
7	97	81	M 12	036-07-M12R	SL.36.04.07M
8	98	81	M 12	036-08-M12R	SL.36.05.07M
8	110	95	M 16	036-08-M16R	SL.36.05.08M
10	111	95	M 16	036-10-M16R	SL.36.06.08M
10	129	124	M 20	036-10-M20R	SL.36.06.10M
12	139	124	M 20	036-12-M20R	SL.36.07.12M
14	170	140	M 22	036-14-M22R	SL.36.08.14M
16	172	140	M 24	036-16-M24R	SL.36.09.16M
19	205	171	M 27	036-19-M27R	SL.36.10.19M
22	281	227	M 30	036-22-M30R	SL.36.11.22M
26	297	232	M 36	036-25-M36R	SL.36.12.25M

■ **Suffix L behind Ref. No. for lefthanded thread.**

1 x 19 Cone

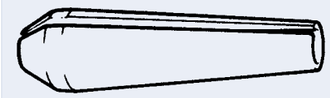
ø Wire in mm	Product Code	**Ref. No.**
3	126-03	SL.12.60.03
4	126-04	SL.12.60.04
5	126-05	SL.12.60.05
6	126-06	SL.12.60.06
7	126-07	SL.12.60.07
8	126-08	SL.12.60.08
10	126-10	SL.12.60.10
12	126-12	SL.12.60.12
14	126-14	SL.12.60.14
16	126-16	SL.12.60.16
19	126-19	SL.12.60.19
22	126-22	SL.12.60.22
26	126-25	SL.12.60.25

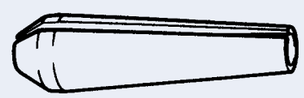
Compacted Strand Cone

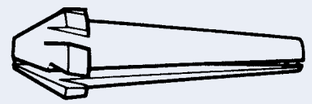
ø Wire in mm	Product Code	**Ref. No.**
3	✱154-03	✱SL.15.40.03
4	✱154-04	✱SL.15.40.04
5	154-05	SL.15.40.05
6	154-06	SL.15.40.06
7	154-07	SL.15.40.07
8	154-08	SL.15.40.08
10	154-10	SL.15.40.10
12	154-12	SL.15.40.12
14	✱✱154-14	✱✱SL.15.40.14
16	✱✱154-16	✱✱SL.15.40.16
19	154-19	SL.15.40.19
22	-	-
26	-	-

7 Strand Cone

ø Wire in mm	Product Code	**Ref. No.**	Min. Packing
3	127-03	SL.12.70.03	5
4	127-04	SL.12.70.04	5
5	127-05	SL.12.70.05	5
6	127-06	SL.12.70.06	5
7	127-07	SL.12.70.07	5
8	127-08	SL.12.70.08	2
10	127-10	SL.12.70.10	2
12	127-12	SL.12.70.12	1
14	127-14	SL.12.70.14	1
16	127-16	SL.12.70.16	1
-	-	-	-
-	-	-	-
-	-	-	-







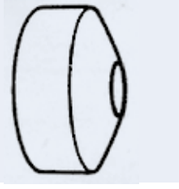
✱ = for rope construction 1 x 7
✱✱ = for rope construction 1 x 25

- **14 and 16 mm diam. compacted construction 1 x 36 needs special cones**
- **When mounting on Compacted strand use lefthanded rope (easier to mount)**

Formers

ø Wire in mm	Product Code	**Ref. No.**	Min. Packing
3	115-03	SL.11.50.03	5
4	115-04	SL.11.50.04	5
5	115-05	SL.11.50.05	5
6	115-06	SL.11.50.06	5
7	115-07	SL.11.50.07	5
8	115-08	SL.11.50.08	2
10	115-10	SL.11.50.10	2
12	115-12	SL.11.50.12	1
14	115-14	SL.11.50.14	1
16	115-16	SL.11.50.16	1
19	115-19	SL.11.50.19	1
22	115-22	SL.11.50.22	1
26	115-26	SL.11.50.26	1

Suitable for use with all wire constructions.

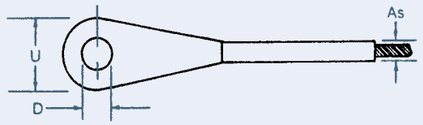


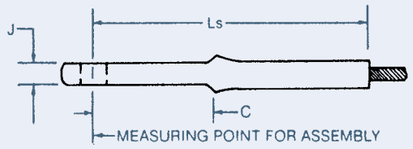
Swage Eye and Forks Stainless Steel AISI 316

Sava Swage MS-20668 Eye Stainless Steel AISI 316

For cable inch	For cable mm	AS	C	D	J	LS	U	Sava Part No.	Ref. No.
						Approx. mm			
1/16	1,5	3,50	13,28	4,83	2,24	45,95	9,12	MS-20668-2X	S206.68.02
3/32	2,5	4,83	17,96	4,83	2,62	54,86	11,13	MS-20668-3X	S206.68.03
1/8	3,0	5,56	18,75	4,83	4,83	65,86	12,70	MS-20668-4X	S206.68.04
5/32	4,0	6,35	21,11	6,35	5,00	76,94	16,25	MS-20668-5X	S206.68.05
3/16	5,0	7,95	22,94	7,95	6,48	80,95	19,84	MS-20668-6X	S206.68.06
7/32	5,5	9,52	25,58	7,95	7,39	93,42	20,65	MS-20668-7X	S206.68.07
1/4	6,0	11,13	28,78	9,52	7,80	103,17	24,59	MS-20668-8X	S206.68.08
9/32	7,0	12,70	31,93	11,12	8,18	114,60	28,17	MS-20668-9X	S206.68.09
5/16	8,0	14,30	34,87	11,12	8,71	126,21	30,94	MS-20668-10X	S206.68.10
3/8	10,0	15,88	42,87	12,70	9,53	151,59	38,10	MS-20668-12X	S206.68.12
7/16	11,0	17,48	49,99	14,27	9,53	174,42	44,45	MS-20668-14X	S206.68.11
1/2	12,0	19,05	53,72	15,88	11,89	200,30	47,63	MS-20668-16X	S206.68.12

- **Sava Swage Terminals are being used on aircraft cables and starboat rigging.**
- **AS and LS is size after swaging**

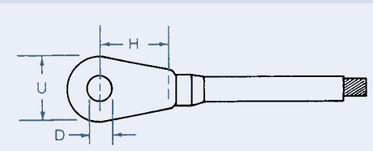


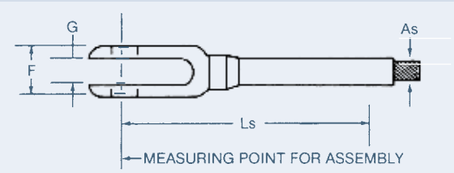


Sava Swage MS-20667 Forks Stainless Steel AISI 316

For cable inch	For cable mm	AS	D	F	G	H	LS	U	Sava PART No.	Ref. No.
							Approx. mm			
1/16	1,5	3,50	4,83	5,54	2,36	12,70	44,45	8,74	MS-20667-2X	S206.67.02
3/32	2,5	4,83	4,83	6,45	2,74	17,02	55,32	11,12	MS-20667-3X	S206.67.03
1/8	3,0	5,56	4,83	9,73	4,95	18,67	66,29	13,89	MS-20667-4X	S206.67.04
5/32	4,0	6,35	6,35	10,31	5,13	20,32	76,20	17,47	MS-20667-5X	S206.67.05
3/16	5,0	7,95	7,95	13,79	6,60	22,35	82,30	19,84	MS-20667-6X	S206.67.06
7/32	5,5	9,52	7,95	15,87	7,52	24,64	94,99	23,01	MS-20667-7X	S206.67.07
1/4	6,0	11,13	9,52	17,47	7,95	27,18	104,14	24,61	MS-20667-8X	S206.67.08
9/32	7,0	12,70	11,12	18,26	8,31	29,72	113,79	29,36	MS-20667-9X	S206.67.09
5/16	8,0	14,30	11,12	19,43	8,84	32,21	123,44	32,13	MS-20667-10X	S206.67.10
3/8	10,0	15,88	12,70	21,08	9,65	38,73	145,60	38,10	MS-20667-12X	S206.67.12
7/16	11,0	17,48	14,27	21,08	9,65	45,11	174,42	-	MS-20667-14X	S206.67.11
1/2	12,0	19,05	15,87	26,29	12,01	48,34	200,30	-	MS-20667-16X	S206.67.12

- **AS and LS is size after swaging**

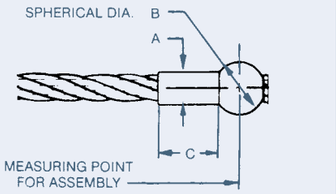




Sava Ball and Shank | Double Shank Ball | Plain Ball Stainless Steel AISI 304

Sava Swage Single Shank Ball Stainless Steel AISI 304

For cable inch	For cable mm	A	B	C	Sava Part No.	Ref. No.
1/16	1,5	2,84	4,83	3,96	MS20.664.C2	S000.51.0S
3/32	2,5	3,36	6,43	5,94	MS20.664.C3	S000.51.5S
1/8	3,0	4,83	8,00	7,95	MS20.664.C4	S000.52.0S
5/32	4,0	5,64	9,63	9,93	MS20.664.C5	S000.52.2S
3/16	5,0	6,48	11,23	11,94	MS20.664.C6	S000.52.5S
1/4	6,0	8,84	14,40	15,87	MS20.664.C8	S000.53.0S
9/32	7,0	9,70	16,05	19,05	MS20.664.C9	S000.53.2S
5/16	8,0	10,49	17,63	20,57	MS20.664.C10	S000.53.5S



General Notes:
Dimensions shown are after swaging.
Strength - generate full rated breaking strength of cable.

- **Sava Ball and Shank Terminals are being used as topslot terminal on some one design class boats and stearing cables on machines like flight simulators**

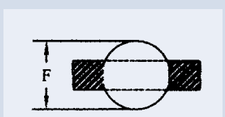
Sava Swage Double Shank Ball Stainless Steel AISI 304

For cable inch	For cable mm	A	B	C	Sava Part No.	Ref. No.
1/16	1,5	2,84	4,83	3,96	MS20.663.C2	S000.51.0D
3/32	2,5	3,36	6,43	5,94	MS20.663.C3	S000.51.5D
1/8	3,0	4,83	8,00	7,95	MS20.663.C4	S000.52.0D
5/32	4,0	5,64	9,63	9,93	MS20.663.C5	S000.52.2D
3/16	5,0	6,48	11,23	11,94	MS20.663.C6	S000.52.5D
1/4	6,0	8,84	14,40	15,87	MS20.663.C8	S000.53.0D
9/32	7,0	9,70	16,05	19,05	MS20.663.C9	S000.53.2D
5/16	8,0	10,49	17,63	20,57	MS20.663.C10	S000.53.5D

General Notes:
Dimensions shown are after swaging.
Strength - generate full rated breaking strength of cable.

Sava Swage Plain Ball Stainless Steel AISI 304

For cable inch	For cable mm	F	Sava Part No.	Ref. No.
3/32	2,5	6,43	BA3-3	SSBA33
1/8	3,0	8,00	BA3-4	SSBA34
5/32	4,0	9,63	BA3-5	SSBA35
3/16	5,0	11,23	BA3-6	SSBA36



General Notes:
Dimensions shown are after swaging.

Yellow Rose

Stainless Steel Stanchion Bases

- stainless steel AISI 316
- drilled for 6 mm diameter bolts
- for stanchions 25 mm outside diameter

Base with square deckplate

Description	Degrees	**Ref. No.**
tilted	85°	HYE4.21.85
straight	90°	HYE4.21.90

Base with tri-angle deckplate

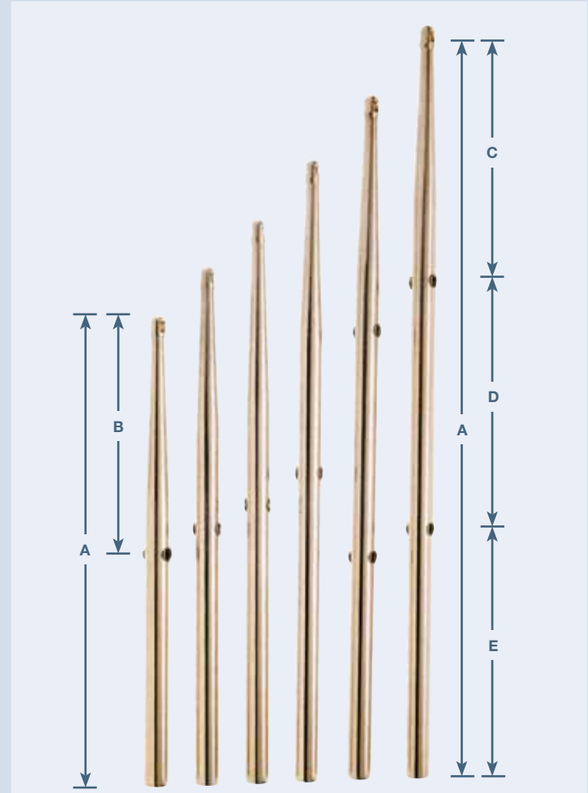
Description	Degrees	**Ref. No.**
tilted	85°	HYE4.22.85
straight	90°	HYE4.22.90

Double baled base

Description	Degrees	**Ref. No.**
tilted	85°	HYE4.23.85
straight	90°	HYE4.23.90

Stainless Steel Stanchions

- high quality polished stainless steel AISI 316
- tube 25 mm outside diameter
- stainless steel ferrule fitted in lower hole on 2- and 3-hole stanchions to prevent chafe
- the bottom hole (to fix into base) is drilled 8 mm diameter and 35 mm from the bottom, square to the guardrail hole(s)
  This is not binding.
  On request we can drill this hole deviated.
  (Please ask for quantities and prices)
- by using aluminium stanchion bases, stanchions are available with plastic socket to reduce (or prevent as far as possible) a galvanic action between the different metals.
  (Please ask us for quantities and prices)
- tapered tube
- solid stainless steel shaped plug welded at top end, drilled for guardrail
- by using a stainless pin instead of stanchion base we can make the stanchion fit on the deck pin (please ask for quantity and prices)



dim A in mm	dim B in mm	dim C in mm	dim D in mm	dim E in mm	Min. Packing	**Ref. No. = Option 1**
450	-	-	-	-	12	HYE1.64.51
450	225	-	-	-	12	HYE1.64.52
500	-	-	-	-	12	HYE1.65.01
500	250	-	-	-	12	HYE1.65.02
550	275	-	-	-	12	HYE1.65.52
610	305	-	-	-	12	HYE1.66.12
610	305	-	-	-	4	HYE1.66.12R
630	300	-	-	-	12	HYE1.66.32
680	300	-	-	-	12	HYE1.66.82
680	-	225	225	225	12	HYE1.66.83
750	360	-	-	-	12	HYE1.67.52
750	-	250	250	250	12	HYE1.67.53

- stanchion with roller
- hole diam 10 mm
- roller diam 50 mm
- roller thicknes 8 mm
- roller from black delrin
- ref. no. HYE16612R

Guard Rail Adjusters

STA-LOK®

A new concept in Guard Rail adjustment. The design of the Guard Rail Adjuster does away with conventional Turnbuckles and is tested stronger than the wire rope.

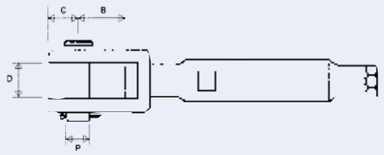
Its design provides weight and length reduction on conventional Turnbuckles without compromise on quality or strength.

- **Manufactured from 316 stainless steel.**
- **Available in sizes from 4 mm, 5 mm and 6 mm wire ropes.**

Guard Rail Adjuster

ø Wire in mm	Fully Open in mm	Fully Closed in mm	B	C	D	P	Min. Packing pcs.	weight in gr	Product Code	**Ref. No.**
4	160	125	14,7	8,8	11,1	8,0	1	11,0	G28-04	SLG2.82.04
5	160	125	14,7	8,8	11,1	8,0	1	11,5	G28-05	SLG2.82.05
6	160	125	14,7	8,8	11,1	8,0	100	12,0	-	✷SLG2.82.06S

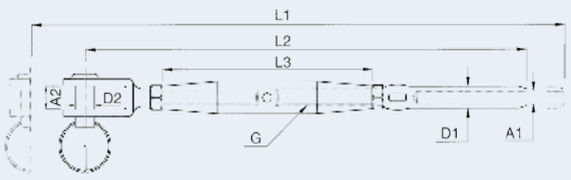
✷ To be swaged with 5,5 mm dies.



BLUE WAVE®

Guard Rail Adjuster

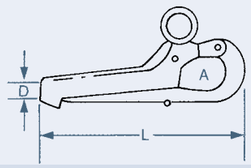
ø Wire in mm	G Metric	L1	L2	L3	A1	A2	D1	D2	Weight in kg/100 pcs.	**Ref. No.**
4	M 6	242	180	92	4,4	8	7,50	5,0	8,7	BW12.04.06
4	M 8	275	199	112	4,4	10	7,50	6,0	13,0	BW12.04.08
5	M 8	281	205	112	5,3	10	9,00	6,0	13,2	BW12.05.08
5	M 10	312	228	120	5,3	11	9,00	8,0	22,5	BW12.05.10
6	M 10	327	243	120	6,5	11	12,58	8,0	25,6	BW12.06.10



Guard Rail Pelican Hooks

INOX LINE

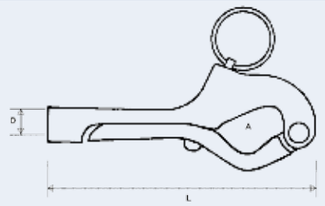
Stainless Steel AISI 316 Guard Rail Pelican Hook



D right	L	A	Weight in kg/100 pcs.	**Ref. No.**
M 6	75	12	7,0	IL24.30.06
M 8	100	14	13,6	IL24.30.08
M 12	150	24	52,5	IL24.30.12

BLUE WAVE®

Stainless Steel AISI 316 Guard Rail Pelican Hook M8



D right	L	A	Weight in kg/100 pcs.	**Ref. No.**
M 8	100	12	12,0	BW45.00.08

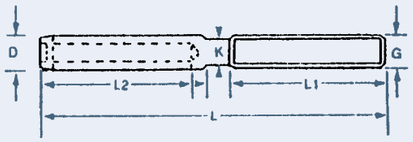
Wichard

Stainless Steel AISI 316 Guard Rail Pelican Hook M8

D right	L	A	Weight in kg/100 pcs.	**Ref. No.**
M 8	100	16	10,6	W28.31.000

BLUE WAVE®

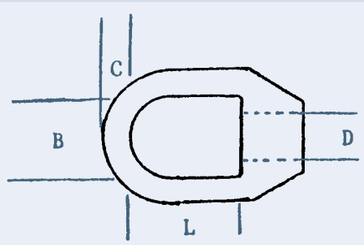
Long Swage Stud Including Nut for Pelican Hooks Stainless Steel AISI 316



ø Wire Size	G	L	L1	L2	K	D	Weight in kg/100 pcs.	**Ref. No. right**
4	M 6	102	48	41	6	7,50	2,4	BW90.04.06.40N
4	M 8	112	50	46	6	7,50	3,0	BW90.04.08N
5	M 8	122	50	58	8	9,00	4,0	BW90.05.08N
6	M 8	135	50	60	11	12,50	8,0	BW90.06.08.57N
6	M 12	162	80	65	-	12,50	11,0	BW90.06.12N
7	M 12	170	80	70	-	14,20	13,3	BW90.07.12N
8	M 12	185	80	83	-	16,00	19,2	BW90.08.12N

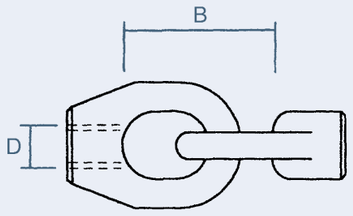
INOX LINE

Guard Rail Single Eye M8 Stainless Steel AISI 316



D right	L	B	C	Weight in kg/100 pcs.	**Ref. No.**
M 8	20	15	6,5	3,0	IL24.40.08

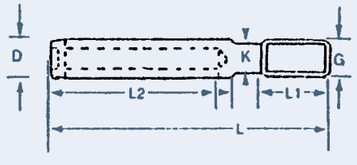
Guard Rail Double Eye M8 Stainless Steel AISI 316



D right	L	B	C	Weight in kg/100 pcs.	**Ref. No.**
M 8	20	37	6,5	6,0	IL24.50.08

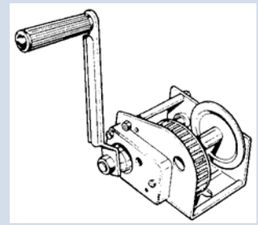
BLUE WAVE®

Guardrail **Short** Swage Stud Stainless Steel AISI 316



ø Wire Size	G	L	L1	L2	K	D	Weight in kg/100 pcs.	**Ref. No. right**
4	M 8	71	12	41	6	7,50	2,0	BW51.04.08
5	M 8	80	12	52	8	9,00	3,0	BW51.05.08
6	M 8	93	12	65	11	12,50	6,0	BW51.06.08

Stainless steel selfbreaking hoisting winches



The safety principle featured by this hoisting winches precludes loads from slipping during hoisting and securing operations.
Confirms to German VBG accident prevention regulations and approved by TÜV Rhineland, certification N S9310897. Safety factor for haulage 1:5.

Model 4 AFM

				Ref. No.
Haulage power	450 kg	Transmission ratio	1 : 2,57	
Hoisting power	80 kg	Diam drum	27 mm	04AF.MR.GS
Dimensions L x W x H	125 x 105 x 95 mm	Drum capacity	8 mtr wire rope	
Weight	2,1 kg		diam 3 mm	

Model 4 AF

				Ref. No.
Haulage power	500 kg	Transmission ratio	1 : 2,57	
Hoisting power	180 kg	Diam drum	36 mm	04AF.LR.GS
Dimensions L x W x H	125 x 145 x 95 mm	Drum capacity	10 mtr wire rope	
Weight	2,5 kg		diam 4 mm	

Model 6 AF

				Ref. No.
Haulage power	750 kg	Transmission ratio	1 : 3,5	
Hoisting power	240 kg	Diam drum	45 mm	06AF.LR.GS
Dimensions L x W x H	160 x 155 x 130 mm	Drum capacity	13 mtr wire rope	
Weight	3,6 kg		diam 5 mm	

Model 8 AF

				Ref. No.
Haulage power	850 kg	Transmission ratio	1 : 4,85	
Hoisting power	270 kg	Diam drum	54 mm	08AF.LR.GS
Dimensions L x W x H	200 x 155 x 170 mm	Drum capacity	16 mtr wire rope	
Weight	5,5 kg		diam 6 mm	

Model 12 AF

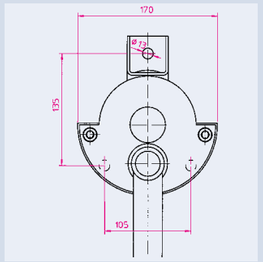
				Ref. No.
Haulage power	1500 kg	Transmission ratio	1 : 9,71	
Hoisting power	490 kg	Diam drum	63 mm	12AF.LR.GS
Dimensions L x W x H	210 x 190 x 170 mm	Drum capacity	10 mtr wire rope	
Weight	7,5 kg		diam 7 mm	

Stainless Steel Winches

Stainless steel selfbreaking hoisting winches for wall mounting

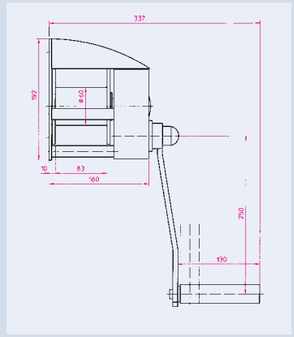
Model WE300

Hoisting power	300 kg
Transmission ratio	1 : 3,1
Diam drum	60 mm
Drum capacity	29 mtr wire rope diam 4 mm
Weight	5 kg
Ref. No.	7622.13.00



Model WE500

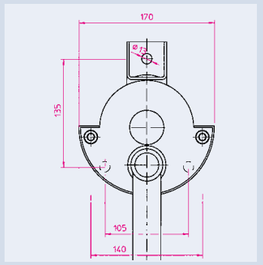
Hoisting power	500 kg
Transmission ratio	1 : 4,5
Diam drum	60 mm
Drum capacity	22 mtr wire rope diam 5 mm
Weight	5 kg
Ref. No.	7622.15.00



Stainless steel selfbreaking hoisting winches for table mounting

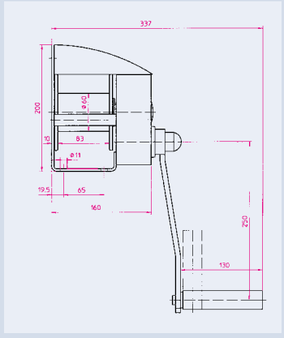
Model KE300

Hoisting power	300 kg
Transmission ratio	1 : 3,1
Diam drum	60 mm
Drum capacity	29 mtr wire rope diam 4 mm
Weight	5 kg
Ref. No.	7624.13.00



Model KE500

Hoisting power	500 kg
Transmission ratio	1 : 4,5
Diam drum	60 mm
Drum capacity	22 mtr wire rope diam 5 mm
Weight	5 kg
Ref. No.	7624.15.00



WE Type

KE Type

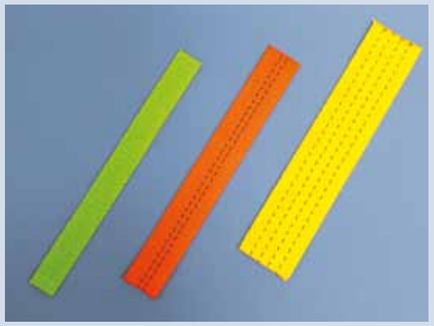
Stainless Steel Ratches | Polyester Webbing | Hooks for Webbing

The 25 mm, 35 and 50 mm ratches are manufactured from stainless steel AISI 316.

Stainless Steel Ratches

Webbing Size in mm	Lashing Capacity daN	**Ref. No.**
25	350	4SS0.00.25L
25	750	4SS0.00.25
35	1000	4SS0.00.35
50	1500	4SS0.00.50

■ **Safety factor 1:2 according to EN 12195-2**



Polyester Webbing in mm	Lashing Capacity daN	**Colors**
25	750	white - black - grey - orange - yellow - blue - green
35	1000	white - black - grey - orange - yellow - blue - green
50	2000	white - black - grey - orange - yellow - blue - green

■ **Safety factor 1:3**
■ **We can offer the stitching.**

Stainless Steel Hooks for Webbing

Webbing Size in mm	Lashing Capacity daN	**Ref. No.**
25	400	4SS0.01.25
35	1000	4SS0.01.35
50	2000	4SS0.01.50

■ **Safety factor 1:2**

Polyester Webbing Slings

- Sofety factor 1:7
- Available in all lenghts
- Available with protected soft eyes
- Available with triangles
- Available with protection covers
- Available with lead weight
- Available with unique traceability number
- Available with CE certificate on request

Polyester Flat Webbing Slings. (according NEN-EN 1492-1)

Product code	W.L.L. (straight)	Colour	Webbing width/mm
PDH30 or PEH30	1	Violet	30
PDH60 or PEH60	2	Green	60
PDH90 or PEH90	3	Yellow	90
PDH120 or PEH120	4	Grey	120
PDH150 or PEH150	5	Red	150
PDH180 or PEH180	6	Brown	180
PDH240 or PEH240	8	Blue	240
PDH300 or PEH300	10	Orange	300

- Bigger sizes on request

Polyester Round Slings. (according NEN-EN 1492-2)

Product code	W.L.L. (straight)	Colour	Webbing width/mm
PEH10 or DREH10	1	Violet	42 or 45
PEH20 or DREH20	2	Green	45 or 50
PEH30 or DREH30	3	Yellow	50 or 55
PEH40 or DREH40	4	Grey	65 or 70
PEH50 or DREH50	5	Red	70 or 75
PEH60 or DREH60	6	Brown	80 or 85
PEH80 or DREH80	8	Blue	90 or 95
PEH100 or DREH100	10	Orange	100 or 110

- Bigger sizes on request

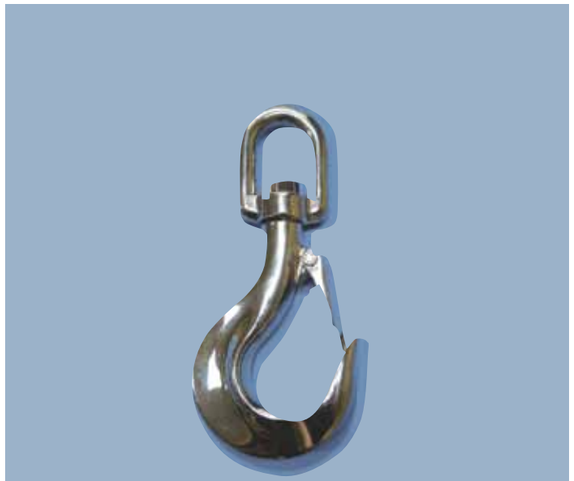
Application

- -40° C tot 100° C (this range can be negatively influenced bij chemicals
- Avoid influences of ultra-violet radiation
- Avoid contact with alkalic materials
- Ice crystals may damage the webbing materials
- Webbing can be dried within the temperature range as mentioned above

Inspection

- Damaged or misshapen lifting eyes
- Damaged stitching
- Cuts and surface chafes
- Heat or friction damage
- Existence and legibility of the label

Pieter Jan Postma Finn Dingy NED 842

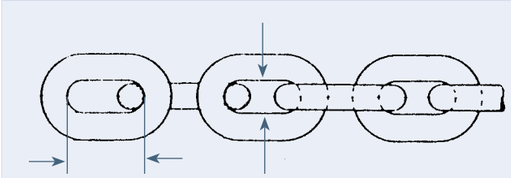


Chains Stainless Steel AISI 316

Stainless Steel **Short** Link Chain Acc. DIN 766

ø	Inside Dimension	W.L.L. in kg safety factor 1:5	m.b.l. in kg	Weight in kg/mtr	Ref. No.
2	12,0 x 4,0	25	125	0,07	● 6011.00.02
3	15,7 x 5,0	56	280	0,16	● 6011.00.03
4	16,0 x 6,0	120	600	0,32	6011.00.04
5	18,5 x 7,0	200	1000	0,50	6011.00.05
6	18,5 x 8,0	280	1400	0,75	6011.00.06
7	22,0 x 9,0	360	1800	1,00	6011.00.07
8	24,0 x 10,0	500	2500	1,35	6011.00.08
10	28,0 x 14,0	800	4000	2,25	6011.00.10
13	36,0 x 18,0	1280	6400	3,80	6011.00.13

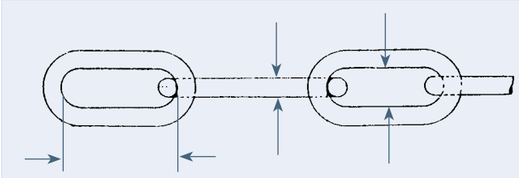
- ■ **Material Stainless Steel AISI 316.**
- ■ **Far East production.**
- ■ **Standard Packing: Bundles off 50 mtr.**
- ● **Bundles off 100 mtr.**
- ■ **AISI 304 on request.**



Stainless Steel **Long** Link Chain Acc. DIN 763

ø	Inside Dimension	m.b.l. in kg	Weight in kg/mtr	Ref. No.
2	22 x 4,0	125	0,06	● 6021.00.02
3	26 x 6,0	280	0,15	● 6021.00.03
4	32 x 8,0	580	0,27	6021.00.04
5	35 x 10,0	1000	0,43	6021.00.05
6	42 x 12,0	1250	0,63	6021.00.06
7	49 x 14,0	1750	0,86	6021.00.07
8	52 x 16,0	2450	1,10	6021.00.08
10	65 x 20,0	3800	1,75	6021.00.10
13	82 x 24,0	6000	2,95	6021.00.13

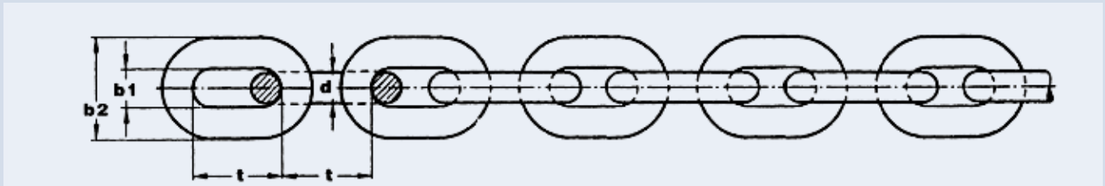
- ■ **Material Stainless Steel AISI 316.**
- ■ **Far East production.**
- ■ **May not be used for lifting.**
- ■ **Standard Packing: Bundles off 50 mtr.**
- ● **Similar to DIN5685 and bundles off 100 mtr.**
- ■ **AISI 304 on request.**



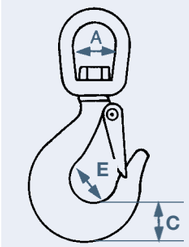
Stainless Steel Chain AISI 316 L
Similar to DIN 766 A **Grade 50**

Dimensions in mm				Weight	W.L.L. in kg	Breaking Load	Ref. No.
d	t	b_1 min.	b_2 max.	kg	factor 1:4	kN	
6	18,5	7,2	20,8	0,75	750	30,0	6011.00.06A
8	24,0	9,6	27,2	1,35	1250	50,0	6011.00.08A
10	28,0	12,0	36,0	2,25	2000	80,0	6011.00.10A
13	36,0	15,6	47,0	3,90	3000	125,0	6011.00.13A

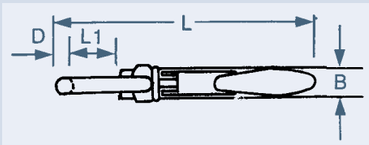
- **Chain is tested.**
- **Chain is calibrated.**
- **Standard Packing: Bundles off 50 mtr.**
- **Longer lengths on request.**
- **European production.**
- **In AISI 304 L on request.**
- **Ideal as high load anchorchain.**
- **Certificates available.**



Stainless Steel AISI 316 **Casted** Swivel Hook **With Safety Latch**

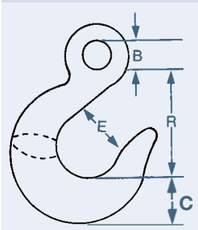


Size in inch	A	B	C	D	L	L1	E	W.L.L. in kg safety factor 1:5	weight in kg/100 pcs.	Ref. No.
1/4	21	12	21	7,0	119	22	16	300	19,0	5340.00.03
5/16	28	14	27	8,5	141	28	19	500	33,0	5340.00.05
3/8	28	16	32	10,0	170	28	20	700	53,0	5340.00.07
1/2	32	20	32	13,0	199	36	30	1000	104,0	5340.00.10
5/8			in preparation					1250		5340.00.12
3/4			in preparation					1500		5340.00.15



E-size is between open safety latch and hook.

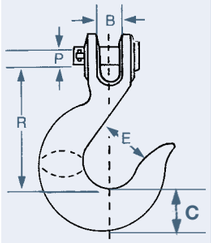
Stainless Steel AISI 316 **Casted** Eye Hook **With Safety Latch**



Size in inch	B	C	E	R	W.L.L. in kg safety factor 1:5	weight in kg/100 pcs.	Ref. No.
1/4	12,5	20	15,0	50	300	16,5	IL22.11.10
5/16	16,0	30	16,5	57	500	28,5	IL22.11.20
3/8	18,0	32	22,0	65	700	41,5	IL22.11.30
1/2	23,5	32	30,0	85	1000	94,5	IL22.11.50

E-size is between open safety latch and hook.

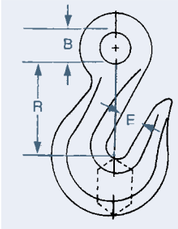
Stainless Steel AISI 316 **Casted** Fork Hook **With Safety Latch**



Size in inch	B	C	E	P	R	W.L.L. in kg safety factor 1:5	weight in kg/100 pcs.	Ref. No.
1/4	10,5	20	13,0	8,5	65	300	17,8	IL22.12.10
5/16	13,0	26	16,0	10,5	69	500	31,5	IL22.12.20
3/8	15,0	30	21,0	11,9	83	700	46,5	IL22.12.30
1/2	19,0	34	30,0	16,0	101	1000	116,0	IL22.12.50

E-size is between open safety latch and hook.

Stainless Steel AISI 316 **Casted** Grab Hook



Size in inch	Breaking Load in kg	B	E	R	weight in kg/100 pcs.	Ref. No.
1/4	1500	12,7	8,2	38	12,0	IL22.13.10
5/16	2500	14,0	10,7	42	18,5	IL22.13.20
3/8	3500	19,0	12,3	48	32,5	IL22.13.30
1/2	5000	22,0	15,8	60	48,5	IL22.13.50

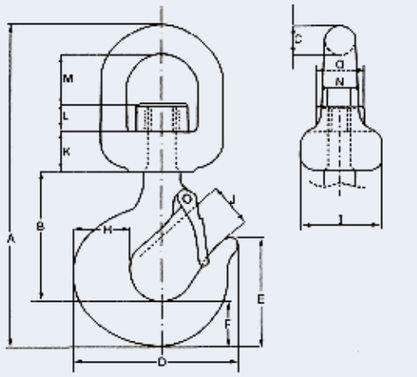
E-size is between open safety latch and hook.

"SEALIFT"

Swivelhooks With Springlatch Stainless Steel AISI 316

W.L.L. in kg	A	C	D	I	J	M
500	160	10	82	24	20	25
750	185	13	102	27	23	31
1000	228	16	115	36	30	40
1500	245	16	120	38	30	40
2000	275	19	135	45	34	52
3200	310	22	150	45	38	52
5000	360	25	185	52	42	70
8000	410	30	200	80	48	70

- **Also available as shankhook.**
- **Hooks and blocks high gloss polished.**
- **Dimensions in mm. Safety factor 5:1**
- **Certificates available.**



Underblocks Stainless Steel AISI 316

We produce Stainless steel underblocks up to SWL = 8000 kg.

Please send your enquiryy with the following details:

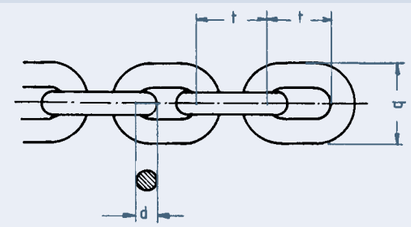
W.L.L.
Wire rope diameter
Own weight

so that we can make you an offer.

Stainless Steel Chains **Grade 50**

d	t	b	W.L.L. in kg Vertical 1:4	Weight in kg/mtr	**Ref. No.**
4	16	13,6	300	0,32	6000.E0.04
5	15	18,5	500	0,54	6000.E0.05
6	18	22,2	750	0,80	6000.E0.06
7	21	25,9	1000	1,10	6000.E0.07
8	24	29,6	1250	1,40	6000.E0.08
10	30	37,0	2000	2,20	6000.E0.10
13	39	48,1	3200	3,80	6000.E0.13
16	48	59,2	5000	5,70	6000.E0.16
18	54	64,8	6300	7,30	6000.E0.18

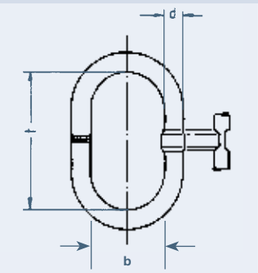
- **Material Stainless Steel AISI 316 L.**
- Round link chains grade 50 similar DIN 5687-1 are non-calibrated, tested chains, which are used as chain-slings.
- Round link chains of stainless steel are mainly used in the Food Industry for example: creameries, dairies, bakeries and slaughter-houses, etc.
- And in the Chemical Industry for example: dye works, pickling and hardening plants.
- Factor 1:4



Stainless Steel Master Links Grade 50

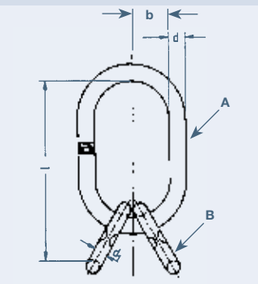
- **Material Stainless Steel AISI 316 L.**
- All master links are equiped with flattened section for use in combination with connection (e.g.: clevis shackle).
- Factor 1:4

For One- and Two-Leg Slings Type NAF



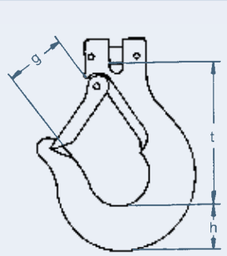
Size	Dimensions in mm d x t x b	W.L.L. in kg vertical 1:4	W.L.L. 2-leg at angle to the vertical in kg 0-45°	weight in kg	**Ref. No.**
6	13 x 110 x 60	1000	1000	0,34	5020.E0.07
8	16 x 110 x 60	1250	1400	0,53	5020.E0.12
10	18 x 135 x 75	2000	1700	0,80	5020.E0.20
13	22 x 160 x 90	3200	2800	1,50	5020.E0.32
16	26 x 180 x 100	5000	4500	2,30	5020.E0.50
16	32 x 200 x 110	7100	7100	3,90	5020.E0.71
18	36 x 260 x 140	8000	9000	6,35	5020.E0.80

For Three- and Four-Leg Slings Type NATF



Size	Dimensions A in mm d x t x b	Dimensions B in mm d^1 x t^1 x b^1	W.L.L. at an angle to the vertical in kg 0-45°	45-60°	weight in kg	**Ref. No.**
6	18 x 135 x 75	13 x 54 x 25	2100	1500	1,20	5040.E0.16
8	22 x 160 x 90	16 x 70 x 34	2650	1800	2,30	5040.E0.26
10	26 x 180 x 100	18 x 85 x 40	4250	3000	3,56	5040.E0.42
13	32 x 200 x 110	22 x 115 x 50	6700	4750	6,05	5040.E0.67
16	36 x 260 x 140	26 x 140 x 65	10000	7500	10,00	5040.E1.00

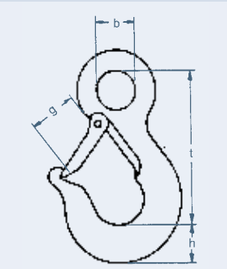
Stainless Steel Clevis Hooks **Grade 50** With Safety Latch Type NGHF



Size	t	g	h	W.L.L. in kg 1:4	weight in kg	**Ref. No.**
6	78	25	22	750	0,40	6550.E0.06
8	97	32	28	1250	0,76	6550.E0.08
10	121	41	34	2000	1,44	6550.E0.10
13	143	48	47	3200	2,60	6550.E0.13
16	180	69	57	5000	4,90	6550.E0.16

- **Material Stainless Steel AISI 316 L.**
- These clevis hooks are a very rugged due to special construction with forged integrated safety latch. The safety latch is very resistant against side shocks. In case of overloading the hook, the latch will spring off. The peak of the hook prevents inadmissable use with the chains. Due to the construction of the hook the gap-opening will not be reduced even with the mounted latch.
- Factor 1:4
- Spare safety latches available.

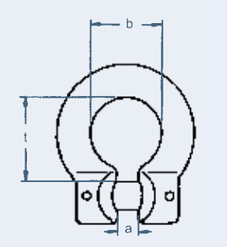
Stainless Steel Eye Hooks **Grade 50** With Safety Latch type NOHF



Size	t	g	b	h	W.L.L. in kg 1:4	weight in kg	**Ref. No.**
4	75	20	17	17	300	0,185	5180.0E.03
6	100	25	25	22	750	0,350	5180.0E.07
8	126	32	27	28	1250	0,790	5180.0E.12
10	160	39	37	34	2000	1,370	5180.0E.20
13	190	51	48	45	3200	3,000	5180.0E.32
16	230	66	55	51	5000	4,800	5180.0E.50
18	230	66	55	51	7000	4,800	5180.0E.70

- **Material Stainless Steel AISI 316 L.**
- With flat section at eye to permit the use of connectors (e.g. clevis shackle).
- Factor 1:4
- Spare safety latches available.

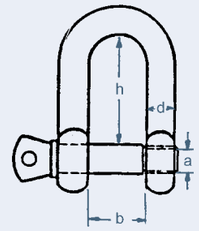
Stainless Steel Clevis Shackle **Grade 50** type NGS



Size	t	b	a	W.L.L. in kg 1:4	weight in kg	**Ref. No.**
6	26	20	7	750	0,15	6561.E0.06
8	30	23	9	1250	0,25	6561.E0.08
10	40	28	11	2000	0,40	6561.E0.10
13	48	38	14	3200	0,50	6561.E0.13
16	50	44	17	5000	1,15	6561.E0.16

- **Material Stainless Steel AISI 316 L.**
- The clevis shackle can be mounted in master links and eye hooks as a connector to have a complete chain sling.
- Factor 1:4

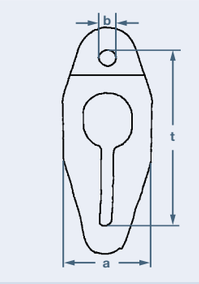
Stainless Steel Shackle **Grade 50** Type NSA



Size	a	d	t	b	W.L.L. in kg 1:4	Weight in kg	**Ref. No.**
4	7	6	23	12	300	0,035	NSA04
5	9	8	24	17	500	0,070	NSA05
6	11	10	35	20	750	0,135	5670.E0.19
8	13	12	42	25	1250	0,220	5670.E0.23
10	18	16	64	32	2000	0,510	5670.E0.31
13	21	19	76	38	3200	0,910	5670.E0.38
16	19	16	64	32	5000	0,550	5670.E0.45
18	22	19	76	38	6300	1,000	5670.E0.53
20	26	22	88	44	9000	1,900	NSA20

- **Material Stainless Steel AISI 316.**
- Factor 1:4
- See page 47 for Industrial D and Bow shackles

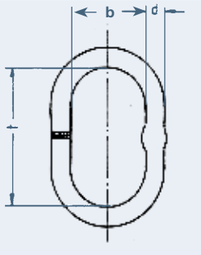
Stainless Steel Shortening Link Type NV



Size	a	b	t	W.L.L. in kg 1:4	Weight in kg	**Ref. No.**
6	47	10	81	750	0,180	6612.E0.06
8	70	12	94	1250	0,380	6612.E0.08
10	80	15	120	2000	0,710	6612.E0.10
13	91	20	150	3200	1,180	6612.E0.13
16	100	21	175	5000	2,300	6612.E0.16

- **Material Stainless Steel AISI 316.**
- Factor 1:4

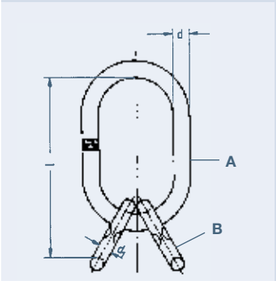
Stainless Steel Master Links **Grade 50** Type NAG one- and two leg **<u>without flattened section</u>**



Dimensions in mm d x t x b	W.L.L. in kg vertical 1:4	W.L.L. 2-leg at angle to the vertical in kg 0-45°	Weight in kg	**Ref. No.**
8 x 54 x 30	300	-	0,07	5020.E0.03B
10 x 80 x 50	500	420	0,15	5020.E0.05B
13 x 110 x 60	1000	1000	0,34	5020.E0.10B
16 x 110 x 60	1250	1400	0,53	5020.E0.12B
18 x 135 x 75	2000	1700	0,80	5020.E0.20B
22 x 160 x 90	3200	2800	1,50	5020.E0.32B
26 x 180 x 100	5000	4500	2,30	5020.E0.50B
32 x 200 x 110	7160	7100	3,90	5020.E0.71B
36 x 260 x 140	8000	9000	6,35	5020.E0.80B

- **Material Stainless Steel AISI 316.**
- Factor 1:4

Stainless Steel Master Links **Grade 50** Type NAK three- and four leg **without flattened section**



Dimensions in mm d x t x b	W.L.L. at an angle to the vertical in kg 0-45°	45-60°	weight in kg	Ref. No.
A 10 x 80 x 50 B 8 x 54 x 30	630	450	0,29	5040.E0.06B
A 13 x 110 x 60 B 10 x 80 x 50	1000	750	0,52	5040.E0.10B
A 18 x 135 x 75 B 13 x 54 x 25	2100	1500	1,20	5040.E0.16B
A 22 x 160 x 90 B 16 x 70 x 34	2650	1800	2,30	5040.E0.26B
A 26 x 180 x 100 B 18 x 85 x 40	4250	3000	3,56	5040.E0.42B
A 32 x 200 x 110 B 22 x 115 x 50	6700	4750	6,05	5040.E0.67B
A 36 x 260 x 140 B 26 x 140 x 65	10000	7500	10,00	5040.E1.00B

Stainless Steel **Grade 50** Pump Lifting Chains and endless chains per enquiry

0 = resistant to erosive surface corrosion

1 = slightly affected by erosive surface corrosion

2 = low resistance to erosive surface corrosion

3 = non-resistant to erosive surface corrosion

L = pitting corrosion, crevice corrosion or stress crack corrosion possible

Work load limit in dependence of chain temperature

	-40°C to +250°C	over 250°C to 350°C*	over 350°C to 450°C
W.L.L.	100 %	75 %	50 %

*1.4462 max. 350°C allowed

Corrosion resistance

Corroding agent	Concentration	Temperature	1.4307 AISI 304L	1.4401 AISI 316	1.4404 AISI 316L	1.4462 AISI 318LN
Ethanoic acid **CH_3COOH**	50 %	20°C	0	0	0	0
Fatty acid **$C_{17}H_{33}COOH$**	100 %	<150°C	0	0	0	0
Fluorine dry **F** wet	100 %	20°C 20°C	0 3	0 3	0 3	0 3
Gallic acid **$C_6H_2(OH)_3COOH$**	100 %	20°C	0	0	0	0
Luric acid **$C_5H_4O_4N_3$**	aqueous solution	20°C	0	0	0	0
Urea **$CO(NH_2)_2$**	100 %	20°C	0	0	0	0
Lactic acid **$C_3H_6O_3$**	10 %	20°C	0	0	0	0
Nitrating acid **$20\%H_2SO_4+5\%\ HNO_3$**		110°C	1	0	0	0
Phosphoric acid **H_3PO_4**	<70 % >70 %	20°C	0 1	0 0	0 0	0 0
Nitric acid **HNO_3**	<66 % 99 %	20°C	0 1	0 2	0 2	0 2
Hydrochloric acid **HCL**	0,5 % 2%	20°C 65°C	1L 3	1L 3	1L 3	1L 3
Sulphuric acid **H_2SO_4**	<5 % 10% 60 % 60 %	20°C 20°C 20°C 70°C	1 2 3 3	0 1 2 3	0 1 2 3	0 1 2 3
Tartaric acid **$COOH(CHOH)_2COOH$**	50 % 50 %	20°C boiling	0 2	0 1	0 1	0 1

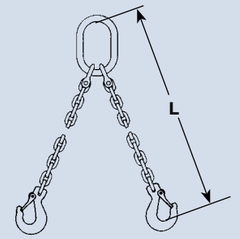
Stainless Steel **Grade 50** Lifting Chain Slings With Safety Hook

Chain Size in mm	W.L.L. one-leg in kg factor 1:4	Ref. No.	W.L.L. in kg, factor 1:4 two-leg at an angle of 0-45°	45-60°	Ref. No.	W.L.L. in kg, factor 1:4 four-leg at an angle of 0-45°	45-60°	Ref. No.
6	750	6101.0E.06	1000	750	6201.0E.06	1600	1120	6401.0E.06
8	1250	6101.0E.08	1700	1250	6201.0E.08	2650	1800	6401.0E.08
10	2000	6101.0E.10	2800	2000	6201.0E.10	4250	3000	6401.0E.10
13	3200	6101.0E.13	4500	3200	6201.0E.13	6700	4750	6401.0E.13
16	5000	6101.0E.16	7000	5000	6201.0E.16	10000	7500	6401.0E.16

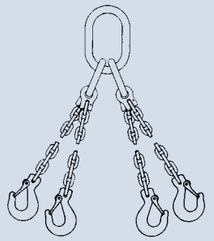
- **Stainless Steel Grade 50**
- **Chain: Material Werkstoff No. 1.4404 = AISI 316 L.**
- **Fittings: Material Werkstoff No. 1.4404 = AISI 316 L.**
- All ref. No. are based on 1 mtr length. An extra price per mtr. is going to be charged if longer is required.

6101.0E.
one-leg chain sling
with safety hook

6201.0E.
two-leg chain sling
with safety hook



6401.0E.
four-leg chain sling
with safety hook

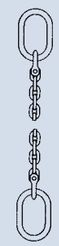


Stainless Steel **Grade 50** Lifting Chain Slings With Master Links

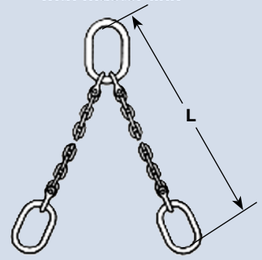
Chain Size in mm	W.L.L. one-leg in kg factor 1:4	Ref. No.	W.L.L. in kg, factor 1:4 two-leg at an angle of 0-45°	45-60°	Ref. No.	W.L.L. in kg, factor 1:4 four-leg at an angle of 0-45°	45-60°	Ref. No.
6	750	6102.0E.06	1000	750	6202.0E.06	1600	1120	6402.0E.06
8	1250	6102.0E.08	1700	1250	6202.0E.08	2650	1800	6402.0E.08
10	2000	6102.0E.10	2800	2000	6202.0E.10	4250	3000	6402.0E.10
13	3200	6102.0E.13	4500	3200	6202.0E.13	6700	4750	6402.0E.13
16	5000	6102.0E.16	7000	5000	6202.0E.16	10000	7500	6402.0E.16

- **Stainless Steel Grade 50**
- **Chain: Material Werkstoff No. 1.4404 = AISI 316 L.**
- **Fittings: Material Werkstoff No. 1.4404 = AISI 316 L.**
- All ref. No. are based on 1 mtr length.
  An extra price per mtr. is going to be charged if longer is required.

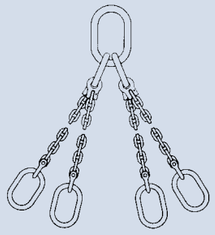
6102.0E.
one-leg chain sling
with master link



6202.0E.
two-leg chain sling
with master link



6402.0E.
four-leg chain sling
with master link



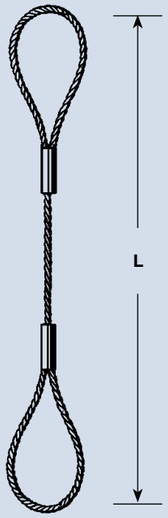
Stainless Steel Lifting Wire Rope Slings

Rope ø in mm	W.L.L. in kg 1:4 one-leg in kg single direct	**Part No. 1102.0E**	**Part No. 1121.0E**	**Part No. 1122.0E**	W.L.L. in kg, factor 1:4 two-leg at an angle of 0-45°	45-60°	**Part No. 1219.0E**
8	600	1102.0E.08	1121.0E.08	1122.0E.08	840	600	1219.0E.08
10	1000	1102.0E.10	1121.0E.10	1122.0E.10	1400	1000	1219.0E.10
12	1300	1102.0E.12	1121.0E.12	1122.0E.12	1800	1300	1219.0E.12
14	1800	1102.0E.14	1121.0E.14	1122.0E.14	2500	1800	1219.0E.14
16	2300	1102.0E.16	1121.0E.16	1122.0E.16	3200	2300	1219.0E.16
20	3600	1102.0E.20	1121.0E.20	1122.0E.20	5000	3600	1219.0E.20

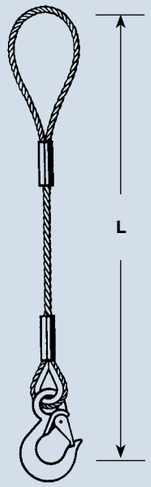
- **Rope: material AISI 316.**
- **Safety Hook and master links: material AISI 316 L Grade 50.**
- **Rope connection with stainless steel ferrules similar to DIN 3093.**
- **Rope connection with copper ferrules available.**

- Higher load capacities on request.
- All ref. No. are based on 1 mtr length. If longer is required, please mention length L..

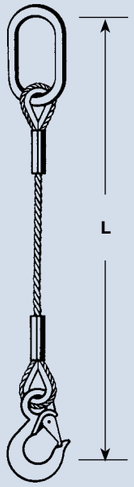
1102.0E.
Wire rope sling with two soft eyes



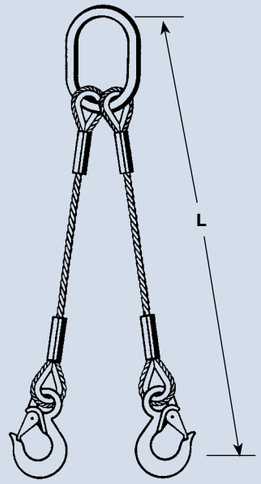
1121.0E.
Wire rope sling with soft eye and safety hook



1122.0E.
Wire rope sling with master link and safety hook



1219.0E.
Two-leg wire rope sling with safety hook



Applications for stainless steel wire rope slings:

- ❒ Food and beverages industries
- ❒ Dairies
- ❒ Abattoirs
- ❒ Bakeries
- ❒ Chemical industries
- ❒ Dye mills
- ❒ Pickling plants
- ❒ Hardening shops
- ❒ Marine

And everywhere where nothing should be allowed to rust.

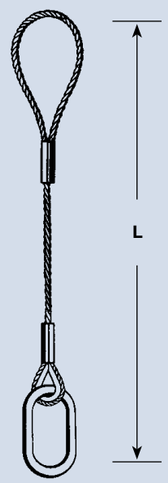
Stainless Steel Lifting Wire Rope Slings

Rope ø in mm	W.L.L. in kg 1:4 one-leg in kg single direct	**Part No. 1113.0E**	**Part No. 1149.0E**	W.L.L. in kg, factor 1:4 Two-leg at an angle of 0-45°	45-60°	**Part No. 1226.0E**
8	600	1113.0E.08	1149.0E.08	840	600	1226.0E.08
10	1000	1113.0E.10	1149.0E.10	1400	1000	1226.0E.10
12	1300	1113.0E.12	1149.0E.12	1800	1300	1226.0E.12
14	1800	1113.0E.14	1149.0E.14	2500	1800	1226.0E.14
16	2300	1113.0E.16	1149.0E.16	3200	2300	1226.0E.16
20	3600	1113.0E.20	1149.0E.20	5000	3600	1226.0E.20

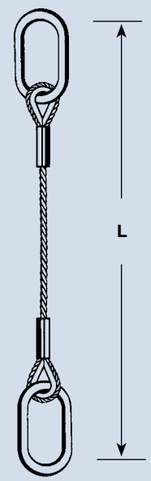
- **Rope: material AISI 316**
- **Master links: material AISI 316 L Grade 50**
- **Rope connection with stainless steel ferrules similar to DIN 3093**
- **Rope connection with copper ferrules available.**

- Higher load capacities on request.
- All ref. No. are based on 1 mtr length. If longer is required, please mention length L.

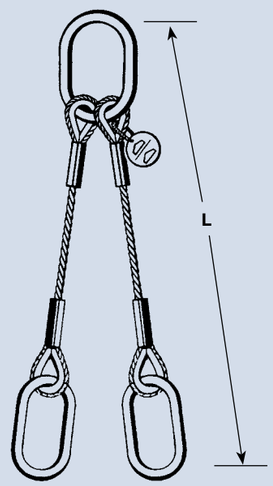
1113.0E.
Wire rope sling with soft eye and master link



1149.0E.
Wire rope sling with master links



1226.0E.
Two-leg wire rope sling with master links



Applications for stainless steel wire rope slings:

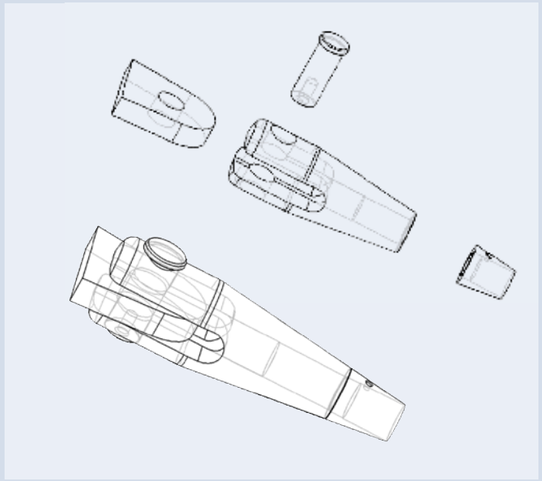
- ❒ Food and beverages industries
- ❒ Dairies
- ❒ Abattoirs
- ❒ Bakeries
- ❒ Chemical industries
- ❒ Dye mills
- ❒ Pickling plants
- ❒ Hardening shops
- ❒ Marine

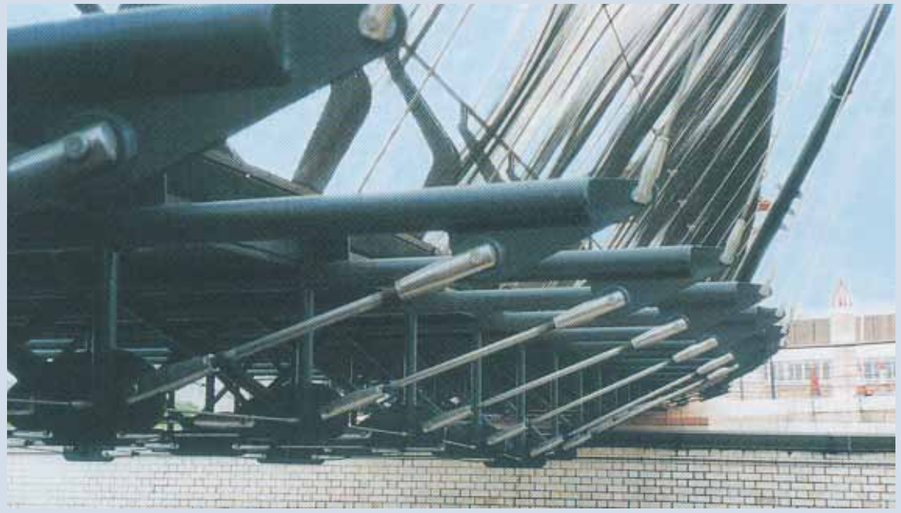
And everywhere where nothing should be allowed to rust.

- Also available with stainless steel AISI 316 D-shackles with E-type safety pin instead of lower master link.

The system

The standard tie bar system comprises of a bar with a left hand and right hand threaded fork at opposite ends. Once installed the bar can be rotated to expand or contract the fork's pin centres. Special spanner flats can be added at the ends of the bars to facilitate rotation. The ADJ value in the table on the next page details the amount of adjustment at each fork end. Once installed the forks are locked into position by tightening the tapered locking nuts using a 'C' pin spanner. The special tapered locking nuts also hide excessive bar threads. The forks benefit from 'Double Headed' clevis pins which are fastened into position using a standard 'Allen' key.





The Applications

Modern developments in construction technology have focused on the production of light sturdy structures. Bar-braced structures are a key part of current systems and can be expected to further increase in relevence. It is our policy to be at the forefront of developing such eonomic and versatile technologies. By combining an understanding of the relevant aesthetic and scientific principles, we are able to provide elegant yet reliable solutions to tension member problems. The system is made from high grade materials resulting in extra strength and at the same time demonstrates design features such as the tapered locking nut which hides bar threads thus providing a clean cosmetic appearance.

Adjuster Forks

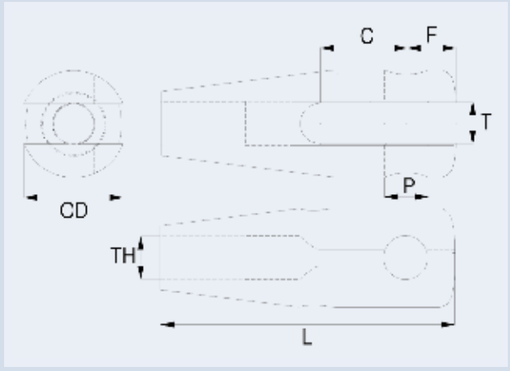
The forks and pins are manufactures from a Duplex grade of stainless steel which offers higher corrosion resistance and mechanical properties than marine grade 316 (EN 10088 1 4401). Designed in accordance with BS 5950-1:2000 and EN 1993-1-8:2005. All components are produced using the latest technology in CNC equipment. They are manufactured in accordance with our quality systems and finished to a N4 standard (240 grit satin). Bar lengths are available up to 6m. Lengths exceeding 6m are also available by utilising a bar coupler.

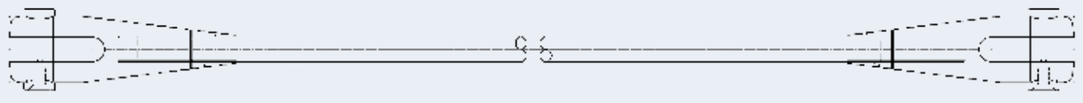
Thread Metric	PIN P in mm	T in mm	C in mm	F in mm	ADJ in mm	OD in mm	L in mm	Yield Load 0.2% kN*	Ultimate Load kN*	**Part Code**
M10 x 1.50	10	10	20	11,2	20	25	68,7	26,1	40,6	SBFM.10
M12 x 1.75	12	12	24	13,8	24	32	82,8	37,8	58,8	SBFM.12
M16 x 2.00	16	15	32	18,4	32	40	109,9	70,7	109,9	SBFM.16
M20 x 2.50	20	19	40	23,0	40	50	137,5	110,3	171,5	SBFM.20
M24 x 3.00	24	24	48	27,6	48	60	165,6	158,9	247,1	SBFM.24
M27 x 3.00	27	26	54	31,1	54	70	185,9	206,6	321,3	SBFM.27
M30 x 3.50	30	29	60	34,5	60	75	206,5	252,6	485,8	SBFM.30
M33 x 3.50	33	32	66	38,0	66	80	227,3	312,3	571,9	SBFM.33
M36 x 4.00	36	34	72	41,4	72	90	247,4	367,7	638,2	SBFM.36
M39 x 4.00	39	38	78	44,9	78	100	268,7	439,2	784,7	SBFM.39

* In accordance with BS5950-1:2000 and EN 1993-1-8:2005.

Note: If the forks are at maximum adjustment then half a diameter of thread will be visible after the Taper Nut has been fully tightened.

- Sizes above M39 also available - please contact us for further details.
- Suffix partcode with R or L for right or left handed thread.





Bars

The range of tie bars are manufactured from a high quality stainless steel grade 316 with rolled threads to BS3643. Manufactured to order and available up to 6m lengths. Longer lengths are available by using bar couplers.

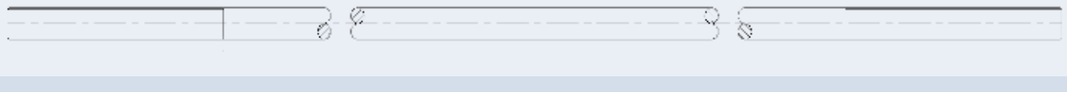
Thread Metric	Ultimate Stress kN*	Yield Stress kN*	Stress Area mm^2	Yield Load kN*	Ultimate Load kN*	**Part Code**
M10 x 1.50	700	450	58	26,1	40,6	SBM.10
M12 x 1.75	700	450	84	37,8	58,8	SBM.12
M16 x 2.00	700	450	157	70,7	109,9	SBM.16
M20 x 2.50	700	450	245	110,3	171,5	SBM.20
M24 x 3.00	700	450	353	158,9	247,1	SBM.24
M27 x 3.00	700	450	459	206,6	321,3	SBM.27
M30 x 3.50	700	450	561	252,6	485,8	SBM.30
M33 x 3.50	700	450	694	312,3	571,9	SBM.33
M36 x 4.00	700	450	817	367,7	638,2	SBM.36
M39 x 4.00	700	450	976	439,2	784,7	SBM.39

* In accordance with BS5950-1:2000 and EN 1993-1-8:2005.

■ Bars are also available from "NITRONIC 50" for higher breaking loads.

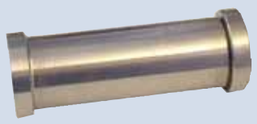
Bars are generally used on:

■ Membrane strucures
■ Lightweight steel structures
■ Footbridges
■ Glass facades



Clevis Pin

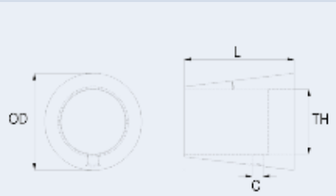
L in mm	OD in mm	HD in mm	C/S Screw	**Part Code**
25	10	12,7	M3 x 6	BDHP.10
32	12	14,0	M5 x 12	BDHP.12
40	16	19,0	M5 x 12	BDHP.16
50	20	24,0	M6 x 12	BDHP.20
60	24	28,0	M6 x 12	BDHP.24
70	27	32,0	M6 x 12	BDHP.27
75	30	35,0	M8 x 16	BDHP.30
80	33	38,0	M8 x 16	BDHP.33
90	36	42,0	M8 x 16	BDHP.36
100	39	45,0	M8 x 16	BDHP.39



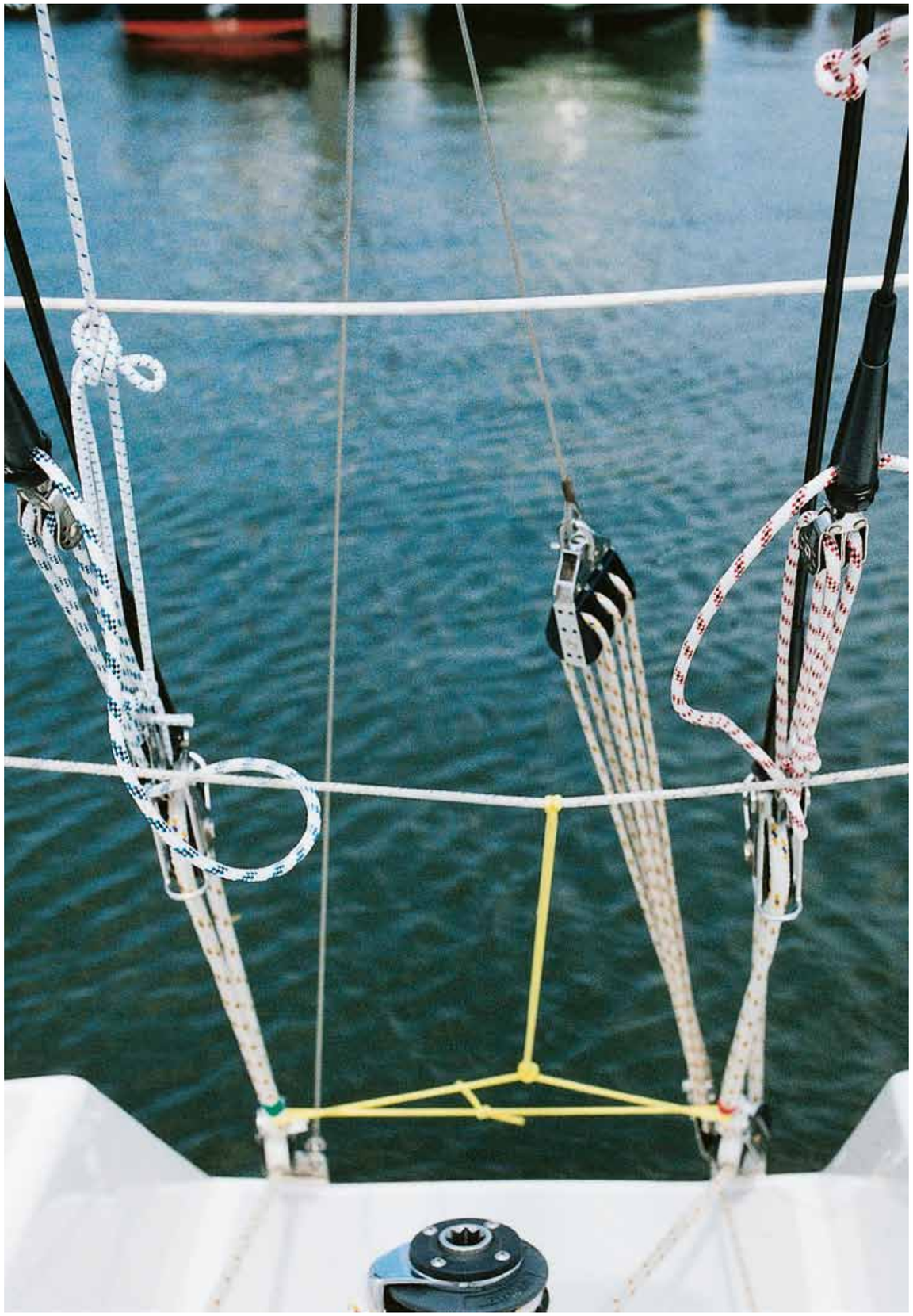
Taper Lock Nut

TH	OD in mm	L in mm	C in mm	**Part Code**
M10 x 1.50	15	17,0	3,5	TLNM.10
M12 x 1.75	19	20,4	3,5	TLNM.12
M16 x 2.00	25	27,2	3,5	TLNM.16
M20 x 2.50	30	34,0	3,5	TLNM.20
M24 x 3.00	36	40,8	4,0	TLNM.24
M27 x 3.00	42	45,9	4,0	TLNM.27
M30 x 3.50	45	51,0	4,0	TLNM.30
M33 x 3.50	48	56,1	5,0	TLNM.33
M36 x 4.00	54	61,2	5,0	TLNM.36
M39 x 4.00	60	66,3	5,0	TLNM.39

■ Suffix partcode with R or L for right or left handed thread.



Lemster Aak 'Vliegent Hart'



Aramid Fibers - High Modulus Polyethylene Covered (HMPE)

Light and durable high modulus fiber cable can replace metallic rods or wire and is recommended for straight line applications. This cable comprises parallel laid high modulus fibres such as Kevlar 49® or Twaron 1055® which are held together and protected by a polyethylene sheath. The parallel construction is compact and uniform and the orientation of the fibres is in line with the working stress on the cable. This results in the optimum utilisation of the fibre properties and guarantees a very high modulus and a very low stretch cable. The polyethylene cover is highly resistant to physical abrasion as well as chemical and atmospheric attack. The cable which is flexible when off tension offers significant weight savings ans is primarily used for backstays, running backstays and checkstays in yachting.

- One of the first applications for aramid fibre cables were in the antennae and electrical industries, as insulating guys, catanaries and support systems, where the tensile properties and resistance to UV degradation ensure a long and essentially maintenance free life.
- Furthermore it is been used in urban transport systems as support cables for tram and trolley bus overhead conductors.

Black Kevlar 49® Cable (White Kevlar Cable on request)

Strength in tonnes	Outside ø in mm	Weight in kg/ mtr.	Equivelent Stainless Steel 1 x 19	Weight in kg/ mtr.	**Ref. No.**
3,0	7,1	0,040	5,0	0,124	KCB003
5,0	8,9	0,058	6,0	0,178	KCB005
7,0	10,2	0,083	7,0	0,243	KCB007
9,0	11,2	0,112	8,0	0,317	KCB009
12,0	14,7	0,150	10,0	0,495	KCB012
15,0	17,3	0,260	12,5	0,805	KCB015

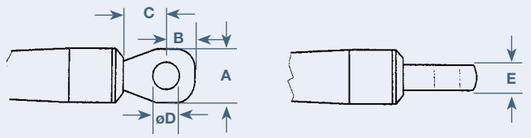
Bigger sizes on request.

Standard Light Weight Sockets with Eye

A range of stainless steel fittings has been developed for terminal bodies and reducers. Standard end fittings are made from AISI 630 stainless steel. Titanium and anodised aluminium options are also available.

Strength in tonnes	B	C	A	E	D	Weight in kg	Ref. No.
3,0	10	17,0	19,0	8,5	9,5	0,123	KSE.003095
5,0	12	19,0	24,0	10,0	11,2	0,232	KSE.005111
7,0	15	21,5	28,0	11,0	12,8	0,331	KSE.007127
9,0	17	24,5	32,8	14,0	16,0	0,499	KSE.009158
12,0	17	24,5	32,8	14,0	16,0	0,733	KSE.012158
15,0	26	35,0	44,0	19,5	22,2	1,154	KSE.015222

- **Bigger sizes on request.**
- Cable should be preloaded 40% of MBL after mounting.
- Fitting is made of stainless steel AISI 316.

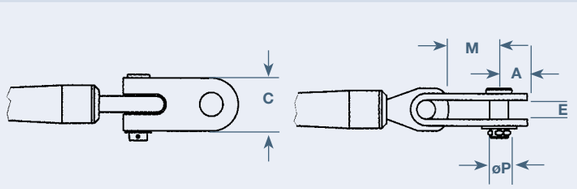


FF-95

Standard Light Weight Socket With Toggle Fork

Strength in tonnes	A	M	C	E	P	Weight in kg/ mtr.	Ref. No.
5,0	16,0	37,9	30	14,0	12,7	0,470	KSJ005127S
7,0	21,0	38,7	40	17,5	15,9	0,815	KSJ007158S
9,0	21,0	38,7	40	17,5	15,9	0,917	KSJ009158S
12,0	26,0	52,5	50	21,5	19,1	1,427	KSJ012191S
15,0	32,0	64,6	60	24,0	22,2	2,057	KSJ015222S

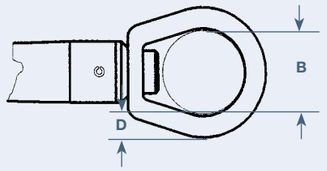
- **Bigger sizes on request.**
- Cable should be preloaded 40% of MBL after mounting.
- Fitting is made of stainless steel AISI 316.



Standard Light Weight Socket With Swivel Eye

Strength in tonnes	B	D	Weight in kg	Ref. No.
3,0	26,2	8,0	0,150	KSSB003
5,0	29,4	9,0	0,271	KSSB005
7,0	36,0	13,0	0,473	KSSB007
9,0	50,2	16,4	0,905	KSSB009
12,0	50,2	16,4	1,080	KSSB012
15,0	64,4	22,8	1,830	KSSB015

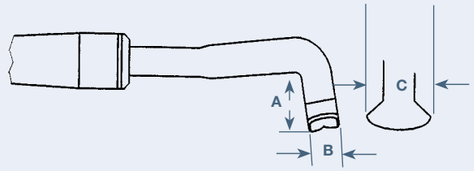
- **Bigger sizes on request.**
- Cable should be preloaded 40% of MBL after mounting.
- Fitting is made of stainless steel AISI 316.

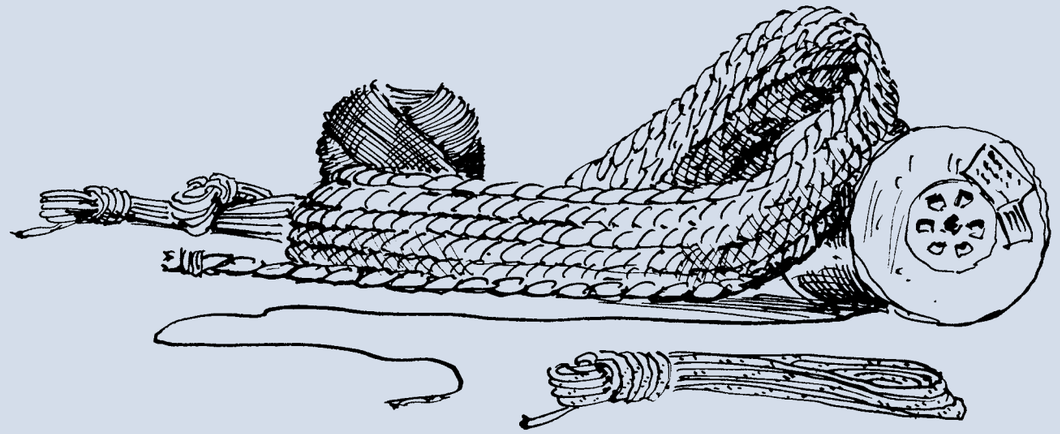


Standard Light Weight Socket With T - Terminals

Strength in tonnes	A	B	C	fits Blue Wave Backing Plate	Weight in kg/ mtr.	**Ref. No.**
3,0	20,1	12,7	31,4	BW616107	0,228	KST003
5,0	20,1	12,7	31,4	BW616107	0,369	KST005
7,0	24,2	16,0	34,5	BW616107	0,532	KST007

- **T-Terminal** part is made of stainless steel AISI 316.
- Cable should be preloaded 40% of MBL after mounting.





Hotknife 75 Watt 220 Volt
Without Blade

Ref. No.
5090.90.00

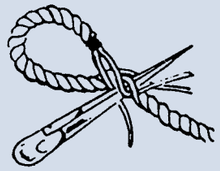
Blade for Hotknife

5090.90.02

Splicing Spike Stainless Steel
With Wooden Handle

length 175 mm

Ref. No.
5090.91.75



Splicing Spike Stainless Steel
With Wooden Handle

length 280 mm

Ref. No.
5090.92.80

Splicing Spike Stainless Steel
With Plastic Handle

length 385 mm

Ref. No.
5090.93.85

Hand Palm Right Handed

Ref. No.
5090.93.21

Hand Palm Left Handed

Ref. No.
5090.93.22

Professional **Bosuns Chair**
New model in preparation

Ref. No.
5090.94.00

Leoflex is a 3-strand twisted rope produced from special fibrillated and twisted polypropylene yarns, which results in a rope with higher breaking loads than expected from polypropylene.
The chafe and UV resistance is excellent.
Colours are tarred hemp and manilla colour.
Leoflex is the ideal rope for traditional yachts and charterboats.

Leoflex X

ø in mm		Minimum Breaking Load in kg	Coillength in mtr	Weight in kg/ 100 mtr.	**Ref. No.** manilla color	tarred hemp color
8	●	960	220	2,9	WR01.08.0/8X	/9X
10	●	1425	220	4,5	WR01.10.0/8X	/9X
12	●	2030	220	6,5	WR01.12.0/8X	/9X
14	●	2790	220	9,0	WR01.14.0/8X	/9X
16	●	3500	220	11,5	WR01.16.0/8X	/9X
18	●	4450	220	14,8	WR01.18.0/8X	/9X
20	●	5370	220	18,0	WR01.20.0/8X	/9X
22	●	6500	220	22,0	WR01.22.0/8X	/9X
24	●	7600	220	26,0	WR01.24.0/8X	/9X
26		8850	220	31,0	WR01.26.0/8X	/9X
28		10100	220	35,5	WR01.28.0/8X	/9X
30		11500	220	41,0	WR01.30.0/8X	/9X
32		12800	220	46,0	WR01.32.0/8X	/9X

● Only available on full coils

Gleistein was founded in the year 1824 by Captain George Gleistein and his son. In 1999, Gleistein celebrates its 175th Birthday. The oldest industrial family enterprise in Bremen can look back on the exciting history of a company that has developed from an outfitter of large sailing vessels to a specialist manufacturer of many different modern and traditional textile constructions.

What has always counted at Gleistein is the use of existing skills and techniques to develop new ones. The combination of tradition and progress.

Current Yacht Rope catalogue

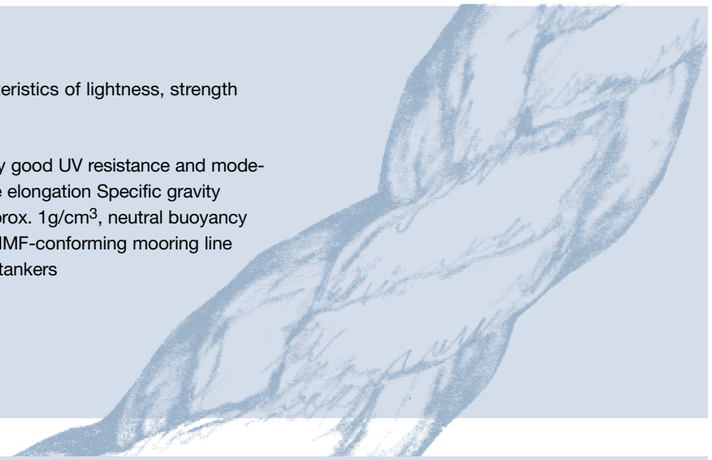
The enthusiasm for sailing is an important spur for the development of superior products which have proven themselves in the toughest of conditions. As a result of this, you can find everything from a high performance regatta sheet to a simple whipping twine in our comprehensive yacht rope range.

- Available are two „Gleistein“ catalogues
  - Yacht Ropes
  - Geo Marine (ropes for commercial marine)

Geosquare Powerplus

A general purpose rope with the balanced characteristics of lightness, strength and flexibility.

- Manufactured to company norm
- 8-strand square plait (4x2) with inner yarns made of polyolefin and outer yarns of Gleistein Plus yarns, in mottled green-white
- Geolan impregnation for minimised inter-fibre friction, higher break loads and better abrasion protection
- Very good break load and abrasion resistance
- Very good UV resistance and moderate elongation Specific gravity approx. 1g/cm^3, neutral buoyancy
- OCIMF-conforming mooring line for tankers



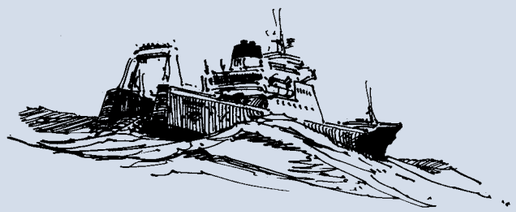
GeoSquare Powerplus (8-Strand Braided)

ø in mm	Breaking Load in kN	Coillength in mtr.	Weight in kg/ 100 mtr.	**Ref. No.**
24	107,0	220	27,5	GG37.24.05
26	120,0	220	32,8	GG37.26.05
28	138,0	220	35,5	GG37.28.05
30	164,0	220	42,5	GG37.30.05
32	186,0	220	48,5	GG37.32.05
36	235,0	220	61,5	GG37.36.05
40	287,0	220	76,0	GG37.40.05

GeoOne Plus (12 Strand Braided)

ø in mm	Breaking Load in kN	Coillength in mtr.	Weight in kg/ 100 mtr.	**Ref. No.**
12	27,0	220	5,5	GG36.12.05
14	33,0	220	7,5	GG36.14.05
16	43,0	220	9,8	GG36.16.05
18	60,0	220	12,4	GG36.18.05
20	76,0	220	18,5	GG36.20.05
24	105,0	220	27,5	GG36.24.05
28	135,0	220	35,5	GG36.28.05
30	164,0	220	42,5	GG36.30.05
32	186,0	220	48,5	GG36.32.05
36	234,0	220	61,5	GG36.36.05
40	285,0	220	76,0	GG36.40.05

Also available with pliced soft eye, with soft eye cover.



Thempest

Construction

- 3-Strand, firmly laid construction of doubled yarns.
- The soft shiny finish gives the outer appearance of natural fibre ropes.
- Raw material mix of polyester and a special fibrillated polypropylene with high UV stability.
- The combination of the two raw materials gives the best properties of both fibres.
- Available in bronze and hemp colour.

Good to know

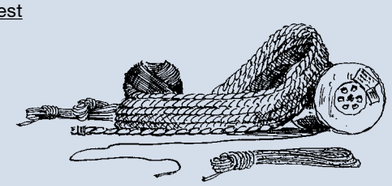
- Superior abrasion resistance with very high break loads compared to other traditional looking man-made fibre ropes.
- Very good UV-resistance.
- Balanced load-elongation properties

  make Thempest an excellent rope for a wide variety of applications on board.

Thempest

ø in mm		Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	**Ref. No.** Bronze	Hemp
6	●	650	220	2,40	GG38.06.0/7	GG38.06/10
8	●	1100	220	3,70	GG38.08.0/7	GG38.08/10
10	●	1650	220	5,30	GG38.10.0/7	GG38.10/10
12	●	2400	220	8,40	GG38.12.0/7	GG38.12/10
14	●	3100	220	10,60	GG38.14.0/7	GG38.14/10
16	●	4100	220	14,10	GG38.16.0/7	GG38.16/10
18	●	5100	220	18,30	GG38.18.0/7	GG38.18/10
20	●	6250	220	22,60	GG38.20.0/7	GG38.20/10
22	●	7600	220	27,30	GG38.22.0/7	GG38.22/10
24	●	8700	220	32,50	GG38.24.0/7	GG38.24/10
26		10250	220	38,20	GG38.26.0/7	GG38.26/10
28		12000	220	44,20	GG38.28.0/7	GG38.28/10
30		13500	220	50,80	GG38.30.0/7	GG38.30/10
32		15500	220	57,80	GG38.32.0/7	GG38.32/10
36		19500	220	73,20	GG38.36.0/7	GG38.36/10
40		24000	220	90,40	GG38.40.0/7	GG38.40/10

- ● Only available on full coils
- ■ On reels till 16 mm diameter on request



Gleistein Ropes since 1824

Geo Twist **Hempex**

Construction
- 3-Strand laid construction from polypropylene staple fibre yarns, hemp colour.
- 4-Strand ropes available up to 26 mm ø.

Good to know
- A light, floating material (should therefore not be used for anchor warps).
- The material is manufactured with traditional fibre spinning procedures and thus exhibits typical hemp-like behaviour.
- Very high break loads compared to natural fibre ropes.
- High chemical resistance.
- Very good UV-resistance gives excellent service life.
- Low elongation.

- Tradition for the future. For the fitting - out of traditional vessels. HEMPEX has the appearance, handling and behaviour of hemp ropes whilst giving all the advantages of modern, synthetic fibre.

Geo Twist **Hempex**

ø in mm		Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. Hemp
6	●	350	220	1,6	GG18.06.08
8	●	600	220	2,8	GG18.08.08
10	●	900	220	4,3	GG18.10.08
12	●	1340	220	6,3	GG18.12.08
14	●	1740	220	8,1	GG18.14.08
16	●	2180	220	10,4	GG18.16.08
18	●	2730	220	13,0	GG18.18.08
20	●	3420	220	16,0	GG18.20.08
22	●	4100	220	19,0	GG18.22.08
24	●	4830	220	23,0	GG18.24.08
26		5640	220	27,0	GG18.26.08
28		6500	220	31,0	GG18.28.08
30		7300	220	35,0	GG18.30.08
32		8300	220	40,0	GG18.32.08
36		10400	220	51,0	GG18.36.08
40		12900	220	63,0	GG18.40.08
44		15600	220	77,0	GG18.44.08

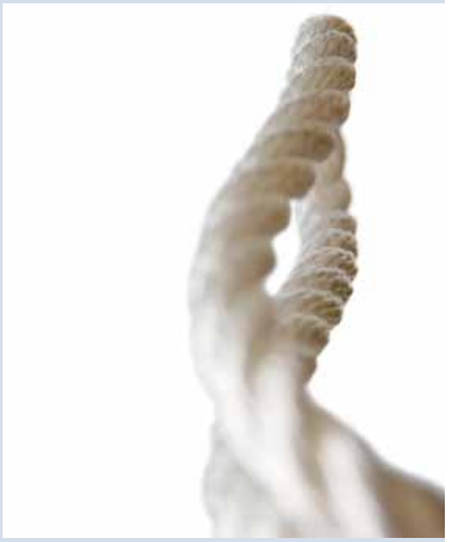
● **Only available on full reels/coils**
■ **Also available in 16-strand braided construction 3 - 10 mm.**
■ **On reels up to 16 mm diam.**

Gleistein Ropes since 1824

Geo Twist **GeoProp**

Construction
- 3-Strand laid high tenacity polypropylene multifilament (our trade name GeoProp), firmly laid in white, blue, navy blue or black.

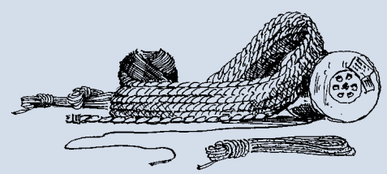
Good to know
- GeoProp floats.
- GeoProp fibre rope are UV-stabilised (dark colour have slightly better stability than the bright ones).
- GeoProp lines retain their flexibility and do not stiffen in use.
- We can offer spliced moorings.



Geo Twist **GeoProp**

ø in mm		Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Blue	Navy	Black
4	●	275	220	0,85	GG16.04.0/1	GG16.04.0/3	GG16.04.0/3N	GG16.04.0/7
5	●	400	220	1,25	GG16.05.0/1	GG16.05.0/3	GG16.05.0/3N	GG16.05.0/7
6	●	590	220	1,70	GG16.06.0/1	GG16.06.0/3	GG16.06.0/3N	GG16.06.0/7
8	●	1000	220	3,00	GG16.08.0/1	GG16.08.0/3	GG16.08.0/3N	GG16.08.0/7
10	●	1530	220	4,50	GG16.10.0/1	GG16.10.0/3	GG16.10.0/3N	GG16.10.0/7
12	●	2170	220	6,50	GG16.12.0/1	GG16.12.0/3	GG16.12.0/3N	GG16.12.0/7
14	●	3000	220	9,00	GG16.14.0/1	GG16.14.0/3	GG16.14.0/3N	GG16.14.0/7
16	●	3700	220	11,50	GG16.16.0/1	GG16.16.0/3	GG16.16.0/3N	GG16.16.0/7
18	●	4700	220	14,80	GG16.18.0/1	GG16.18.0/3	GG16.18.0/3N	GG16.18.0/7
20	●	5700	220	18,00	GG16.20.0/1	GG16.20.0/3	GG16.20.0/3N	GG16.20.0/7
22		7000	220	22,00	GG16.22.0/1	GG16.22.0/3	GG16.22.0/3N	GG16.22.0/7
24		8200	220	26,00	GG16.24.0/1	GG16.24.0/3	GG16.24.0/3N	GG16.24.0/7
26		9500	220	30,50	GG16.26.0/1	GG16.26.0/3	GG16.26.0/3N	GG16.26.0/7
28		10900	220	35,50	GG16.28.0/1	GG16.28.0/3	GG16.28.0/3N	GG16.28.0/7
30		12500	220	40,50	GG16.30.0/1	GG16.30.0/3	GG16.30.0/3N	GG16.30.0/7
32		14200	220	46,00	GG16.32.0/1	GG16.32.0/3	GG16.32.0/3N	GG16.32.0/7
36		18000	220	58,50	GG16.36.0/1	GG16.36.0/3	GG16.36.0/3N	GG16.36.0/7
40		22000	220	72,00	GG16.40.0/1	GG16.40.0/3	GG16.40.0/3N	GG16.40.0/7
44		26500	220	88,00	GG16.44.0/1	GG16.44.0/3	GG16.44.0/3N	GG16.44.0/7

● **Only available on full reels/coils**
■ **On reels up to 16 mm diam.**



Geo Square **GeoProp**

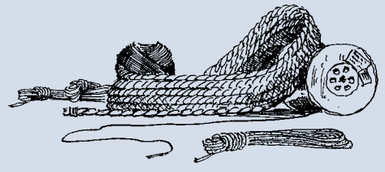
Construction
- Square plaited high tenacity polypropylene multifilament (our trade name GeoProp), firmly laid.
- Available in white, navy blue or black.

Good to know
- GeoProp floats.
- GeoProp lines are UV-stabilised (dark colour have slightly better stability than the bright ones).
- A light, floating material (should therefore not be used for anchor warps).
- GeoProp lines retain their flexibility and do not stiffen in use.
- We can offer spliced moorings.

Geo Square **GeoProp**

ø in mm	Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Navy	Ref. No. Black
12 ●	2170	220	6,5	GG17.12.0/1	GG17.12.0/3N	GG17.12.0/7
14 ●	3000	220	9,0	GG17.14.0/1	GG17.14.0/3N	GG17.14.0/7
16 ●	3700	220	11,5	GG17.16.0/1	GG17.16.0/3N	GG17.16.0/7
18 ●	4700	220	14,8	GG17.18.0/1	GG17.18.0/3N	GG17.18.0/7
20 ●	5700	220	18,0	GG17.20.0/1	GG17.20.0/3N	GG17.20.0/7
22	7000	220	22,0	GG17.22.0/1	GG17.22.0/3N	GG17.22.0/7
24	8200	220	26,0	GG17.24.0/1	GG17.24.0/3N	GG17.24.0/7
26	9500	220	30,5	GG17.26.0/1	GG17.26.0/3N	GG17.26.0/7
28	10900	220	35,5	GG17.28.0/1	GG17.28.0/3N	GG17.28.0/7
30	12500	220	40,5	GG17.30.0/1	GG17.30.0/3N	GG17.30.0/7
32	14200	220	46,0	GG17.32.0/1	GG17.32.0/3N	GG17.32.0/7
36	18000	220	58,5	GG17.36.0/1	GG17.36.0/3N	GG17.36.0/7
40	22000	220	72,0	GG17.40.0/1	GG17.40.0/3N	GG17.40.0/7
44	26500	220	88,0	GG17.44.0/1	GG17.44.0/3N	GG17.44.0/7

● **Only available on full reels/coils**
■ **On reels up to 16 mm diam.**



Geo Twist **Polyamide**

Construction
- 3-Strand laid Polyamide in white or black.
- Thermally stabilised for higher service life and improved handling.

Good to know
- Polyamide mooring lines have outstanding elasticity and therefore absorb shock loads very well.
- Our thermal stabilisation improves handling considerably and minimizes the stiffening of Polyamide mooring lines that canotherwise occur through the influence of weather.
- Highly suitable as mooring lines, towing springs and anchor warps.
- We can offer spliced moorings.

ø in mm	Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Black
4 ●	315	220	1,1	GG12.04.0/1	GG12.04.0/7
5 ●	775	220	1,6	GG12.05.0/1	GG12.05.0/7
6 ●	930	220	2,3	GG12.06.0/1	GG12.06.0/7
8 ●	1400	220	4,0	GG12.08.0/1	GG12.08.0/7
10 ●	2200	220	6,2	GG12.10.0/1	GG12.10.0/7
12 ●	3150	220	8,9	GG12.12.0/1	GG12.12.0/7
14 ●	3900	220	12,2	GG12.14.0/1	GG12.14.0/7
16 ●	5500	220	15,8	GG12.16.0/1	GG12.16.0/7
18 ●	7250	220	20,0	GG12.18.0/1	GG12.18.0/7
20 ●	8800	220	24,5	GG12.20.0/1	GG12.20.0/7
22	11200	220	30,0	GG12.22.0/1	GG12.22.0/7
24	12560	220	35,5	GG12.24.0/1	GG12.24.0/7
26	14650	220	42,0	GG12.26.0/1	GG12.26.0/7

● **Only available on full reels/coils**
■ **On reels up to 16 mm diam.**

Geo Square **Polyamide**

Construction
- Square-plaited Polyamide in white or black.
- Thermally stabilised for higher service life and improved handling.

Good to know
- Polyamide mooring lines have outstanding elasticity and therefore absorb shock loads very well.
- Our thermal stabilisation improves handling considerably and minimizes the stiffening of Polyamide mooring lines that can otherwise occur through the influence of weather.
- Square-pleited mooring lines do not kink.
- Highly suitable as mooring lines, towing springs and anchor warps.
- We can offer spliced moorings.

ø in mm	Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Black
10 ●	2400	220	5,8	GG13.10.0/1	GG13.10.0/7
12 ●	3150	220	8,9	GG13.12.0/1	GG13.12.0/7
14 ●	3900	220	12,2	GG13.14.0/1	GG13.14.0/7
16 ●	6260	220	15,8	GG13.16.0/1	GG13.16.0/7
18 ●	7250	220	20,0	GG13.18.0/1	GG13.18.0/7
20 ●	8800	220	24,5	GG13.20.0/1	GG13.20.0/7
22	11200	220	30,0	GG13.22.0/1	GG13.22.0/7
24	12560	220	35,5	GG13.24.0/1	GG13.24.0/7
26	14650	220	42,0	GG13.26.0/1	GG13.26.0/7
28	16800	220	48,5	GG13.28.0/1	GG13.28.0/7
30	19600	220	55,5	GG13.30.0/1	GG13.30.0/7
32	21000	220	63,0	GG13.32.0/1	GG13.32.0/7
36	27900	220	80,0	GG13.36.0/1	GG13.36.0/7
40	35000	220	99,0	GG13.40.0/1	GG13.40.0/7

● **Only available on full reels/coils**
■ **On reels up to 16 mm diam.**

Geo One **Polyamide**

Construction

- 12-Strand round braid from HT continuous filament polyamide with GeoGard Marine Finish.
- Available in solid white and black.

Good to know

- Excellent break load.
- Excellent elongation characteristics for comfortable mooring.
- GeoGard finish minimizes hardening and water absorption due to raw material characteristics.
- Good abrasion resistance.
- We can offer spliced moorings.

ø in mm	Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Black
20	9200	220	24,7	GG40.20.0/1	GG40.20.0/7
22	11400	220	29,9	GG40.22.0/1	GG40.22.0/7
24	14100	220	35,5	GG40.24.0/1	GG40.24.0/7
26	15500	220	41,7	GG40.26.0/1	GG40.26.0/7
28	17800	220	48,4	GG40.28.0/1	GG40.28.0/7
30	20100	220	55,5	GG40.30.0/1	GG40.30.0/7
32	23100	220	63,2	GG40.32.0/1	GG40.32.0/7
36	29000	220	80,0	GG40.36.0/1	GG40.36.0/7
40	35700	220	98,7	GG40.40.0/1	GG40.40.0/7
44	42900	220	119,0	GG40.44.0/1	GG40.44.0/7
48	50800	220	142,0	GG40.48.0/1	GG40.48.0/7
52	59300	220	167,0	GG40.52.0/1	GG40.52.0/7
56	68400	220	192,0	GG40.56.0/1	GG40.56.0/7
60	78000	220	220,0	GG40.60.0/1	GG40.60.0/7

Geo Twin **Polyamide**

Construction

- Core 12-Strand continuous filament polyamide (nylon).
- Flexible braided cover from the same material with GeoGard Marine Finish.
- Available in white and black.
- Special colours available to customers request and made to order.

Good to know

- Excellent break load.
- Excellent elongation characteristics for comfortable mooring.
- GeoGard finish minimizes hardening and water absorption due to raw material characteristics.
- Good abrasion resistance.
- We can offer splices moorings.

ø in mm	Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Black
20	8500	220	22,5	GG43.20.0/1	GG43.20.0/7
22	11900	220	30,4	GG43.22.0/1	GG43.22.0/7
24	13600	220	35,3	GG43.24.0/1	GG43.24.0/7
26	16000	220	42,0	GG43.26.0/1	GG43.26.0/7
28	18300	220	48,0	GG43.28.0/1	GG43.28.0/7
30	21000	220	56,0	GG43.30.0/1	GG43.30.0/7
32	23500	220	63,5	GG43.32.0/1	GG43.32.0/7
34	26500	220	71,0	GG43.34.0/1	GG43.34.0/7
36	30000	220	80,5	GG43.36.0/1	GG43.36.0/7
40	40000	220	99,0	GG43.40.0/1	GG43.40.0/7
44	43000	220	120,0	GG43.44.0/1	GG43.44.0/7
48	50500	220	142,0	GG43.48.0/1	GG43.48.0/7
52	60000	220	167,0	GG43.52.0/1	GG43.52.0/7
56	69000	220	194,0	GG43.56.0/1	GG43.56.0/7
60	78100	220	222,0	GG43.60.0/1	GG43.60.0/7

Geo Twist **Polyester**

Construction

- 3-Strand laid HT continuous filament polyester in white (with blue identification yarn), navy blue or black.
- Thermally stabilised for higher service life and improved handling.

Good to know

- Polyester fibres combine best abrasion resistance with outstanding UV-stability.
- Remains flexible throughout its usable life.
- The light resistance of solid colour versions is even better than that of the white one.
- Highly suitable as mooring line, towing spring or anchor warp.
- We can offer spliced moorings.

ø in mm	Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Navy	Ref. No. Black
4 ●	290	220	1,03	GG14.04.0/1	GG14.04.0/3N	GG14.04.0/7
5 ●	400	220	2,51	GG14.05.0/1	GG14.05.0/3N	GG14.05.0/7
6 ●	780	220	2,70	GG14.06.0/1	GG14.06.0/3N	GG14.06.0/7
8 ●	1400	220	4,80	GG14.08.0/1	GG14.08.0/3N	GG14.08.0/7
10 ●	2150	220	7,60	GG14.10.0/1	GG14.10.0/3N	GG14.10.0/7
12 ●	3080	220	11,00	GG14.12.0/1	GG14.12.0/3N	GG14.12.0/7
14 ●	3720	220	14,80	GG14.14.0/1	GG14.14.0/3N	GG14.14.0/7
16 ●	5700	220	19,50	GG14.16.0/1	GG14.16.0/3N	GG14.16.0/7
18 ●	6700	220	24,50	GG14.18.0/1	GG14.18.0/3N	GG14.18.0/7
20 ●	8050	220	30,30	GG14.20.0/1	GG14.20.0/3N	GG14.20.0/7
22	10200	220	36,70	GG14.22.0/1	GG14.22.0/3N	GG14.22.0/7
24	11500	220	43,70	GG14.24.0/1	GG14.24.0/3N	GG14.24.0/7
26	13400	220	51,20	GG14.26.0/1	GG14.26.0/3N	GG14.26.0/7

● **Only available on full reels/coils**

■ **On reels up to 16 mm diam.**

Geo Square **Polyester**

Construction

- Square-plaited HT continuous filament polyester in white (with blue identification yarn), navy blue or black.
- Thermally stabilised for higher service life and improved handling.

Good to know

- Polyester fibres combine best abrasion resistance with outstanding UV-stability.
- Remains flexible throughout its usable life.
- The light resistance of solid colour versions is even better than that of the white one.
- Highly suitable as mooring line, towing spring or anchor warp.
- We can offer spliced moorings.

ø in mm	Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Navy	Ref. No. Black
10 ●	1680	220	7,5	GG15.10.0/1	GG15.10.0/3N	GG15.10.0/7
12 ●	3080	220	11,0	GG15.12.0/1	GG15.12.0/3N	GG15.12.0/7
14 ●	3720	220	14,8	GG15.14.0/1	GG15.14.0/3N	GG15.14.0/7
16 ●	5700	220	19,5	GG15.16.0/1	GG15.16.0/3N	GG15.16.0/7
18 ●	6700	220	24,5	GG15.18.0/1	GG15.18.0/3N	GG15.18.0/7
20 ●	8050	220	30,3	GG15.20.0/1	GG15.20.0/3N	GG15.20.0/7
22	10400	220	36,7	GG15.22.0/1	GG15.22.0/3N	GG15.22.0/7
24	12400	220	43,7	GG15.24.0/1	GG15.24.0/3N	GG15.24.0/7
26	13700	220	51,2	GG15.26.0/1	GG15.26.0/3N	GG15.26.0/7
28	16000	220	59,4	GG15.28.0/1	GG15.28.0/3N	GG15.28.0/7
30	18100	220	68,2	GG15.30.0/1	GG15.30.0/3N	GG15.30.0/7
32	20500	220	77,8	GG15.32.0/1	GG15.32.0/3N	GG15.32.0/7
36	25800	220	98,2	GG15.36.0/1	GG15.36.0/3N	GG15.36.0/7
40	31700	220	121,0	GG15.40.0/1	GG15.40.0/3N	GG15.40.0/7

● **Only available on full reels/coils**

■ **On reels up to 16 mm diam.**

Geo One **Polyester**

Construction
- 12-Strand round braid from HT continuous filament polyamide with GeoGard Marine Finish.
- Available in solid white and black.

Good to know
- Excellent break load.
- Excellent elongation characteristics for comfortable mooring.
- GeoGard finish minimizes hardening and water absorption due to raw material characteristics.
- Good abrasion resistance.
- We can offer spliced moorings.

ø in mm	Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Navy	Black
20	9000	220	30,3	GG39.20.0/1	GG39.20.0/3N	GG39.20.0/7
22	10300	220	36,7	GG39.22.0/1	GG39.22.0/3N	GG39.22.0/7
24	12800	220	43,7	GG39.24.0/1	GG39.24.0/3N	GG39.24.0/7
26	14900	220	51,2	GG39.26.0/1	GG39.26.0/3N	GG39.26.0/7
28	17300	220	59,4	GG39.28.0/1	GG39.28.0/3N	GG39.28.0/7
30	18400	220	68,2	GG39.30.0/1	GG39.30.0/3N	GG39.30.0/7
32	22500	220	77,8	GG39.32.0/1	GG39.32.0/3N	GG39.32.0/7
36	28200	220	98,2	GG39.36.0/1	GG39.36.0/3N	GG39.36.0/7
40	34600	220	121,0	GG39.40.0/1	GG39.40.0/3N	GG39.40.0/7
44	41600	220	147,0	GG39.44.0/1	GG39.44.0/3N	GG39.44.0/7
48	49100	220	175,0	GG39.48.0/1	GG39.48.0/3N	GG39.48.0/7
52	57200	220	205,0	GG39.52.0/1	GG39.52.0/3N	GG39.52.0/7

Geo Twin **Polyester**

Construction
- 12-Strand round braid from HT continuous filament polyamide with GeoGard Marine Finish.
- Available in solid white and black.

Good to know
- Excellent break load.
- Excellent elongation characteristics for comfortable mooring.
- GeoGard finish minimizes hardening and water absorption due to raw material characteristics.
- Good abrasion resistance.
- We can offer spliced moorings.

ø in mm	Breaking Load in daN	Reel-/Coillength in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Navy	Black
20	10000	220	30,0	GG44.20.0/1	GG44.20.0/3N	GG44.20.0/7
22	12200	220	37,3	GG44.22.0/1	GG44.22.0/3N	GG44.22.0/7
24	14500	220	43,4	GG44.24.0/1	GG44.24.0/3N	GG44.24.0/7
26	17000	220	51,0	GG44.26.0/1	GG44.26.0/3N	GG44.26.0/7
28	19600	220	59,0	GG44.28.0/1	GG44.28.0/3N	GG44.28.0/7
30	22700	220	68,0	GG44.30.0/1	GG44.30.0/3N	GG44.30.0/7
32	25500	220	78,0	GG44.32.0/1	GG44.32.0/3N	GG44.32.0/7
34	29300	220	88,0	GG44.34.0/1	GG44.34.0/3N	GG44.34.0/7
36	32100	220	99,0	GG44.36.0/1	GG44.36.0/3N	GG44.36.0/7
40	39400	220	121,0	GG44.40.0/1	GG44.40.0/3N	GG44.40.0/7
42	43000	220	133,0	GG44.42.0/1	GG44.42.0/3N	GG44.42.0/7
44	47300	220	147,0	GG44.44.0/1	GG44.44.0/3N	GG44.44.0/7
48	55900	220	177,0	GG44.48.0/1	GG44.48.0/3N	GG44.48.0/7
52	64500	220	204,0	GG44.52.0/1	GG44.52.0/3N	GG44.52.0/7

Bavaria | Dockline

Construction
- Core 12-strand from HT polyester.
- Flexible braided cover from the same material.
- Bavaria available in white with blue or black marker yarns.
- Dockline available in black, red and navy blue.

Good to know
- Excellent break load.
- Balanced elongation characteristics.
- Lifetime flexibility without work-hardening.
- Excellent abrasion resistance.
- Minimum water absorption.
- We can offer spliced moorings.

ø in mm		Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Bavaria Ref. No. Blue	Black	Navy	Dockline Ref. No. Red	Black	Grey
8	●	1200	200	4,0	GG11.08.0/3	GG11.08.0/7	GG11.08.0/3N	GG11.08.0/44	GG11.08.0/77	GG11.08.0/22
10	●	2000	200	6,8	GG11.10.0/3	GG11.10.0/7	GG11.10.0/3N	GG11.10.0/44	GG11.10.0/77	GG11.10.0/22
12	●	2900	200	9,3	GG11.12.0/3	GG11.12.0/7	GG11.12.0/3N	GG11.12.0/44	GG11.12.0/77	GG11.12.0/22
14	●	3550	200	13,0	GG11.14.0/3	GG11.14.0/7	GG11.14.0/3N	GG11.14.0/44	GG11.14.0/77	GG11.14.0/22
16	●	4750	200	18,0	GG11.16.0/3	GG11.16.0/7	GG11.16.0/3N	GG11.16.0/44	GG11.16.0/77	GG11.16.0/22
18	●	6100	200	23,4	GG11.18.0/3	GG11.18.0/7	GG11.18.0/3N	GG11.18.0/44	GG11.18.0/77	GG11.18.0/22
20	●	8000	200	30,0	GG11.20.0/3	GG11.20.0/7	GG11.20.0/3N	GG11.20.0/44	GG11.20.0/77	GG11.20.0/22

- ● **Only available on full reels**
- ■ **On reels up to 16 mm diam.**
- ■ **Beware of cheap copies on the market with polypropylene inner core.**

Geo Twin **Geo X-tend**

Construction
- Core 12-strand from a special high elongation polyester type.
- Flexible braided cover from the same material in Bavaria look.

Good to know
- Excellent break load.
- Excellent elongation characteristics giving comfortable and smooth mooring.
- Lifetime flexibility without work-hardening.
- Excellent abrasion resistance.
- Minimum water absorption.

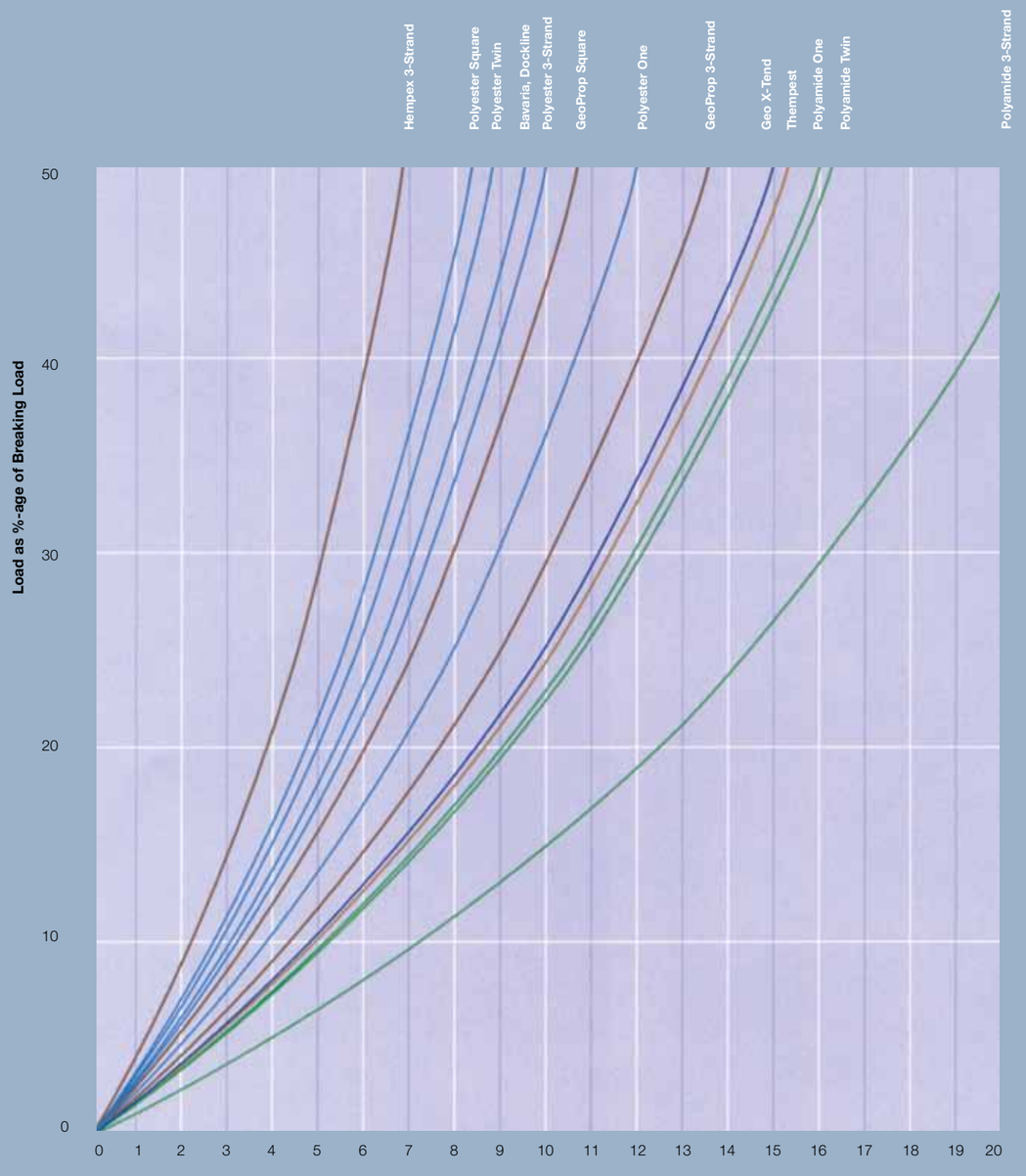
- We can offer spliced moorings

ø in mm		Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White/Black
10	●	2000	200	6,8	GG47.10.01
12	●	2900	200	9,3	GG47.12.01
14	●	3600	200	13,0	GG47.14.01
16	●	4800	200	18,8	GG47.16.01
18	●	6100	200	23,4	GG47.18.01
20	●	8000	200	30,0	GG47.20.01

- ● **Only available on full reels**
- ■ **On reels up to 16 mm diam.**

Tables

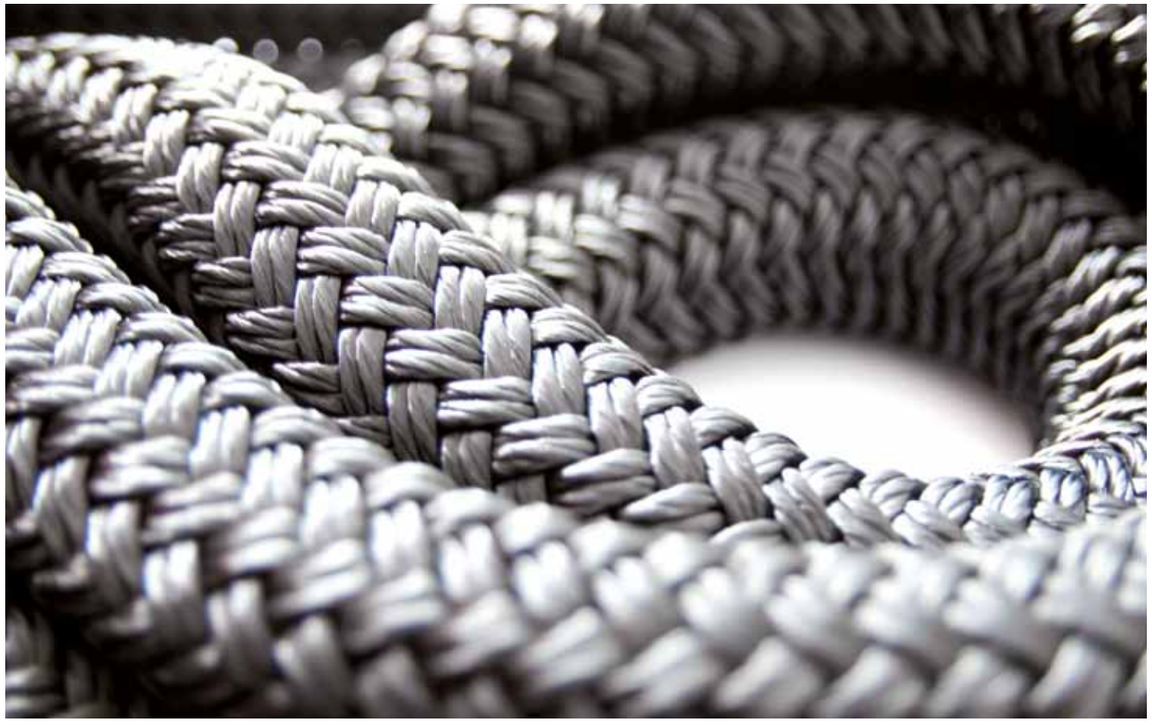
Load / Elongation curves of “used” mooring lines



„Used“ means after average usage under normal weather conditions and is simulated in the lab with 10 loadings at 20 % of the break load.

	Polyester	Polyamide	GeoProp	Thempest	Hempex
Length of Vessel in m	Twist, Square, Twin, Bavaria, Dockline, One, GeoX-tend	Twist, Square, Twin, One	Twist, Square, Twin, One	Twist	Twist, One
	ø	ø	ø	ø	ø
6 - 8	10	10	12	12	16
10	12	12	14	14	20
12	14	14	16	16	22
14	16	16	20	20	26
16 - 18	18	18	22	22	28
20 - 22	20	20	24	24	32
24 - 26	22	22	28	26	36
28 - 32	24	22	30	28	40
34 - 36	26	24	32	30	40
38 - 40	28	26	36	32	44

The length of a vessel has proven to be the most useful reference for the sizing of mooring lines.
Rope diameters mentioned are average figures which results from past experience. Deviations for particular vessel designs are likely to occur. The rope sizes are valid for a classic mooring layout: one headline, one sternline and two springs.
A rule-of-thumb for the dimensioning of polyester and polyamide mooring lines is length of vessel in metres + 2 = rope diameter in mm. Size for ease of handling should also be considered.



Waarschip 725 'Timber Toy'

Geo One **Geo Prop** 8-Strand Braided

Construction
- Round braids in basic colours, 8- and 16-plait.

Good to know
- Good break load.
- Moderate abrasion- and UV-resistance.
- Low weight and price.
- Ideally suited for numerous applications.

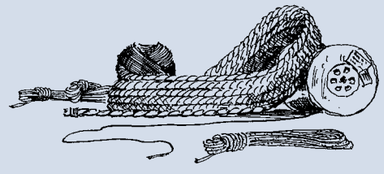
ø in mm		Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Blue	Red	Green	Yellow	Black
1,5	●	38	250	0,10	GG22.01.5/1	GG22.01.5/3	GG22.01.5/4	GG22.01.5/5	GG22.01.5/6	GG22.01.5/7
2,0	●	70	250	0,16	GG22.02.0/1	GG22.02.0/3	GG22.02.0/4	GG22.02.0/5	GG22.02.0/6	GG22.02.0/7
2,5	●	95	250	0,23	GG22.02.5/1	GG22.02.5/3	GG22.02.5/4	GG22.02.5/5	GG22.02.5/6	GG22.02.5/7
3,0	●	150	250	0,40	GG22.03.0/1	GG22.03.0/3	GG22.03.0/4	GG22.03.0/5	GG22.03.0/6	GG22.03.0/7
4,0	●	300	250	0,70	GG22.04.0/1	GG22.04.0/3	GG22.04.0/4	GG22.04.0/5	GG22.04.0/6	GG22.04.0/7
5,0	●	450	250	1,10	GG22.05.0/1	GG22.05.0/3	GG22.05.0/4	GG22.05.0/5	GG22.05.0/6	GG22.05.0/7
6,0	●	520	220	1,55	GG22.06.0/1	GG22.06.0/3	GG22.06.0/4	GG22.06.0/5	GG22.06.0/6	GG22.06.0/7
8,0	●	900	220	2,60	GG22.08.0/1	GG22.08.0/3	GG22.08.0/4	GG22.08.0/5	GG22.08.0/6	GG22.08.0/7
10,0	●	1300	220	4,00	GG22.10.0/1	GG22.10.0/3	GG22.10.0/4	GG22.10.0/5	GG22.10.0/6	GG22.10.0/7

● **Only available on full reels**

Geo One **Geo Prop** 16-Strand Braided

ø in mm		Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Blue	Red	Green	Yellow	Black
1,5	●	38	250	0,10	GG23.01.5/1	GG23.01.5/3	GG23.01.5/4	GG23.01.5/5	GG23.01.5/6	GG23.01.5/7
2,0	●	70	250	0,16	GG23.02.0/1	GG23.02.0/3	GG23.02.0/4	GG23.02.0/5	GG23.02.0/6	GG23.02.0/7
2,5	●	95	250	0,23	GG23.02.5/1	GG23.02.5/3	GG23.02.5/4	GG23.02.5/5	GG23.02.5/6	GG23.02.5/7
3,0	●	150	250	0,40	GG23.03.0/1	GG23.03.0/3	GG23.03.0/4	GG23.03.0/5	GG23.03.0/6	GG23.03.0/7
4,0	●	300	250	0,70	GG23.04.0/1	GG23.04.0/3	GG23.04.0/4	GG23.04.0/5	GG23.04.0/6	GG23.04.0/7
5,0	●	450	250	1,10	GG23.05.0/1	GG23.05.0/3	GG23.05.0/4	GG23.05.0/5	GG23.05.0/6	GG23.05.0/7
6,0	●	520	220	1,55	GG23.06.0/1	GG23.06.0/3	GG23.06.0/4	GG23.06.0/5	GG23.06.0/6	GG23.06.0/7
8,0	●	900	220	2,60	GG23.08.0/1	GG23.08.0/3	GG23.08.0/4	GG23.08.0/5	GG23.08.0/6	GG23.08.0/7
10,0	●	1300	220	4,00	GG23.10.0/1	GG23.10.0/3	GG23.10.0/4	GG23.10.0/5	GG23.10.0/6	GG23.10.0/7

● **Only available on full reels**



Geo One **Polyamide** 8-Strand Braided

Construction
- Round braid 8- and 16-plait from polyamide in white or black.

Good to know
- High break load.
- High elongation.
- Good abrasion- and UV-resistance.
- Ideally suited as flag halyard and whipping twine.

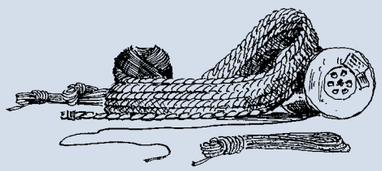
ø in mm		Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Black
1,5	●	49	220	0,13	GG20.01.5/1	GG20.01.5/7
2,0	●	93	220	0,18	GG20.02.0/1	GG20.02.0/7
2,5	●	137	220	0,28	GG20.02.5/1	GG20.02.5/7
3,0	●	155	220	0,51	GG20.03.0/1	GG20.03.0/7
4,0	●	270	220	0,90	GG20.04.0/1	GG20.04.0/7
5,0	●	420	220	1,40	GG20.05.0/1	GG20.05.0/7
6,0	●	618	220	2,00	GG20.06.0/1	GG20.06.0/7
8,0	●	1090	220	3,60	GG20.08.0/1	GG20.08.0/7
10,0	●	1650	220	5,60	GG20.10.0/1	GG20.10.0/7

● **Only available on full reels**

Geo One **Polyamide** 16-Strand Braided

ø in mm		Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Black
1,5	●	49	220	0,13	GG21.01.5/1	GG21.01.5/7
2,0	●	93	220	0,18	GG21.02.0/1	GG21.02.0/7
2,5	●	137	220	0,28	GG21.02.5/1	GG21.02.5/7
3,0	●	155	220	0,51	GG21.03.0/1	GG21.03.0/7
4,0	●	270	220	0,90	GG21.04.0/1	GG21.04.0/7
5,0	●	420	220	1,40	GG21.05.0/1	GG21.05.0/7
6,0	●	618	220	2,00	GG21.06.0/1	GG21.06.0/7
8,0	●	1090	220	3,60	GG21.08.0/1	GG21.08.0/7
10,0	●	1650	220	5,60	GG21.10.0/1	GG21.10.0/7

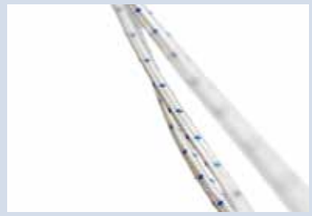
● **Only available on full reels**



Geo One **Polyester** 16-Strand Braided

Construction
- Round braid 16-plait from polyester white with blue marker or solid black.

Good to know
- Very good abrasion resistance.
- Low elongation.
- Very good UV-resistance.
- Multi-purpose rope with a large variety of possible applications.



ø in mm		Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. White/Blue	Ref. No. Black
1,5	●	40	220	0,14	GG19.01.5/1	GG19.01.5/3	GG19.01.5/7
2,0	●	75	220	0,22	GG19.02.0/1	GG19.02.0/3	GG19.02.0/7
2,5	●	105	220	0,35	GG19.02.5/1	GG19.02.5/3	GG19.02.5/7
3,0	●	150	220	0,61	GG19.03.0/1	GG19.03.0/3	GG19.03.0/7
4,0	●	270	220	1,10	GG19.04.0/1	GG19.04.0/3	GG19.04.0/7
5,0	●	420	220	1,72	GG19.05.0/1	GG19.05.0/3	GG19.05.0/7
6,0	●	590	220	2,44	GG19.06.0/1	GG19.06.0/3	GG19.06.0/7
8,0	●	1030	220	4,35	GG19.08.0/1	GG19.08.0/3	GG19.08.0/7
10,0	●	1630	220	6,80	GG19.10.0/1	GG19.10.0/3	GG19.10.0/7

● **Only available on full reels**

Ester Color 16-Strand Braided

Construction
- Round braid 16-plait from solid colour polyester.

Good to know
- Very good abrasion resistance.
- Low elongation.
- Very good UV-resistance.
- Multi-purpose rope with a large variety of possible applications.

ø in mm		Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Blue	Red	Green	Yellow	Navy	Hemp
1,5	●	40	250	0,14	GG34.01.5/3	GG34.01.5/4	GG34.01.5/5	GG34.01.5/6	GG34.01.5/3N	GG34.15/10
2,0	●	75	250	0,22	GG34.02.0/3	GG34.02.0/4	GG34.02.0/5	GG34.02.0/6	GG34.02.0/3N	GG34.02/10
2,5	●	105	250	0,35	GG34.02.5/3	GG34.02.5/4	GG34.02.5/5	GG34.02.5/6	GG34.02.5/3N	GG34.25/10
3,0	●	150	250	0,61	GG34.03.0/3	GG34.03.0/4	GG34.03.0/5	GG34.03.0/6	GG34.03.0/3N	GG34.03/10
4,0	●	250	250	1,10	GG34.04.0/3	GG34.04.0/4	GG34.04.0/5	GG34.04.0/6	GG34.04.0/3N	GG34.04/10
5,0	●	400	250	1,72	GG34.05.0/3	GG34.05.0/4	GG34.05.0/5	GG34.05.0/6	GG34.05.0/3N	GG34.05/10
6,0	●	590	200	2,44	GG34.06.0/3	GG34.06.0/4	GG34.06.0/5	GG34.06.0/6	GG34.06.0/3N	GG34.06/10

● **Only available on full reels**

Gleistein Ropes since 1824

Geo One **Polyester Solid Braid**

Construction
- Solid braid from polyester white with blue marker.

Good to know
- High elongation.
- Very stable cross section and hence an ideal leech line soft and handy.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White / Blue
3 ●	131	250	0,61	GG47.03.01SB
4 ●	220	250	1,10	GG47.04.01SB
5 ●	330	250	1,72	GG47.05.01SB
6 ●	460	220	2,44	GG47.06.01SB
8 ●	780	220	4,35	GG47.08.01SB
10 ●	1230	220	6,80	GG47.10.01SBF

Solid braid also available in GeoProp.
● **Only available on full reels**

Caribic Color

Construction
- Core 12-strand braid of Dyneema® SK75 fibre.
- Cover of HT solid colour Polyester 16-plait braided with marker yam.

Good to know
- Similar strength and stretch to steel wire rope.
- Caribic Color can be tapered by the removal of sections of outer cover.
- Universal rope with a large variety of applications.
- Suitable for endless splicing

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Blue	Red	Green	Yellow	Black	Navy
2,0 ●	180	250	0,27	GG33.02.0/3	GG33.02.0/4	GG33.02.0/5	GG33.02.0/6	GG33.02.0/7	GG33.02.0/3N
3,0 ●	300	250	0,74	GG33.03.0/3	GG33.03.0/4	GG33.03.0/5	GG33.03.0/6	GG33.03.0/7	GG33.03.0/3N
4,0 ●	650	250	1,00	GG33.04.0/3	GG33.04.0/4	GG33.04.0/5	GG33.04.0/6	GG33.04.0/7	GG33.04.0/3N
5,0 ●	1100	250	2,10	GG33.05.0/3	GG33.05.0/4	GG33.05.0/5	GG33.05.0/6	GG33.05.0/7	GG33.05.0/3N
6,0 ●	1700	200	2,55	GG33.06.0/3	GG33.06.0/4	GG33.06.0/5	GG33.06.0/6	GG33.06.0/7	GG33.06.0/3N

● **Only available on full reels**

Dyneema Trim

Construction
- Braided 8- respectively 12-plait (depending on size) from Dyneema® SK75, white.

Good to know
- Ideal trim-, leech- and control line.
- Very low elongation.
- Slippery, abrasion resistant surface.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White
1,0 ●	100	220	0,08	GG26.01.0/1
1,5 ●	180	220	0,13	GG26.01.5/1
2,0 ●	240	220	0,16	GG26.02.0/1
2,5 ●	280	220	0,27	GG26.02.5/1
3,0 ●	400	220	0,39	GG26.03.0/1
4,0 ●	600	220	0,64	GG26.04.0/1

● **Only available on full reels**

Gleistein Ropes since 1824

Standard / Standard Solid Color / Standard T

Construction
- Core of braided HT continuous filament polyester.
- The 3 coloured marker yarns give the flexible matt finish polyester staple fibre cover its identifable appearance.
- Also available in plain white or various solid colours.
- Gleistein's orange identification yarn.

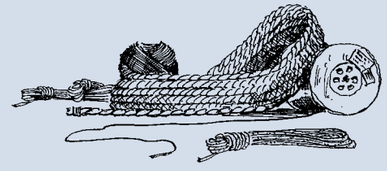
Good to know
- Standard is an ideal sheet and due to its wooly grip it does not slip when handled.
- The flexible but durable construction combines good abrasion resistance with excellent handling.
- Best used on winches with a smooth drum surface.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Blue	Red	Green
3 ●	100	200	0,30	GG09.03.0/1	GG09.03.0/3	GG09.03.0/4	GG09.03.0/5
4 ●	230	200	1,00	GG09.04.0/1	GG09.04.0/3	GG09.04.0/4	GG09.04.0/5
5 ●	360	200	1,60	GG09.05.0/1	GG09.05.0/3	GG09.05.0/4	GG09.05.0/5
6 ●	500	200	2,55	GG09.06.0/1	GG09.06.0/3	GG09.06.0/4	GG09.06.0/5
8 ●	750	200	3,80	GG09.08.0/1	GG09.08.0/3	GG09.08.0/4	GG09.08.0/5
10 ●	1250	200	6,10	GG09.10.0/1	GG09.10.0/3	GG09.10.0/4	GG09.10.0/5
12 ●	2000	200	8,70	GG09.12.0/1	GG09.12.0/3	GG09.12.0/4	GG09.12.0/5
14 ●	2500	200	12,00	GG09.14.0/1	GG09.14.0/3	GG09.14.0/4	GG09.14.0/5
16 ●	3500	200	17,50	GG09.16.0/1	GG09.16.0/3	GG09.16.0/4	GG09.16.0/5
18	4500	200	20,00	GG09.18.0/1	GG09.18.0/3	GG09.18.0/4	GG09.18.0/5
20	5900	200	25,90	GG09.20.0/1	GG09.20.0/3	GG09.20.0/4	GG09.20.0/5

● **Only available on full reels**

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Standard Solid Color Ref. No. Blue	Red	Green	Black	Standard T Ref. No. Hemp
3 ●	100	200	0,30	GG09.03.0/33	GG09.03.0/44	GG09.03.0/55	GG09.03.0/77	GG09.03/10
4 ●	230	200	1,00	GG09.04.0/33	GG09.04.0/44	GG09.04.0/55	GG09.04.0/77	GG09.04/10
5 ●	360	200	1,60	GG09.05.0/33	GG09.05.0/44	GG09.05.0/55	GG09.05.0/77	GG09.05/10
6 ●	500	200	2,55	GG09.06.0/33	GG09.06.0/44	GG09.06.0/55	GG09.06.0/77	GG09.06/10
8 ●	750	200	3,80	GG09.08.0/33	GG09.08.0/44	GG09.08.0/55	GG09.08.0/77	GG09.08/10
10 ●	1250	200	6,10	GG09.10.0/33	GG09.10.0/44	GG09.10.0/55	GG09.10.0/77	GG09.10/10
12 ●	2000	200	8,70	GG09.12.0/33	GG09.12.0/44	GG09.12.0/55	GG09.12.0/77	GG09.12/10
14 ●	2500	200	12,00	GG09.14.0/33	GG09.14.0/44	GG09.14.0/55	GG09.14.0/77	GG09.14/10
16 ●	3500	200	17,50	GG09.16.0/33	GG09.16.0/44	GG09.16.0/55	GG09.16.0/77	GG09.16/10
18	4500	200	20,00	GG09.18.0/33	GG09.18.0/44	GG09.18.0/55	GG09.18.0/77	GG09.18/10
20	5900	200	25,90	GG09.20.0/33	GG09.20.0/44	GG09.20.0/55	GG09.20.0/77	GG09.20/10

● **Only available on full reels**



Lazy-Jack-Line

Construction
- 12-strand braid of Polyester HT yarns.
- Protective coating of Geothane
- Available in grey and white

Good to know
- Because of its low friction often used as Furler-Cover-Line
- For the same reason as Lazy-Jack-Lines
- Very easy to splice

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Ref. No. Grey
5 ●	420	250	1,40	GG39.05.0/1	GG39.05.0/2
6 ●	619	200	2,00	GG39.06.0/1	GG39.06.0/2

● **Only available on full reels**

Harkon

Construction
- Core of 12-strand braided construction of HT continuous filament polyester.
- The 2 coloured marker yarns with an additional purple tracer give this tight 16-plait HT continuous filament polyester rope its distinctive appearance.
- Gleistein's orange identification yarn.

Good to know
- The double braided construction shares the load equally between core and cover.
- Good abrasion resistance, handling characteristics and longevity.
- Cost-effective.

Picture Suzanne v.d. Horst

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Blue	Red	Green	Yellow
6 ●	800	200	2,4	GG32.06.0/1	GG32.06.0/3	GG32.06.0/4	GG32.06.0/5	GG32.06.0/6
8 ●	1500	200	4,8	GG32.08.0/1	GG32.08.0/3	GG32.08.0/4	GG32.08.0/5	GG32.08.0/6
10 ●	2300	200	7,7	GG32.10.0/1	GG32.10.0/3	GG32.10.0/4	GG32.10.0/5	GG32.10.0/6
12 ●	3000	200	10,4	GG32.12.0/1	GG32.12.0/3	GG32.12.0/4	GG32.12.0/5	GG32.12.0/6
14 ●	3800	200	14,0	GG32.14.0/1	GG32.14.0/3	GG32.14.0/4	GG32.14.0/5	GG32.14.0/6
16 ●	5000	200	18,5	GG32.16.0/1	GG32.16.0/3	GG32.16.0/4	GG32.16.0/5	GG32.16.0/6

● **Only available on full reels**

Tasmania / Tasmania Full Color / Tasmania Solid Color / Tasmania T

Construction
- Core of 12-strand braided from HT polyester.
- Soft and flexible braided cover from the same material.
- Large variety of colours.
- Gleistein's orange identification yarn.

Good to know
- This double braid construction shares the load equally between cover and core.
- Outstanding flexibility and handling characteristics.
- Excellent durability.
- Highly cost-effective.
- Universal rope ideal for Guys, Up/Downhauls, Reefing Lines, Vang and Cunningham.
- Tasmania T available in hemp and bronze colour for traditional vessels.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Blue	Red	Green	Yellow	Black
5 ●	600	200	1,6	GG08.05.0/1	GG08.05.0/3	GG08.05.0/4	GG08.05.0/5	GG08.05.0/6	GG08.05.0/7
6 ●	820	200	2,6	GG08.06.0/1	GG08.06.0/3	GG08.06.0/4	GG08.06.0/5	GG08.06.0/6	GG08.06.0/7
8 ●	1200	200	4,0	GG08.08.0/1	GG08.08.0/3	GG08.08.0/4	GG08.08.0/5	GG08.08.0/6	GG08.08.0/7
10 ●	2000	200	6,8	GG08.10.0/1	GG08.10.0/3	GG08.10.0/4	GG08.10.0/5	GG08.10.0/6	GG08.10.0/7
12 ●	2900	200	9,3	GG08.12.0/1	GG08.12.0/3	GG08.12.0/4	GG08.12.0/5	GG08.12.0/6	GG08.12.0/7
14 ●	3550	200	13,0	GG08.14.0/1	GG08.14.0/3	GG08.14.0/4	GG08.14.0/5	GG08.14.0/6	GG08.14.0/7
16	4750	200	18,8	GG08.16.0/1	GG08.16.0/3	GG08.16.0/4	GG08.16.0/5	GG08.16.0/6	GG08.16.0/7
18	6100	200	23,4	GG08.18.0/1	GG08.18.0/3	GG08.18.0/4	GG08.18.0/5	GG08.18.0/6	GG08.18.0/7
20	8000	200	30,0	GG08.20.0/1	GG08.20.0/3	GG08.20.0/4	GG08.20.0/5	GG08.20.0/6	GG08.20.0/7

Tasmania Full Color

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Blue	Red	Green	Yellow	Black
8 ●	1200	200	4,0	GG08.08.0/33	GG08.08.0/44	GG08.08.0/55	GG08.08.0/66	GG08.08.0/77
10 ●	2000	200	6,8	GG08.10.0/33	GG08.10.0/44	GG08.10.0/55	GG08.10.0/66	GG08.10.0/77
12 ●	2900	200	9,3	GG08.12.0/33	GG08.12.0/44	GG08.12.0/55	GG08.12.0/66	GG08.12.0/77
14 ●	3550	200	13,0	GG08.14.0/33	GG08.14.0/44	GG08.14.0/55	GG08.14.0/66	GG08.14.0/77
16	4750	200	18,8	GG08.16.0/33	GG08.16.0/44	GG08.16.0/55	GG08.16.0/66	GG08.16.0/77
18	6100	200	23,4	GG08.18.0/33	GG08.18.0/44	GG08.18.0/55	GG08.18.0/66	GG08.18.0/77
20	8000	200	30,0	GG08.20.0/33	GG08.20.0/44	GG08.20.0/55	GG08.20.0/66	GG08.20.0/77

Tasmania Solid Color

ø in mm	Ref. No. Blue	Red	Green	Navy	Grey	Black
8 ●	GG08.08.0/333	GG08.08.0/444	GG08.08.0/555	GG08.08.0/3N	GG08.08.0/222	GG08.08.0/777
10 ●	GG08.10.0/333	GG08.10.0/444	GG08.10.0/555	GG08.10.0/3N	GG08.10.0/222	GG08.10.0/777
12 ●	GG08.12.0/333	GG08.12.0/444	GG08.12.0/555	GG08.12.0/3N	GG08.12.0/222	GG08.12.0/777
14 ●	GG08.14.0/333	GG08.14.0/444	GG08.14.0/555	GG08.14.0/3N	GG08.14.0/222	GG08.14.0/777
16	-	-	-	-	-	GG08.16.0/777
18	-	-	-	-	-	-
20	-	-	-	-	-	-

Tasmania T

ø in mm	Ref. No. Bronze	Hemp
8 ●	GG08.08.0/8	GG08.08/10
10 ●	GG08.10.0/8	GG08.10/10
12 ●	GG08.12.0/8	GG08.12/10
14 ●	GG08.14.0/8	GG08.14/10
16	GG08.16.0/8	GG08.16/10
18	GG08.18.0/8	GG08.18/10
20	GG08.20.0/8	GG08.20/10

● **Only available on full reels**
■ **On reels up to 20 mm diam.**

Gleistein Ropes since 1824

Gemini X

High-grade polyester sheet with outstanding performance and optimal abrasion resistance.

Construction

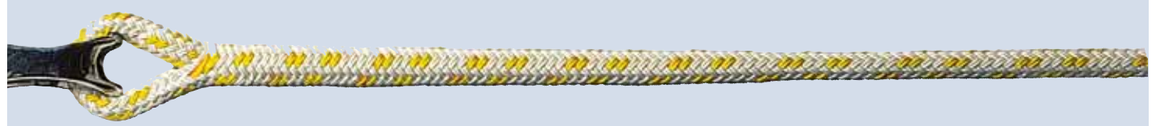
- Core of 12-strand HT polyester with Marine finish for higher strength and better abrasion resistance.
- Flexible braided cover from the same material.
- Twin pairs of coloured yarns of plain white.
- Gleistein's orange identification yarn.

Good to know

- Gemini (the Greek word for twin) shares the load equally between cover and core.
- Outstanding flexibility and handling characteristics.
- Excellent longevity and durability due to improved abrasions resistance.
- Ideal for Genoa- and mainsheets, especially for selftailing winch-systems.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Blue	Red	Green	Yellow	Black
8 ●	1500	200	4,0	GG07.08.0/1	GG07.08.0/3	GG07.08.0/4	GG07.08.0/5	GG07.08.0/6	GG07.08.0/7
10 ●	2400	200	6,5	GG07.10.0/1	GG07.10.0/3	GG07.10.0/4	GG07.10.0/5	GG07.10.0/6	GG07.10.0/7
12 ●	3600	200	9,3	GG07.12.0/1	GG07.12.0/3	GG07.12.0/4	GG07.12.0/5	GG07.12.0/6	GG07.12.0/7
14 ●	4500	200	13,0	GG07.14.0/1	GG07.14.0/3	GG07.14.0/4	GG07.14.0/5	GG07.14.0/6	GG07.14.0/7
16	6500	200	18,3	GG07.16.0/1	GG07.16.0/3	GG07.16.0/4	GG07.16.0/5	GG07.16.0/6	GG07.16.0/7
18	8300	200	23,3	GG07.18.0/1	GG07.18.0/3	GG07.18.0/4	GG07.18.0/5	GG07.18.0/6	GG07.18.0/7
20	10000	200	29,0	GG07.20.0/1	GG07.20.0/3	GG07.20.0/4	GG07.20.0/5	GG07.20.0/6	GG07.20.0/7
22	12200	200	35,0	GG07.22.0/1	GG07.22.0/3	GG07.22.0/4	GG07.22.0/5	GG07.22.0/6	GG07.22.0/7
24	14500	200	42,0	GG07.24.0/1	GG07.24.0/3	GG07.24.0/4	GG07.24.0/5	GG07.24.0/6	GG07.24.0/7
26	17000	200	49,0	GG07.26.0/1	GG07.26.0/3	GG07.26.0/4	GG07.26.0/5	GG07.26.0/6	GG07.26.0/7
28	19600	200	59,0	GG07.28.0/1	GG07.28.0/3	GG07.28.0/4	GG07.28.0/5	GG07.28.0/6	GG07.28.0/7
30	22500	200	68,0	GG07.30.0/1	GG07.30.0/3	GG07.30.0/4	GG07.30.0/5	GG07.30.0/6	GG07.30.0/7
32	25500	200	77,5	GG07.32.0/1	GG07.32.0/3	GG07.32.0/4	GG07.32.0/5	GG07.32.0/6	GG07.32.0/7
34	29000	200	87,0	GG07.34.0/1	GG07.34.0/3	GG07.34.0/4	GG07.34.0/5	GG07.34.0/6	GG07.34.0/7
36	32100	200	98,0	GG07.36.0/1	GG07.36.0/3	GG07.36.0/4	GG07.36.0/5	GG07.36.0/6	GG07.36.0/7

● **Only available on full reels**
■ **On reels up to 20 mm diam.**



Gleistein Ropes since 1824

Cup / Cup Full Color / Cup Solid Color

The classic, tried and tested for decades; highest efficiency in a polyester rope through its unique construction.

Construction

- Core of parallel HT continuous filament polyester.
- Inner braided sheath of coarse synthetic fibre (8mm diameter and above) binds the core yarns.
- Outer cover of HT continuous filament polyester.
- Gleistein's orange identification yarn.

Good to know

- Cup has the lowest stretch possible in a polyester fibre rope due to the zero constructional stretch of its parallel fibre core.
- With its compact durable construction Cup becomes more flexible in use.
- Very high life expectancy.
- No creep.
- Universal rope ideal for Guys, Up/Downhauls, Reefing Lines, Vang and Cunningham.
- Not spliceable above 14 mm diam.

Cup

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Red/Blue	Blue	Red	Green	Yellow	Black
3 ●	170	200	0,7	GG06.03.0/1	GG06.03.0/2	GG06.03.0/3	GG06.03.0/4	GG06.03.0/5	GG06.03.0/6	GG06.03.0/7
4 ●	350	200	1,1	GG06.04.0/1	GG06.04.0/2	GG06.04.0/3	GG06.04.0/4	GG06.04.0/5	GG06.04.0/6	GG06.04.0/7
5 ●	600	200	1,8	GG06.05.0/1	GG06.05.0/2	GG06.05.0/3	GG06.05.0/4	GG06.05.0/5	GG06.05.0/6	GG06.05.0/7
6 ●	780	200	2,7	GG06.06.0/1	GG06.06.0/2	GG06.06.0/3	GG06.06.0/4	GG06.06.0/5	GG06.06.0/6	GG06.06.0/7
8 ●	1300	200	4,5	GG06.08.0/1	GG06.08.0/2	GG06.08.0/3	GG06.08.0/4	GG06.08.0/5	GG06.08.0/6	GG06.08.0/7
10 ●	2200	200	7,3	GG06.10.0/1	GG06.10.0/2	GG06.10.0/3	GG06.10.0/4	GG06.10.0/5	GG06.10.0/6	GG06.10.0/7
12 ●	3200	200	9,5	GG06.12.0/1	GG06.12.0/2	GG06.12.0/3	GG06.12.0/4	GG06.12.0/5	GG06.12.0/6	GG06.12.0/7
14 ●	4600	200	13,5	GG06.14.0/1	GG06.14.0/2	GG06.14.0/3	GG06.14.0/4	GG06.14.0/5	GG06.14.0/6	GG06.14.0/7
16	6500	200	18,3	GG06.16.0/1	GG06.16.0/2	GG06.16.0/3	GG06.16.0/4	GG06.16.0/5	GG06.16.0/6	GG06.16.0/7
18	7700	200	21,0	GG06.18.0/1	GG06.18.0/2	GG06.18.0/3	GG06.18.0/4	GG06.18.0/5	GG06.18.0/6	GG06.18.0/7

Cup Full Color

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Blue	Red	Green	Yellow	Black
6 ●	780	200	2,7	GG06.06.0/33	GG06.06.0/44	GG06.06.0/55	GG06.06.0/66	GG06.06.0/77
8 ●	1300	200	4,5	GG06.08.0/33	GG06.08.0/44	GG06.08.0/55	GG06.08.0/66	GG06.08.0/77
10 ●	2200	200	7,3	GG06.10.0/33	GG06.10.0/44	GG06.10.0/55	GG06.10.0/66	GG06.10.0/77
12 ●	3200	200	9,5	GG06.12.0/33	GG06.12.0/44	GG06.12.0/55	GG06.12.0/66	GG06.12.0/77
14 ●	4600	200	13,5	GG06.14.0/33	GG06.14.0/44	GG06.14.0/55	GG06.14.0/66	GG06.14.0/77

Cup Solid Color

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Blue	Red	Green	Grey	Black
6 ●	780	200	2,7	GG06.06.0/333	GG06.06.0/444	GG06.06.0/555	GG06.06.0/222	GG06.06.0/777
8 ●	1300	200	4,5	GG06.08.0/333	GG06.08.0/444	GG06.08.0/555	GG06.08.0/222	GG06.08.0/777
10 ●	2200	200	7,3	GG06.10.0/333	GG06.10.0/444	GG06.10.0/555	GG06.10.0/222	GG06.10.0/777
12 ●	3200	200	9,5	GG06.12.0/333	GG06.12.0/444	GG06.12.0/555	GG06.12.0/222	GG06.12.0/777
14 ●	4600	200	13,5	GG06.14.0/333	GG06.14.0/444	GG06.14.0/555	GG06.14.0/222	GG06.14.0/777

● **Only available on full reels**

Cup T (Traditional)

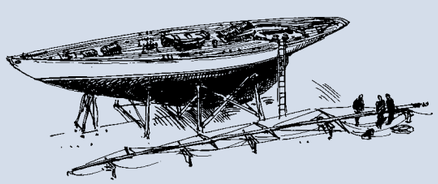
High performance sheets/ halyards for traditional yachts.

Construction
- Core of parallel HT continuous filament polyester.
- Inner braided sheath of coarse synthetic fibre (8mm diameter and above) binds the core yarns.
- Outer cover of bronze and hemp coloured HT polyester yarns.

Good to know
- Cup has the lowest stretch possible in a polyester fibre rope due to the zero constractional stretch of its parallel fibre core.
- With its compact durable construction Cup becomes more flexible in use.
- Very high life expectancy.
- No creep.
- Universal rope ideal for Guys, Up/Downhauls, Reefing Lines, Vang and Cunningham.
- Easy to splice.
- Not spliceable above 14 mm diam.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Bronze	Ref. No. Hemp
8 ●	1300	200	4,5	GG06.08.0/8	GG06.08/10
10 ●	2200	200	7,3	GG06.10.0/8	GG06.10/10
12 ●	3200	200	9,5	GG06.12.0/8	GG06.12/10
14 ●	4600	200	13,5	GG06.14.0/8	GG06.14/10
16 ●	6500	200	18,3	GG06.16.0/8	GG06.16/10
18 ●	7700	200	21,0	GG06.18.0/8	GG06.18/10

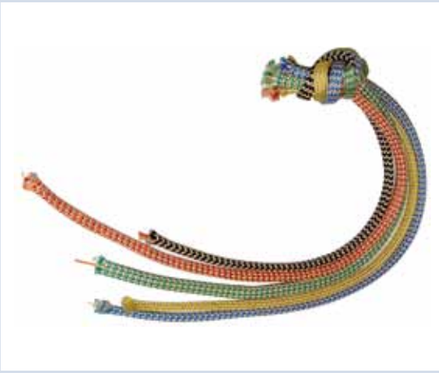
● **Only available on full reels**



Racing cover

Construction
- cover of 50% coloured HT polyester yarns and 50% Technora yarns
- Inside cover is a messenger to pull DynaOne or DynaOne HS inside cover

Good to know
- The friction from the Techno fibres overcome slipping the DynaOne through the cover
- Specially for making halyards with low windage



ø in mm	Reel Length in mtr	Ref. No. Technora/ White	Technora/ Grey	Technora/ Blue	Technora/ Red	Technora/ Green	Technora/ Yellow	Technora/ Black
10 ●	200	GG53.10.0/1	GG53.10.0/2	GG53.10.0/3	GG53.10.0/4	GG53.10.0/5	GG53.10.0/6	GG53.10.0/7
12 ●	200	GG53.12.0/1	GG53.12.0/2	GG53.12.0/3	GG53.12.0/4	GG53.12.0/5	GG53.12.0/6	GG53.12.0/7

● **Only available on full reels**

Discover

Take the rough with the smooth: high performance sheet with an extra grip through the sophisticated fibre-mix.

Construction
- 8-Plait, blended from Dyneema® SK75 and polyester staple fibre.
- Available in white/red, white/blue and white/grey

Good to know
- Very supple and handy braid with excellent handle-ability.
- Excellent in jammers.
- High knotted strength.
- Universal rope for a large variety of applications, especially for Dinghies and main sheets for racing and cruising yachts

Picture Suzanne v.d. Horst

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Grey	Blue	Red
3 ●	350	200	0,54	-	GG48.03.0/3	GG48.03.0/4
4 ●	500	200	0,73	-	GG48.04.0/3	GG48.04.0/4
5 ●	800	200	1,29	GG48.05.0/2	GG48.05.0/3	GG48.05.0/4
6 ●	1200	200	1,80	GG48.06.0/2	GG48.06.0/3	GG48.06.0/4
8 ●	1800 *	200	3,60	GG48.08.0/2	GG48.08.0/3	GG48.08.0/4
10 ●	2900 *	200	5,40	GG48.10.0/2	GG48.10.0/3	GG48.10.0/4
12 ●	3500 *	200	7,60	GG48.12.0/2	GG48.12.0/3	GG48.12.0/4

* **With inner core**
● **Only available on full reels**

Dyna Lite / Dyna Lite Full Color / Dyna Lite Solid Color / Dyna Lite T

Economic high performance sheet / halyard for cuising yachts.

Compatability that pays.
The heavier polyester cover on the smaller Dyneema® core gives slightly lower strength, to match standard fittings.
Dyna Lite is the ideal rope for the most cost-concious competative yachtsman.

Construction

- Core of 12-strand braid of Dyneema® SK75 fibres.
- Intermediate cover of polyester staple fibres to give frictional hold between the Dyneema core and the outer cover.
- Outer cover of white HT polyester yarns with various melt dyed coloured marker yarns. The 24 or 32 strand (depending on rope size) braided cover gives exceptional abrasion resistance whilst maintaining flexibility.
- Gleistein's orange identification yarn.

Good to know

- Similar stretch characteristics to steel wire rope with slight lower strength make Dyna Lite an ideal economic choice for cruising yachtsmen and original equipment manufacturers (O.E.M.)
- Exceptional abrasion resistance, excellent in stoppers.
- Dyna Lite can be tapered by the removal of sections of the outer cover.
- Even with its lower strength than full Dyneema the low stretch of Dyna Lite means that high shock loads (particularly in Spi halyards) associated fittings such as spinnaker heads, which should be reinforced accordingly. Alternatively a polyester halyard could be used.
- Spliceable using the correct technique.

Dyna Lite

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Blue	Red	Green	Yellow
6 ●	1200	200	2,3	GG31.06.0/1	GG31.06.0/3	GG31.06.0/4	GG31.06.0/5	GG31.06.0/6
8 ●	1650	200	3,8	GG31.08.0/1	GG31.08.0/3	GG31.08.0/4	GG31.08.0/5	GG31.08.0/6
10 ●	3000	200	5,9	GG31.10.0/1	GG31.10.0/3	GG31.10.0/4	GG31.10.0/5	GG31.10.0/6
12 ●	5100	200	8,9	GG31.12.0/1	GG31.12.0/3	GG31.12.0/4	GG31.12.0/5	GG31.12.0/6
14 ●	7500	200	11,6	GG31.14.0/1	GG31.14.0/3	GG31.14.0/4	GG31.14.0/5	GG31.14.0/6
16	9500	200	15,2	GG31.16.0/1	GG31.16.0/3	GG31.16.0/4	GG31.16.0/5	GG31.16.0/6

Dyna Lite Full Color

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Blue	Red	Green	Yellow
6 ●	1200	200	2,3	GG31.06.0/33	GG31.06.0/44	GG31.06.0/55	GG31.06.0/66
8 ●	1650	200	3,8	GG31.08.0/33	GG31.08.0/44	GG31.08.0/55	GG31.08.0/66
10 ●	3000	200	5,9	GG31.10.0/33	GG31.10.0/44	GG31.10.0/55	GG31.10.0/66
12 ●	5100	200	8,9	GG31.12.0/33	GG31.12.0/44	GG31.12.0/55	GG31.12.0/66
14 ●	7500	200	11,6	GG31.14.0/33	GG31.14.0/44	GG31.14.0/55	GG31.14.0/66
				GG31.16.0/33	GG31.16.0/44	GG31.16.0/55	GG31.16.0/66

Dyna Lite Solid Color / Dyna Lite T

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Grey	Black	Bronze	Hemp
8 ●	1650	200	3,8	GG31.08.0/222	GG31.08.0/777	GG31.08.0/8	GG31.08/10
10 ●	3000	200	5,9	GG31.10.0/222	GG31.10.0/777	GG31.10.0/8	GG31.10/10
12 ●	5100	200	8,9	GG31.12.0/222	GG31.12.0/777	GG31.12.0/8	GG31.12/10
14 ●	7500	200	11,6	-	-	GG31.14.0/8	GG31.14/10

● **Only available on full reels**

Mega Twin **Dyneema**

The superiour sheet/ halyard for racing and cruising yachts.

Powerful and universal.
The combination of Dyneema® core and firm double cover construction gives maximum strength and minimum stretch with extraordinary stable shape refension and abrasion resistance.

Construction

- Core of 12-strand braid of Dyneema® SK75 fibres.
- Intermediate cover of polyester staple fibres to give frictional hold between the Dyneema core and the outer cover and stable-cross sectional shape.
- Outer cover of white HT polyester yarns with various colour coded melt-dyed yarns. The 24 or 32 strand (depending on the rope size) braided cover gives exceptional abrasion resistance whilst maintaining flexibility.
- Gleistein's orange identification yarn.

Good to know

- Similar strength and stretch to steel wire rope of comparable size.
- Abrasion resistant outer cover particularly suitable for stoppers.
- The creep (non-recoverable stretch of this fibre) means that long term halyard re-adjustment might be necessary.
- The very low stretch of Dyneema means that high shockloads (particularly in Spi halyards) will be directly transmitted to associated fittings such as spinnaker heads which should be re-inforced accordingly. Alternatively a polyester halyard could be used.
- Dyneema ropes can be tapered by the removal of sections of outer cover. For a fully uncovered Dyneema rope we recommend DYNA ONE with its coloured abrasion resistant GEOTHANE coating.
- Universal rope ideal for Guys, Up/Downhauls, Reefing Lines, Vang and Cunningham.
- Spliceable using the correct technique.
- For smaller sizes than 6 mm use caribic color

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. White	Blue	Red	Green	Yellow	Black
6 ●	1650	200	2,6	GG02.06.0/1	GG02.06.0/3	GG02.06.0/4	GG02.06.0/5	GG02.06.0/6	GG02.06.0/7
8 ●	3000	200	4,0	GG02.08.0/1	GG02.08.0/3	GG02.08.0/4	GG02.08.0/5	GG02.08.0/6	GG02.08.0/7
10 ●	5100	200	6,8	GG02.10.0/1	GG02.10.0/3	GG02.10.0/4	GG02.10.0/5	GG02.10.0/6	GG02.10.0/7
12 ●	7500	200	9,9	GG02.12.0/1	GG02.12.0/3	GG02.12.0/4	GG02.12.0/5	GG02.12.0/6	GG02.12.0/7
14 ●	9500	200	13,3	GG02.14.0/1	GG02.14.0/3	GG02.14.0/4	GG02.14.0/5	GG02.14.0/6	GG02.14.0/7
16	12000	200	17,5	GG02.16.0/1	GG02.16.0/3	GG02.16.0/4	GG02.16.0/5	GG02.16.0/6	GG02.16.0/7
18	15000	200	22,3	GG02.18.0/1	GG02.18.0/3	GG02.18.0/4	GG02.18.0/5	GG02.18.0/6	GG02.18.0/7
20	19000	200	28,0	GG02.20.0/1	GG02.20.0/3	GG02.20.0/4	GG02.20.0/5	GG02.20.0/6	GG02.20.0/7
22	23000	200	32,7	GG02.22.0/1	GG02.22.0/3	GG02.22.0/4	GG02.22.0/5	GG02.22.0/6	GG02.22.0/7
24	25500	200	38,9	GG02.24.0/1	GG02.24.0/3	GG02.24.0/4	GG02.24.0/5	GG02.24.0/6	GG02.24.0/7
26	27500	200	44,0	GG02.26.0/1	GG02.26.0/3	GG02.26.0/4	GG02.26.0/5	GG02.26.0/6	GG02.26.0/7
28	31700	200	46,0	GG02.28.0/1	GG02.28.0/3	GG02.28.0/4	GG02.28.0/5	GG02.28.0/6	GG02.28.0/7
30	36000	200	58,0	GG02.30.0/1	GG02.30.0/3	GG02.30.0/4	GG02.30.0/5	GG02.30.0/6	GG02.30.0/7

● **Only available on full reels**
■ **On reels up to 16 mm diam.**

Mega Twin **Dyneema Full Color / Dyneema Solid Color / Dyneema T**

The superiour sheet/ halyard for racing and cruising yachts.

Full coloured Dyneema has a full red/ blue or green coloured polyester cover with white tracer yarns

Construction
- The construction of the Full Color is the is the same as Mega Twin Dyneema

Good to know
- For smaller sizes than 8mm use caribic color

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Dyneema Full Color Ref. No. Blue	Red	Green	Yellow	Black
8 ●	3000	200	4,0	GG02.08.0/33	GG02.08.0/44	GG02.08.0/55	GG02.08.0/66	GG02.08.0/77
10 ●	5100	200	6,8	GG02.10.0/33	GG02.10.0/44	GG02.10.0/55	GG02.10.0/66	GG02.10.0/77
12 ●	7500	200	9,9	GG02.12.0/33	GG02.12.0/44	GG02.12.0/55	GG02.12.0/66	GG02.12.0/77
14 ●	9500	200	13,3	GG02.14.0/33	GG02.14.0/44	GG02.14.0/55	GG02.14.0/66	GG02.14.0/77

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Dyneema Solid Color Ref. No. Grey	Black	Dyneema T Ref. No. Bronze	Hemp
8 ●	3000	200	4,0	GG02.08.0/222	GG02.08.0/777	GG02.08.0/8	GG02.08/10
10 ●	5100	200	6,8	GG02.10.0/222	GG02.10.0/777	GG02.10.0/8	GG02.10/10
12 ●	7500	200	9,9	GG02.12.0/222	GG02.12.0/777	GG02.12.0/8	GG02.12/10
14 ●	9500	200	13,3	GG02.14.0/222	GG02.14.0/777	GG02.14.0/8	GG02.14/10

● **Only available on full reels**

"Witte-Woerd" De Ridder One Design

Mega Twin **Dyneema HS**

The rope for winners with a touch more break load: Heat-set core for even better strenght and lower elongation.

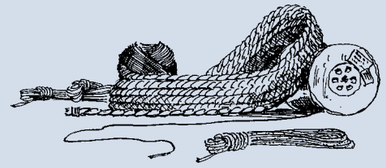
Construction
- Core of 12-strand braid of Dyneema® SK75 fibres heat set.
- Intermediate cover of polyester staple fibres.
- 24 or 32-plait cover of HT continuous filament polyester yarns.
- Outer cover grey with red or blue marker yarns.
- Gleistein's orange identification yarn.

Good to know
- Similar strength and stretch to steel wire rope.
- Abrasion resistant outer cover particularly suitable for stoppers.
- Very stable cross-section.
- The creep (non-recoverable stretch) of Dyneema® SK75 means that long term halyard re-adjustment might be necessary.
- The very low stretch of Dyneema means that high shockloads (particularly in Spi halyards) will be directly transmitted to associated fittings such as spinnaker heads which should be re-inforced accordingly. Alternatively a polyester halyard could be used.
- Dyneema ropes can be tapered by the removal of sections of outer cover.
- Universal rope ideal for Guys, Up/Downhauls, Reefing Lines, Vang and Cunningham.

Winner 1010

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Blue	Red
8 ●	5000	200	4,6	GG49.08.0/3	GG49.08.0/4
10 ●	7500	200	7,3	GG49.10.0/3	GG49.10.0/4
12	9500	200	9,8	GG49.12.0/3	GG49.12.0/4
14	12000	200	13,8	GG49.14.0/3	GG49.14.0/4
16	15000	200	17,0	GG49.16.0/3	GG49.16.0/4
18	17000	200	22,5	GG49.18.0/3	GG49.18.0/4
20	24000	200	28,0	GG49.20.0/3	GG49.20.0/4
22	28000	200	31,0	GG49.22.0/3	GG49.22.0/4
24	38000	200	37,0	GG49.24.0/3	GG49.24.0/4
26	44000	200	48,0	GG49.26.0/3	GG49.26.0/4
28	51500	200	53,0	GG49.28.0/3	GG49.28.0/4
30	59000	200	58,0	GG49.30.0/3	GG49.30.0/4

● **Only available on full reels**
■ **On reels up to 16 mm diam.**



Gleistein Ropes since 1824

Mega Twin **T4**

Perfection to the very end: an abrasion resistant, flexible high-performance line without intermediate cover for easy splicing.

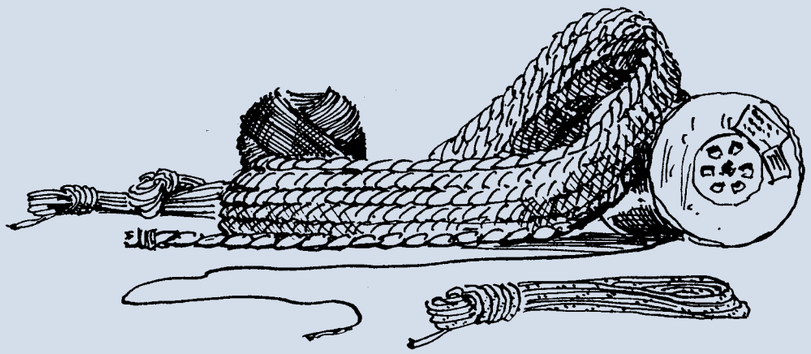
Construction

- Core 12-strand braid blended with Dyneema® SK75 fibres and a new, special type of fibre for improved core-cover grip
- Core additionally features a newly-developed surface coating enabling relinquishment of intermediate cover
- Cover solid color, 24-strand braid from high-twist twine in various solid colors
- Gleistein's orange ID yarn

Good to know

- Outstanding breaking load with low elongation
- Excellent abrasion resistance
- Flexible, easy-to-handle Dyneema® line
- Ideal for sheets, up/downhauls and tack lines
- Easy to splice
- Can be used stripped of cover, if required

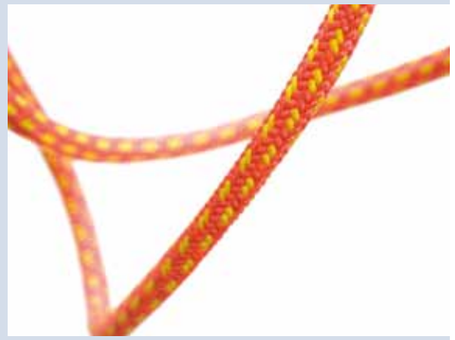
ø in mm	Breaking Load in daN	Weight in kg/ 100 mtr.
4	630	1,05
5	1100	1,70
6	1500	3,10
8	2700	4,50
10	4500	6,10
12	6800	8,70
14	8500	12,50
16	10500	16,20
18	13500	21,70
20	17000	28,00
22	20500	33,00
24	23000	39,00



Gleistein Ropes since 1824

Mega Twin **T4 noveni**

Performance that achieves its goal. Flexible, spliceable - and now with even more strength: The abrasion-resistant, high-performance rope with Dyneema® SK90.



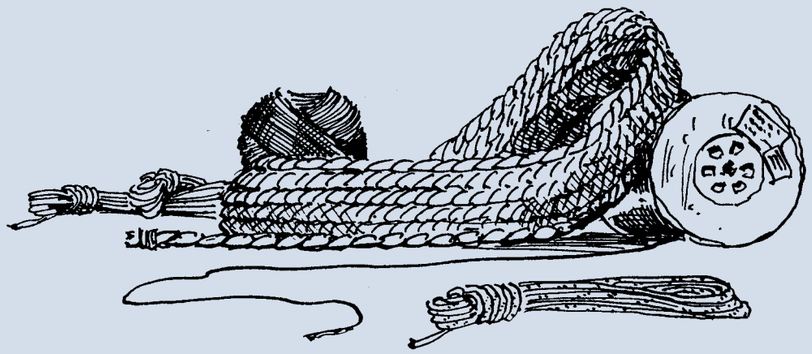
Construction

- Core 12-strand braid blended with Dyneema® SK90 fibres and a new, special type of fibre for improved core-cover grip further increased strength
- Core additionally features a newly-developed surface coating enabling relinquishment of intermediate cover
- Cover solid color, 24-strand braid from high-twist twine in various solid colors
- Gleistein's orange ID yarn

Good to know

- Up to 15% more strength and optimised elongation, when compared with MegaTwin T4
- Ultimate breaking load with low elongation
- Excellent abrasion resistance
- Flexible, easy-to-handle Dyneema® line
- MegaTwin T4 noveni works best where a high breaking load is required with a uniformly small deflection radius
- Ideal for sheets, up/downhauls and tack lines
- Easy to splice
- Can be used stripped of cover, if required

ø in mm	Breaking Load in daN	Weight in kg/ 100 mtr.
4	725	1,05
5	1250	1,70
6	1700	3,10
8	3100	4,50
10	5100	6,10
12	7800	8,70
14	9750	12,50
16	12000	16,20
18	15500	21,70
20	19500	28,00
22	23000	33,00
24	26000	39,00



G2

Light at the clew handleable in the cockpit

Construction
- Core caribic color
- Cover 16-strand solid color Standard sheet

Good to know
- G2 is the rope for stripping and tapering
- Spinnacker light weather sheets
- No stretch good handling
- Color of core and cover are matched for improved identification on board

G2

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Red	Ref. No. Green
4 - 6,5	650	250	2,6	GGG20.4.0/4	GGG20.4.0/5

Spliced Versus Knotted Rope Break Strength

Rope Type	ø mm	Break Load daN	Max. Loss Break Load	Bowline daN	Thimber Hitch daN	Figure Eight Knot daN
		Spliced		***Knotted Break Strength***		
Gemini X	16	6500	- 39 %	4000	4575	4400
Tasmania	12	2900	- 40 %	1750	2650	1925
Cup	12	3200	- 39 %	1950	2300	2150
Megatwin Dyneema®	16	12000	- 56 %	5250	7650	5875
Dyna Lite	16	9500	- 62 %	3575	6800	4650
Megatwin Vectran®	16	9700	- 67 %	3250	6725	4175
MegaOne DynaOne	16	20500	- 78 %	4500	6515	6450
MegaOne DynaOne	10	8500	- 72 %	2375	4025	2850
MegaOne DynaOne	6	2700	- 67 %	890	1630	1340

Professionally executed splices are the most efficient end termination of ropes. They ensure that a high degree of the linear break load of a rope can be achieved in use. Knots can reduce the linear break load by more than 50%.

TaperTwin

Bespoke racing performance:
feather-light at the clew, handleable at the winch, excellent in stoppers.

Construction
- For stripping and tapering.
- Core 12-plait Dyneema® SK75 heat set with Geothane coating in green or red.
- Cover 24 or 32-plait of HT polyester with matching marker yarns.
- Gleistein's orange identification yarn.

Good to know
- TaperTwin is the rope for stripping and tapering.
- The construction of the core braid is optimized for enhanced abrasion resistance and improved UV stability.
- Highest break load at lowest weight.
- Colour of core and cover are matched for improved identification on board.

X-35

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Red	Ref. No. Green
2,5 - 4,0 ●	400	200	1,1	GG51.02.5/4	GG51.02.5/5
3,0 - 5,0 ●	700	200	1,7	GG51.03.0/4	GG51.03.0/5
4,0 - 6,0 ●	1650	200	2,4	GG51.04.0/4	GG51.04.0/5
5,0 - 8,0 ●	2900	200	3,9	GG51.05.0/4	GG51.05.0/5

● **Only available on full reels**

X-35

Gleistein Ropes since 1824

DynaOne / DynaOne T

Ultimate performance in its purest form: floating wire rope without the snags.

The choice of a winning boat with 8 times the strength weight ratio of steel wire rope. DynaOne has the incomparable properties of Dyneema® SK75 fibre in a unique construction.

Construction
- 12-Strand braid of 100% Dyneema® SK75 fibres.
- Protective coating of coloured GEOTHANE.
- Available in a range of solid colours.

Good to know
- DynaOne floats.
- In stoppers and areas of frequent contact it is suggested to fix an additional outer sheath of plaited polyester in place (sewn and seized).
  Alternatively the use of TaperTwin is suggested.
- DynaOne should only be used with fittings and equipments of comparable strength and robustness.
- Fusion abrasion - due to frictional high temperatures - could be dramatically reduced by the copious application of water (or other liquid substances just as readily available on many yachts).
- Ideal for halyards, Up/Down-hauls, Reefing Lines or Sheet.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	DynaOne Ref. No. Grey	White	Blue	Red	Green	Yellow	DynaOne T Ref. No. Hemp
2,0 ●	350	200	0,25	GG05.02.0/0	GG05.02.0/1	GG05.02.0/3	GG05.02.0/4	GG05.02.0/5	GG05.02.0/6	GG05.02/10
3,0 ●	706	200	0,48	GG05.03.0/0	GG05.03.0/1	GG05.03.0/3	GG05.03.0/4	GG05.03.0/5	GG05.03.0/6	GG05.03/10
4,0 ●	1200	200	0,80	GG05.04.0/0	GG05.04.0/1	GG05.04.0/3	GG05.04.0/4	GG05.04.0/5	GG05.04.0/6	GG05.04/10
5,0 ●	2300	200	1,45	GG05.05.0/0	GG05.05.0/1	GG05.05.0/3	GG05.05.0/4	GG05.05.0/5	GG05.05.0/6	GG05.05/10
6,0 ●	2700	200	2,00	GG05.06.0/0	GG05.06.0/1	GG05.06.0/3	GG05.06.0/4	GG05.06.0/5	GG05.06.0/6	GG05.06/10
7,0 ●	3915	200	2,90	GG05.07.0/0	GG05.07.0/1	GG05.07.0/3	GG05.07.0/4	GG05.07.0/5	GG05.07.0/6	GG05.07/10
8,0	5000	200	3,50	GG05.08.0/0	GG05.08.0/1	GG05.08.0/3	GG05.08.0/4	GG05.08.0/5	GG05.08.0/6	GG05.08/10
10,0	8500	200	4,80	GG05.10.0/0	GG05.10.0/1	GG05.10.0/3	GG05.10.0/4	GG05.10.0/5	GG05.10.0/6	GG05.10/10
12,0	11500	200	8,20	GG05.12.0/0	GG05.12.0/1	GG05.12.0/3	GG05.12.0/4	GG05.12.0/5	GG05.12.0/6	GG05.12/10
14,0	14200	200	10,50	GG05.14.0/0	GG05.14.0/1	GG05.14.0/3	GG05.14.0/4	GG05.14.0/5	GG05.14.0/6	GG05.14/10
16,0	17000	200	12,00	GG05.16.0/0	GG05.16.0/1	GG05.16.0/3	GG05.16.0/4	GG05.16.0/5	GG05.16.0/6	GG05.16/10
18,0	22000	200	16,50	GG05.18.0/0	GG05.18.0/1	GG05.18.0/3	GG05.18.0/4	GG05.18.0/5	GG05.18.0/6	GG05.18/10
20,0	26500	200	20,00	GG05.20.0/0	GG05.20.0/1	GG05.20.0/3	GG05.20.0/4	GG05.20.0/5	GG05.20.0/6	GG05.20/10
22,0	32500	200	24,00	GG05.22.0/0	GG05.22.0/1	GG05.22.0/3	GG05.22.0/4	GG05.22.0/5	GG05.22.0/6	GG05.22/10
24,0	38000	200	29,50	GG05.24.0/0	GG05.24.0/1	GG05.24.0/3	GG05.24.0/4	GG05.24.0/5	GG05.24.0/6	GG05.24/10

● **Only available on full reels**
■ **On reels up to 16 mm diam.**

Gleistein Ropes since 1824

DynaOne HS

Optimized: the ultimate light-weight with perfect performance characteristics.

Construction
- 12-Strand braid of 100% Dyneema® SK75 fibres **heat set**.
- Protective coating of coloured GEOTHANE.
- Available in a range of solid colours.

Good to know
- DynaOne HS has the extra amount of break load for extreme applications.
- Through the **heat set** process very stable cross section.
- The initial stiffness will soften up severely in use.

DynaOne HS noveni

- This is the same rope produced from Dyneema SK90 fibres
- Breaking loads are approx. 12% more
- Creep stays unchanged
- Available on request

X-35

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Grey	White	Blue	Red	Green	Yellow
3 ●	900	200	0,60	GG05.03.0/0HS	GG05.03.0/1HS	GG05.03.0/3HS	GG05.03.0/4HS	GG05.03.0/5HS	GG05.03.0/6HS
4 ●	1700	200	0,95	GG05.04.0/0HS	GG05.04.0/1HS	GG05.04.0/3HS	GG05.04.0/4HS	GG05.04.0/5HS	GG05.04.0/6HS
5 ●	2900	200	1,65	GG05.05.0/0HS	GG05.05.0/1HS	GG05.05.0/3HS	GG05.05.0/4HS	GG05.05.0/5HS	GG05.05.0/6HS
6 ●	3700	200	2,10	GG05.06.0/0HS	GG05.06.0/1HS	GG05.06.0/3HS	GG05.06.0/4HS	GG05.06.0/5HS	GG05.06.0/6HS
7 ●	5650	200	3,40	GG05.07.0/0HS	-	GG05.07.0/3HS	GG05.07.0/4HS	GG05.07.0/5HS	-
8 ●	7500	200	4,20	GG05.08.0/0HS	GG05.08.0/1HS	GG05.08.0/3HS	GG05.08.0/4HS	GG05.08.0/5HS	GG05.08.0/6HS
10	9900	200	5,60	GG05.10.0/0HS	GG05.10.0/1HS	GG05.10.0/3HS	GG05.10.0/4HS	GG05.10.0/5HS	GG05.10.0/6HS
12	17000	200	9,70	GG05.12.0/0HS	GG05.12.0/1HS	GG05.12.0/3HS	GG05.12.0/4HS	GG05.12.0/5HS	GG05.12.0/6HS
14	24000	200	13,50	GG05.14.0/0HS	GG05.14.0/1HS	GG05.14.0/3HS	GG05.14.0/4HS	GG05.14.0/5HS	GG05.14.0/6HS
16	28000	200	15,30	GG05.16.0/0HS	GG05.16.0/1HS	GG05.16.0/3HS	GG05.16.0/4HS	GG05.16.0/5HS	GG05.16.0/6HS
18	38000	200	20,50	GG05.18.0/0HS	GG05.18.0/1HS	GG05.18.0/3HS	GG05.18.0/4HS	GG05.18.0/5HS	GG05.18.0/6HS
20	44000	200	23,50	GG05.20.0/0HS	GG05.20.0/1HS	GG05.20.0/3HS	GG05.20.0/4HS	GG05.20.0/5HS	GG05.20.0/6HS
22	51500	200	27,50	GG05.22.0/0HS	GG05.22.0/1HS	GG05.22.0/3HS	GG05.22.0/4HS	GG05.22.0/5HS	GG05.22.0/6HS
24	59000	200	31,50	GG05.24.0/0HS	GG05.24.0/1HS	GG05.24.0/3HS	GG05.24.0/4HS	GG05.24.0/5HS	GG05.24.0/6HS

● **Only available on full reels**
■ **On reels up to 16 mm diam.**

DynaOne HS GeoBend

Around the bend: the remarkable strength and low weight of Dyneema® with up to 15x longer operational life under under flexural stresses

Construction

- 12-Strand braid from a Dyneema® SK75 fibre blend incorporating a special internal lubricating fibre to reduce inner abrasion
- Newly-developed special coating provides improved performance for bending and alternating loads
- Available in grey

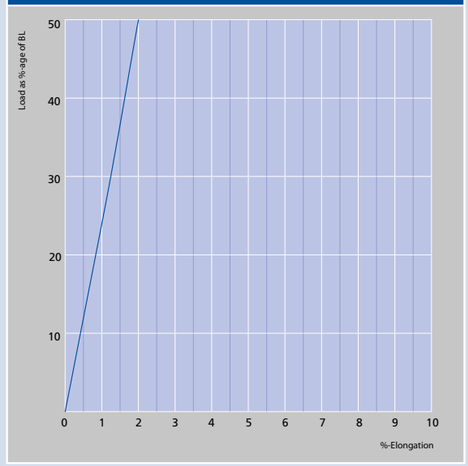
Good to know

- Ideal for application on davit cranes and winches
- Neutral buoyancy
- Wire rope replacement enabling smaller bend radiuses
- Cleaner due to the absence of metal dust and wire rope grease
- Special splicing technique ensures maximum exploitation of breaking load in the minimum of space
- Installation service by Gleistein riggers ensures safe and sound application
- DynaOne HS GeoBend is approved by Germanischen Lloyd (GL) for use in davits

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Grey
10	9600	200	5,55	GG05.10.0/0HSGB
12	16500	200	9,64	GG05.12.0/0HSGB
14	23200	200	13,50	GG05.14.0/0HSGB
16	27000	200	15,30	GG05.16.0/0HSGB
18	37000	200	20,50	GG05.18.0/0HSGB
20	42500	200	23,50	GG05.20.0/0HSGB
22	50000	200	27,50	GG05.22.0/0HSGB
24	57000	200	31,50	GG05.24.0/0HSGB
26	64500	200	35,50	GG05.26.0/0HSGB
28	71500	200	39,50	GG05.28.0/0HSGB
30	79000	200	43,50	GG05.30.0/0HSGB

■ **Bigger sizes up to 64 mm available**

Load /Elongation curves



234

Mega Twin **Vectran / Vectran Solid Color**

The ultimate halyard / sheet for racing- and large yachts.

0 % Creep under load and 100 % abrasion resistance: the ideal rope for hydraulically tensioned halyards.

Construction

- Core of 12-strand braided Vectran® HS fibres.
- Intermediate cover of polyester staple fibres to give frictional hold between VECTRAN core and the outer cover and stable cross-sectional shape.
- Outer cover of melt-dyed gold HT Polyester yarns (plain white is also available) with various coloured marker yarns. The 24 or 32 strand (depending on the size) cover gives exceptional abrasion resistance whilst maintaining flexibility.
- Gleistein's orange identification yarn.

Good to know

- Elongation equal to steel wire rope.
- Non-critical behaviour with modern sheaves.
- Ideal for backstays - runners and checkstays. Unlike wire virtually no damage to booms and mainsails.
- Spliceable using the correct technique.

Vectran
Ref. No.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	White/Blue	White/Red	White/Green	White/Black	Yellow/Blue	Yellow/Red	Yellow/Green	Yellow/Black
4	750	200	1,5	GG01.04.0/3	GG01.04.0/4	GG01.04.0/5	GG01.04.0/7	GG01.04.0/36	GG01.04.0/46	GG01.04.0/56	GG01.04.0/76
5	1000	200	2,3	GG01.05.0/3	GG01.05.0/4	GG01.05.0/5	GG01.05.0/7	GG01.05.0/36	GG01.05.0/46	GG01.05.0/56	GG01.05.0/76
6	1300	200	2,5	GG01.06.0/3	GG01.06.0/4	GG01.06.0/5	GG01.06.0/7	GG01.06.0/36	GG01.06.0/46	GG01.06.0/56	GG01.06.0/76
8	2250	200	5,0	GG01.08.0/3	GG01.08.0/4	GG01.08.0/5	GG01.08.0/7	GG01.08.0/36	GG01.08.0/46	GG01.08.0/56	GG01.08.0/76
10	3900	200	7,2	GG01.10.0/3	GG01.10.0/4	GG01.10.0/5	GG01.10.0/7	GG01.10.0/36	GG01.10.0/46	GG01.10.0/56	GG01.10.0/76
12	6000	200	11,0	GG01.12.0/3	GG01.12.0/4	GG01.12.0/5	GG01.12.0/7	GG01.12.0/36	GG01.12.0/46	GG01.12.0/56	GG01.12.0/76
14	7800	200	15,0	GG01.14.0/3	GG01.14.0/4	GG01.14.0/5	GG01.14.0/7	GG01.14.0/36	GG01.14.0/46	GG01.14.0/56	GG01.14.0/76
16	9700	200	19,0	GG01.16.0/3	GG01.16.0/4	GG01.16.0/5	GG01.16.0/7	GG01.16.0/36	GG01.16.0/46	GG01.16.0/56	GG01.16.0/76
18	12300	200	26,4	GG01.18.0/3	GG01.18.0/4	GG01.18.0/5	GG01.18.0/7	GG01.18.0/36	GG01.18.0/46	GG01.18.0/56	GG01.18.0/76
20	14600	200	32,5	GG01.20.0/3	GG01.20.0/4	GG01.20.0/5	GG01.20.0/7	GG01.20.0/36	GG01.20.0/46	GG01.20.0/56	GG01.20.0/76
22	18000	200	35,8	GG01.22.0/3	GG01.22.0/4	GG01.22.0/5	GG01.22.0/7	GG01.22.0/36	GG01.22.0/46	GG01.22.0/56	GG01.22.0/76
24	22000	200	42,6	GG01.24.0/3	GG01.24.0/4	GG01.24.0/5	GG01.24.0/7	GG01.24.0/36	GG01.24.0/46	GG01.24.0/56	GG01.24.0/76
28	29600	200	58,0	GG01.28.0/3	GG01.28.0/4	GG01.28.0/5	GG01.28.0/7	GG01.28.0/36	GG01.28.0/46	GG01.28.0/56	GG01.28.0/76

Vectran Solid Color
Ref. No.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	White	Black
4	750	200	1,5	GG01.04.0/1	GG01.04.0/77
5	1000	200	2,3	GG01.05.0/1	GG01.05.0/77
6	1300	200	2,5	GG01.06.0/1	GG01.06.0/77
8	2250	200	5,0	GG01.08.0/1	GG01.08.0/77
10	3900	200	7,2	GG01.10.0/1	GG01.10.0/77
12	6000	200	11,0	GG01.12.0/1	GG01.12.0/77
14	7800	200	15,0	GG01.14.0/1	GG01.14.0/77
16	9700	200	19,0	GG01.16.0/1	GG01.16.0/77
18	12300	200	26,4	GG01.18.0/1	GG01.18.0/77
20	14600	200	32,5	GG01.20.0/1	GG01.20.0/77
22	18000	200	35,8	GG01.22.0/1	GG01.22.0/77
24	22000	200	42,6	GG01.24.0/1	GG01.24.0/77
28	29600	200	58,0	GG01.28.0/1	GG01.28.0/77

Gleistein Ropes since 1824

VectraOne

No compromise: no creep under load, wire-rope-like elongation, perfect for static applications.

Construction
- 12-Plait of 100% Vectran® HS fibre.
- Grey Geothane coating for improved abrasion resistance and UV stability.

Good to know
- VectraOne can be protected by the use of an additional polyester cover in areas of jammers and/or enhanced friction.
- No measurable creep.
- VectraOne should only be used with fittings and equipment of comparable strength and robustness.
- VectraOne must not be exposed to sunlight due to the fibre's limited UV stability.
- Ideal for steering systems.

ø in mm	Breaking Load in daN	Reel Length in mtr	Weight in kg/ 100 mtr.	Ref. No. Grey
4	1400	200	1,3	GG52.04.0/0
5	2200	200	2,0	GG52.05.0/0
6	3100	200	2,9	GG52.06.0/0
8	5500	200	5,1	GG52.08.0/0
10	8500	200	8,0	GG52.10.0/0
12	13500	200	12,9	GG52.12.0/0
14	16000	200	15,7	GG52.14.0/0
16	20500	200	20,4	GG52.16.0/0
18	25500	200	25,9	GG52.18.0/0
20	31000	200	31,9	GG52.20.0/0
22	37500	200	38,7	GG52.22.0/0
24	44000	200	46,0	GG52.24.0/0

■ **Bigger sizes on request**

Gleistein Ropes since 1824

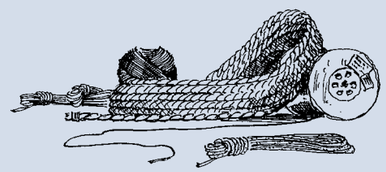
RunnerTwin **PBO 50, -TEC 50, -VEC 50**

Take the rough with the smooth: high performance sheet with an extra grip through the sophisticated fibre-mix.

Construction
- Core of 12-strand braid of Dyneema® SK75 fibre with Geothane HD coating.
- Cover 32-plait in three different specialized constructions:
  - ❒ PBO 50: 50% Zylon®, 50% polyester HT;
  - ❒ VEC 50: 50% Vectran®, 50% polyester HT;
  - ❒ TEC 50: 50% Technora®, 50% polyester HT.
- Basic colours 50% red, blue or black, 50% Zylon®, Vectran® of Technora® natural colour.
- Gleistein's orange identification yarn.

Good to know
- Excellent break load.
- Ultimate abrasion resistance through large content of high modulus fibre in the 32-plait cover braid.
- Very stable cross-section.
- RunnerTwin withstands high pressure.
- Minimized "fusing" of the ropes on winches and sheaves.
- The rope for backstay runners and hydraulic/ electric winches.
- Special manufacture with higher high modulus fibre content available on request.

ø in mm	Breaking Load in daN	Weight in kg/ 100 mtr.	PBO / Vectran / Technora
8	3000	4,0	
10	5100	6,8	
12	7500	9,5	
14	9500	13,7	
16	12000	17,8	
18	15000	22,5	
20	19000	28,0	
22	23000	33,0	
24	25500	39,0	
26	27500	42,0	
28	31700	46,0	
30	36000	53,0	
32	41000	60,0	
34	46000	68,0	
36	51000	76,0	



Gleistein Ropes since 1824

RunnerTwin noveni **PBO 50, -TEC 50, -VEC 50**

Running rigging that really makes the running: with Dyneema® SK90. Retains a cool core - even when subjected to high frictional heat.

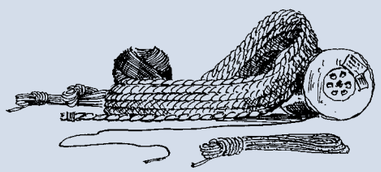
Construction

- Core 12-plait from Dyneema® SK90 fibre with Geothane HD coating
- Cover 32-plait in three different specialised constructions:
- PBO 50: 50% Zylon®, 50% Polyester HT
- VEC 50: 50% Vectran®, 50% Polyester HT
- TEC 50: 50% Technora®, 50% Polyester HT
- Basic colors 50% violet or pink, 50% Zylon®, Vectran® or Technora® natural color
- Gleistein's orange ID yarn

Good to know

- In comparison to RunnerTwin, Runner Twin noveni boasts a further improved breaking load
- Ultimate abrasion resistance through high content of high modulus fibre in the 32-plait cover braid
- Very stable cross-section
- RunnerTwin withstands high pressure
- Minimised „fusing" of the ropes on winches and sheaves
- The rope for backstay runners and hydraulic/electric winches
- Special manufacture with higher high modulus fibre content available on request

ø in mm	Breaking Load in daN	Weight in kg/ 100 mtr.	PBO	Vectran	Technora
8	4500	4,0			
10	7500	6,5			
12	9500	9,5			
14	12000	13,5			
16	15000	17,5			
18	17500	22,5			
20	21800	28,0			
22	26500	33,0			
24	29000	39,0			
26	31500	42,0			
28	36500	46,0			
30	41000	53,0			
32	47000	60,0			
34	52500	68,0			
36	58500	76,0			



Gleistein Ropes since 1824

MegaTwin **Zylon®**

A world-champion: ultimate break load and minimum elongation for the toughest racing applications.

Construction

- Core 12-plait of 100% Zylon® fibre with Geothane HD coating.
- Cover 32-plait of high tenacity polyester with water repellent coating.
- Gleistein's orange identification yarn.
- Grey with navy blue marker.

Good to know

- Ultimate break load at lowest elongation.
- Excellent abrasion resistance.
- Very stable cross-section.
- Water repellent coating prevents sea water from penetrating the rope. Life expectancy improved through reduced crystallization of salt within the rope.
- PBO ropes have to be inspected and replaced regularly due to the decreasing break load of the fibres.

ø in mm	Breaking Load in daN	Weight in kg/ 100 mtr.
4	1200	1,4
5	1800	2,4
6	2600	3,0
8	4700	5,5
10	7500	8,7
12	10500	11,5
14	14000	16,3
16	18500	20,3

Gleistein Ropes since 1824

Anti Torque-TWIN

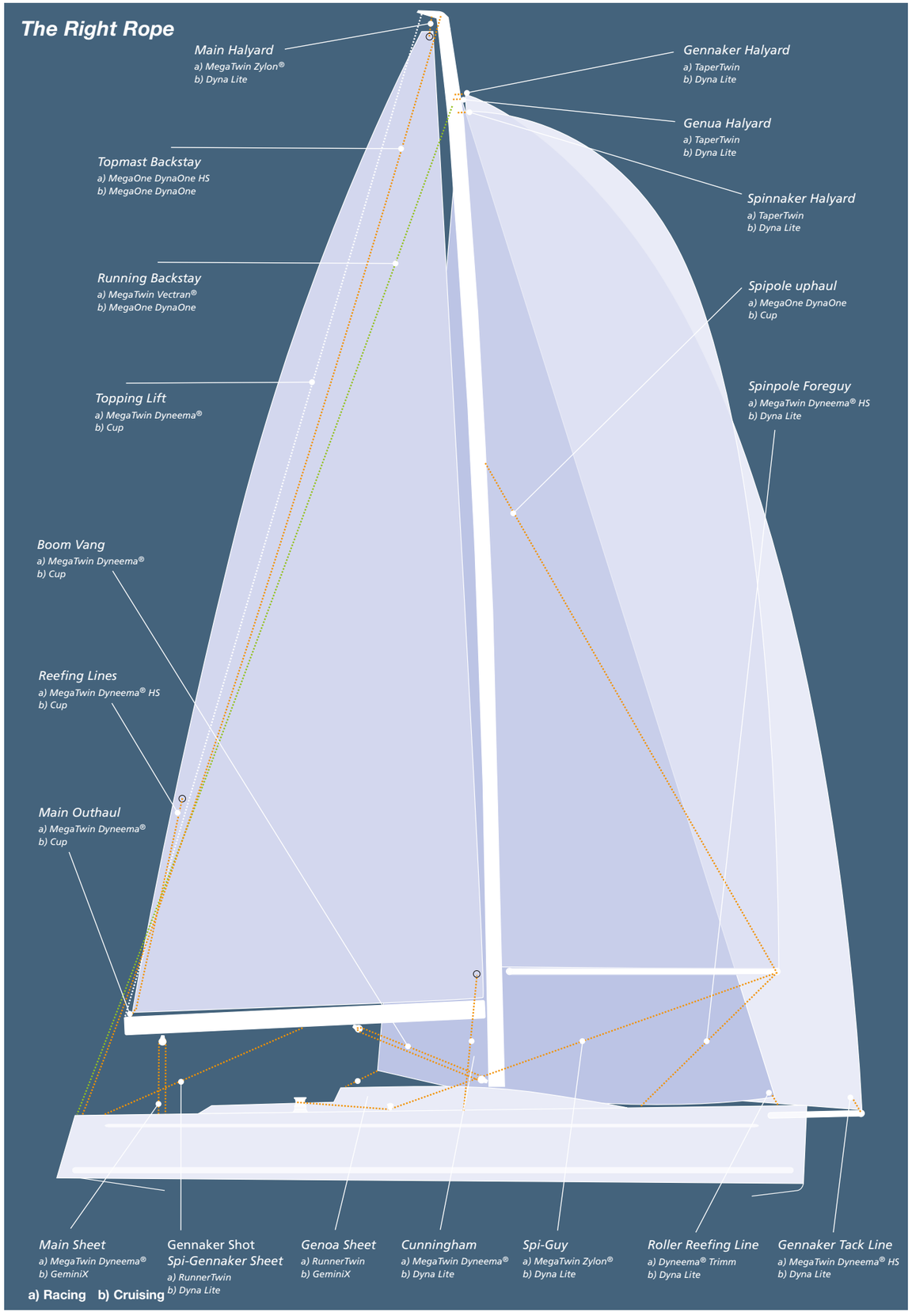
Fibre forestay for furling systems

Construction
- Core 8-strand from Aramid
- Cover 16-plait of silver HT continuous filament polyester yarns with orange marker yarns
- Re-inforcing cover made from special arming fibres

Good to know
- Working elongation < 1%
- Non twisting for efficient transfer of the furling rotation
- High break strength
- Non spliceable
- As endconnection we can offer a special aluminium talurit covered with shrink socket and using a reinforced stainless Blue Wave thimble at the end

ø in mm	Breaking Load in daN	Breaking Load talurited in daN	Reel Length in mm	Weight in kg/ 100 mtr.	Ref. No. Grey
3,5	1000	650	200	2,08	GGAT.T3.5/222
6	2300	1800	200	3,32	GGAT.T0.6/222
8	4300	2350	200	5,15	GGAT.T0.8/222
11	7100	4300	200	10,30	GGAT.T1.1/222

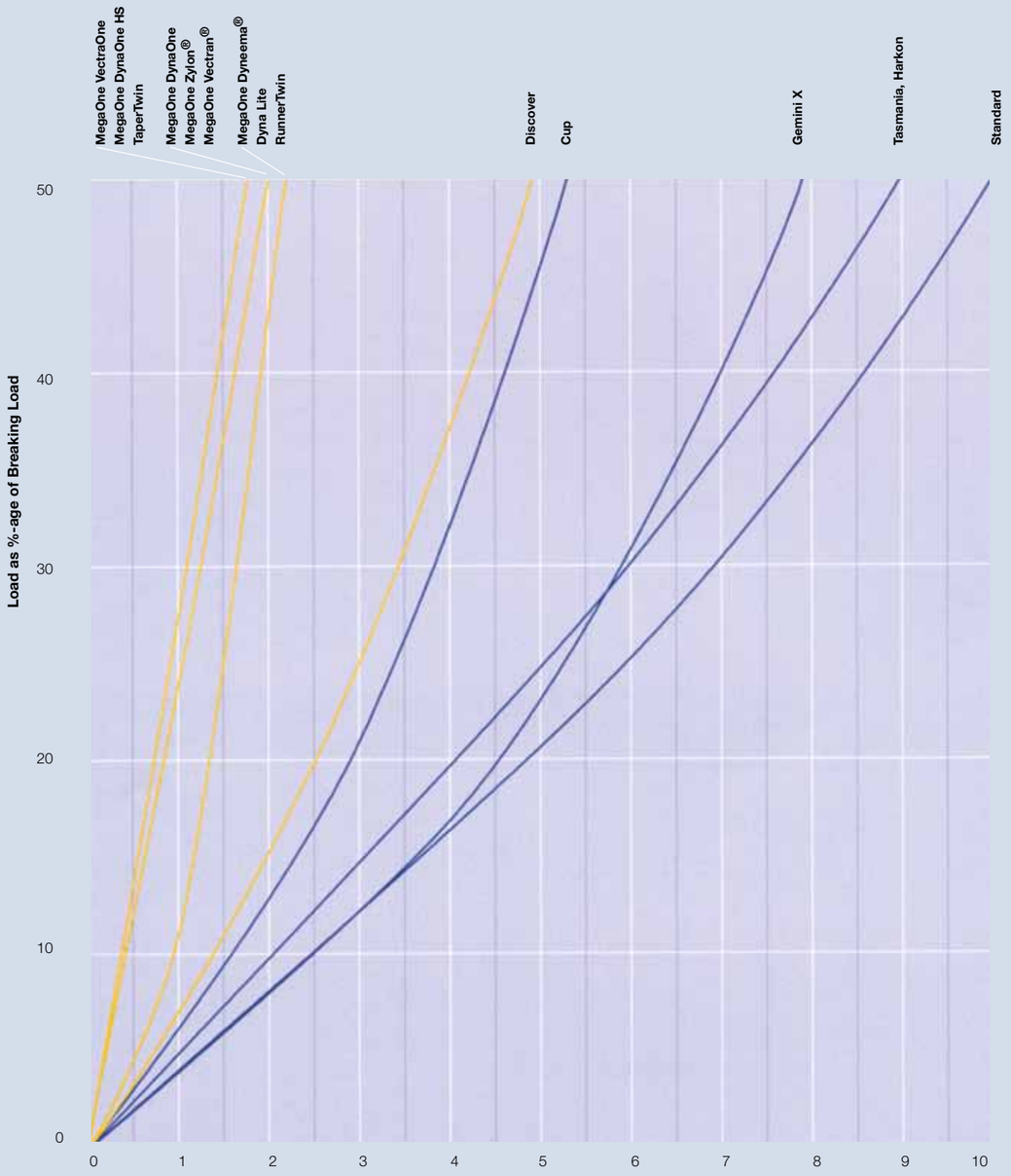
Gleistein Ropes since 1824



Gleistein Ropes since 1824

Tables

Load / Elongation curves of “used” sheets and halyards



„Used“ means after average usage under normal weather conditions and is simulated in the lab with 10 loadings at 20 % of the break load.

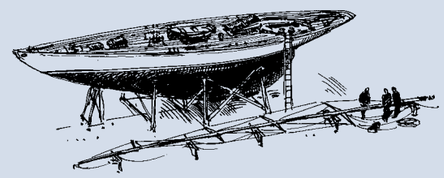
Gleistein Ropes since 1824

Sail Area / Rope diameter Comparison Chart

Rope Type / *Sail Area m²*	*MegaTwin Zylon®*	*RunnerTwin*	*MegaTwin Vectran®*	*MegaTwin Dyneema®*	*MegaTwin Dyneema® HS*	*TaperTwin*	*Dyna Lite*	*VectraOne*	*DynaOne*	*DynaOne HS*	*Discover*	*Cup*
10	4 - 5	4 - 5	4 - 6	4 - 5	3 - 4	4 - 6	6 - 8	4	4 - 5	4	3 - 6	6 - 8
20	4 - 6	5 - 8	6 - 8	5 - 8	4 - 5	6 - 8	8 - 10	4 - 5	4 - 5	4 - 5	5 - 8	8 - 10
30	5 - 8	6 - 10	8 - 10	6 - 10	4 - 6	6 - 10	10 - 12	5 - 6	5 - 8	5 - 6	6 - 10	10 - 14
40	6 - 8	8 - 10	10 - 12	8 - 10	5 - 8	8 - 12	10 - 12	5 - 8	6 - 8	5 - 8	8 - 12	10 - 14
50	8 - 10	10 - 12	10 - 12	10 - 12	6 - 8	8 - 12	12 - 14	6 - 8	8 - 10	6 - 8	8 - 12	12 - 16
60	8 - 10	10 - 12	10 - 14	10 - 12	6 - 8	10 - 12	12 - 14	8 - 10	8 - 10	6 - 8	10 - 12	14 - 18
70	8 - 12	10 - 14	12 - 16	10 - 14	6 - 10	12 - 14	12 - 16	8 - 10	8 - 10	8 - 10		14 - 18
80	8 - 12	12 - 14	12 - 16	12 - 14	8 - 10	12 - 14	14 - 16	8 - 12	10 - 12	8 - 10		16 - 18
90	10 - 12	12 - 16	14 - 16	12 - 16	8 - 12	12 - 16	14 - 16	8 - 12	10 - 12	10 - 12		16 - 18
100	10 - 14	12 - 16	14 - 16	12 - 16	8 - 12	12 - 16	14 - 16	10 - 12	10 - 12	10 - 12		
125	10 - 14	14 - 18	16 - 20	14 - 18	8 - 12	10 - 16		10 - 14	12 - 14	10 - 12		
150	12 - 16	16 - 20	18 - 22	16 - 20	10 - 14	14 - 16		12 - 16	14 - 16	10 - 12		
175		18 - 22	18 - 22	18 - 22	10 - 14	16		12 - 16	14 - 16	12 - 14		
200		18 - 22	20 - 24	18 - 22	12 - 16			12 - 18	16 - 18	12 - 14		
225		20 - 24	20 - 26	20 - 24	12 - 16			14 - 18	16 - 18	14 - 16		
250		22 - 26	22 - 28	22 - 26	14 - 18			14 - 20	16 - 20	14 - 18		

Sail Area / Rope diameter Comparison Chart

Rope Type / *Sail Area m²*	*Gemini X*	*Tasmania*	*Harkon*	*Standard*
10	6 - 8	6 - 8	6 - 8	8 - 10
20	6 - 10	10 - 12	8 - 10	10 - 14
30	10 - 12	10 - 14	12 - 14	12 - 16
40	12 - 16	12 - 16	12 - 16	12 - 16
50	12 - 16	14 - 18	12 - 16	12 - 16
60	14 - 18	14 - 20	14 - 16	12 - 16
70	14 - 18	16 - 20	14 - 16	
80	16 - 20	16 - 20	14 - 16	
90	18 - 22			
100	18 - 22			
125	20 - 24			
150	24 - 28			
175	24 - 32			
200	24 - 32			
225	26 - 36			
250				



Our recommandations originate from of a combination of calculations, comprehensive tests and customer feedback. They should be used as guidelines, as rope sizes can also be determined by personal preferences and the individual technical requirements of a specific application.
Sail surface (in m^2) x wind velocity^2 (in knots) x 0,021 = power (in daN) x 5 = breaking force.

Geopacks

Bavaria mooring line (one end spliced eye 50 cm, other end whipped)

ø in mm	Breaking Load in daN	Length in mtr	Ref. No. Black
10	2000	6	GG11.10.07GP6
12	2900	8	GG11.12.07GP8
12	2900	12	GG11.12.07GP12
14	3550	8	GG11.14.07GP8
14	3550	14	GG11.14.07GP14
16	4750	8	GG11.16.07GP8
16	4750	15	GG11.16.07GP15

Dockline mooring line (one end spliced eye 50 cm, other end whipped)

ø in mm	Breaking Load in daN	Length in mtr	Ref. No. Grey	Navy	Red	Black
12	2900	6	GG11.12.022GP6	GG11.12.03NGP6	GG11.12.044GP6	GG11.12.077GP6
12	2900	9	GG11.12.022GP9	GG11.12.03NGP9	GG11.12.044GP9	GG11.12.077GP9
14	3550	6	GG11.14.022GP6	GG11.14.03NGP6	GG11.14.044GP6	GG11.14.077GP6
14	3550	9	GG11.14.022GP9	GG11.14.03NGP9	GG11.14.044GP9	GG11.14.077GP9
16	4750	6	GG11.16.022GP6	GG11.16.03NGP6	GG11.16.044GP6	GG11.16.077GP6
16	4750	9	GG11.16.022GP9	GG11.16.03NGP9	GG11.16.044GP9	GG11.16.077GP9
18	6100	11	GG11.18.022GP11	GG11.18.03NGP11	GG11.18.044GP11	GG11.18.077GP11

Geotwist Geoprop mooring line (one end spliced eye 50 cm, other end whipped)

ø in mm	Breaking Load in daN	Length in mtr	Min. packing pcs.	Ref. No. White	Navy	Black
10	1530	4,5	8	GG16.10.01GP4	GG16.10.03NGP4	GG16.10.07GP4
10	1530	8	8	GG16.10.01GP8	GG16.10.03NGP8	GG16.10.07GP8
12	2170	6	8	GG16.12.01GP6	GG16.12.03NGP6	GG16.12.07GP6
12	2170	10	8	GG16.12.01GP10	GG16.12.03NGP10	GG16.12.07GP10
14	3000	12	8	GG16.14.01GP12	GG16.14.03NGP12	GG16.14.07GP12

Geotwist Geoprop Fender lines (one end spliced eye, other end whipped)

ø in mm	Breaking Load in daN	Length in mtr	Min. packing pcs.	Ref. No. White	Navy
8	1040	1,70	8	GG16.08.01GP17	GG16.08.03NGP17
10	1530	1,70	8	GG16.10.01GP17	GG16.10.03NGP17

Flag Halyard Polyester 8-plait (white with blue marker)

ø in mm	Breaking Load in daN	Reel Length in mtr	Min. packing pcs.	Ref. No. White/Blue
2	75	80	10	GG190203GP80
3	150	60	10	GG190303GP60
4	250	25	10	GG190403GP25
5	400	25	10	GG190503GP25

■ **Other sizes on request**

Gleistein **Leaded Anchor Warps**

Construction
- Double braid from polyester in white with blue markers.
- Complete with spliced thimble one end.
- 10 Metres with inner core of encapsulated lead.

Good to know
- Flexible for lifetimme with excellent abrasion resistance.
- Very good UV stability.
- A soft and convenient construction, no need to use hard to handle (and noisy) chain forerunners.
- Through the leaded core the anchor can dig itself in properly, hence safer anchoring.
- Environmentally sound as the lead is encapsulated so that no metal can penetrate the environment.
- Complete with spliced eye, hence ready for immediate and convenient use.

ø in mm	Length/ mtr	Breaking Load in daN	Suitable for Boat Length*	Weight in kg	Ref. No.
10	35	1250	up untill 8 mtr	5,0	GG45.10.35
12	40	1800	10	6,5	GG45.12.40
12	50	1800	10	6,9	GG45.12.50
14	40	2650	12	8,0	GG45.14.40
14	50	2650	12	8,5	GG45.14.50
16	40	3200	14	9,5	GG45.16.40
16	50	3200	14	10,0	GG45.16.50

Rope Stands

- Available free standing stand.
- Available wall standing stand.
- Ask for picture and drawing

Tapered Furling Lines

- Furling lines from Dyneema with braided poyester outer cover tapered over 50% of total length.
- Colour white with colour markers.

ø in mm	Length/ mtr	Colour Markers	Furling Line Type	Breaking Load in daN	Ref. No.
5,0 - 10	22	purple	1	1100	GG41.05.10.22
5,0 - 10	28	green	2	1100	GG41.05.10.28
6,0 - 11	34	blue	3	1400	GG41.06.11.34
7,5 - 13	34	blue	3/1	3000	GG41.07.11.34
8,0 - 13	50	red	4	3000	GG41.08.13.50
8,0 - 13	60	black	5	3000	GG41.08.13.60

Gleistein **Rigging Yarn**

Well presented Gleistein rigging yarn is an essential, fast-moving rigging sales item. The practical carton serves for both delivery and storage. The natural tendencies of the raw material are used to increase tension in a seizing by the application of hot water and the subsequent high shrinkage.

Assortment I	**Ref. no.**
White whipping twines in 1,3 and 1,5 mm diameter waxed and unwaxed	GG35.00.01

Assortment II	**Ref. no**
Coloured waxed whipping twines 1 mm ø	GG35.00.00

Gleistein Geothane
Gleistein's water based proprietary polyurethane for rope coating to enhance abrasion and UV-resistance. Very useful for the protection of cores when covers are stripped.

Geolink
Rope shackle made of DynaOne (100% Dyneema® SK75 12-plait) in two versions:

2,5 mm ø	**Ref. no**
break load 700 daN	GG35.00.02
4,0 mm ø	**Ref. no**
break load 3500 daN	GG35.00.03

- ❒ GeoLink will tighten under tension and can be easily opened again when relaxed.
- ❒ Non-metallic end termination with remarkable break load at ultra-low weight.
- ❒ Available in pairs in a GeoPack.

■ **Bigger sizes on request**

Splicebook — **Ref. no** GG36.00.00
The Gleistein Splicebook

An indispensable guide with easy-to-understand instructions for the splicing of Gleistein ropes with many useful tips is the GLEISTEIN SPLICE BOOK. A retail Point-of-Sales aid is also available.

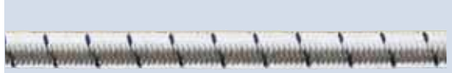
Stainless Steel **Shock Cord Clamps**

for shock cord in mm	Min. packing	**Ref. No.**
3 - 4-5	100	GG27.05.00
6	100	GG27.06.00
8	100	GG27.08.00
9 - 10	100	GG27.10.00
12	100	GG27.12.00

Clamp pliers

for shock cord in mm	**Ref. No.**
3-12	GG27.00.00

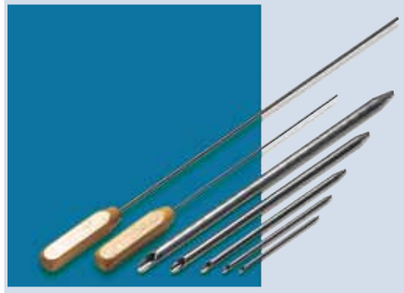
Shock cord



■ Full color shockcord available

ø		**Ref. No.**
3		GG27.03.01
4		GG27.04.01
5		GG27.05.01
6		GG27.06.01
8		GG27.08.01
	10	GG27.10.01
	12	GG27.12.01

Fids

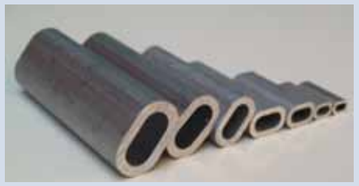


ø	**Ref. No.**
6	GG28.06.00
8	GG28.08.00
10	GG28.10.00
12	GG28.12.00
14	GG28.14.00
16	GG28.16.00
18	GG28.18.00
20	GG28.20.00
22	GG28.22.00
24	GG28.24.00

Pushers

ø	**Ref. No.**
6-14	GG29.06.00
16-24	GG29.22.00

Aluminium Long Sleeves for Anti Torque-Twin



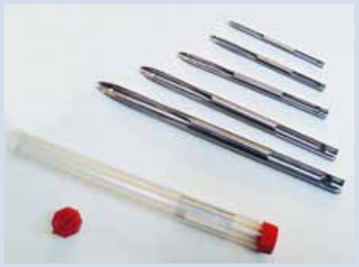
Rope diam in mm	Sleeve Length in mm	Min. Packing	Ref. No.
3,5	26	10	P5000035L
6,0	42	10	P5000060L
8,0	70	10	P5000080L
11,0	98	10	P5000110L

Sandbags

- Black leather Sandbags for heaving lines

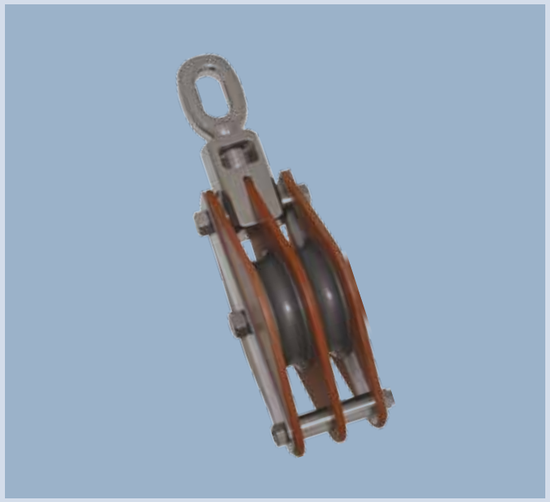
Ref. No.
GGSANDBAG

Splicing Tools



- Selma stainless steel fids
- Per set 5 fids for rope diam: 3-4 / 5-6 / 7-8 / 10 and 12 mm

Ref. No.
GGSELMA



Blaydon blocks

- This general purpose range of integral becket pulley blocks combines light weight and maximum corrosion resistance
- All sizes are of bolted construction and can simple be dismantled for replacement of sheaves etc.
- All proof tested and supplied with test batch ID and full artification
- CE certified and stamped
- Cheeks: tufnol (also available in stainless steel)
- Sheaves: aluminium hard anodised (also available in tufnol or bronze) and wire rope groves
- Bearings: PTFE low friction
- External straps and bolts: Stainless steel AISI 316
- Head swivel: Stainless steel AISI 316
- Available with stainless steel swivel hook with latch
- Safety factor 4:1

Single block with swivel and becket

breaking load in daN	WLL kg	sheave diameter	sheave width	rope diameter	EW	EL	weight in kg	**Ref.-Nr. rope**	wire rope diameter	**Ref. No. wire rope**
4000	1000	83	19	16	17	34	1,06	BBSB04	6	BBSB04WR
6000	1500	95	22	19	20	40	1,90	BBSB06	8	BBSB06WR
12000	3000	121	30	25	28	50	5,70	BBSB12	10	BBSB12WR
14000	3500	144	36	32	30	60	7,67	BBSB14	12	BBSB14WR

Double block with swivel and becket

breaking load in daN	WLL kg	sheave diameter	sheave width	rope diameter	EW	EL	weight in kg	**Ref.-Nr. rope**	wire rope diameter	**Ref. No. wire rope**
4000	1000	83	19	16	17	34	1,50	BBDB04	6	BBDB04WR
6000	1500	95	22	19	20	40	2,40	BBDB06	8	BBDB06WR
12000	3000	121	30	25	28	50	7,80	BBDB12	10	BBDB12WR
14000	3500	144	36	32	30	60	16,50	BBDB14	12	BBDB14WR

Triple block with swivel and becket

breaking load in daN	WLL kg	sheave diameter	sheave width	rope diameter	EW	EL	weight in kg	**Ref.-Nr. rope**	wire rope diameter	**Ref. No. wire rope**
4000	1000	83	19	16	17	34	1,80	BBTB04	6	BBTB04WR
6000	1500	95	22	19	20	40	2,90	BBTB06	8	BBTB06WR
12000	3000	121	30	25	28	50	9,10	BBTB12	10	BBTB12WR
14000	3500	144	36	32	30	60	12,25	BBTB14	12	BBTB14WR

Wire Rope Sheave

Traditional Plastic Laminated Blocks

- cheeks and sheaves of plastic laminate
- strong frame construction of stainless steel AISI 316
- brass bush bearings

ø for Wire Rope in mm	ø Sheave in mm	Sheave thickness in mm	ø Hole in mm	Min. packing	Hye No.	**Ref. No.**
4,0	25	9	6	5	47525	HYE4.75.25
4,0	30	9	6	5	47530	HYE4.75.30
4,0	35	9	6	5	47535	HYE4.75.35
4,0	40	9	6	5	47540	HYE4.75.40
5,0	50	11	8	5	47550	HYE4.75.50
5,0	60	11	8	5	47560	HYE4.75.60
6,5	70	13	10	5	47570	HYE4.75.70
6,5	80	13	10	5	47580	HYE4.75.80
8,0	90	15	10	5	47590	HYE4.75.90
8,0	100	15	10	5	47600	HYE4.76.00

■ **Other sizes on request.**

Single Wire Rope Block With Eye

ø for Wire Rope in mm	ø Sheave in mm	Breaking load in daN	WLL in kg	Hye No.	**Ref. No.**
4	35	1150	230	40004	HYE4.00.04
5	43	1240	240	40005	HYE4.00.05
6	50	2040	400	40006	HYE4.00.06
7	63	2010	400	40007	HYE4.00.07

■ **Safety factor for hoisting and lifting 1:5**

Single Wire Rope Block

ø for Wire Rope in mm	ø Sheave in mm	Breaking load in daN	WLL in kg	Hye No.	**Ref. No.**
4	60	1130	230	40504	HYE4.05.04
5	75	1200	240	40505	HYE4.05.05
6	90	2040	400	40506	HYE4.05.06
8	100	2010	400	40508	HYE4.05.08

■ **Safety factor for hoisting and lifting 1:5**

Wire Rope Sheave Industrial Blocks

		Single Block				**Double Block**			
ø for Wire Rope in mm	ø Sheave in mm	Breaking load in daN	WLL in kg	Hye No. single	**Ref. No.**	Breaking load in daN	WLL in kg	Hye No. double	**Ref. No.**
5	50	4370	875	80005	HYE8.00.05	4430	875	85005	HYE8.50.05
6	63	4210	875	80006	HYE8.00.06	4210	875	85006	HYE8.50.06
8	80	7160	1400	80008	HYE8.00.08	7090	1400	85008	HYE8.50.08
10	100	10750	2150	80010	HYE8.00.10	10750	2150	85010	HYE8.50.10

- solid sheaves of plastic laminate
- brass bushed bearings
- strong construction of stainless steel AISI 316
- extremely heavy duty blocks
- Standard with becket
- without becket on request
  (suffix ref. no. with WB for without becket)
- **Safety factor for hoisting and lifting 1:5**

Traditional Plastic Laminated Rope Blocks

- cheeks and sheaves of plastic laminate
- strong frame construction of stainless steel AISI 316
- brass bushed bearings

Single with bow

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
880	10	30	30010	HYE30010
1120	12	35	30012	HYE30012
1500	13	43	30013	HYE30013
2010	14	50	30014	HYE30014
2210	16	63	30016	HYE30016

Single with eye

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
880	10	30	30510	HYE30510
1110	12	35	30512	HYE30512
1200	13	43	30513	HYE30513
2000	14	50	30514	HYE30514
2190	16	63	30516	HYE30516

Single with swivel

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
810	10	30	31010	HYE31010
1110	12	35	31012	HYE31012
1200	13	43	31013	HYE31013
2050	14	50	31014	HYE31014
2140	16	63	31016	HYE31016

Single with bow and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
820	10	30	31510	HYE31510
1250	12	35	31512	HYE31512
1490	13	43	31513	HYE31513
2210	14	50	31514	HYE31514
2800	16	63	31516	HYE31516

Single with eye and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
820	10	30	32010	HYE32010
1210	12	35	32012	HYE32012
1210	13	43	32013	HYE32013
2020	14	50	32014	HYE32014
2270	16	63	32016	HYE32016

Single with swivel and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
830	10	30	32510	HYE32510
1350	12	35	32512	HYE32512
1210	13	43	32513	HYE32513
2020	14	50	32514	HYE32514
2200	16	63	32516	HYE32516

Double with bow

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
600	10	30	33010	HYE33010
900	12	35	33012	HYE33012
900	13	43	33013	HYE33013
1720	14	50	33014	HYE33014
2000	16	63	33016	HYE33016

Double with swivel

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
630	10	30	33510	HYE33510
960	12	35	33512	HYE33512
990	13	43	33513	HYE33513
1740	14	50	33514	HYE33514
2030	16	63	33516	HYE33516

Double with bow and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
610	10	30	34010	HYE34010
910	12	35	34012	HYE34012
900	13	43	34013	HYE34013
1700	14	50	34014	HYE34014
2040	16	63	34016	HYE34016

Double with swivel and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
630	10	30	34510	HYE34510
970	12	35	34512	HYE34512
1000	13	43	34513	HYE34513
1710	14	50	34514	HYE34514
2010	16	63	34516	HYE34516

Fiddle with bow

breaking load in daN	for rope diameter in mm	sheave diameter in mm primary	sheave diameter in mm secondary	Ref.-Nr. HYE	**Ref. No.**
760	10	42	20	35010	HYE35010
1370	12	48	25	35012	HYE35012
1340	13	59	30	35013	HYE35013

Fiddle with eye

breaking load in daN	for rope diameter in mm	sheave diameter in mm primary	sheave diameter in mm secondary	Ref.-Nr. HYE	**Ref. No.**
710	10	42	20	35510	HYE35510
1200	12	48	25	35512	HYE35512
1210	13	59	30	35513	HYE35513

Fiddle with swivel

breaking load in daN	for rope diameter in mm	sheave diameter in mm primary	sheave diameter in mm secondary	Ref.-Nr. HYE	**Ref. No.**
720	10	42	20	36010	HYE36010
1200	12	48	25	36012	HYE36012
1290	13	59	30	36013	HYE36013

Fiddle with swivel, becket and cleat

breaking load in daN	for rope diameter in mm	sheave diameter in mm primary	sheave diameter in mm secondary	Ref.-Nr. HYE	**Ref. No.**
740	10	42	20	36510	HYE36510
1210	12	48	25	36512	HYE36512
1200	13	59	30	36513	HYE36513

Double with swivel, becket and cleat

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
2170	16	63	37016	HYE37016

Triple with swivel, becket and cleat

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
2110	16	63	37516	HYE37516

Triple with bow

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
820	13	43	38013	HYE38013
4210	16	63	38016	HYE38016

Triple with bow and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
800	13	43	38513	HYE38513
4360	16	63	38516	HYE38516

Triple with swivel

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1910	16	63	39016	HYE39016

Cheek block

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
600	10	30	39510	HYE39510
860	12	35	39512	HYE39512
810	13	43	39513	HYE39513
1500	14	50	39514	HYE39514
1810	16	63	39516	HYE39516

Single with bow/internally bound

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1420	10	60	41010	HYE41010
1810	13	75	41013	HYE41013
4150	16	90	41016	HYE41016
4520	20	100	41020	HYE41020
6310	22	120	41022	HYE41022

Single with bow and becket/internally bound

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1500	10	60	41510	HYE41510
1960	13	75	41513	HYE41513
4210	16	90	41516	HYE41516
4680	20	100	41520	HYE41520
6420	22	120	41522	HYE41522

Double with bow/internally bound

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1910	10	60	42010	HYE42010
2200	13	75	42013	HYE42013
4800	16	90	42016	HYE42016
5170	20	100	42020	HYE42020
6360	22	120	42022	HYE42022

Double with bow and becket/internally bound

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1810	10	60	42510	HYE42510
2010	13	75	42513	HYE42513
4800	16	90	42516	HYE42516
5200	20	100	42520	HYE42520
6420	22	120	42522	HYE42522

Single with swivel/internally bound

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
3690	16	90	43016	HYE43016
4870	20	100	43020	HYE43020
6580	22	120	43022	HYE43022

Single with swivel and becket/internally bound

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
3700	16	90	43516	HYE43516
4830	20	100	43520	HYE43520
6580	22	120	43522	HYE43522

Double with swivel/internally bound

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
4210	16	90	44016	HYE44016
5110	20	100	44020	HYE44020
6600	22	120	44022	HYE44022

Double with swivel and becket/internally bound

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
4210	16	90	44516	HYE44516
5110	20	100	44520	HYE44520
6530	22	120	44522	HYE44522

Cleat

for rope diameter in mm	base in mm	Ref.-Nr. HYE	**Ref. No.**
8-10	76 x 35	45010	HYE45010
12-14	105 x 45	45014	HYE45014

Cleat with bullseye

for rope diameter in mm	base in mm	Ref.-Nr. HYE	**Ref. No.**
8-10	80 x 45	45510	HYE45510

Rope sheave

for rope diameter in mm	sheave diameter in mm	sheave thickness in mm	Min. packing pcs.	Ref.-Nr. HYE	**Ref. No.**
10	25	11	5	47025	HYE47025
10	30	11	5	47030	HYE47030
10	35	11	5	47035	HYE47035
10	40	11	5	47040	HYE47040
12	50	13	5	47050	HYE47050
12	60	13	5	47060	HYE47060
14	70	16	5	47070	HYE47070
14	80	16	5	47080	HYE47080
16	90	18	5	47090	HYE47090
16	100	18	5	47100	HYE47100

other sizes on request

Flagline block

for rope diameter in mm	sheave diameter in mm	Min. packing pcs.	Ref.-Nr. HYE	**Ref. No.**
5	20	5	61188	HYE61188

Standard Rope Blocks

- injection moulded cheeks of black nylon
- solid sheaves of extruded white poly-acetal
- brass bushed bearings
- strong frame construction of stainless steel AISI 316
- designed to use and admire
- serviceability and reliability for general purposes

Single with bow

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
910	10	30	00510	HYE00510
1180	12	35	00512	HYE00512
1560	13	43	00513	HYE00513
2020	14	50	00514	HYE00514
2000	16	63	00516	HYE00516

Single with bow and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
920	10	30	01010	HYE01010
1100	12	35	01012	HYE01012
1530	13	43	01013	HYE01013
2010	14	50	01014	HYE01014
2030	16	63	01016	HYE01016

Single with swivel

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
800	10	30	01510	HYE01510
1190	12	35	01512	HYE01512
1110	13	43	01513	HYE01513
2000	14	50	01514	HYE01514
2030	16	63	01516	HYE01516

Single with swivel and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
900	10	30	02010	HYE02010
1130	12	35	02012	HYE02012
1100	13	43	02013	HYE02013
2010	14	50	02014	HYE02014
2070	16	63	02016	HYE02016

Double with bow

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
910	10	30	02510	HYE02510
1540	12	35	02512	HYE02512
2120	13	43	02513	HYE02513
3160	14	50	02514	HYE02514
3400	16	63	02516	HYE02516

Double with bow and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
910	10	30	03010	HYE03010
1520	12	35	03012	HYE03012
2160	13	43	03013	HYE03013
3120	14	50	03014	HYE03014
3610	16	63	03016	HYE03016

Double with swivel

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
810	10	30	03510	HYE03510
1100	12	35	03512	HYE03512
1330	13	43	03513	HYE03513
2140	14	50	03514	HYE03514
2150	16	63	03516	HYE03516

Double with swivel and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
800	10	30	04010	HYE04010
1420	12	35	04012	HYE04012
1350	13	43	04013	HYE04013
2070	14	50	04014	HYE04014
2180	16	63	04016	HYE04016

Fiddle with bow

breaking load in daN	for rope diameter in mm	sheave diameter in mm primary	sheave diameter in mm secondary	Ref.-Nr. HYE	**Ref. No.**
900	10	42	20	04510	HYE04510
1080	12	48	25	04512	HYE04512
1520	13	59	30	04513	HYE04513

Fiddle with swivel, becket and cleat

breaking load in daN	for rope diameter in mm	sheave diameter in mm primary	sheave diameter in mm secondary	Ref.-Nr. HYE	**Ref. No.**
920	10	42	20	05010	HYE05010
1140	12	48	25	05012	HYE05012
1320	13	59	30	05013	HYE05013

Double with swivel, becket and cleat

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
2160	14	50	05514	HYE05514
2010	16	63	05516	HYE05516

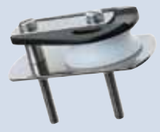
Triple with bow

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
2260	14	50	06014	HYE06014
2480	16	63	06016	HYE06016

Triple with swivel, becket and cleat

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
2140	14	50	06514	HYE06514
2070	16	63	06516	HYE06516

Cheek block



breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1310	10	30	07010	HYE07010
1630	12	35	07012	HYE07012
1550	13	43	07013	HYE07013
3290	14	50	07014	HYE07014
3470	16	63	07016	HYE07016

Single with snap shackle

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1190	13	43	08013	HYE08013
2040	14	50	08014	HYE08014
2000	16	63	08016	HYE08016

Single with snap shackle and becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1110	13	43	08513	HYE08513
2160	14	50	08514	HYE08514
2030	16	63	08516	HYE08516

Fiddle with snap shackle

breaking load in daN	for rope diameter in mm	sheave diameter in mm primary	sheave diameter in mm secondary	Ref.-Nr. HYE	**Ref. No.**
1200	13	59	30	09013	HYE09013

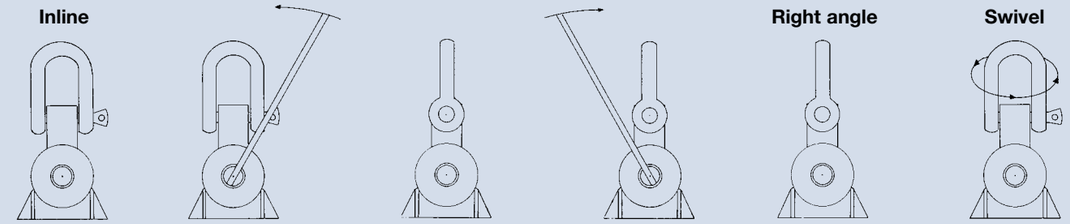
Fiddle with snap shackle, becket and cleat

breaking load in daN	for rope diameter in mm	sheave diameter in mm primary	sheave diameter in mm secondary	Ref.-Nr. HYE	**Ref. No.**
1520	13	59	30	09513	HYE09513

Offshore Rope Blocks

- injection moulded cheeks of black nylon
- solid sheaves of extruded white poly-acetal
- brass bushed bearings
- strong frame construction of stainless steel AISI 316
- unique 3 in 1 head system
- combination of immense strength and today's styling
- permanent serviceability and reliability

Three in one System



Single

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1600	13	43	10013	HYE10013
2820	14	50	10014	HYE10014
4100	16	63	10016	HYE10016
5020	20	80	10020	HYE10020
6980	22	100	10022	HYE10022

Single with becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1610	13	43	11013	HYE11013
2840	14	50	11014	HYE11014
4040	16	63	11016	HYE11016
5020	20	80	11020	HYE11020
7020	22	100	11022	HYE11022

Double

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1630	13	43	12013	HYE12013
2910	14	50	12014	HYE12014
4250	16	63	12016	HYE12016
5480	20	80	12020	HYE12020
7040	22	100	12022	HYE12022

Double with becket

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
1600	13	43	13013	HYE13013
2340	14	50	13014	HYE13014
4010	16	63	13016	HYE13016
5440	20	80	13020	HYE13020
7040	22	100	13022	HYE13022

Double with becket and cleat

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
2860	14	50	14014	HYE14014
4450	16	63	14016	HYE14016

Triple

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
2510	14	50	15014	HYE15014
4500	16	63	15016	HYE15016

Triple with becket and cleat

breaking load in daN	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
2800	14	50	16014	HYE16014
4210	16	63	16016	HYE16016

Swivel deck plate

for blocks for rope diameter in mm	plate diameter in mm	plate thickness in mm	drilled for bolts diameter in mm	Ref.-Nr. HYE	**Ref. No.**
14	80	3	6	18014	HYE18014
16	80	3	6	18016	HYE18016

Industrial Rope Blocks

- solid sheaves of plastic laminate
- brass bushed bearings
- strong frame construction of stainless steel AISI 316
- extremely heavy duty blocks
- also available with wire rope sheaves **see page 57**
- Safety factor for hoisting and lifting 1:5

Single with becket and swivel

breaking load in daN	WLL in kg	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
4370	850	12	50	80012	HYE80012
4210	850	14	63	80014	HYE80014
7160	1400	16	80	80016	HYE80016
10750	2150	18	100	80018	HYE80018

- **Without becket on request.**
- Suffix ref. no. with WB for without becket.

Double with becket and swivel

breaking load in daN	WLL in kg	for rope diameter in mm	sheave diameter in mm	Ref.-Nr. HYE	**Ref. No.**
4430	850	12	50	85012	HYE85012
4210	850	14	63	85014	HYE85014
7090	1400	16	80	85016	HYE85016
10750	2150	18	100	85018	HYE85018

- **Without becket on request.**
- Suffix ref. no. with WB for without becket.

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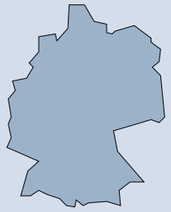

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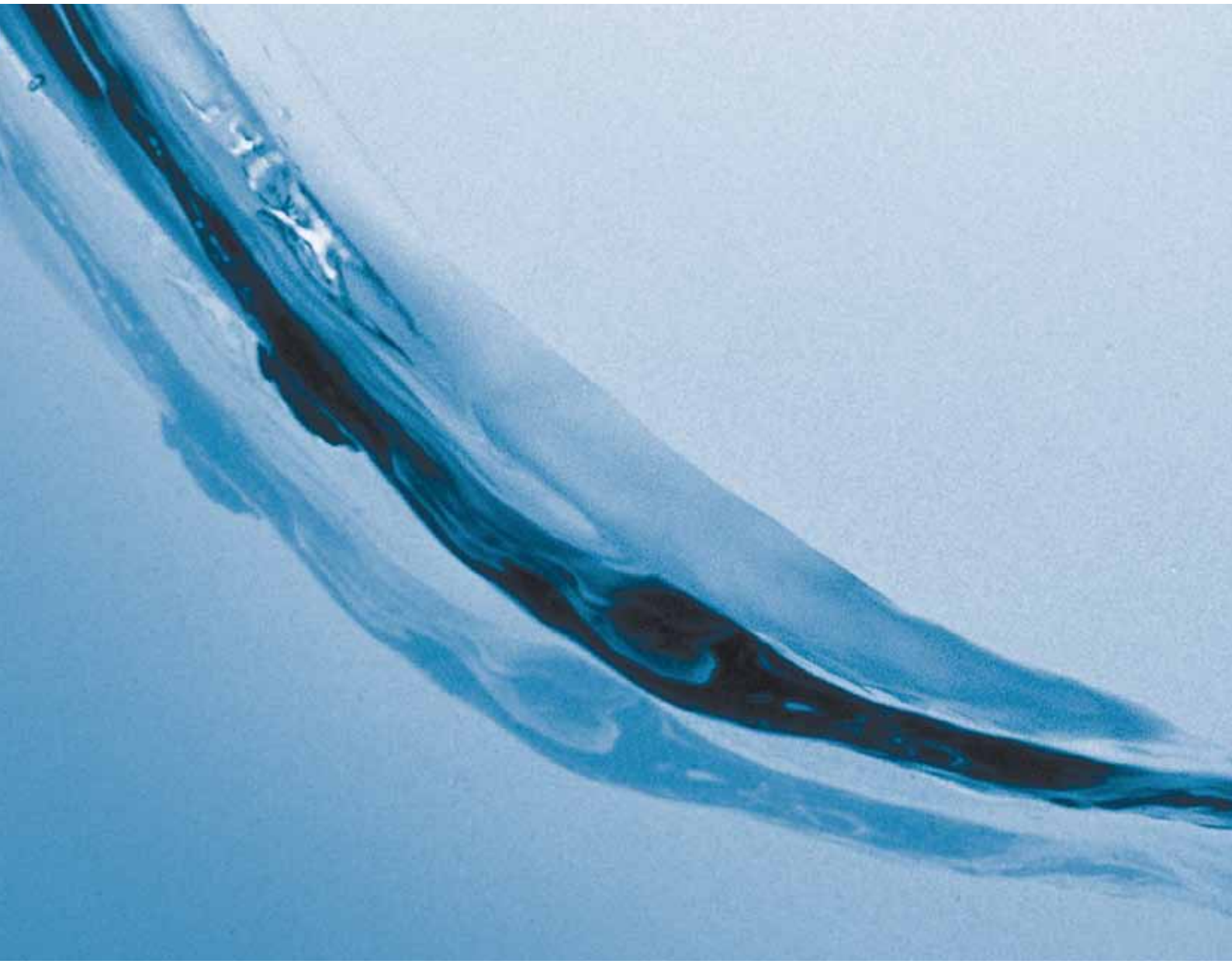

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