



SPARCRAFT RIGGING SP.R

Traceability - Fiability - Performance
Performance - Traçabilité - Fiabilité

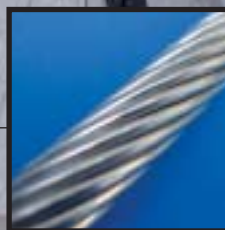
WIRE / CÂBLES

FITTINGS / EMBOUTS

ACCESSORIES / ACCESSOIRES

ROD RIGGING / GRÉEMENT ROD

RUNNING RIGGING / GRÉEMENT COURANT





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SPARCRAFT RIGGING SP.R

STANDING & RUNNING RIGGING GRÉEMENT COURANT & DORMANT



Sparcraft Rigging

assembles and sells quality standing and running riggings.

The selected parts are manufactured with the best alloys from European origin according to reliable and tested machining and forging methods.

The numerous quality controls and a strict traceability placed SP.R to the top of the rigging line.



Traceability

For Sparcraft Rigging, your rigging is exclusive. As soon as it is manufactured, we identify its origin. This traceability is a guarantee of clearness and quality...

Fiability

A series of mechanical and chemical tests guarantees the perfect reliability of the raw materials*.

We use saline mist to test corrosion, traction tests, resistance tests,...



* E.C. Standards 

Performance

Our experience in sailing, both in cruising and racing, our judicious advice and the quality of our service ensure an up market service to our clients.



Sparcraft Rigging

assemble et commercialise des gréements dormants et courants de qualité. Les pièces sélectionnées sont fabriquées dans les meilleurs alliages d'origine européenne et selon des méthodes d'usinage et de forgeage éprouvées et fiables. Les nombreux contrôles et une traçabilité rigoureuse ont permis de hisser SP.R dans le haut de gamme du gréement.

Traçabilité

Pour Sparcraft Rigging, votre gréement est unique. Dès fabrication, nous lui attribuons une identité vous permettant de connaître ses origines. Cette traçabilité est une garantie de transparence et de qualité...



Fiabilité

Une série de tests mécaniques et chimiques vous garantit une fiabilité irréprochable des matières premières utilisées*: tests en brouillard salin (corrosion), essais de traction, tests de résistance,...

* Normes C.E. 

Performance

Notre expérience du nautisme, en croisière comme en régates, la pertinence de nos conseils et la qualité de nos



services assurent à nos clients une prestation haut de gamme.

SUMMARY / SOMMAIRE



WIRE / CÂBLES

P. 5-7

- Wire rope / Câble Monotoron
- Compacted strand cable / Câble Compacted strand
- Rod

FITTINGS / EMBOUTS

P. 9-21

- Eye, stemball, stemball eye, toggle or fork, hook, swage studs,...
- Eye or ball turnbuckles, toggle or fork turnbuckles, thread-turnbuckles,...
- Embouts à œil, à boule, à boule-œil, à chape articulée ou fixe, en T, à canne, filetés,...
- Ridoirs à œil, à boule, à chape fixe ou articulée, à visser,...

ACCESSORIES / ACCESSOIRES

P. 23-33

- Swageless fitting, stemball cup, "T" backing plates, pins, strap toggles, eye jaw toggles, insulators, hydraulic adjusters,...
- Embouts manuels, coupelles, plaques d'ancrage en T, axes, cardans, cavaliers, isolateurs, vérins hydrauliques,...

ROD RIGGING / GRÉEMENT ROD

P. 35-47

- Rod & Fittings
- Rod et embouts

RUNNING RIGGING / GRÉEMENT COURANT

P. 49-56

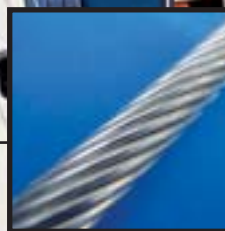
- Halyards, sheets, spinnaker kits
- Drisses, écoutes, kits de spi



WIRE / CÂBLES

STAINLESS STEEL WIRE /
CÂBLES INOX

COATED STAINLESS STEEL WIRE /
CÂBLES GAINÉS





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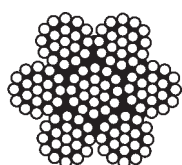
STAINLESS STEEL WIRE CÂBLES INOX



1x19

STAINLESS STEEL WIRE 1x19 / MONOTORON NON GAINÉ

Ref N°	Wire Câble mm	Structure	Weight/100m Poids/100m [kg]	Min. breaking load Rupture [dN]
1000030000	3.0	1x19	4.50	756
1000040000	4.0	1x19	8.00	1340
1000050000	5.0	1x19	12.51	2090
1000060000	6.0	1x19	17.85	3010
1000070000	7.0	1x19	24.25	4090
1000080000	8.0	1x19	31.70	5340
1000100000	10.0	1x19	49.55	7810
1000120000	12.0	1x19	71.30	11250
1000127000	12.7	1x19	81.00	12500
1000140000	14.0	1x19	97.10	14250
1000160000	16.0	1x19	127.00	18100
1000190000	19.0	1x19	179.00	26000
1000220000	22.0	1x19	240	34800



7x19

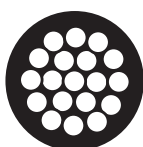
STAINLESS STEEL WIRE 7x19 / CÂBLE EXTRA SOUPLE

Ref N°	Wire Câble mm	Structure	Weight/100m Poids/100m [kg]	Min. breaking load Rupture [dN]
1020030000	3.0	7x19	3.42	571
1020040000	4.0	7x19	6.09	890
1020050000	5.0	7x19	9.52	1370
1020060000	6.0	7x19	13.80	1970
1020070000	7.0	7x19	18.70	2820
1020080000	8.0	7x19	24.40	3570
1020100000	10.0	7x19	38.10	5600
1020120000	12.0	7x19	54.8	7610



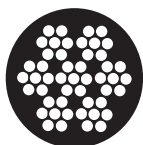
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COATED STAINLESS STEEL WIRE CÂBLES GAINÉS


1x19

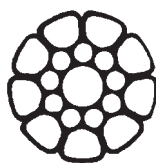
COATED S.S. WIRE 1x19 / MONOTORON GAINÉ

Ref N°	Wire Câble mm	Structure	Color Couleur	Weight/100m Poids/100m [kg]	Min. breaking load Rupture [dN]
1010030050	3,0 - 5,0	1x19	Blanc	4,5	756
1010040060	4,0 - 6,0	1x19	Blanc	8	1350
1010050070	5,0 - 7,0	1x19	Blanc	12,50	2100
1010050075	5,0 - 7,0	1x19	Gris	15	2100
1010060080	6,0 - 8,0	1x19	Blanc	20,6	3050


7x19

COATED S.S. WIRE 7x7 / SOUPLE GAINÉ

Ref N°	Wire Câble mm	Structure	Color Couleur	Weight/100m Poids/100m [kg]	Min. breaking load Rupture [dN]
1030030050	3,0 - 5,0	7x7	Blanc	3,5	535
1030040060	4,0 - 6,0	7x7	Blanc	6,3	997
1030050070	5,0 - 7,0	7x7	Blanc	9,85	1500
1030060080	6,0 - 8,0	7x7	Blanc	17,6	2050


1x19

COMPACTED STRAND 1x19

Ref N°	Wire Câble mm	Structure	Weight/100m Poids/100m [kg]	Min. breaking load Rupture [dN]
2000040000	4	1x19	9,6	1670
2000050000	5	1x19	14,3	2520
2000060000	6	1x19	20,8	3640
2000070000	7	1x19	28,2	4950
2000080000	8	1x19	36,3	6320
2000100000	10	1x19	57	9500
2000120000	12	1x19	82,5	13800
2000140000	14	1x25	115,9	19800

FITTINGS / EMBOUTS

Eye / Œil

Toggle / Chape

**Swage thread /
Embout fileté**

**T terminal /
Embout en T**

**Ball terminal /
Embout à boule**

**Hook terminal /
Embout à canne**

**Removable eye /
Œil démontable**

**Turnbuckle /
Ridoir**

Body / Cage

Lifeline / Filière

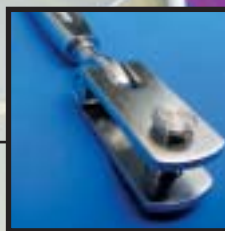
**Fork terminal /
Chape fixe**

**Rigging screw fork terminal /
Ridoir à chape fixe**

Lifeline terminal / Œil large

Lifeline hook / Croc filière

Pelican hook / Croc pélican



FITTINGS / EMBOUTS

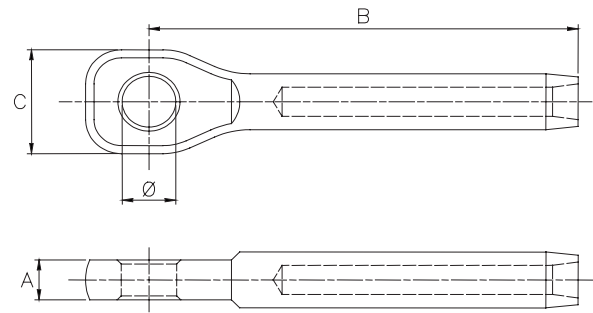


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EYE TERMINAL

EMBOUT À ŒIL À SERTIR



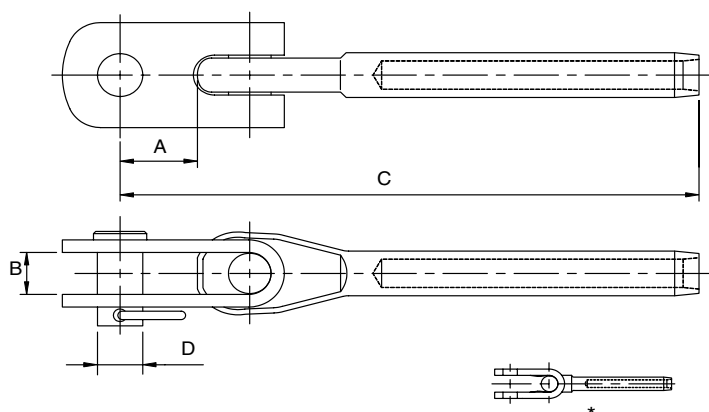
Ref N°	Wire Ø Câble Ø mm	Pin Ø Axe Ø inch	Ø mm	A mm	B mm	C mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1100030070	3.0	1/4"	6.4	5	57.0	13.5	14	1250
1100040090	4.0	5/16"	8.1	6	64.0	16.0	24	1600
1100050100	5.0	3/8"	9.6	8	76.0	19.5	42	2300
1100050110	5.0	-	10.5	8	76.0	19.5	42	2300
1100060110	6.0	7/16"	11.1	10	89.0	24.5	92	5100
1100060130	6.0	1/2"	12.8	10	89.0	24.5	92	5100
1100070130	7.0	1/2"	12.8	10	103.0	27.0	116	6150
1100080130	8.0	1/2"	12.8	10	110.0	29.0	175	7500
1100080160	8.0	5/8"	16.2	13	117.5	30.5	192	7500
1100100160	10.0	5/8"	16.2	14	135.0	33.5	245	9600
1100100190	10.0	3/4"	19.2	16	152.5	38.0	304	9600
1100120190	12.0	3/4"	19.2	18	157.0	40.0	540	11000
1100120220	12.0	7/8"	22.2	19	180.0	45.0	550	13100
1100127190	12.7	3/4"	19.2	18	173.0	40.0	550	13100
1100127220	12.7	7/8"	22.2	19	187.0	45.0	550	13100
1100140220	14.0	7/8"	22.2	19	193.0	46.5	685	16550
1100160260	14.0	1"	25.6	21	196.0	53.0	1090	21350
1100160260	16.0	1"	25.6	21	210.0	55.0	1090	21350
1100190290	19.0	1 1/8"	28.7	25	277.0	58.5	1760	30000
1100220320	22.0	1 1/4"	32.0	29	277.0	61.0	2220	43000

FITTINGS / EMBOUTS



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SWAGE TOGGLE FORK EMBOUT À CHAPE ARTICULÉE À SERTIR



Ref N°	Wire Ø Câble Ø mm	D mm	A mm	B mm	C mm	Poids Weight [g]	Min. breaking load Rupture [kg]
1120030060	3.0	6.3	14.0	8.0	73.0	39	1250
1120040080	4.0	8.0	26.0	10.5	99.0	83	1600
1120050100	5.0	9.5	29.0	10.5	114.5	161	2300
1120060110	6.0	11.0	31.5	14.0	135.0	165	3350
1120060130	6.0	12.7	36.0	15.5	142.5	305	5200
1120070130	7.0	12.7	37.0	15.5	155.0	330	6150
1120080130	8.0	12.7	35.0	15.5	160.0	579	7800
1120080160	8.0	16.0	35.0	18.0	167.0	675	8550
1120100160	10.0	16.0	44.0	18.0	203.0	666	9600
1120120190	12.0	19.0	50.0	22.0	239.0	1000	11000
1120127190	12.7	19.0	50.0	22.0	255.0	1350	13100
1120127220	12.7	22.0	65.0	23.0	257.0	1438	13100
1120140220	14.0	22.0	63.0	24.0	280.0	1600	18200
1120160250	16.0	25.4	63.0	27.5	323.0	2342	22600
1120190270	19.0	28.5	80.0	30.0	367.0	3440	30150
1120220320	22.0	31.8	83.0	35.0	370.0	4950	35250

FITTINGS / EMBOUTS



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SWAGE STUD EMBOUT FILETÉ À SERTIR



Ref N° Right Thread Fileté droit	Wire Ø Câble Ø mm	Thread metric Filetage métrique	A mm	B mm	Poids Weight [g]	Min. breaking load Rupture [kg]
1240030060	3.0	M6	48	98	18	1250
1240040080	4.0	M8	55	112	31	1600
1240050080	5.0	M8	55	120	38	1600
1240050100	5.0	M10	63	128	54	2300
1240060100	6.0	M10	63	146	95	3600

Other dimensions and thread: contact us / Autres dimensions et filetages : nous contacter.

Ref N° Right Thread Fileté droit	Wire Ø Câble Ø mm	Thread Filetage UNF	A mm	B mm	Poids Weight [g]	Min. breaking load Rupture [kg]
1210030060	3.0	1/4"	48	98	18	1250
1210040080	4.0	5/16"	55	112	30	1600
1210050080	5.0	5/16"	55	120	39	2350
1210050100	5.0	3/8"	63	128	53	2300
1210060110	6.0	7/16"	71	151	112	4750
1210060130	6.0	1/2"	80	165	132	5100
1210070130	7.0	1/2"	80	171	151	6400
1210080130	8.0	1/2"	80	191	198	6400
1210080160	8.0	5/8"	101	199	262	8580
1210100160	10.0	5/8"	101	233	316	9600
1210120190	12.0	3/4"	120	277	486	11000
1210127220	12.7	3/4"	140	295	675	11000
1210140220	14.0	7/8"	140	328	920	18200
1210160250	16.0	1"	160	372	1092	22600

Other dimensions and thread: contact us / Autres dimensions et filetages : nous contacter.

FITTINGS / EMBOUTS

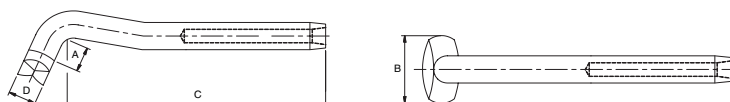


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SWAGE T

EMBOUT EN T À SERTIR

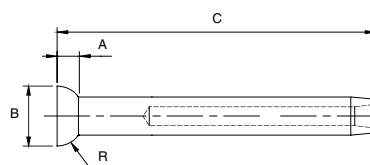


Ref N°	Wire Ø Câble Ø mm	A mm	B mm	C mm	D mm	Weight Poids [g]	Working load Charge travail [kg]	Min. breaking load Rupture [kg]
1140030000	3.0	7.5	17.0	67.5	6.35	21	700	1250
1140040000	4.0	8.0	17.5	88.0	7.50	38	900	1600
1140050000	5.0	8.0	20.5	99.0	9.00	55	1300	2300
1140060000	6.0	11.0	31.5	127.0	12.70	157	3000	5200
1140070000	7.0	15.0	32.5	137.0	14.00	210	3550	6150
1140080000	8.0	15.0	34.5	172.0	16.00	309	4300	7500
1140100000	10.0	12.5	39.0	184.0	18.00	407	4900	9600



SWAGE STEMBALL

EMBOUT À BOULE À SERTIR

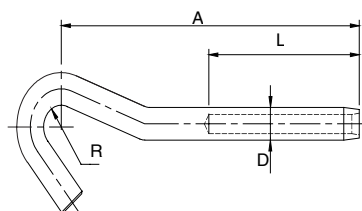


Ref N°	Wire Ø Câble Ø mm	A mm	B mm	C mm	R mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1110030140	3	4.5	14.0	48.0	7.0	11	1250
1110040160	4	6.0	16.0	70.0	7.0	23	1600
1110050190	5	6.0	19.0	81.5	7.0	38	2300
1110050210	5	6.0	21.0	82.0	8.0	45	2300
1110060200	6	6.0	20.0	90.0	7.0	79	5200
1110070220	7	7.0	22.0	94.0	10.5	99	6150
1110080280	8	9.0	27.5	105.0	10.5	150	7500
1110100280	10	10.0	27.5	149.0	10.5	237	9600
1110120270	12	9.0	27.0	180.0	14.5	321	11000
1110120290	12	9.7	29.0	170.0	15.0	317	11500

FITTINGS / EMBOUTS



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HOOK TERMINAL EMBOUT À CANNE À SERTIR

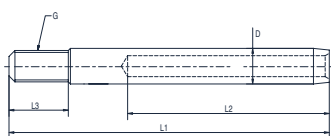
Ref N°	Wire Ø Câble Ø mm	D mm	L mm	A mm	R mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1150030000	3.0	6.35	32	57.5	4	19	1250
1150040000	4.0	7.50	45	75.5	6	33	1600
1150050000	5.0	9.00	51	101.0	6	63	2300



REMOVABLE EYE (1 + 2) ŒIL DÉMONTABLE (1 + 2)



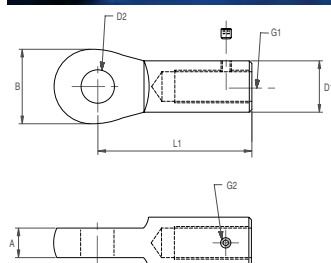
SHORT THREADED TERMINAL / ESF COURT (1)



Ref N°	G mm	Wire Ø Câble Ø mm	L1 mm	L2 mm	L3 mm	D mm	Min. breaking load Rupture [kg]
1212050080	5/16"	5.0	81.0	51.0	15.0	9.00	2350
1212050100	3/8"	5.0	82.0	51.0	20.0	9.00	3500
1212060110	7/16"	6.0	104.0	64.0	30.0	12.58	4700
1212060130	1/2"	6.0	104.0	64.0	30.0	12.58	5400
1212070130	1/2"	7.0	115.0	70.0	30.0	14.20	5400
1212080130	1/2"	8.0	123.0	83.0	30.0	16.00	5400
1212100160	5/8"	10.0	155.0	89.0	40.0	17.80	8000
1212120190	3/4"	12.0	185.0	120.0	50.0	20.00	13000
1212127190	3/4"	1/2"	185.0	120.0	50.0	21.40	13000



THREADED EYE / ŒIL TARAUDÉ (2)



Ref N°	G1 mm	G2 mm	L1 mm	A mm	B mm	D1 mm	D2 mm	Min. breaking load Rupture [kg]
1106080080	5/16"	M4	39.5	6.5	21.7	14.0	8.5	2350
1106095100	3/8"	M4	41.0	9.0	21.0	15.0	9.8	3500
1106110110	7/16"	M4	58.0	10.0	24.0	18.0	11.2	4700
1106127130	1/2"	M4	60.0	11.5	29.0	20.0	13.0	5400
1106160160	5/8"	M6	88.0	14.0	35.0	28.0	16.5	10000
1106190200	3/4"	M6	99.0	18.0	40.0	30.0	19.5	13000

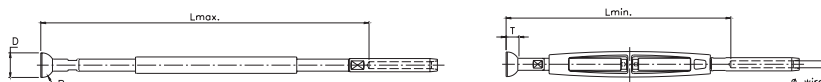
FITTINGS / EMBOUTS



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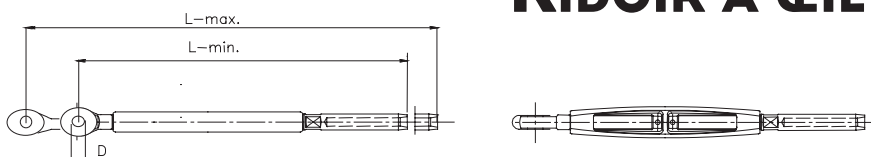
STEMBALL TURNBUCKLE RIDOIR À BOULE À SERTIR



Ref N°	Wire Ø Câble Ø mm	Thread Filetage UNF	D mm	R mm	T mm	Lmin. mm	Lmax. mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1311030000	3	1/4"	14.5	7.3	6.6	167	200	75	1250
1311040000	4	5/16"	19.0	7.0	6.7	202	245	134	1600
1311050000	5	3/8"	19.0	7.0	6.7	228	284	206	2300
1311060200	6	7/16"	20.0	7.0	6.7	240	300	342	4750
1311060000	6	1/2"	26.0	12.0	12.0	280	334	482	5100
1311070000	7	1/2"	26.0	12.0	12.0	288	336	500	6400
1311080000	8	1/2"	26.0	12.0	12.0	308	336	546	6400
1311100000	10	5/8"	27.0	13.5	14.0	383	441	914	9430
1311200000	12	3/4"	27.5	13.7	14.0	450	496	1494	11000



EYE TURNBUCKLE RIDOIR À ŒIL



Ref N°	Wire Ø Câble Ø mm	Thread Filetage UNF	D mm	Lmin. mm	Lmax. mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1310030060	3	1/4"	6.40	165	231	72	1250
1310040080	4	5/16"	8.10	198	272	124	1600
1310050100	5	3/8"	9.60	225	308	218	2300
1310060110	6	7/16"	11.20	275	370	340	4650
1310060130	6	1/2"	12.80	283	385	458	5150
1310070130	7	1/2"	12.85	288	390	476	5900
1310080130	8	1/2"	12.85	310	415	530	5900
1310100160	10	5/8"	16.10	380	515	882	9000
1310120190	12	3/4"	19.20	450	615	1578	11000
1310127190	12.7	3/4"	19.20	460	625	1610	11000
1310140220	14	7/8"	22.70	512	708	2504	18200
1310160250	16	1"	25.70	540	734	3372	22600

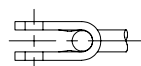
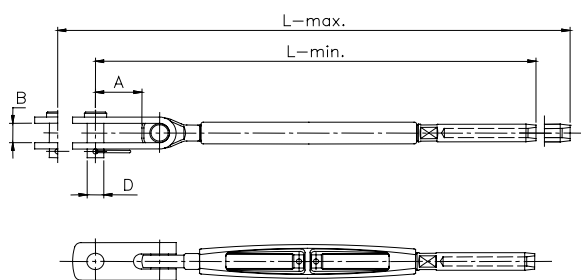
FITTINGS / EMBOUTS



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TOGGLE TURNBUCKLE RIDOIR À CHAPE ARTICULÉE À SERTIR



Marked toggle / Axe serti

Ref N°	Wire Ø Câble Ø mm	Thread Filetage UNF	D mm	A mm	B mm	Lmin. mm	Lmax. mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1312030060	3	1/4"	6.3	14.0	8.0	176	246	96	1250
1312040080	4	5/16"	8.0	26.0	10.5	227	308	186	1600
1312050080	5	5/16"	8.0	26.0	10.5	235	320	241	2350
1312050100	5	3/8"	9.5	29.0	12.0	262	346	326	2300
1312060110	6	7/16"	11.0	31.5	14.0	300	408	426	4750
1312060130	6	1/2"	12.7	33.5	15.5	331	436	668	5150
1312070130	7	1/2"	12.7	35.5	15.5	339	450	682	5900
1312080120	8	1/2"	12.7	35.5	15.5	362	469	742	5900
1312080160	8	5/8"	16.0	44.0	18.0	393	544	1354	8580
1312100160	10	5/8"	16.0	44.0	18.0	431	570	1513	9000
1312100190	10	3/4"	19.0	50.0	22.0	465	646	2109	9430
1312120190	12	3/4"	19.0	50.0	22.0	505	670	2140	11000
1312127190	12.7	3/4"	19.0	50.0	22.0	490	655	2078	13250
1312127220	12.7	3/4"	22.0	60.0	24.0	506	664	2455	13250
1312140220	14	7/8"	22.0	65.0	24.0	600	790	4000	16550
1312160250	16	1"	25.4	64.0	27.0	630	820	6400	22600
1312190290	19	1" 1/48	28.5	80.0	31.0	750	950	8100	30150
1312220320	22	1" 1/4	32.0	83.0	36.0	800	1000	10100	35250
1312260380	25.4	1" 1/2	38.0	95.0	42.0	890	1090	14700	49000

* Other dimension: contact us / Autres dimensions : nous contacter.

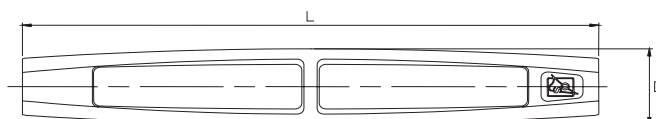
FITTINGS / EMBOUTS



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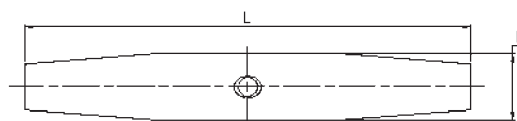
OPEN CHROME-BRONZE BODY CAGE OUVERTE BRONZE-CHROME



Ref N°	Thread Filetage UNF	D mm	L mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1963006000	1/4"	14	102	38	2300
1963008000	5/16"	17	116	60	3400
1963010000	3/8"	21	134	104	4200
1963011000	7/16"	24	147	145	5600
1963013000	1/2"	27	167	208	7500
1963016000	5/8"	32	210	332	10200
1963020000	3/4"	38	250	610	13250
1963022000	7/8"	45.3	290	1010	19300
1963025000	1"	50	301	1326	25150



CLOSED BODY / CAGE FERMÉE



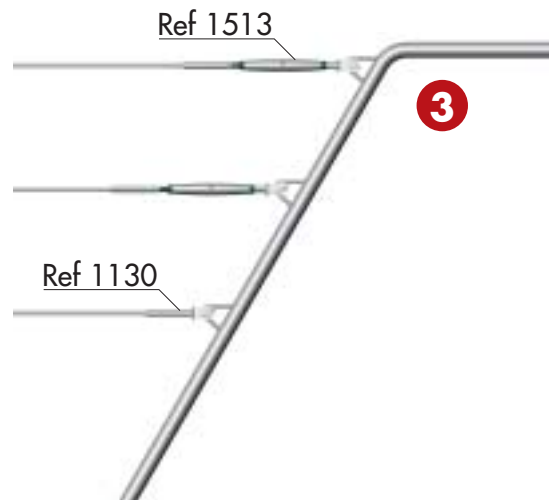
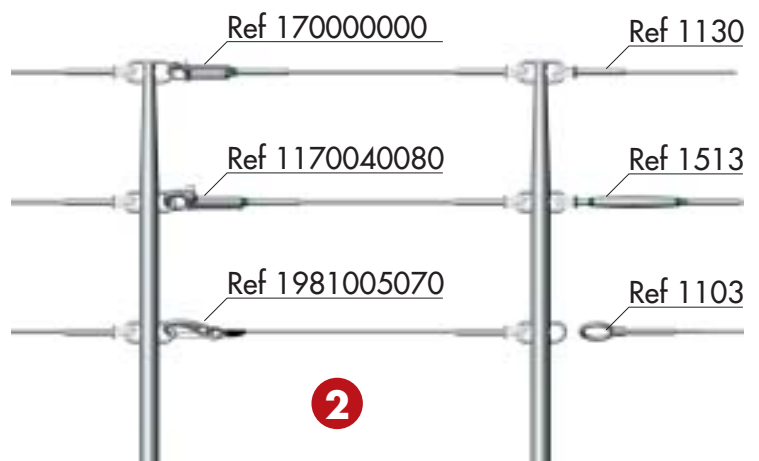
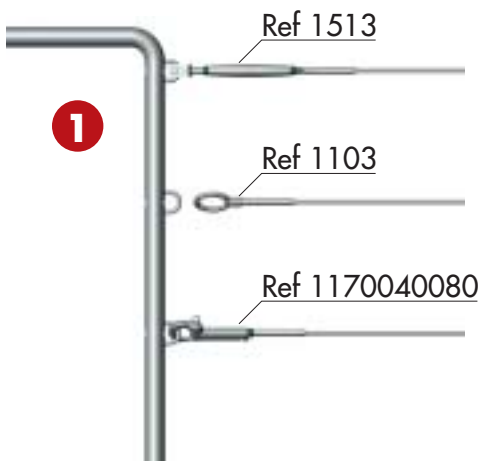
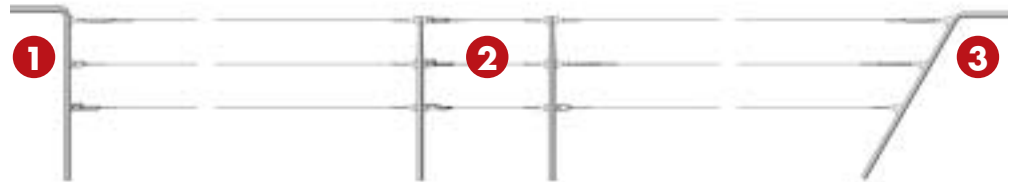
Ref N°	Thread Filetage UNF	D mm	L mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1964006000	1/4"	12.0	90	30	1800
1964008000	5/16"	13.5	100	50	2550
1964010000	3/8"	17.0	115	90	4150
1964011000	7/16"	21.0	130	140	6000
1964013000	1/2"	21.0	145	160	6000
1964016000	5/8"	27.0	180	250	8300
1964020000	3/4"	33.5	215	515	13400
1964022000	7/8"	39.0	290	1404	19900
1964025000	1"	49.0	320	2483	32000

FITTINGS / EMBOUTS



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LIFELINES / FILIÈRES



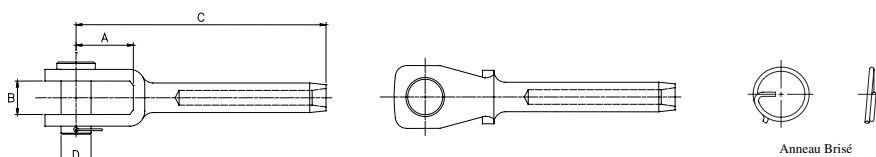
FITTINGS / EMBOUTS



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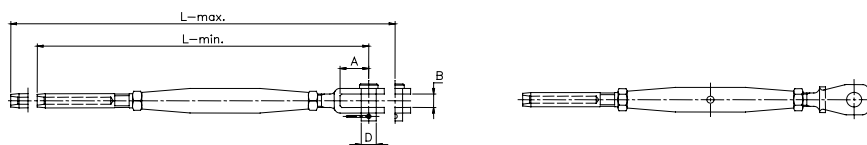
SWAGE FORK CHAPE FIXE À SERTIR



Ref N°	Wire Ø Câble Ø mm	D mm	A mm	B mm	C mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1130030060	3.0	6.3	13.0	7.0	66.5	28	1250
1130040060	4.0	6.3	13.0	7.0	73.5	32	1600
1130040080	4.0	8.0	17.0	8.0	75.5	50	1600
1130050080	5.0	8.0	17.0	8.0	85.0	58	2300
1130050100	5.0	9.5	19.0	10.0	87.5	76	2300
1130060110	6.0	11.0	24.0	12.0	100.0	150	5000
1130060130	6.0	12.7	24.5	14.5	109.0	176	5200
1130070130	7.0	12.7	25.0	14.5	116.0	193	6150
1130080130	8.0	12.7	32.5	17.0	133.0	294	7500



CLOSED BODY RIGGING SCREW RIDOIR À CHAPE FIXE À SERTIR



Ref N°	Wire Ø Câble Ø mm	Thread Filetage UNF	D mm	A mm	B mm	Lmin. mm	Lmax. mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1513030060	3.0	1/4"	6.3	13.0	7.0	171	232	80	1250
1513040060	4.0	1/4"	6.3	13.0	7.0	178	239	83	1500
1513040080	4.0	5/16"	8.0	17.0	9.0	197	265	138	1600
1513050080	5.0	5/16"	8.0	17.0	9.0	207	273	150	2300
1513050100	5.0	3/8"	9.5	19.0	10.0	229	304	234	2300
1513060110	6.0	7/16"	11.0	24.0	12.0	269	353	408	4800
1513060130	6.0	1/2"	12.7	25	14.5	291	393	500	4800
1513070130	7.0	1/2"	12.7	25.0	14.5	299	400	520	6000
1513080130	8.0	5/8"	12.7	32.0	16.0	367	495	888	6300

FITTINGS / EMBOUTS

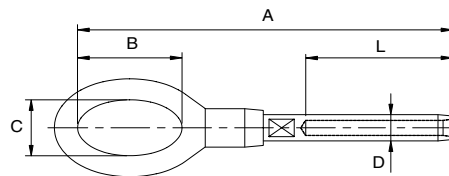


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LIFELINE SINGLE EYE

ŒIL À VISSER À SERTIR

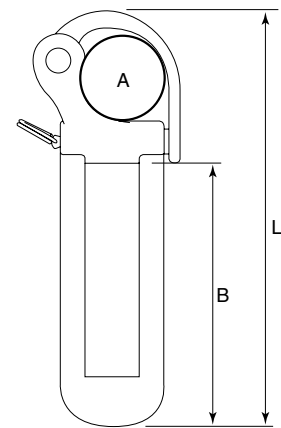


Ref N°	Wire Ø Câble Ø mm	D mm	L mm	A mm	B mm	C mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1103030000	3.0	6.35	32	93.5	27	16	38	1250
1103040000	4.0	7.5	38	97.0	27	16	42	1600
1103050000	5.0	9.0	45	108.0	27	16	50	2200

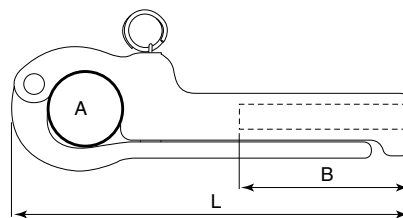


LIFELINE HOOK

CROC FILIÈRE



Ref N°	Long mm	A mm	B mm	C mm	Min. breaking load Rupture [N]
1170000000	95	16	48	M8 x 125	1500



PELICAN HOOK

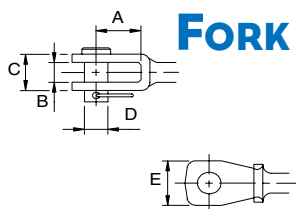
CROC PÉLICAN

Ref N°	Long mm	A mm	B mm	C mm	Tension mm	Min. breaking load Rupture [N]
1170040080	100	16	48	M8 x 125	22	2800

FITTINGS / EMBOUTS

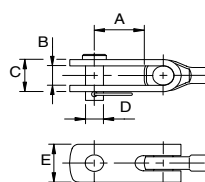


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FORK SPECIFICATION DIMENSIONS CHAPE FIXE

D mm	A mm	B mm	C mm	E mm
5.00	11.5	7.0	13.0	12.0
6.35 - 1/4"	13.0	7.0	13.0	14.0
8.00 - 5/16"	17.0	8.0	16.5	18.0
9.50 - 3/8"	19.0	10.0	18.0	21.0
11.00 - 7/16"	24.0	12.0	22.0	24.0
12.70 - 1/2"	25.0	14.5	24.5	27.0
12.70 - 1/2"	32.5	17.0	29.0	29.0
16.00 - 5/8"	35.0	17.0	29.0	32.0
16.00 - 5/8"	39.5	20.0	36.0	36.0
19.00 - 3/4"	45.0	20.0	36.0	40.0
22.00 - 7/8"	54.0	24.0	44.0	45.0
25.00 - 1"	66.0	26.0	50.0	50.0

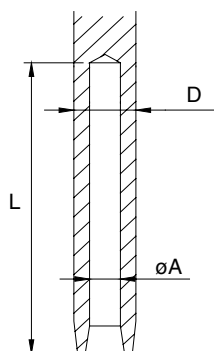


TOGGLE FORK SPECIFICATION DIMENSIONS CHAPE ARTICULÉE

D mm	A mm	B mm	C mm	E mm
6.35 - 1/4"	14.0	8.0	14.0	15.0
8.00 - 5/16"	26.0	10.5	16.5	20.0
9.50 - 3/8"	29.0	13.0	21.0	25.0
11.00 - 7/16"	31.5	14.0	24.0	25.0
12.70 - 1/2"	35.5	15.5	25.5	30.0
16.00 - 5/8"	44.0	18.0	30.0	40.0
19.00 - 3/4"	50.0	22.0	34.0	50.0
22.00 - 7/8"	65.0	24.0	36.0	60.0
25.00 - 1"	64.0	27.5	43.5	60.0

SWAGING DATA FOR WIRE

TABLEAU NORMES DE SERTISSAGE EMBOUTS



Wire Ø Câble Ø mm	A mm	L mm	D before swaging D avant sertissage mm	D after swaging D après sertissage mm
2.5	2.7 - 2.83	31.0 - 33.0	6.24 - 6.35	5.44 - 5.56
3.0	3.3 - 3.43	37.0 - 39.0	6.24 - 6.35	5.44 - 5.56
4.0	4.3 - 4.43	44.0 - 46.0	7.39 - 7.50	6.22 - 6.35
5.0	5.3 - 5.43	50.0 - 52.0	8.89 - 9.00	7.82 - 7.95
6.0	6.3 - 6.53	63.0 - 65.0	12.55 - 12.70	11.13 - 11.30
7.0	7.3 - 7.50	69.0 - 71.0	13.85 - 14.00	12.26 - 12.46
8.0	8.3 - 8.50	89.0 - 91.0	15.85 - 16.00	14.10 - 14.30
10.0	10.4 - 10.6	109.0 - 111.0	17.95 - 18.00	15.82 - 16.02
12.0	12.4 - 12.6	133.5 - 136.5	19.95 - 20.10	17.37 - 17.60
12HD	12.3 - 12.5	118.5 - 121.5	21.40 - 21.45	18.82 - 19.05
14.0	14.7 - 15.0	153.5 - 156.5	24.95 - 25.10	22.02 - 22.25
16.0	16.7 - 17.0	178.5 - 181.5	27.95 - 28.10	24.95 - 25.20
19.0	20.0 - 20.3	208.5 - 211.5	34.80 - 35.00	31.90 - 32.20
22.0	23.5 - 23.8	243.5 - 246.5	39.80 - 40.00	35.70 - 36.00
25.0	26.5 - 26.8	278.0 - 282.0	45.80 - 46.00	40.95 - 41.25

**COMPRESSION FITTING /
EMBOUT**

**STEMBALL EYE /
EMBOUT À BOULE-ŒIL**

**STEMBALL CUP /
COUPELLE**

**BACKPLATE /
PLAQUE ANCRAGE EN T**

**DOUBLE JAW TOGGLE /
CAVALIER AVEC AXE**

STRAP TOGGLE

LINK PLATE / LATTE

**WIRE BLOCK /
POULIE CÂBLE INOX**

TOGGLE / CARDAN

**INSULATOR /
ISOLATEUR**

**G-RING /
ANNEAU BRISÉ**

SPLIT PIN / COUPILLE

PIN / AXE

NUT / ÉCROU

**ADJUSTER /
VÉRIN**





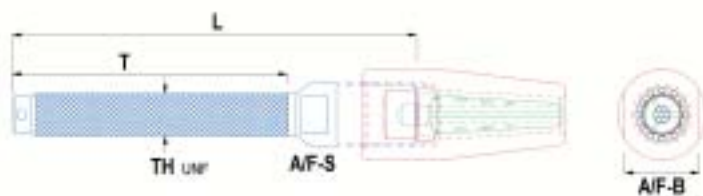
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SWAGELESS FITTING COMPRESSION STUD

Description of compression terminals:

The latest development for compression fittings results in a termination at least as strong as the rated breaking load 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 EN10088 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.



EMBOUT MANUEL EMBOUT FILETÉ

Description des embouts manuels:

Les derniers développements en matière d'embouts à compression ont permis d'atteindre une résistance aux charges au minimum égale à celle des câbles eux-mêmes. La bague en couronne maintient les torons en place en empêchant l'extrémité du câble de plier à cet endroit. Le cône assure une prise du corps du câble et des torons périphériques. Toutes les pièces de l'embout sont en inox EN 10088 1.4404 (316L) à l'exception de la bague couronnée qui est en bronze. Aucune colle ou additif n'est nécessaire.

Ref N°	W mm	TH	T mm	L mm	A/F-S mm	A/F-B mm	Weight Poids [g]
1214030060	3	1/4"	47	63	6	9.5	24
1214040060	4	1/4"	47	68	8	11	35
1214040080	4	5/16"	54	74	8	11	42
1214050080	5	5/16"	54	80	9	14	65
1214050100	5	3/8"	68	90	9	14	75
1214060110	6	7/16"	75	105	11	17	130
1214060130	6	1/2"	90	117	11	17	145
1214070130	7	1/2"	90	123	14	20	199
1214080130	8	1/2"	90	129	16	22	297
1214080160	8	5/8"	100	140	16	22	347
1214100160	10	5/8"	100	147	17	26	458
1214100190	10	3/4"	120	158	19	26	790
1214120190	12	3/4"	120	185	22	32	892
1214140220	14	7/8"	140	206	24	36	1379
1214160250	16	1"	160	236	28	40	1970
1214190280	19	1 1/8"	180	273	32	44	2699
1214220320	22	1 1/4"	200	310	36	52	4240
1214260350	26	1 3/8"	220	348	44	64	6675

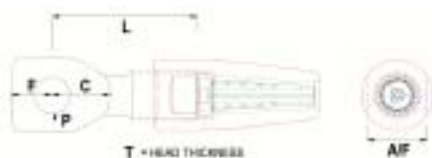
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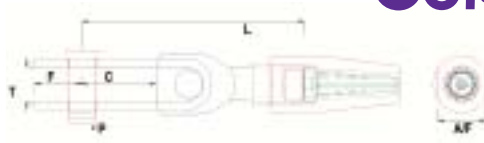


COMPRESSION EYE EMBOUT À ŒIL MANUEL

Ref N°	W mm	P mm	F mm	C mm	L mm	T mm	A/F mm	Weight Poids [g]
1105030060	3	6.3	7	9	22	6	9.5	21
1105040080	4	8	9	12	28	7	11	39
1105050100	5	9.5	11	16	36	8	14	65
1105060110	6	11	13	19	46	9.5	17	126
1105060130	6	12.7	13	20	43	11	17	140
1105070130	7	12.7	13	20	50	11	20	165
1105080130	8	12.7	13	20	52	11	22	235
1105080160	8	16	19	28	56	15	22	390
1105100160	10	16	19	28	59	15	26	462
1105100190	10	19	22	34	65	18	26	600
1105120190	12	19	22	34	79	18	32	912
1105140220	14	22.2	26	36	86	22	36	1344
1105160250	16	25.4	29	41	94	24	40	1867
1105190280	19	28	32	44	98	28	44	2227
1105220320	22	32	36	50	108	32	52	3440
1105260350	26	35	42	55	144	34	64	5575



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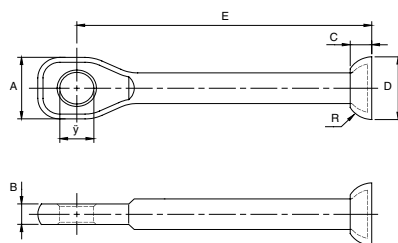
COMPRESSION TOGGLE EMBOUT À CHAPE MANUEL

Ref N°	W mm	P mm	F mm	C mm	T mm	L mm	A/F mm	Weight Poids [g]
1125030060	3	6.3	8	16	8	47	9.5	37
1125040080	4	8	12	20	10	57	11	71
1125050100	5	9.5	13	25	11	66	14	125
1125060110	6	11	17	26	14	86	19	258
1125060130	6	12.7	19	29	16	95	20	310
1125070130	7	12.7	19	29	16	95	20	327
1125080130	8	12.7	19	29	16	97	22	397
1125080160	8	16	25	40	19	116	26	700
1125100160	10	16	25	40	19	125	26	800
1125120190	12	19	25	54	22	170	32	1242
1125140220	14	22.2	30	60	24	190	36	2302
1125160250	16	25.4	32	70	28	200	40	3037
1125190280	19	28	38	80	30	243	44	4280
1125220320	22	32	50	85	34	274	52	6518
1125260350	26	35	50	105	38	322	64	9591

ACCESSORIES / ACCESSOIRES



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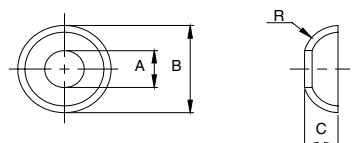


STEMBALL EYE EMBOUT BOULE-ŒIL

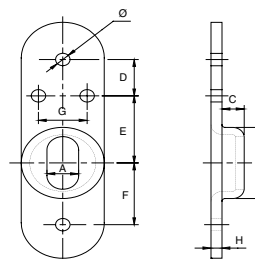
Ref N°	Wire Ø Câble Ø mm	Ø mm	A mm	B mm	C mm	D mm	E mm	R mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1952050260	5.0	9.6	20	9	8.5	26	96	10	102	3600
1952060260	6.0	12.8	24	10	8.0	26	105	10	143	5700
1952070260	7.0	12.8	24	10	11.0	26	112	15	152	5100
1952070340	7-8	12.8	27	10	11	34	112	15	200	6500
1952080340	8-10	16.2	30	13	9.0	34	147	15	312	8800
1952100340	10-12	19.2	36	16	9.0	34	152	15	435	13600



STEMBALL CUP / COUPELLE



Ref N°	Wire Ø Câble Ø mm	A mm	B mm	C mm	R mm	Weight Poids [kg]
1955030160	3	9	16	4.0	7.0	1
1955040260	4	11	26	9.5	10.0	10
1955050260	5	13	26	9.0	10.0	9
1955060260	6-7	16	26	8.5	10.0	9
1955080340	8-10	20	34	9.0	15.0	15
1955100340	10-12	22	34	9.0	15.0	13



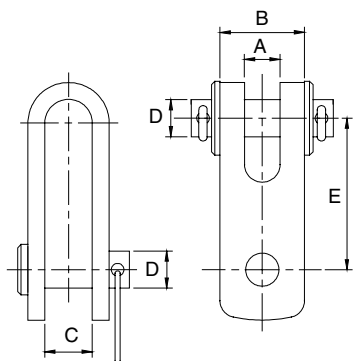
BACKING PLATE PLAQUE ANCRAGE EN T

Ref N°	Wire Ø Câble Ø mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Ø mm	Weight Poids [g]
1956030000	3.0	8.5	20.5	5.0	17	21.5	21.5	-	2	5.2	23
1956040000	4.0	8.5	20.5	5.0	17	21.5	21.5	-	2	5.2	24
1956050000	5.0	10.0	20.5	5.0	17	21.5	21.5	-	2	5.2	22
1956060000	6.0	13.5	30.6	6.5	22	28.0	30.0	-	3	6.8	73
1956070000	7.0	15.0	39.2	10.5	20	37.0	34.0	23	4	6.8	145
1956080000	8.0	17.0	39.2	10.5	20	37.0	34.0	23	4	6.8	144

ACCESSORIES / ACCESSOIRES

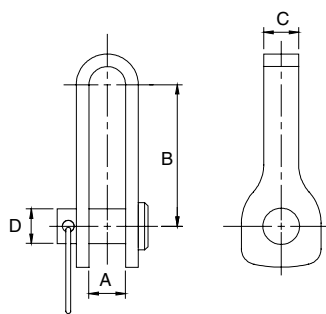


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DOUBLE JAW TOGGLE CAVALIER AVEC AXES

Ref N°	Wire Ø Câble Ø mm	D mm	A mm	B mm	C mm	E mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1953040080	4.0	8.0	8.0	20	10.5	35.5	67	3100
1953050100	5.0	10.0	9.5	25	10.5	41.0	119	5000
1953060110	6.0	11.0	10.5	25	14.0	45.0	170	6250
1953060130	6-7-8	12.7	12.0	30	15.5	55.0	239	7800
1953100160	10.0	16.0	15.0	40	18.0	65.0	447	13400
1953120190	12.0	19.0	19.0	50	22.0	75.0	640	17400
1953140220	14.0	22.0	21.0	60	24.0	91.0	930	21350
1953160250	16.0	25.4	22.0	60	27.5	95.0	1330	25100
1953190290	19.0	28.5	26.0	70	31.0	110.0	2084	30150
1953220320	22.0	31.8	30.0	70	35.0	115.0	2450	35250



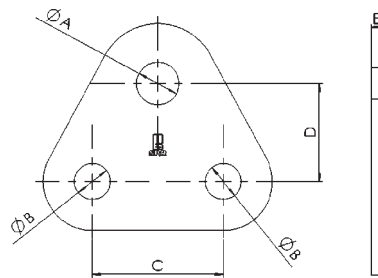
EYE JAW TOGGLE STRAP TOGGLE

Ref N°	Wire Ø Câble Ø mm	D mm	A mm	B mm	C mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1962040080	4.0	8.0	8	36	8	24	2125
1962050100	5.0	9.5	10	40	10	39	3625
1962060110	6.0	11.0	12	45	12	55	4100
1962070130	6.0-7.0-8.0	12.7	13	50	12	173	6800
1962100160	10.0	16.0	16	57	15	313	11650
1962120190	12.0	19.0	20	70	18	429	14000

ACCESSORIES / ACCESSOIRES



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TRIANGULAR PLATE LATTE TRIANGLE

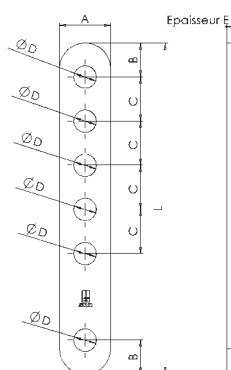
Ref N°	Set of link plates for backstay Jeu de lattes pour patacas		Ø A mm	Ø B mm	C mm	D mm	E mm
	Ø top wire Ø câble haut	Ø bottom wire Ø câble bas					
1951050100	Ø5	Ø4	10	8,5	35	30	2,5
1951060130	Ø6	Ø5	13	10	35	30	3
1951070130	Ø7	Ø6	13	13	45	35	4
1951080130	Ø8	Ø7	13	13	45	35	4
1951100160	Ø10	Ø8	16,5	13	45	35	5
1951120200	Ø12	Ø10	20	16,5	60	45	5

LINK PLATE / LATTE RIDOIR

LINK PLATE LATTE RIDOIR



CURVED LINK PLATE LATTE RIDOIR CAMBRÉE

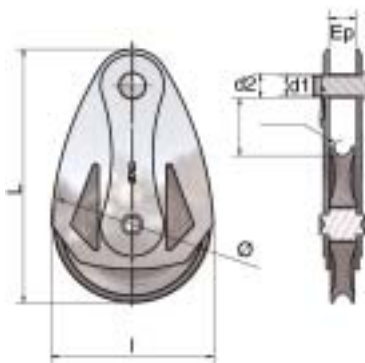


Ref N°	Ø Wire Ø Câble mm	A mm	B mm	C mm	Ø D mm	L mm	Thickness E Epaisseur E mm
1950040080	Ø 4	20	14	18	8.5	140	2.5
1950050100	Ø 5	20	14	18	10	140	2.5
1950060130	Ø 6	30	20	26	13	195	3
1950070130	Ø 7	30	20	26	13	195	4
1950080130	Ø 8	30	20	26	13	195	4
1950100160	Ø 10	40	25	33	16.5	250	4
1950120190	Ø 12	50	30	40	20	290	5

ACCESSORIES / ACCESSOIRES

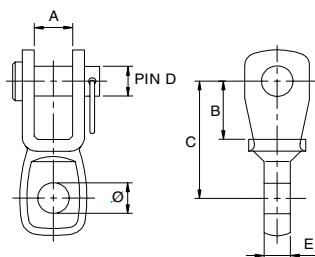


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S.S. WIRE BLOCK POULIE CÂBLE INOX

Ref N°	Wire Ø Câble Ø mm	Sheav Ø Réa Ø mm	d1 mm	d2 mm	E mm	L mm	l mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1972050000	5	49	8	8	10,5	76	50	115	2000
1972060000	6	61	8	10	12,5	94	63	190	3000
1972080000	7 et 8	80	10	12	15,5	121	82	350	5500
1972100000	10	101	14	16	16,5	146	105	740	8000
1972120000	12	122	16	19	21	198	126	1130	12000



TOGGLE / CARDAN

Ref N°	Wire Ø Câble Ø mm	Pin D Axe D mm	Ø mm	A mm	B mm	C mm	E mm	Weight Poids [g]	Min. breaking load Rupture [kg]
1957040080	4.0	8.0	8.1	8.0	17.0	36.5	7.5	61	3550
1957050100	5.0	9.5	9.6	10.0	19.5	43.0	8.5	92	4350
1957060130	6.0	11.0	11.1	12.0	24.0	47.5	10.0	137	6200
1957070130	7.0	12.7	12.8	14.5	25.0	50.0	11.0	180	6900
1957080130	8.0	16.0	16.2	17.0	35.0	70.0	12.0	317	9300
1957120190	10-12	19.0	19.2	20.0	45.0	94.0	18.0	653	14500

ACCESSORIES / ACCESSOIRES




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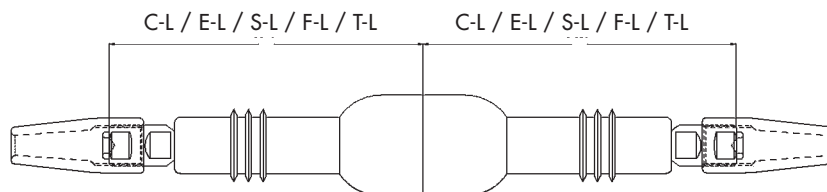
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FAIL SAFE INSULATOR ISOLATEUR DE GRÉEMENT

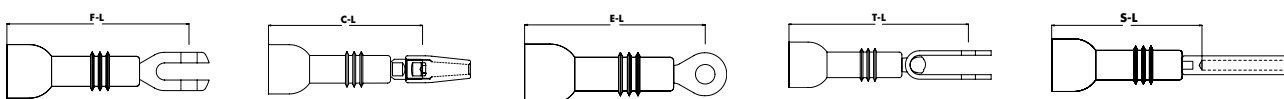


 It is one of the only fail safe rigging insulator for wire available on the market today. The insulator exceeds the rated breaking load of the cable, even C-Strand, whilst at the same time providing the necessary electrical properties to enable your backstay to be used as an aerial.

 C'est actuellement un des seuls isolateurs de gréement sur câble sécurisé disponible sur le marché. Cet isolateur supporte des charges de rupture supérieures à celles du câble, même du C-Strand, tout en offrant les propriétés électriques nécessaires afin d'utiliser le pataras comme antenne radio.



FORK END (F-L)	COMPRESSION END (C-L)	EYE END (E-L)	TOGGLE END (T-L)	SWAGE STUD END (S-L)
EMBOU CHAPE (F-L)	EMBOU MANUEL (C-L)	EMBOU CŒIL (E-L)	EMB. CHAPE ARTICUL.(T-L)	EMBOU A SERTIR (S-L)



Ref (SWAGE S.L. *)	Wire Ø Câble Ø mm	Pin Ø Axe Ø mm	Hole Ø Trou Ø mm	C-L mm	E-L mm	S-L mm	F-L mm	T-L mm
1160060000*	6.0	11	11.3	103	107	101	121	134
1160070000*	7.0	12	13	125	129	120	142	155
1160080000*	8.0	14	14.5	131	151	140	164	198
1160100000*	10.0	16	16.2	146	154	142	176	198
1160120000*	12.0	19	19.2	155	180	168	207	248

* S-L / S-L isolator on stock - Other models, contact us / * Isolateur S-L / S-L sur stock, autres modèles nous contacter.

ACCESSORIES / ACCESSOIRES

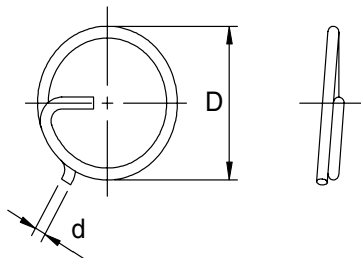


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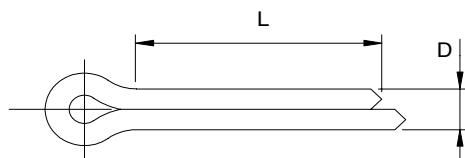
G-RING / ANNEAU BRISÉ

Ref N°	D mm	d mm	For pin Ø Pour axe Ø mm
1965110110	11	1.0	5.0 – 6.3
1965113150	15	1.25	8.0 – 9.5
1965115190	19	1.5	9.5 – 11.1
1965200230	23	2.0	12.7 – 16.0



SPLIT PIN / GOUPILLE

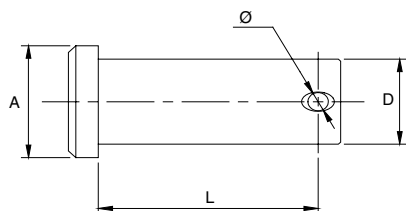
Ref N°	D mm	L mm
1965020100	2.0	10
1965020120	2.0	12
1965025160	2.5	16
1965032160	3.2	16
1965032200	3.2	20
1965032250	3.2	25
1965040250	4.0	25
1965040320	4.0	32
1965040400	4.0	40



ACCESSORIES / ACCESSOIRES

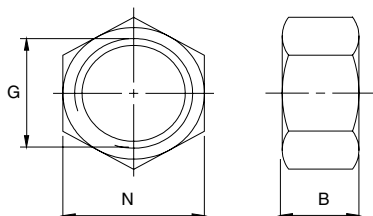
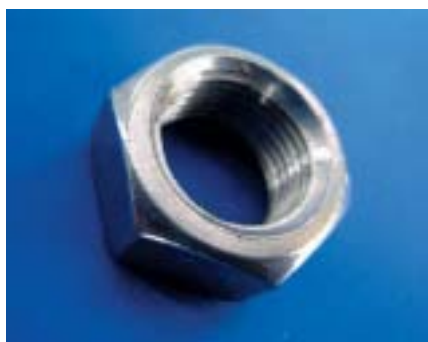


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PIN / AXE

Ref N°	D mm	L mm	A mm	Ø mm	Weight Poids [g]
1958060160	6.3	15.5	9.0	2.7	5
1958080190	8.0	19.0	12.0	3.0	10
1958095220	9.5	22.0	13.5	3.0	16
1958110260	11.0	26.5	15.0	3.7	25
1958127270	12.7	27.5	17.0	4.0	38
1958127310	12.7	31.5	17.0	4.0	41
1958160380	16.0	38.5	19.5	4.0	77
1958190410	19.0	41.0	25.0	5.0	106
1958220490	22.0	49.5	28.0	5.3	178
1958254540	25.4	54.0	32.0	5.3	282
1958285600	28.5	60.0	35.0	5.3	371



NUT / ÉCROU

Ref N°	N mm	B mm	G Right UNF UNF Droit
1966200060	8	4.0	1/4"
1966200080	10	5.0	5/16"
1966200100	13	6.5	3/8"
1966200110	14	8.5	7/16"
1966200120	17	8.0	1/2"
1966200160	22	11.0	5/8"
1966200200	24	13.0	3/4"
1966200220	30	16.0	7/8"
1966200250	32	18.0	1"

ACCESSORIES / ACCESSOIRES




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HYDRAULIC INTEGRAL ADJUSTER VÉRINS HYDRAULIQUE



© SAILTEC


 As boats get bigger and headstays longer, both easy adjustment and accurate backstay tension become increasingly important. The solution to this is hydraulics. A hydraulically controlled backstay permits quick adjustment of headstay sag and mast bend which can make boats sail faster, point higher and make furling and reefing much easier. The integral hydraulic adjuster should offer simple installation, easy operation, and effective adjustment with an accurate pressure gauge. Cylinders are "aircraft" quality aluminum alloy, precision gun drilled, honed, polished and anodized to retain their attractive appearance and performance for years of service. Type 316 stainless steel piston rods are large and strong. This is important to prevent bending caused by side loads and premature seal wear. Equipped with a pressure relief valve, the hydraulic integral adjusters is essential for big units.


 Plus les bateaux sont grands et les étais longs, plus les réglages de tension de patacas deviennent importants. Le contrôle hydraulique du patacas permet un réglage rapide de tension d'étau et du mât, augmentant la performance du bateau et facilitant l'enroulement des voiles d'avant ainsi que les prises de ris. L'installation et l'utilisation sont simples et le réglage est précis grâce au manomètre. Les corps de vérin sont réalisés en alliage d'aluminium et anodisés. Les tiges des vérins (inox 316) sont largement dimensionnées. Primordial afin d'éviter toute flexion de la tige et une usure prématurée des joints de vérin. Muni également d'un limiteur de pression, l'ensemble constitue un élément de réglage indispensable sur les grosses unités.

Ref N°	Model Modèle N°	Piston rod size Taille piston		TENSION		Wire max.size Câble		Pin Ø Axe Ø		LENGTH Closed Fermé mm	Long. Open Ouvert mm	STROKE Course mm
		inch	mm	LB	Kg	inch	mm	inch	mm			
44100LI100	10 LI	5/8"	15.9	4750	2152	9/32"	12.7	1/2"	12.7	686	1029	343
44100LI120	12 LI	3/4"	19.0	6500	2945	5/16"	15.9	5/8"	15.9	711	1068	356
44100LI170	17 LI	3/4"	19.0	8750	3963	3/8"	15.9	5/8"	15.9	737	1092	356
44100LI220	22 LI	7/8"	22.0	11500	5209	7/16"	19.0	3/4"	19.0	838	1244	408
44100LI300	30 LI	1"	25.4	20600	9332	1/2"	25.4	1"	25.4	1016	1435	421

HYDRAULIC CONTROL PANEL SYSTEM CENTRALE HYDRAULIQUE

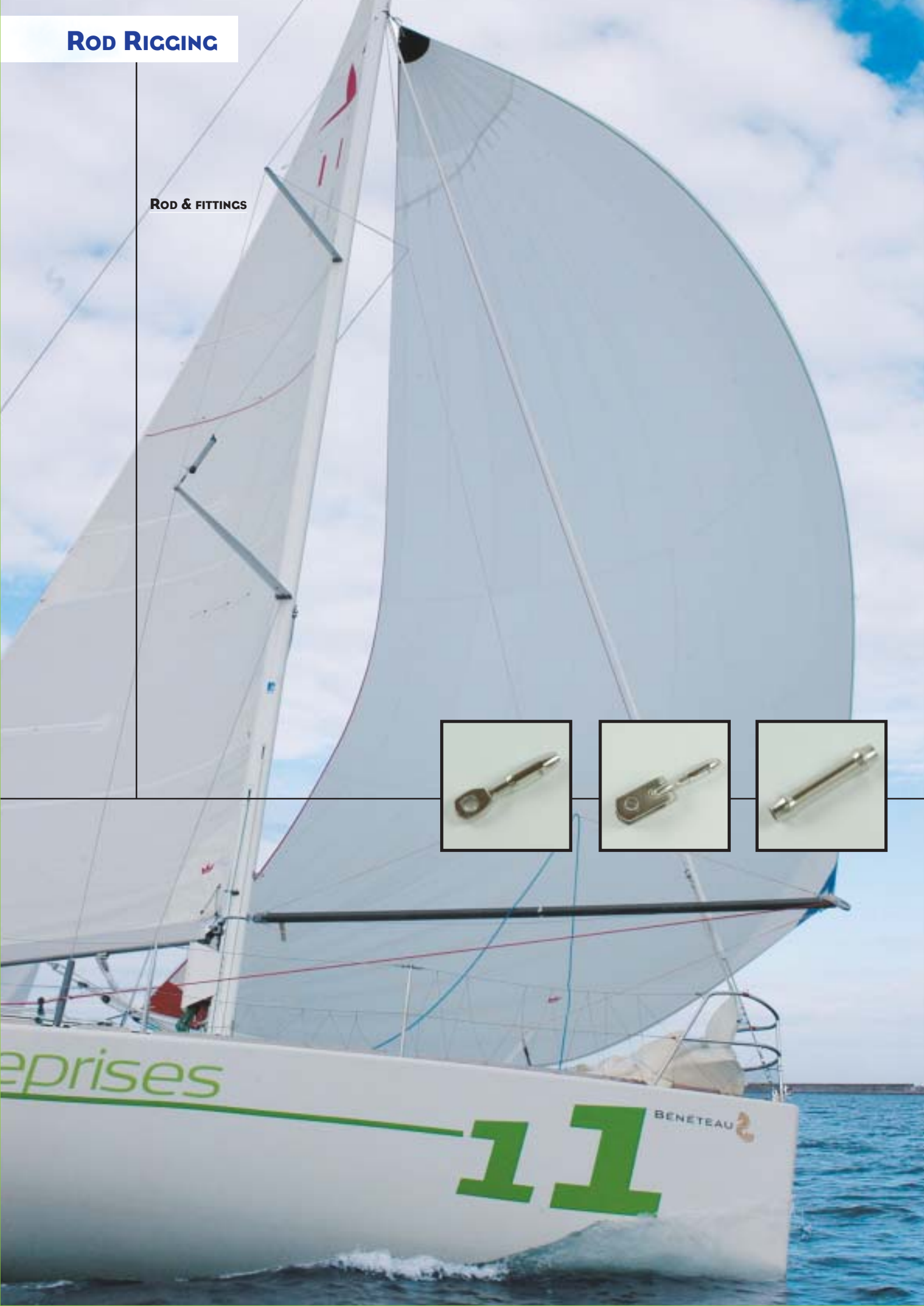


 Saitlec panels control up to four functions per panel. Backstay cylinders, vang, outhauls and forestay cylinders can be pumped to 5,000 p.s.i (350 bar) and released from the panel location. We offer two basic designs: the T5 double-acting and the T6 single-acting panels

 Nos centrales hydrauliques permettent de contrôler 4 fonctions par boîtier de commandes. Les vérins de patacas, halebas, étau et écoute peuvent être mis en pression jusqu'à 350 bars directement depuis la centrale. Deux modèles sont disponibles : le T-5 double commande et le T-6, modèle simple commande.

ROD RIGGING


ROD & FITTINGS





© Dufour / Photo Martin Raget

ROD RIGGING SYSTEM

 **Sparcraft Rigging** has selected a complete range of Rod Fitting to offer a perfect quality and reliability and as usual, control and traceability.

Cold heading process warranted the strongest solution for Rod SAF and Ni50.

Rod advantages

- For same strength than 1 x 19 wire, Rod has a smaller diameter, lighter with better aerodynamic.
- Rod as a lower elongation and better mechanic properties on tension.



SYSTÈME ROD RIGGING

 **Sparcraft Rigging** a sélectionné une gamme complète d'éléments Rod garantissant une fiabilité irréprochable.

Le procédé de refoulement à froid garantit une solidité à toute épreuve sur le Rod SAF et Ni50.

Avantages du Rod

- A résistance égale, le câble Rod a un diamètre inférieur au câble d'où un fardage réduit.
- Le gréement est plus raide qu'un gréement câble.
- Le système de connections du Rod permet des réglages plus précis.



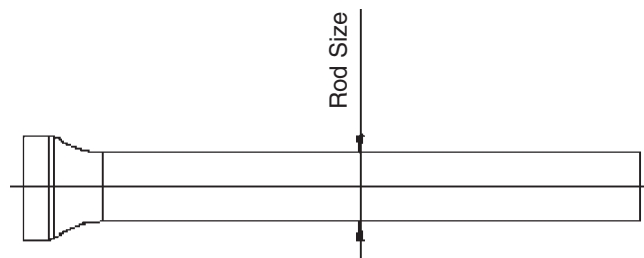
ROD RIGGING / GRÈEMENT ROD



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STANDARD ROD RIGGING



Ref N°	Dash	# Rod Ø mm	Inch	Break Load /Charge rupt. [kg] lbs.		Weight /Poids kg/m lbs./ft.		Length / Longueur [kg]
Rod SAF Coil								
3000040440	-4	4.4	0.17	2325	5126	0.12	0.08	8.47
3000060500	-6	5.0	0.20	2937	6475	0.16	0.11	6.49
3000080570	-8	5.7	0.23	3771	8314	0.20	0.13	5.00
3000100640	-10	6.4	0.25	4590	10119	0.25	0.17	3.95
3000120710	-12	7.1	0.28	5649	12454	0.32	0.21	3.22
3000150750	-15	7.5	0.30	6322	13938	0.38	0.25	2.63
3000170840	-17	8.4	0.33	7750	17086	0.43	0.29	2.30
3000220950	-22	9.5	0.38	10197	22481	0.56	0.38	1.80
3512017160	-30	11.1	0.44	12799	28217	0.77	0.52	1.32
3000401270	-40	12.7	0.50	16784	37002	1.00	0.67	1.01
3000481430	-48	14.3	0.56	21153	46643	1.27	0.85	0.79
Rod 50 Coil								
3000601680	-60	16.8	0.66	29611	65281	1.47	1.17	0.57
3000761790	-76	17.9	0.70	33615	74108	1.99	1.34	0.50
Rod 50 Bar								
3000911950	-91	19.5	0.77	39893	87949	2.36	1.58	0.42
3001152220	-115	22.2	0.88	51705	114990	3.06	2.06	0.33
3001502540	-150	25.4	1.00	67686	149222	4.00	2.69	0.25

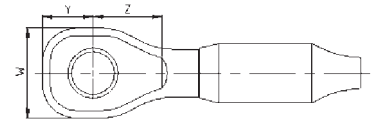
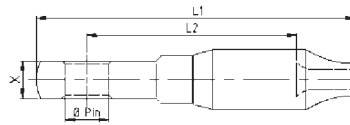
ROD RIGGING / GRÉEMENT ROD



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ROD EYE EMBOUT ŒIL



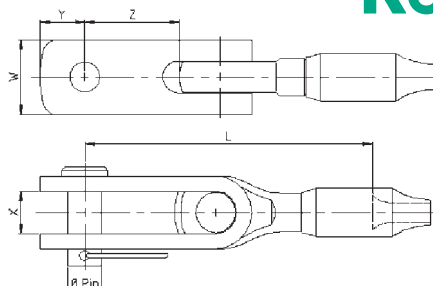
Material: Acidproof Stainless Steel / Matériau : Inox 316 AISI

Ref	# Rod Ø	Ø Pin		W	X	Y	Z	L1	L2	Weight	Break Load	
N°	Dash	mm	Inch	mm	mm	mm	mm	mm	mm	Poids [kg]	Charge rupt. [kg]	
3100004100	-4	4.4	3/8"	9.5	20.0	8.5	10.0	17.0	81.0	56.0	0.056	2650
3100006110	-6	5.0	7/16"	11.1	24.0	10.0	13.5	18.5	85.0	57.0	0.099	3450
3100008110	-8	5.7	7/16"	11.1	24.0	10.0	13.5	18.5	85.0	57.0	0.098	4450
3100010130	-10	6.4	1/2"	12.7	27.5	11.5	15.0	21.5	94.0	57.0	0.137	5650
3100012130	-12	7.1	1/2"	12.7	27.5	11.5	15.0	21.5	94.0	57.0	0.137	6400
3512017160	-12	7.1	5/8"	15.9	32.0	13.0	18.0	24.0	118.0	76.0	0.237	6950
3100015160	-15	7.5	5/8"	15.9	32.0	13.0	18.0	24.0	118.0	76.0	0.238	7400
3100017160	-17	8.4	5/8"	15.9	32.0	13.0	18.0	24.0	118.0	76.0	0.235	9700
3100017190	-17	8.4	3/4"	19.1	36.0	18.0	21.0	29.5	133.0	85.0	0.404	9700
3100022190	-22	9.5	3/4"	19.1	36.0	18.0	21.0	29.5	133.0	85.0	0.400	12450
3100030220	-30	11.1	7/8"	22.2	44.0	19.0	26.0	35.0	158.0	100.0	0.607	17000
3100040250	-40	12.7	1"	25.4	48.0	21.0	28.0	39.0	170.0	108.0	0.838	21500
3100048280	-48	14.3	1 1/8"	28.6	57.0	25.0	33.0	45.0	186.0	118.0	1.253	27250
3100060320	-60	16.8	1 1/4"	31.8	62.5	28.0	33.0	40.0	216.0	123.0	1.620	39250
3100076320	-76	17.9	1 1/4"	31.8	63.5	28.0	33.0	40.0	273.5	146.0	2.351	43050
3100091350	-91	19.5	1 3/8"	34.9	68.5	31.0	37.0	38.0	292.0	149.5	3.003	49500
3100115400	-115	22.2	1 9/16"	39.7	78.8	34.5	41.0	53.0	337.0	177.0	4.290	63650
3100150450	-150	25.4	1 3/4"	44.5	89.0	40.0	49.0	65.0	380.5	197.0	6.401	81600

ROD RIGGING / GRÈEMENT ROD



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ROD JAW TOGGLE CHAPE ARTICULÉE

Material: Acidproof Stainless Steel / Matériau : Inox

Ref	# Rod Ø	Ø Pin		W	X	Y	Z	L	Weight	Break Load	
N°	Dash	mm	Inch	mm	mm	mm	mm	mm	Poids [kg]	Charge rupt. [kg]	
3120004100	-4	4.4	3/8"	9.5	25.0	11.0 ± 0.5	15.0	29.5	95.0	0.172	2650
3120006110	-6	5.0	7/16"	11.1	25.0	13.0 ± 0.5	15.0	31.5	101.0	0.253	3450
3120008110	-8	5.7	7/16"	11.1	25.0	13.0 ± 0.5	15.0	31.5	101.0	0.252	4450
3120010130	-10	6.4	1/2"	12.7	30.0	14.0 ± 0.5	17.5	35.0	113.0	0.352	5650
3120012130	-12	7.1	1/2"	12.7	30.0	14.0 ± 0.5	17.5	35.0	113.0	0.352	6400
3120012160	-12	7.1	5/8"	15.9	40.0	17.5 ± 0.5	23.0	34.5	128.5	0.637	6950
3120015160	-15	7.5	5/8"	15.9	40.0	17.5 ± 0.5	23.0	34.5	128.5	0.638	7400
3120017160	-17	8.4	5/8"	15.9	40.0	17.5 ± 0.5	23.0	34.5	128.5	0.635	9700
3512017160	-22	9.5	3/4"	19.1	50.0	21.5 ± 0.5	26.0	37.0	145.5	0.962	12450
3120030220	-30	11.1	7/8"	22.2	60.0	24.0 ± 0.5	35.0	41.5	167.5	1.661	17000
3120040250	-40	12.7	1"	25.4	60.0	28.0 ± 0.5	35.0	45.5	184.0	2.078	21500
3120048290	-48	14.3	1 1/8"	28.6	70.0	31.5 ± 0.5	40.0	54.5	208.5	2.953	27250
3120060320	-60	16.8	1 1/4"	31.8	70.0	35.0 ± 0.8	40.0	69.0	225.0	4.798	39250
3120046320	-76	17.9	1 1/4"	31.8	75.0	35.0 ± 0.8	40.0	70.0	249.0	4.783	43050
3120091350	-91	19.5	1 3/8"	34.9	80.0	42.0 ± 0.8	46.0	82.0	269.0	5.594	49500
3120115400	-115	22.2	1 9/16"	39.7	120.0	44.0 ± 0.8	65.0	109.0	324.0	10.220	63650
3120150450	-150	25.4	1 3/4"	44.5	130.0	52.0 ± 1.0	70.0	120.5	370.5	13.637	81600

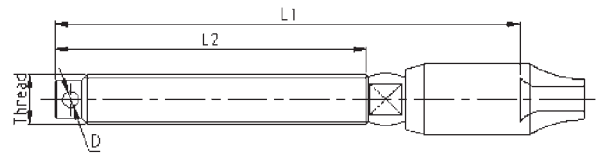
ROD RIGGING / GRÉEMENT ROD



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ROD THREADED STUD EMBOU FILETÉ

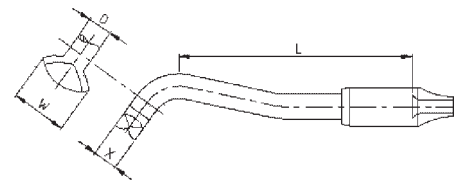


Material: Acidproof Stainless Steel / Matériau : Inox

Ref N°	# Rod Ø Dash mm	Thread Pas UNF	D mm	L1 mm	L2 mm	Weight Poids [kg]	Break Load Charge rupt. [kg]	
3210004100	-4	4.4	3/8"-24	2.5	105.0	71.0	0.063	2750
3210006110	-6	5.0	7/16"-20	3.3	113.0	76.0	0.099	3600
3210008110	-8	5.7	7/16"-20	3.3	113.0	76.0	0.098	4650
3210008130	-8	5.7	1/2"-20	4.0	120.0	80.0	0.141	4650
3210010130	-10	6.4	1/2"-20	4.0	120.0	80.0	0.139	5850
3210012130	-12	7.1	1/2"-20	4.0	120.0	80.0	0.139	6450
3210012160	-12	7.1	5/8"-18	4.0	156.0	101.0	0.281	7250
3210015160	-15	7.5	5/8"-18	4.0	156.0	101.0	0.282	7750
3210017160	-17	8.4	5/8"-18	4.0	156.0	101.0	0.279	9850
3210017190	-17	8.4	3/4"-16	4.0	180.0	120.0	0.469	10150
3210022190	-22	9.5	3/4"-16	4.0	180.0	120.0	0.465	12950
3210030220	-30	11.1	7/8"-14	4.0	233.0	156.0	0.790	17700
3210040250	-40	12.7	1"-12	4.0	249.0	165.0	1.136	22450



ROD T EMBOU EN T



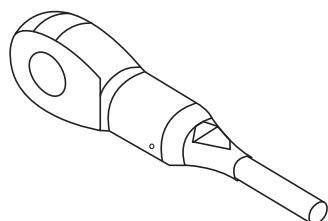
Material: Acidproof Stainless Steel / Matériau : Inox

Ref N°	# Rod Ø Dash mm	W mm	X mm	D mm	L mm	Weight Poids [kg]	Break Load Charge rupt. [kg]	
3140004000	-4	4.4	20.5	9.0	9.0	88.5	0.071	2675
3140006000	-6	5.0	31.5	12.7	12.7	109.5	0.170	3380
3140008000	-8	5.7	31.5	12.7	12.7	109.5	0.169	4340
3140010000	-10	6.4	32.5	14.0	14.0	112.0	0.182	5395
3140012000	-12	7.1	34.5	16.0	16.0	124.0	0.349	6570
3140017000	-17	8.4	39.0	18.0	18.0	130.0	0.347	9130

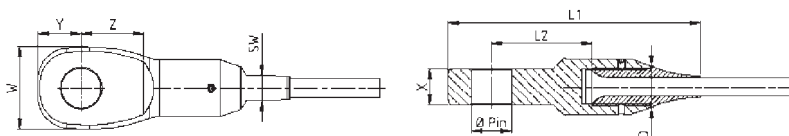
ROD RIGGING / GRÈEMENT ROD



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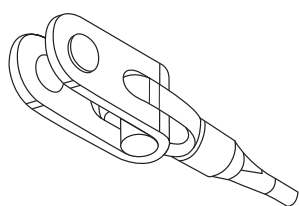
ROD FURLING EYE ŒIL POUR ENROULEUR



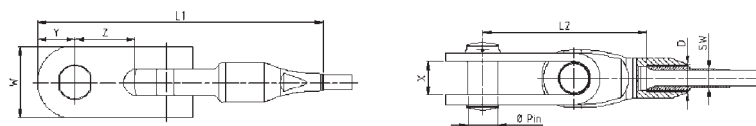
Material: Acidproof Stainless Steel with high mechanical strength / Matériau : Inox haute résistance

Ref	# Rod Ø	Ø Pin	W	X	Y	Z	D	L1	L2	SW	Weight Poids [kg]	Break Load Charge rupt. [kg]		
N°	Dash	mm	Inch	mm	mm	mm	mm	mm	mm	mm				
3103008110	-8	5.7	7/16"	11.1	23.0	10.0	12.7	16.7	12.3	74.8	28.1	7.0	0.081	4600
3103010130	-10	6.4	1/2"	12.7	28.0	11.0	15.4	19.1	13.9	83.7	32.3	8.0	0.129	5800
3103012110	-12	7.1	1/2"	12.7	28.0	11.0	15.4	19.1	13.9	84.7	32.3	9.0	0.128	7200
3103017160	-17	8.4	5/8"	15.9	34.0	14.0	18.7	23.9	17.2	108.1	42.4	11.0	0.241	10100
3103022190	-22	9.5	3/4"	19.1	40.0	17.0	22.0	28.6	20.5	122.1	47.1	12.0	0.404	13000
3512017160	-30	11.1	7/8"	22.2	43.0	19.5	23.7	33.4	22.0	139.5	53.8	14.0	0.539	17700
3103040250	-40	12.7	1"	25.4	49.0	22.0	27.0	38.1	20.2	156.5	59.5	16.0	0.742	23100
3103048280	-48	14.3	1 1/8"	28.6	55.0	25.0	30.3	42.9	27.2	176.8	67.5	18.0	1.076	28400
3103060320	-60	16.8	1 1/4"	31.8	65.0	28.5	35.8	47.7	31.9	204.6	75.8	21.0	1.742	39200

D is the max. diameter on the furling Socket Diameter / D est le diamètre extérieur maxi. de la socket.



ROD FURLING TOGGLE CHAPE ARTICULÉE POUR ENROULEUR



Material: Acidproof Stainless Steel with high mechanical strength / Matériau : Inox haute résistance

Ref	# Rod Ø	Ø Pin	W	X	Y	Z	D	L1	L2	SW	Weight Poids [kg]	Break Load Charge rupt. [kg]		
N°	Dash	mm	Inch	mm	mm	mm	mm	mm	mm	mm				
3121010130	-10	6.4	1/2"	12.7	30.0	14.0 ± 0.3	16.0	38.0	13.9	137.7	85.7	8.0	0.343	5800
3121012130	-12	7.1	1/2"	12.7	30.0	14.0 ± 0.3	16.0	38.0	13.9	138.7	85.7	9.0	0.342	7200
3121017160	-17	8.4	5/8"	15.9	40.0	17.5 ± 0.5	22.0	36.7	17.2	166.8	94.6	11.0	0.639	10100
3121022190	-22	9.5	3/4"	19.1	50.0	21.5 ± 0.5	26.0	37.6	20.5	185.7	106.7	12.0	0.986	13000
3121030220	-30	11.1	7/8"	22.2	60.0	24.0 ± 0.5	32.0	48.7	22.0	220.1	126.1	14.0	1.424	17700
3121040250	-40	12.7	1"	25.4	60.0	28.0 ± 0.5	32.0	52.1	20.2	240.5	138.5	16.0	1.966	23100
3121048280	-48	14.3	1 1/8"	28.6	70.0	31.5 ± 0.5	37.0	61.6	27.2	275.4	159.4	18.0	2.774	28400
3512017160	-60	16.8	1 1/4"	31.8	70.0	35.0 ± 0.5	42.0	68.1	31.9	314.7	179.7	21.0	4.356	39200
3121076320	-76	17.9	1 1/4"	31.8	75.0	35.0 ± 0.5	42.0	68.1	31.9	320.7	179.7	23.0	4.353	43000
3121091350	-91	19.5	1 3/8"	34.9	80.0	42.0 ± 0.5	47.0	88.0	35.1	362.1	207.1	25.0	5.746	49500

D is the max. diameter on the furling Socket Diameter / D est le diamètre extérieur maxi. de la socket.

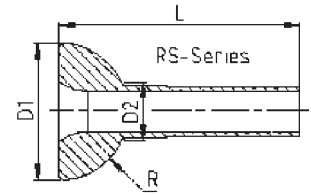
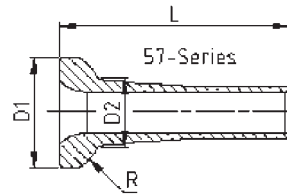
ROD RIGGING / GRÉEMENT ROD



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ROD STEMBALL



Material: Acidproof Stainless Steel with high mechanical strength / Matériau : Inox haute résistance

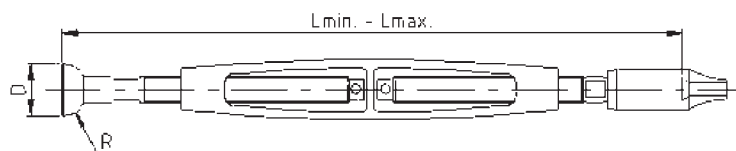
Ref	# Rod Ø	D1	D2	L	R	Weight	Break Load		
N°	Dash mm	mm	mm	mm	mm	Poids [kg]	Charge rupt. [kg]		
3111004120	-4	4.4	12.1	8.3	20.0	7.5	0.004	2790	
3111006140	-6	5.0	14.0	8.8	25.0	8.0	0.007	3600	
3111006170	-6	5.0	17.3	10.9	30.0	9.5	0.015	3600	
3111006210	-6	5.0	21.4	9.4	32.7	10.8	0.023	3600	
3111008170	-8	5.7	17.3	10.9	30.0	9.5	0.013	4650	
3111008210	-8	5.7	21.4	10.2	34.3	10.8	0.022	4650	RS
3111010170	-10	6.4	17.3	11.0	35.0	9.5	0.013	5850	
3512017160	-10	6.4	21.4	10.5	33.3	10.8	0.022	5850	RS
3111010270	-10	6.4	27.4	16.5	48.5	14.0	0.063	5850	
3111012210	-12	7.1	21.4	11.7	37.5	10.8	0.023	7250	RS
3111012200	-12	7.1	19.6	13.2	40.0	11.0	0.022	7250	
3111012230	-12	7.1	23.1	16.3	50.0	12.5	0.049	7250	
3111012270	-12	7.1	27.4	16.5	48.5	14.0	0.061	7250	
3111015270	-15	7.5	27.3	13.3	45.1	13.8	0.046	7750	RS
3111017230	-17	8.4	23.1	16.3	50.0	12.5	0.039	10150	
3112022270	-22	9.5	27.3	14.8	50.0	13.8	0.045	12950	RS
3111022260	-22	9.5	25.8	17.3	55.0	15.5	0.050	12950	
3111022320	-22	9.5	32.0	17.3	55.0	17.0	0.076	12950	
3112030310	-30	11.1	31.3	16.7	58.3	15.8	0.067	17700	RS
3111030340	-30	11.1	33.8	17.4	55.0	17.0	0.072	17700	
3111030300	-30	11.1	30.0	18.6	65.0	19.0	0.068	17700	
3112040350	-40	12.7	35.2	18.9	66.7	17.8	0.095	22450	RS
3112040430	-40	12.7	43.1	19.0	76.2	21.8	0.172	22450	RS
3111040350	-40	12.7	35.0	20.9	73.0	21.5	0.107	22450	
3112048390	-48	14.3	39.2	20.6	74.9	19.8	0.128	28450	RS
3111048440	-48	14.3	44.0	20.6	80.0	24.8	0.169	28450	
3112060430	-60	16.8	43.2	25.2	94.0	21.8	0.175	39250	RS
3112060490	-60	16.8	49.1	24.1	93.9	24.8	0.260	39250	RS
3111060420	-60	16.8	42.2	27.5	96.0	27.0	0.209	39250	
3111076430	-76	17.9	43.2	25.2	94.0	21.8	0.177	43050	
3111091490	-91	19.5	49.1	27.0	102.4	24.8	0.251	49500	

ROD RIGGING / GRÈEMENT ROD



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ROD CHROME BRONZE TURNBUCKLE WITH STEMBALL RIDOIR À BOULE (CHROME BRONZE)



Material: Chrome Bronze and Acidproof Stainless Steel / Matériau : Inox et Bronze Chromé

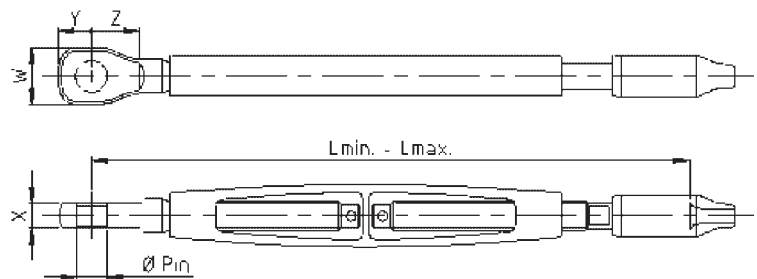
Ref N°	# Rod Dash	Ø mm	D mm	R mm	L min. L max. mm	Weight Poids mm	Break Load Charge rupt. [kg]
3311004190	-4	4.4	19.0	7.0	207 - 303	0.291	2750
3512017160	-6	5.0	19.0	7.0	207 - 303	0.290	3600
3311006190	-6	5.0	21.5	8.6	236 - 343	0.360	3600
3311008190	-8	5.7	21.5	8.6	236 - 343	0.359	4650
3311010190	-10	6.4	20.0	7.0	243 - 362	0.593	5850
3311012190	-12	7.1	20.0	7.0	243 - 362	0.592	7250
3311012190	-12	7.1	27.5	10.5	304 - 455	1.267	7250
3311015190	-15	7.5	27.5	10.5	304 - 455	1.268	7750
3311016190	-16	8.0	27.5	10.5	304 - 455	1.266	8550
3311016190	-16	8.0	27.0	13.5	328 - 468	1.321	8550
3311017190	-17	8.4	27.5	10.5	304 - 455	1.265	10150
3311017190	-17	8.4	27.5	14.0	366 - 547	1.946	10150
3311022190	-22	9.5	27.5	14.0	366 - 547	1.942	12950

ROD RIGGING / GRÉEMENT ROD



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ROD CHROME BRONZE TURNBUCKLE WITH EYE RIDOIR À ŒIL (CHROME BRONZE)



Material: Chrome Bronze and Acidproof Stainless Steel / Matériau : Inox et Bronze Chromé

Ref	# Rod	Ø	Ø Pin	W	X	Y	Z	L min.	Weight	Break Load	
N°	Dash	mm	Inch	mm	mm	mm	mm	L max. mm	Poids [kg]	Charge rupt. [kg]	
3310004100	-4	4.4	3/8"	9.5	19.0	8.0	11.0	16.0	198 - 293	0.289	2750
3310006110	-6	5.0	7/16"	11.1	22.0	9.0	12.5	17.5	217 - 324	0.348	3600
3310008110	-8	5.7	7/16"	11.1	22.0	9.0	12.5	17.5	217 - 324	0.347	4650
3310012130	-12	7.1	1/2"	12.7	24.0	10.0	13.5	18.5	240 - 360	0.680	5900
3310010130	-10	6.4	1/2"	12.7	24.0	10.0	13.5	18.5	235 - 354	0.627	5850
3310012160	-12	7.1	5/8"	15.9	30.0	13.0	17.0	24.0	299 - 450	1.277	7250
3310017160	-17	8.4	5/8"	15.9	30.0	13.0	17.0	24.0	298 - 440	1.275	9000
3310017190	-17	8.4	3/4"	19.0	40.0	18.0	22.5	29.5	351 - 533	2.018	10150
3310022190	-22	9.5	3/4"	19.0	40.0	18.0	22.5	29.5	351 - 533	2.014	12950
3310030220	-30	11.1	7/8"	22.2	43.0	19.0	27.0	32.5	446 - 644	2.577	17700
3310040260	-40	12.7	1"	25.4	48.5	21.0	30.0	37.0	477 - 677	3.793	21400
3310048290	-48	14.3	1 1/4"	28.6	55.0	25.0	30.0	43.0	509 - 704	6.050	28450
3310060320	-60	16.8	1 1/4"	31.8	62.0	28.0	32.0	48.0	526 - 726	6.495	36500

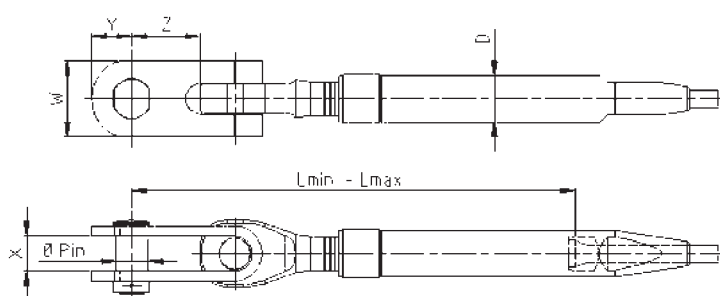
ROD RIGGING / GRÈEMENT ROD



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ROD CHROME BRONZE TURNBUCKLE WITH TOGGLE

RIDOIR À CHAPE ARTICULÉE (CHROME BRONZE)



Material: Chrome Bronze and Acidproof Stainless Steel / Matériau : Inox et Bronze Chromé

Ref	# Rod Ø		Ø Pin		W	X	Y	Z	L min.	Weight	Break Load
N°	Dash	mm	Ø Axe	mm	mm	mm	mm	mm	L max.	[kg]	Charge rupt.
			Inch	mm					mm		[kg]
3312004100	-4	4.4	3/8"	9.5	25.0	11.0 ± 0.5	15.0	29.5	200 - 284	0.329	2750
3312006100	-6	5.0	3/8"	9.5	25.0	11.0 ± 0.5	15.0	29.5	245 - 330	0.375	3600
3312006110	-6	5.0	7/16"	11.1	25.0	13.0 ± 0.5	15.0	31.5	260 - 368	0.420	3600
3312008110	-8	5.7	7/16"	11.1	25.0	13.0 ± 0.5	15.0	31.5	260 - 368	0.419	4650
3512017160	-8	5.7	1/2"	12.7	30.0	14.0 ± 0.5	17.5	35.5	285 - 393	0.710	4650
3312010130	-10	6.4	1/2"	12.7	30.0	14.0 ± 0.5	17.5	35.5	260 - 368	0.708	5850
3312012130	-12	7.1	1/2"	12.7	30.0	14.0 ± 0.5	17.5	35.5	284 - 393	0.709	5900
3312012160	-12	7.1	5/8"	15.9	40.0	17.5 ± 0.5	23.0	35.0	351 - 502	1.386	7250
3312015160	-15	7.5	5/8"	15.9	40.0	17.5 ± 0.5	23.0	35.0	351 - 502	1.387	7750
3312017160	-17	8.4	5/8"	15.9	40.0	17.5 ± 0.5	23.0	35.0	351 - 502	1.384	9000
3312017190	-17	8.4	3/4"	19.0	50.0	21.5 ± 0.5	26.0	36.5	408 - 589	2.181	10150
3312022190	-22	9.5	3/4"	19.0	50.0	21.5 ± 0.5	26.0	36.5	408 - 589	2.177	12950
3312030220	-30	11.1	7/8"	22.2	60.0	24.0 ± 0.5	35.0	40.0	513 - 711	3.767	17700
3312040250	-40	12.7	1"	25.4	60.0	28.0 ± 0.5	35.0	43.0	550 - 750	6.059	21400
3312048320	-48	14.3	1 1/4"	31.8	70.0	35.0 ± 0.8	40.0	70.0	601 - 800	8.470	28450
3312060320	-60	16.8	1 1/4"	31.8	70.0	35.0 ± 0.8	40.0	70.0	630 - 830	8.795	36500

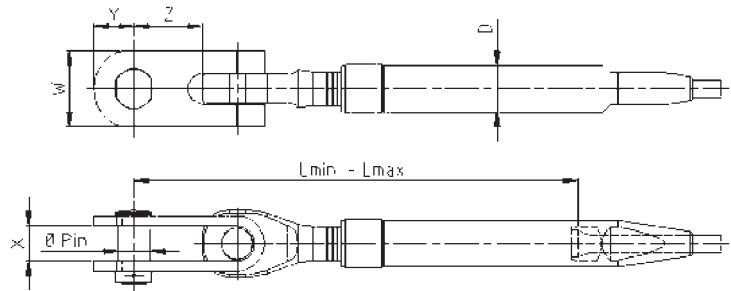
ROD RIGGING / GRÉEMENT ROD



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ROD TURNBUCKLE WITH TOGGLE RIDOIR À CHAPE ARTICULÉE



Material: Acidproof Stainless Steel with high mechanical strength / Matériau : Inox haute résistance

Ref N°	# Rod Dash	Ø mm	Ø Pin Ø Axe Inch mm	W mm	X mm	Y mm	Z mm	D mm	L min. L max. mm	Weight Poids [kg]	Break Load Charge rupt. [kg]	
3512017160	-17	8.4	5/8"	15.9	40.0	17.5 ± 0.5	21.0	38.0	24.0	234 – 315	1.10	11000
3512022190	-22	9.5	3/4"	19.1	50.0	21.5 ± 0.5	26.0	39.0	27.5	261 – 352	2.15	14000
3512030220	-30	11.1	7/8"	22.2	60.0	24.0 ± 0.5	32.0	48.5	31.5	299 – 402	2.80	18650
3512040250	-40	12.7	1"	25.4	60.0	28.0 ± 0.5	32.0	52.4	34.2	329 – 442	3.25	22780
3512048280	-48	14.3	1 1/8"	28.6	70.0	31.5 ± 0.5	37.0	61.6	38.4	365 – 488	4.50	29000
3512060320	-60	16.8	1 1/4"	31.8	80.0	36.5 ± 0.5	42.0	98.5	44.7	432 – 559	7.20	40300
3512076320	-76	17.9	1 1/4"	31.8	80.0	36.5 ± 0.8	42.0	97.0	46.8	448 – 580	7.90	44000
3512091350	-91	19.5	1 3/8"	34.9	90.0	42.0 ± 0.8	47.0	83.0	50.6	433 – 500	8.90	50500
3512115400	-115	22.2	1 9/16"	39.7	110.0	44.0 ± 0.8	58.0	112.3	55.7	485 – 607	10.30	63750
3512150450	-150	25.4	1 3/4"	44.5	120.0	52.0 ± 1.0	63.0	129.1	63.0	-	-	80200

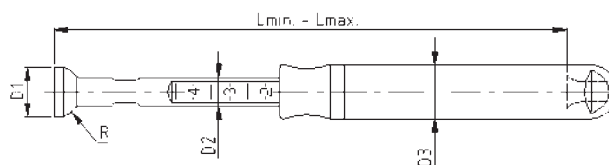
ROD RIGGING / GRÈEMENT ROD



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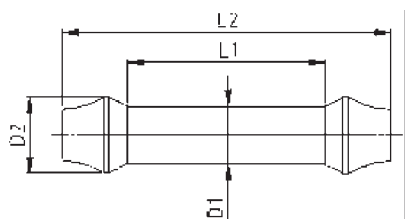


ROD TURNBUCKLE WITH STEMBALL / RIDOIR À BOULE



Material: Chrome Bronze and Acidproof Stainless Steel / Matériau : Inox et Bronze Chromé

Ref	# Rod Ø	D1	D2	D3	R	L min. L max.	Weight Poids [kg]	Break Load Charge rupt. [kg]	
N°	Dash mm	mm	mm	mm	mm	mm			
3611004160	-4	4.4	14.0	8.0	15.0	7.5	122 - 184	0.118	2650
3611006160	-6	5.0	15.5	9.5	17.0	8.0	122 - 184	0.187	3650
3611006220	-6	5.0	21.5	9.5	17.0	10.8	140 - 200	0.198	3650
3611008160	-8	5.7	15.5	9.5	17.0	8.0	137 - 198	0.186	3650
3611008220	-8	5.7	21.5	9.5	17.0	10.8	140 - 200	0.197	3650
3611010220	-10	6.4	20.5	12.5	20.0	10.5	138 - 214	0.323	6700
3611012230	-12	7.1	23.0	14.2	22.5	12.0	159 - 252	0.496	8450
3611015230	-15	7.5	23.0	14.2	22.5	12.0	159 - 252	0.489	8450
3611017280	-17	8.4	27.5	17.0	25.0	14.5	183 - 289	0.699	12750
3611022280	-22	9.5	27.5	17.0	25.0	14.5	183 - 289	0.695	12750
3611030280	-30	11.1	32.0	20.0	28.5	16.5	218 - 356	1.085	16150


 Material: Acidproof Stainless Steel /
Matériau : Inox

SPREADER BEND

Ref	# Rod Ø	L1	L2	D1	D2	Weight Poids [kg]	
N°	Dash mm	mm	mm	mm	mm		
3910004080	-4	4.4	17.7	39.0	7.6	11.0	0.011
3910006080	-6	5.0	18.5	39.0	8.0	11.0	0.010
3910008090	-8	5.7	23.5	46.0	9.0	12.0	0.016
3910010100	-10	6.4	33.5	56.0	10.0	13.0	0.021
3910012100	-12	7.1	33.5	56.0	10.0	13.0	0.019
3910015110	-15	7.5	38.6	63.0	11.0	14.0	0.026
3910017110	-17	8.4	38.6	63.0	11.0	14.0	0.018
3910022130	-22	9.5	43.6	70.0	13.0	16.0	0.032
3910030180	-30	11.1	53.6	80.0	15.0	18.0	0.060
3910040200	-40	12.7	58.6	85.0	17.0	20.0	0.060
3910048190	-48	14.3	61.4	90.0	19.0	22.0	0.080
3512017160	-60	16.8	66.5	95.0	21.0	25.0	0.086
3910076220	-76	17.9	70.0	100.0	22.0	26.5	0.092

RUNNING RIGGING / GRÉEMENT COURANT

RACER

VECTRAN OLYMPIC

DYNAMIC

RUNNER

DYNEEMA PRO

HERCULES


HERCULES COLOR




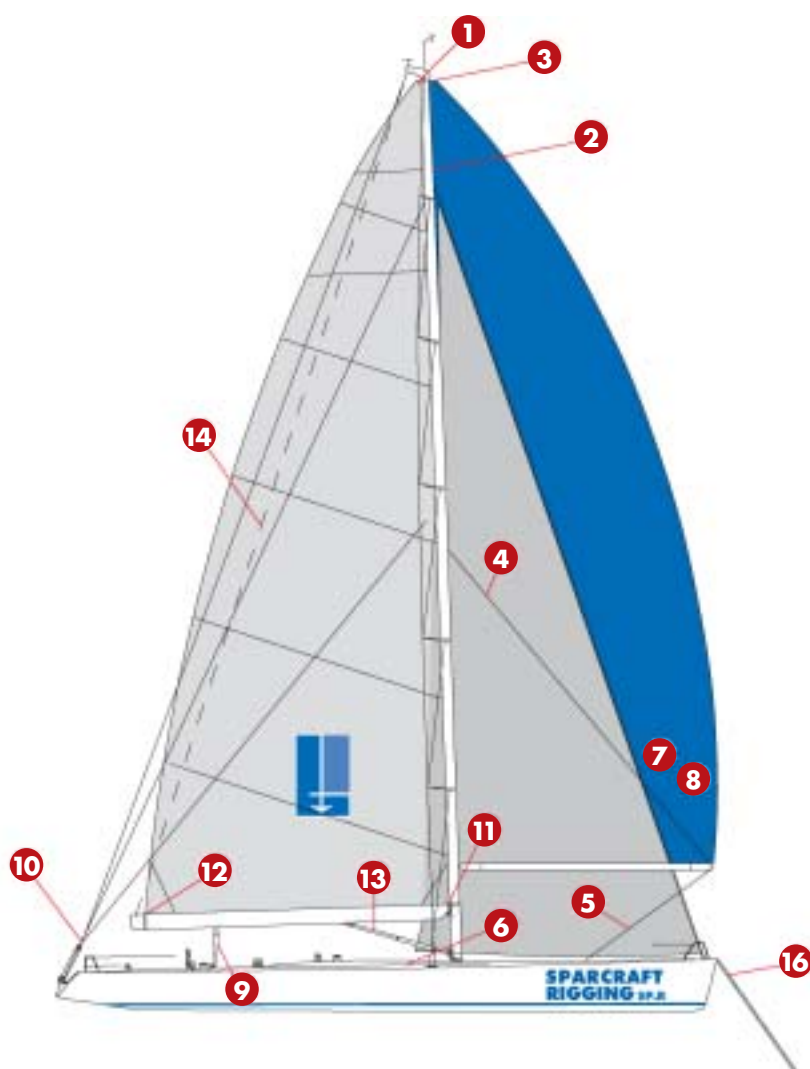
RUNNING RIGGING / GRÉEMENT COURANT



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 **Sparcraft experience** of more than 30 years in sailing, both in cruising and racing, our judicious advice, the quality of service and LIROS technical nature of products ensure an up-market service to our clients.

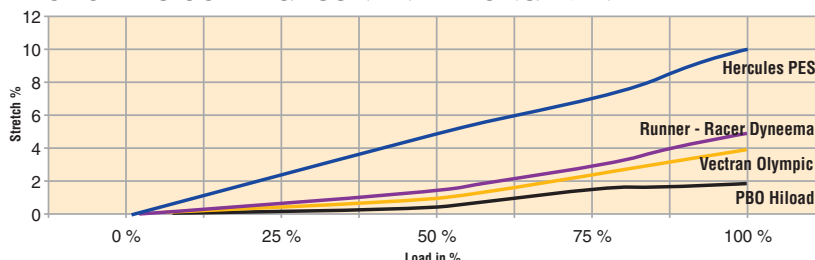
 **L'expérience Sparcraft** de plus de 30 ans dans le domaine du nautisme en croisière comme en régates et maxi yachts, la pertinence et la qualité de nos conseils associés à la technicité des produits LIROS assurent à nos clients une prestation haut de gamme et adaptée à vos besoins.



- 1** Main Halyard
Drisse de GV
- 2** Genoa Halyard
Drisse de Géniois
- 3** Spinnaker Halyard
Drisse de spi
- 4** Topping Lift
Balancine
- 5** Pole Kicker
Hâte bas de spi
- 6** Genoa Sheets
Écoutes de géniois
- 7** Spinnaker Sheets
Écoutes de spi
- 8** Spinnaker guys
Bras de spi
- 9** Main Sheet
Écoute de GV
- 10** Runners & Backstay
Bastaques & Pataras
- 11** Cunningham
Cunningham
- 12** Outhaul
Bordure
- 13** Boom Kicker
Hâte bas de bôme
- 14** Boom Topping Lift
Balancine de bôme
- 15** Mooring Ropes
Amarres
(not represented / non représenté)
- 16** Anchorage Rope
Mouillage



YACHTROPES STRETCH vs LOAD CHOIX DU CORDAGE SUIVANT ALLONGEMENT



© IJROS

RUNNING RIGGING / GRÉEMENT COURANT



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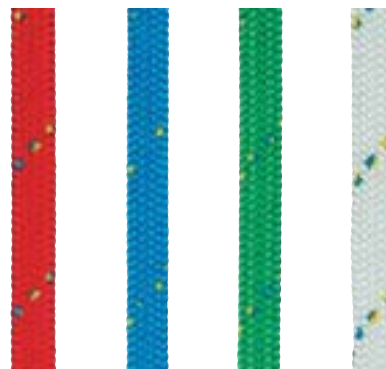
RACER

🇬🇧 New type of DYNEEMA rope offers highest possible breaking load and lowest stretch characteristics, easy to handle, specially engineered 32-plait cover of high quality spundied Polyester, core made out of the most recent development in DYNEEMA SK 75 fiber, for halyards and sheets.

Construction & material

- Cover: 32-plait out of high tenacity Polyester yarn
- Very high resistance to abrasion
- Different colors
- Core: Special plait out of 100 % newly developed DYNEEMA SK75 with additional cover plait

Ø mm	BKL DaN Rupture DaN	Stretch at working load Allgt % charge travail
6	2 200	< 1,5
8	3 800	< 1,5
10	5 000	< 1,5
12	7 200	< 1,5
14	9 500	< 1,5
16	11 500	< 1,5
18	13 500	< 1,5
20	16 500	< 1,5
22	19 700	< 1,5



© LIROS

🇫🇷 Cordage avec une âme DYNEEMA qui présente d'excellentes caractéristiques à la rupture et un allongement très faible. Ce produit bénéficie des dernières avancées de la fibre DYNEEMA.

Gaine intermédiaire qui facilite les travaux d'épissure et renforce la cohésion gaine-âme.

Excellente écoute, la gaine très lisse glisse bien sur les winches, convient aussi comme drisse.

Propriétés

- Très fluide lors des manœuvres, facile à choquer
- Résistance à la rupture très élevée
- Polyvalente comme écoute ou drisse
- Excellente résistance sur winches
- LIROS-HEAT-STRETCH-SYSTEM

Variantes

- Couleurs : différents coloris
- Matériaux gaine : polyester
- Matériaux âme :
DYNEEMA avec gaine intermédiaire
- Construction gaine : tressage 32 fuseaux



© Dufour / Photo Martin Raget

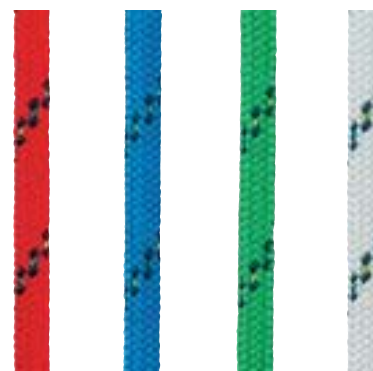
VECTRAN OLYMPIC

🇬🇧 High-Tech rope out of the new fiber VECTRAN, extremely low stretch quality, comparable to wire, high durability and resistance to abrasion, its 32-plait cover make it very resistant in cleats, optimal for halyards and backstays.

Construction & material

- Cover: high resistance to abrasion
- 32-plait out of high tenacity Polyester fiber
- Different colors
- Core: Special plait out of 100 % VECTRAN with additional cover plait

Ø mm	BKL DaN Rupture DaN	Stretch at working load Allgt % charge travail
4	780	< 1
5	930	< 1
6	1 500	< 1
8	2 700	< 1
10	3 700	< 1
12	5 200	< 1
14	6 800	< 1
16	8 400	< 1
18	12 000	< 1



© J/ROCS

🇫🇷 Cordage high-tech avec une âme en VECTRAN.

Allongement très faible, comparable à l'acier, extrêmement résistant à l'abrasion, très bonne tenue dans les bloqueurs.

Gaine intermédiaire qui facilite les travaux d'épissure et renforce la cohésion gaine-âme.

Excellent comme drisse, bastaque et bras de spi.

Propriétés

- Allongement quasi nul
- Pas de fluage
- Très résistant à l'abrasion
- Le VECTRAN ne s'altère pas dans le temps

Variantes


- Couleurs : différents coloris
- Matériaux gaine : polyester
- Matériaux âme : VECTRAN 100 %
- Construction gaine : tressage 32 fuseaux

RUNNING RIGGING / GRÉEMENT COURANT



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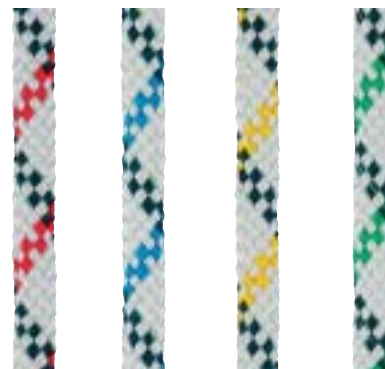
DYNAMIC

 High tensile strength and light-weight sheet for cruising and racing yachts of all sizes, easy handling, flexible 16-plait cover, core of 100% DYNEEMA SK75 with additional inner plaited cover.


Construction & material

- Cover: abrasion resistant 16-plait
- Different colors
- Core: Special plaiting out of 100 % DYNEEMA SK75 with additional cover plait

Ø mm	BKL DaN Rupture DaN	Stretch at working load Allgt % charge travail
3	420	< 3
4	600	< 3
5	1 000	< 3
6	1 100	< 3
8	2 000	< 3
10	3 600	< 3
12	4 750	< 3
14	6 300	< 3



© IROS

 Cordage avec âme 100 % DYNEEMA, très maniable, à faible allongement. Gaine très résistante à l'abrasion. La Dynamic bénéficie des dernières avancées de la fibre DYNEEMA.

Gaine intermédiaire qui facilite les travaux d'épissure et renforce la cohésion gaine-âme.

Idéale comme drisse pour la croisière, écoute de spi ou de génois.

Propriétés

- Polyvalent drisse et écoute
- Faible allongement
- Excellente résistance à l'abrasion
- Excellente écoute de génois qui ne coque pas
- LIROS-HEAT-STRETCH-SYSTEM


Variantes

- Couleurs : différents coloris
- Matériaux gaine : polyester
- Matériaux âme : 100 % DYNEEMA avec gaine intermédiaire
- Construction gaine : tressage 16 fuseaux 1:1



© Dufour / Photo Martin Raget

RUNNER

 Because of the optimal requirement, this RUNNER rope development has found many imitators in.

The heat resistant cover construction of the LIROS-Runner guarantees an unsurpassed resistance against abrasion under extreme high load on winches.


Construction & material

- Extreme heat and abrasion resistant
- Cover construction in a special Aramid PES mixture allowing
- Perfect breaking/stretching attitude
- Also available as Runner PRO with 100 % Aramid-cover and Vectran or PBO in the core
- Ideal for backstays or genaker sheets on racing-yachts
- LIROS-HEAT-STRETCH-SYSTEM
- Cover: Aramid
- Different colors
- Core: DYNEEMA with additional cover plait
- Cover construction: 1:1 plaited

Ø mm	BKL DaN Rupture DaN	Stretch at working load Allgt % charge travail
8	3 900	< 1,5
10	5 000	< 1,5
12	6 900	< 1,5
14	9 000	< 1,5
16	11 000	< 1,5
18	13 000	< 1,5
20	16 500	< 1,5
22	19 700	< 1,5



© LIROS

 Le RUNNER est développé pour un usage extrême sur les winches, lors des régates, Grands Prix, etc. Pas de fusion thermique sur les poupées de winches lors de manœuvres d'écoute sous forte charge, grâce à la gaine spéciale en aramide.

Gaine intermédiaire qui facilite les travaux d'épissure et renforce la cohésion gaine-âme.

Ecoute pour manœuvres extrêmes.

Propriétés

- Résistance parfaite à la fusion et à l'abrasion sur winches
- Résistance à la rupture et faible allongement optimisés
- Également disponible la Runner Pro, avec une gaine en 100 % aramide et une âme en PBO ou en VECTRAN
- LIROS-HEAT-STRETCH-SYSTEM

Variantes

- Couleurs : différents coloris
- Matériaux gaine : aramide
- Matériaux âme :
DYNEEMA avec gaine intermédiaire
- Construction gaine : tressage 16 fuseaux 1:1

RUNNING RIGGING / GRÉEMENT COURANT



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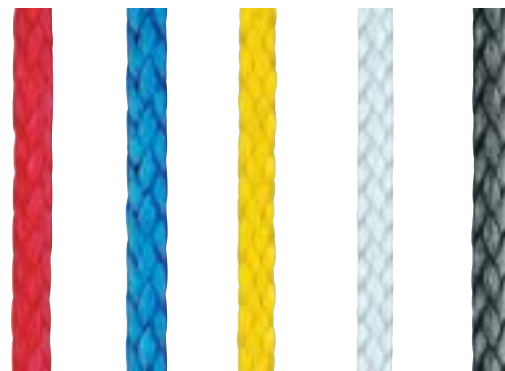
DYNEEMA PRO

🇬🇧 With this line, LIROS guarantees optimised breaking strengths and stretching results with nearly no creep through the LIROS-HEAT-STRETCH-SYSTEM. Very resistant to abrasion, low weight and easy splice ability make this line the optimum for many applications on yachts of every size. Protection cover LIROS-Protect.

Construction & material

- Very low breaking strength at smallest diameter and lowest weight
- Best choice for all applications with extreme loads
- Easy to splice, with an extra cover it can be used individually
- High UV light resistance
- LIROS HEAT STRETCH SYSTEM

Ø mm	BKL DaN Rupture DaN	Stretch at working load Allgt % charge travail
1	130	< 1,3
2	230	< 1,3
3	610	< 1,3
4	850	< 1,3
5	1 760	< 1,3
6	3 460	< 1,3
8	4 420	< 1,3
10	5 890	< 1,3
12	7 500	< 1,3
14	9 125	< 1,3
16	13 750	< 1,3



© LIROS

🇫🇷 Simple tresse en DYNEEMA pur, très facile à épisser. Traitement polyuréthane qui apporte une excellente résistance à l'abrasion et aux UV. Grâce au procédé de pré-étirage, la zone de fluage est repoussée au maximum.

Idéale pour un gain de poids maximal, de l'ordre de 70 % par rapport à un bout gainé. Usage multiple, pour confectionner des estropes, remplacer les manilles... La pose de sur-gaines est facile à réaliser.

Propriétés

- Gain de poids maximal
- Meilleur ratio poids / diamètre
- Pas de reprise d'humidité
- Résistance à la rupture très élevée
- Très facile à épisser
- LIROS-HEAT-STRETCH-SYSTEM


Variantes

- Couleurs : différents coloris
- Matériaux gaine : polyester
- Matériaux âme : DYNEEMA
- Construction gaine : simple tresse
 - jusqu'à 6 mm : tressage 8 fuseaux
 - 8 mm et au-delà : tressage 12 fuseaux



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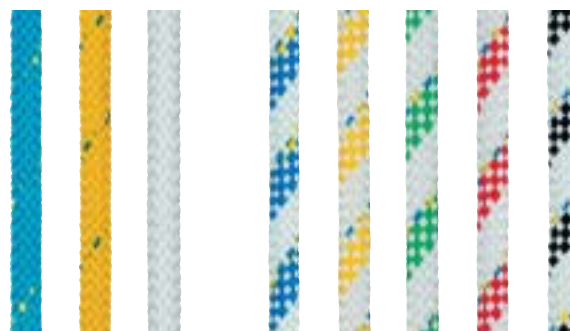
HERCULES & HERCULES COLOR

 Very resistant, extremely multi-functional rope of the highest quality, especially designed for sheets, adjuster and control lines, suitable for yachts of every size, very durable and low stretch, easily spliced to wire.

Construction & material

- Cover: abrasion resistant
- 1:1 plait out of 100 % brand-name Polyester DIOLEN
- Different colors
- Core: special plait out of extremely low stretch, high tenacity brand-name Polyester


Ø mm	BKL DaN Rupture DaN	Stretch at working load Allgt % charge travail
5	440	< 5
6	800	< 5
8	1 500	< 5
10	2 300	< 5
12	3 000	< 5
14	3 800	< 5
16	5 000	< 5
18	5 700	< 5
20	6 400	< 5
22	7 700	< 5
24	9 000	< 5



HERCULES

HERCULES COLOR

© IIRCOS

 Cordage très facile et agréable à manipuler, qui ne forme jamais de coque. Sa forme ronde et compacte le rend extrêmement résistant sur les winches et assure une bonne tenue dans les bloqueurs.

L'Hercules peut être utilisé aussi bien comme drisse, écoute ou bos de ris pour des yachts de toute taille.

Propriétés

- Usage polyvalent drisse et écoute
- Excellente maniabilité, ne forme pas de coques
- Excellente tenue sur les winches et dans les bloqueurs
- Allongement faible

Variantes

- Couleurs : différents coloris
- Matériaux gaine : polyester
- Matériaux âme : polyester tressé
- Construction gaine : tressage 1:1
- **HERCULES COLOR** : différents coloris teints dans la masse





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