

Victory Marine

Rigging Equipment 2004



www.victory-marine.com





Victory Marine Fittings Ltd was established in 1981 and is a leading supplier of rigging equipment and related items. We offer a select range of branded products including

Goliath	Manual hauling and lifting winches
Hasselfors	Stainless steel and Chrome Bronze rigging equipment
HMC Wire	High Molybdenum Content 316 SS wire
Loos Gauges	Professional rigging tension meters
MastWalker	Folding mast rungs
PolyRopes	Top quality ropes from Sweden
SureCheck	Stainless steel tension meters
SureClip	Stainless steel rigging screw clips
Tuff Luff	One piece jib luff extrusion

Our rigging accessories range is expanding. If the product you require is not listed, please call our Sales Team on:

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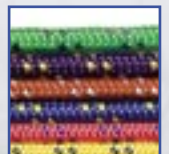
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Rigging Screws

HASELFORS

Rigloc

This new series of chrome plated aluminium bronze rigging screws is the latest addition to our range. Aluminium bronze, like stainless steel, is very strong and highly resistant to corrosion. By making the body of the rigging screw in chrome plated aluminium bronze and the terminals in high grade marine stainless steel,

we have reduced the risk of the thread seizing up under heavy loads. A design feature which gives you a product that lasts even longer. These rigging screws have a new type of locking device, Rigloc.

Fork & Fork



Part No.	Thread	Length		Clevis pin diameter mm	Fork Width mm	Fork Height mm(H1)	Breaking point kN	Max. Working load kN
	UNF	min. mm	max. mm					
HF-90021	1/4	135	192	6.5	7	12.5	15	10.5
HF-90022	5/16	170	230	8	8	15	23	16.1
HF-90023	3/8	205	277	9.5	10	18	34	23.8
HF-90024	7/16	236	335	11	12	18	47	32.9
HF-90025	1/2	280	393	13	14	24	68	47.6
HF-90026	5/8	334	463	15.8	16	31	95	66.5
HF-90027-2	3/4	389	539	19	20	32	125	87.5
HF-90028-2	7/8	431	620	22	22	45	180	125

Fork & Stud



Part No.	Thread	Wire dia mm	Length		Clevis pin diameter mm	Fork Width mm	Fork Height mm(H1)	Breaking point kN	Max. Working load kN
	UNF		min. mm	max. mm					
HF-90113	1/4	3	182	239	6.5	7	12.5	15	10.5
HF-90114	1/4	4	187	244	6.5	7	12.5	15	10.5
HF-90115	5/16	4	210	270	8	8	15	23	16.1
HF-90116	5/16	5	230	290	8	8	15	23	16.1
HF-90118	3/8	5	262	329	9.5	10	18	34	23.8
HF-90120	3/8	6	269	336	9.5	10	18	34	23.8
HF-90122	7/16	6	300	399	11	12	18	47	32.9
HF-90123	7/16	7	308	407	11	12	18	47	32.9
HF-90125	1/2	7	333	446	13	14	24	68	47.6
HF-90126	1/2	8	344	457	13	14	24	68	47.6
HF-90128	5/8	8	388	517	15.8	16	31	95	66.5
HF-90129	5/8	10	405	534	15.8	16	31	95	66.5
HF-90130-2	3/4	10	460	610	19	20	32	125	87.5
HF-90131-2	3/4	12	495	645	19	20	32	125	87.5
HF-90132-2	7/8	12	555	744	22	22	45	180	125
HF-90133-2	7/8	14	570	759	22	22	45	180	125

HASSELFORS



Rigloc

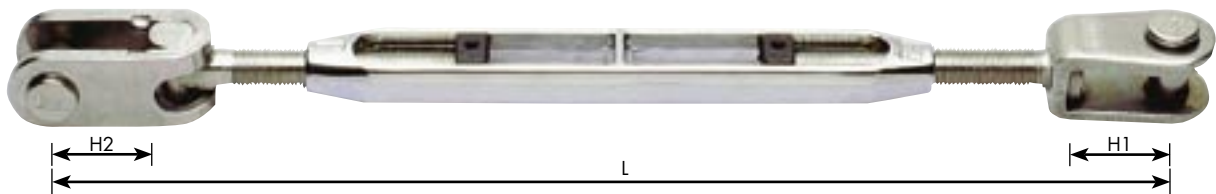
A unique, practical locking device, found only on Hasselfors chrome bronze rigging screws:

- 1 Adjust the rigging screw to the correct tension
- 2 BACK OFF the set screw inside the polyamide insert to lock

Note: Neither insert nor set screw can be lost. Both are held captive within the rigging screw body.

Tip: When adjusting Rigloc rigging screws on board, slide up the lower locking device and tape it until adjustment is complete.

Togglefork & Fork



Part No.	Thread UNF	min. mm	Length max. mm	Clevis pin diameter mm	Fork Width mm	Fork Height mm(H1)	Toggle Height mm(H2)	Breaking point kN	Max. Working load kN
HF-97071	1/4	145	202	6.5	7	12.5	1	15	10.5
HF-97072	5/16	180	240	8	8	15	1	23	16.1
HF-97073	3/8	215	282	9.5	10	18	1	34	23.8
HF-97074	7/16	246	345	11	12	18	1	47	32.9
HF-97075	1/2	291	404	13	14	24	1	68	47.6
HF-97076	5/8	352	481	15.8	16	31	1	95	66.5
HF-97077-2	3/4	410	560	19	20	32	1	125	87.5

Togglefork & Stud



Part No. A	Thread UNF	Wire dia mm	Length min. mm	Length max. mm	Clevis pin diameter mm	Fork Width mm	Toggle Height mm(H2)	Breaking point kN	Max. Working load kN	Part No. B
HF-97043	1/4	3	191	248	6.5	7	15	15	10.5	HF-97740
HF-97044	1/4	4	196	253	6.5	7	15	15	10.5	HF-97740
HF-97045	5/16	4	220	280	8	8	19	23	16.1	HF-97741
HF-97046	5/16	5	240	300	8	8	19	23	16.1	HF-97741
HF-97048	3/8	5	270	337	9.5	10	22	34	23.8	HF-97742
HF-97050	3/8	6	277	344	9.5	10	22	34	23.8	HF-97742
HF-97052	7/16	6	312	411	11	12	23.5	47	32.9	HF-97743
HF-97053	7/16	7	320	419	11	12	23.5	47	32.9	HF-97743
HF-97055	1/2	7	344	457	13	14	30	68	47.6	HF-97744
HF-97056	1/2	8	357	470	13	14	30	68	47.6	HF-97744
HF-97057	5/8	8	404	533	15.8	16	39.5	95	66.5	HF-97745
HF-97058	5/8	10	421	550	15.8	16	39.5	95	66.5	HF-97745
HF-97059-2	3/4	10	477	627	19	20	40.5	125	87.5	HF-97746-2
HF-97060-2	3/4	12	512	662	19	20	40.5	125	87.5	HF-97746-2

Rigging Screws

HASSELFORS

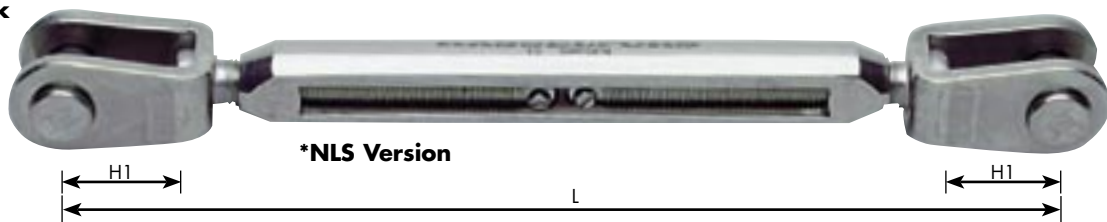
Our stainless steel classics

Hasselfors rigging screws are made from high-grade, marine stainless-steel - SS2343 (AISI 316L. Carbon content max 0.03% molybdenum content 2.5-3.0%). The rigging screws have cold rolled threads and are polished for higher corrosion resistance. They come with a choice of locking devices - NLS (locking screw) and SP (split pin).*

The rigging screw threads are lubricated with Hasselfors rigging screw oil prior to delivery. To keep your rigging screws in good condition, please lubricate them regularly with our special rigging screw oil.

* **Split pins fitted as standard** - please specify 'NLS' if locking screws are required.

Fork & Fork



Part No.	Thread UNF	min. mm	Length body	Width body	max. mm	Weight g	Clevis pin diameter mm	Fork Depth mm	Fork Height mm(H1)	Breaking point kN	Max. Working load kN
HF-80001	1/4	130	92	9.5	187	96	6.5	7	12.5	15	10.5
HF-80002	5/16	156	111	11	222	160	8	8	15	23	16.1
HF-80003	3/8	188	128	12	266	256	9.5	10	18	34	23.8
HF-80004	7/16	225	150	15	320	440	11	12	18	47	32.9
HF-80005	1/2	250	166	17.5	360	620	13	14	24	68	47.6
HF-80006	5/8	270	175	21	380	1045	15.8	16	31	95	66.5
HF-80007-2	3/4	312	212	24	453	1600	19	20	32	125	87.5
HF-80008-2	7/8	440	292	34	620	3200	22	22	45	180	125
HF-80009	M24	570		38	820		22	25	50	250	175

Fork & Stud



Part No.	Thread UNF	Wire dia mm	min. mm	Length max. mm	Clevis pin diameter mm	Fork Width mm	Fork Height mm(H1)	Breaking point kN	Max. Working load kN
HF-81113	1/4	3	178	235	6.5	7	12.5	15	10.5
HF-81114	1/4	4	182	239	6.5	7	12.5	15	10.5
HF-81115	5/16	4	200	266	8	8	15	23	16.1
HF-81116	5/16	5	220	286	8	8	15	23	16.1
HF-81118	3/8	5	258	336	9.5	10	18	34	23.8
HF-81120	3/8	6	265	343	9.5	10	18	34	23.8
HF-81122	7/16	6	285	380	11	12	18	47	32.9
HF-81123	7/16	7	293	388	11	12	18	47	32.9
HF-81125	1/2	7	315	425	13	14	24	68	47.6
HF-81126	1/2	8	320	430	15.8	16	24	95	66.5
HF-81128	5/8	10	330	440	15.8	16	31	95	66.5
HF-81129	5/8	10	350	460	15.8	20	31	125	87.5
HF-81130-2	3/4	12	395	536	19	20	32	125	87.5
HF-81131-2	3/4	12	430	571	19	20	32	125	87.5
HF-81132-2	7/8	12	538	718	22	22	45	180	125
HF-81133-2	7/8	14	552	732	22	22	45	180	125

HASSELFORS

Stainless steel rigging screw

Togglefork & Fork

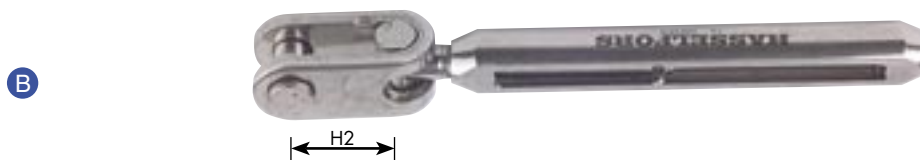


Part No.	Thread UNF	min. mm	Length max. mm	Clevis pin diameter mm	Fork Width mm	Fork Height mm(H1)	Toggle Height mm(H2)	Breaking point kN	Max. Working load kN
HF-86071	1/4	140	197	6.5	7	12.5	15	15	10.5
HF-86072	5/16	165	231	8	8	15	19	23	16.1
HF-86073	3/8	195	273	9.5	10	18	22	34	23.8
HF-86074	7/16	232	327	11	12	18	23.5	47	32.9
HF-86075	1/2	260	370	13	14	24	30	68	47.6
HF-86076	5/8	293	403	15.8	16	31	39.5	95	66.5
HF-86077-2	3/4	332	473	19	20	32	40.5	125	87.5

Togglefork & Stud



Togglefork & Body Only

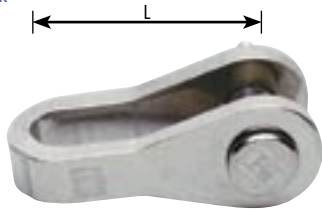


Part No. A	Thread UNF	Wire dia mm	min. mm	Length max. mm	Clevis pin diameter mm	Fork Width mm	Toggle Height mm(H2)	Breaking point kN	Max. Working load kN	Part No. B
HF-86043	1/4	3	185	242	6.5	7	15	15	10.5	HF-86740
HF-86044	1/4	4	190	247	6.5	7	15	15	10.5	HF-86740
HF-86045	5/16	4	208	274	8	8	19	23	16.1	HF-86741
HF-86046	5/16	5	228	294	8	8	19	23	16.1	HF-86741
HF-86048	3/8	5	255	333	9.5	10	22	34	23.8	HF-86742
HF-86050	3/8	6	262	340	9.5	10	22	34	23.8	HF-86742
HF-86052	7/16	6	292	387	11	12	23.5	47	32.9	HF-86743
HF-86053	7/16	7	300	395	11	12	23.5	47	32.9	HF-86743
HF-86055	1/2	7	320	430	13	14	30	68	47.6	HF-86744
HF-86056	1/2	8	323	433	13	14	30	68	47.6	HF-86744
HF-86057	5/8	8	350	460	15.8	16	39.5	95	66.5	HF-86745
HF-86058	5/8	10	370	480	15.8	16	39.5	95	66.5	HF-86745
HF-86059-2	3/4	10	418	559	19	20	40.5	125	87.5	HF-86746-2
HF-86060-2	3/4	12	450	591	19	20	40.5	125	87.5	HF-86746-2

Rigging Equipment

HASSELFORS

Toggles Eye/Fork



Part No.	For Rigging Screw	Clevis mm pin diameter	Fork Width mm	Fork Length mm(L)
HF-80251	1/4	6.5	7	21
HF-80252	5/16	8	8	26
HF-80253	3/8	9.5	10	33
HF-80254	7/16	11	12	39
HF-80255	1/2	13	14	43.5
HF-80256	5/8	15.8	16	48.5
HF-80257	3/4	15.8	20	65
HF-80257-2	3/4	19	20	65
HF-80298*	7/8	19	22	95
HF-80298-2*	7/8	22	22	95
HF-80299*	M24	22	25	120

*=Available as fork and eye only

Clevis pins



Part No.	For RScrew and Toggle	For Fork Terminal	For life line terminal	Diameter mm	Length mm (L*)
HF-80471	1/4	3	3	6.5	15
HF-80472	5/16	4	4	8	18
HF-80473	3/8	5	5	9.5	20.5
HF-80474	7/16	6		11	25
HF-80475	1/2	7		13	29
HF-80476	5/8	8		15.8	34
HF-80477	3/4	10		15.8	40
HF-80482	3/4	12		19	40
HF-80478	7/8			19	49
HF-80483	7/8	14		22	49

L*=Usable Length

Split pins



Part No.	Diameter x length mm	For rigging screw	For fork terminal
HF-80563	2 x 15		
HF-80557	2.5 x 12	1/4	3
HF-80564	2.5 x 15	5/16, 3/8	4.5
HF-80565	2.5 x 20		
HF-80566	3 x 20	7/16, 1/2	6.7
HF-80567	3 x 25	5/8, 3/4	8, 10
HF-80568	3 x 30		
HF-80570	4 x 30	7/8	12

Locking screws



Part No.	For rigging screws
HF-90540	1/4
HF-90542	5/16
HF-90541	3/8
HF-90543	7/16, 1/2
HF-90544	5/8, 3/4
HF-90545	7/8

Split rings



Part No.	Diameter x thickness mm	For rigging screw
HF-80581	16 x 1	1/4, 5/16, 3/8
HF-80582	20 x 1.5	7/16
HF-80583	25 x 1.5	1/2, 5/8
HF-80584	30 x 1.5	3/4

Locking device For bronze rigging screw, Rigloc



Part No.	For rigging screws
HF-90501	1/4
HF-90502	5/16
HF-90503	3/8
HF-90504	7/16
HF-90505	1/2
HF-90506	5/8
HF-90507	3/4
HF-90508	7/8

HASSELFORS

Stud Terminals



Part No.	Thread size UNF	Wire mm
HF-80263	1/4	3
HF-80264	1/4	4
HF-80265	5/16	4
HF-80266	5/16	5
HF-80268	3/8	5
HF-80270	3/8	6
HF-80272	7/16	6
HF-80273	7/16	7
HF-90275	1/2	7
HF-90276	1/2	8
HF-90278	5/8	8
HF-90246	5/8	10
HF-90280	3/4	10
HF-90281	3/4	12
HF-90864	7/8	12
HF-90865	7/8	14

Eye Terminals



Part No.	Wire diameter mm	Eye diameter mm	Eye thickness mm
HF-80354	3	6.5	3.5
HF-80355	4	8.3	5.6
HF-80356	5	10.3	6.6
HF-80358	6	11.5	8.6
HF-80366	6	13	8.6
HF-80359	7	13.5	9.6
HF-80360	8	13.5	10.6
HF-80367	8	16	10.6
HF-80363	10	16	12.6
HF-80365	12	19.2	18
HF-80368	14	23	17

T-Terminals



Part No.	Wire diameter mm
HF-80801	3
HF-80802	4
HF-80803	5
HF-80804	6
HF-80805	7
HF-80806	8

Threaded T



Part No.	Description
HF-81064	7/16 x 6mm LH-threaded
HF-82064	7/16 x 6mm RH-threaded

Lifeline Terminals



Part No.	Wire diameter mm	Clevis pin diameter mm	Fork Gap mm
HF-80631	3	6.5	7
HF-80632	4	8	8
HF-80633	5	9.5	10

Fork Terminals



Part No.	Wire diameter mm	Clevis pin diameter mm	Fork Gap mm
HF-80384	3	6.5	7
HF-80385	4	8	8
HF-80386	5	9.5	10
HF-80388	6	11	12
HF-80389	7	13	14
HF-80390	8	15.8	16
HF-80392	10	15.8	20
HF-80425	12	19	20
HF-80393	14	22	22

Backing Plates For T-terminals



Part No.	Wire diameter mm
HF-80871	3
HF-80872	4
HF-80873	5
HF-80874	6
HF-80875	7
HF-80876	8

Threaded Eye



Part No.	Eye diameter mm	Thread size UNF	LOA
80522	8	5/16"	72mm
80523	9.5	3/8"	85mm
80524	11	7/16"	105mm
80525	12.5	1/2"	110mm
80526	15.8	5/8"	146mm

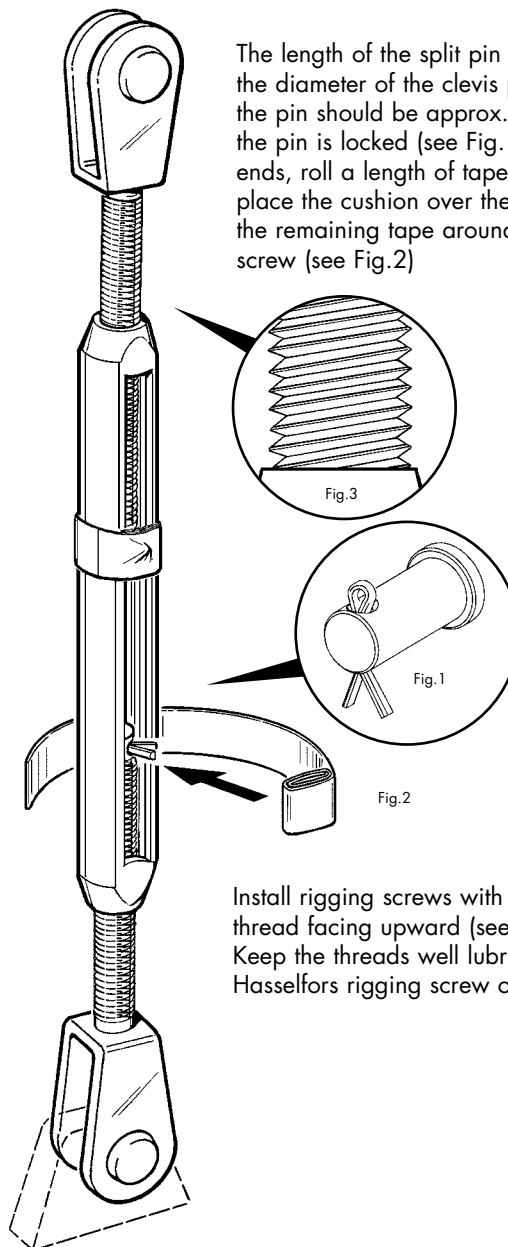
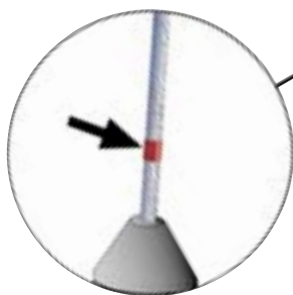
Rigging Equipment

HASSELFORS

Handy hints from Hasselfors

Our long experience has helped us to accumulate some practical hints and tips for making sailing safer and easier. We would like to pass on some of these handy hints, and hope that you will find them useful.

When the backstay has been fully tightened, mark the stay with a piece of tape at the top of the backstay tensioner. The tape marker will enable you to re-tension the stay accurately when ever necessary.



The length of the split pin should be 1.5 x the diameter of the clevis pin. The ends of the pin should be approx. 20° apart when the pin is locked (see Fig.1). To protect the ends, roll a length of tape into a cushion, place the cushion over the ends and wrap the remaining tape around the rigging screw (see Fig.2)

Install rigging screws with the right-hand thread facing upward (see Fig. 3). Keep the threads well lubricated with Hasselfors rigging screw oil.

Rigging screw oil



Part No.	Size
HF-81012	100ml

All rigging screws (bronze or stainless steel) should be lubricated every year using Hasselfors special formula high-viscosity oil.

HASELFORS

Backstay Tensioners



Hasselfors' backstay tensioners have smooth, clean surfaces. Even the fork terminal is fully covered. These low-weight backstay tensioners are simple to use. Insert a standard winch handle and turn. The tensioner has a maximum working load of 30 kgf. The stroke is 250 or 400mm, depending on model chosen.

Part No.	Stroke mm	Breaking point kf	Max working load kgf	Working length min	Working length max	LOA mm
HF-60005	250	65	30	518	768	980
HF-60006	400	65	30	818	1218	1430
For 6-10mm Ø wire						

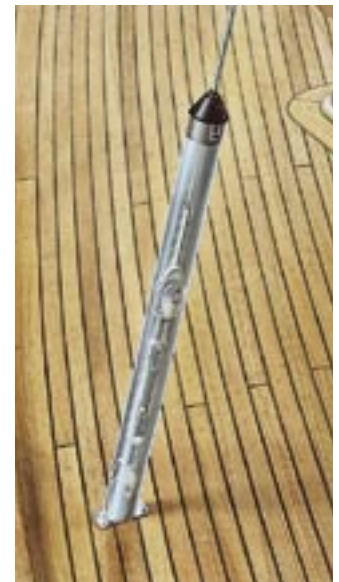


Works as a halyard tensioner too

The backstay tensioner can also be used as genoa and main halyard tensioner. It can easily cope with yachts of up to 70-80 feet. It is mounted on the mast, leaving a winch free for other purposes, and doing away with the long fall that would otherwise hang from the mast.

Rigging screw covers in Aluminium

Designed for the serious off-shore sailor, this aluminium rigging screw cover is smoothly rounded and kind to sails, sheets and clothes. Chafe is reduced to a minimum and rigging screws can be kept well-lubricated without fear of staining sails or sheets.



Part No	For rigging screw	Tube outer/inner diameter	Tube length mm	Split-top bushing
HF-319-580-01	7/16 (6mm)	38/35	650	72004 x 2 pcs
HF-319-581-01	1/2 (7mm)	43/40	650	72005 x 2 pcs
HF-319-582-01	5/8 (8mm)	50/46	700	72006 x 2 pcs
HF-319-583-01	3/4 (10mm)	57/53	800	72007 x 2 pcs
HF-319-584-01	7/8 (12mm)	67/63	1100	72008 x 2 pcs
HF-319-585-01	M24 (14mm)	75/71	1400	72009 x 2 pcs

Rigging Equipment

Shackles



'D' Shackles

AISI 316 SS

Part No	Pin dia. mm	Length mm	Throat mm	Break Load KG
V10-36725	5	19	11	1250
V10-36726	6	21	13	1800
V10-36728	8	28	16	3000
V10-36720	10	35	19	4800
V10-36722	12	42	26	7100



Long 'D' Shackles

AISI 316 SS

Part No	Pin dia. mm	Length mm	Throat mm
V10-36735	5	37	11
V10-36736	6	45	13
V10-36738	8	57	16
V10-36730	10	77	19
V10-36732	12	92	26



Bow Shackles

AISI 316 SS

Part No	Pin dia. mm	Length mm	Throat mm
V10-36755	5	17	11
V10-36756	6	27	13
V10-36758	8	36	16
V10-36750	10	45	19
V10-36752	12	46	26



Snap shackles

Smooth Action - Polished AISI 316 SS

Part No.	Length mm	Break Load Kg
V10-26492	70	1350
V10-26496	87	2200
V10-26498	125	3400

Rigging Accessories



Rigging Screws

Closed Body AISI 316

Part No	Thread size Metric	Length		pin. dia. mm	Fork gap mm
		Min mm	Max mm		
V70-8544005	M5	140	190	4	5.5
V70-8544006	M6	150	210	5	6.5
V70-8544008	M8	180	250	6	8.5
V70-8544010	M10	210	290	8	10.5
V70-8544012	M12	240	330	10	12.0



Pelican Hook

AISI 316

Complete with Swage Stud

Part No	Thread size Metric	Length		Wire dia. mm
		Min mm	Max mm	
V70-8631427	M8	165	195	4
V70-8631527	M8	175	210	5



Swage Stud

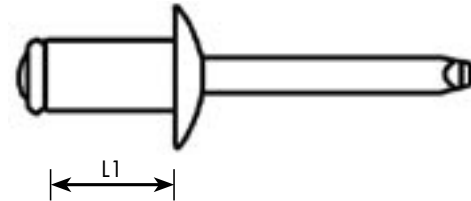
Complete with nut

Part No	Thread size	Overall Length	L1	Wire
				dia.
V70-8623023	M6	97	4	3
V70-8623024	M8	115	5	4
V70-8623025	M10	128	6	5
V70-8623026	M12	162	8	6

NB: Also available, Swage Eyes & Swage Forks. Ask for fact sheet and price list

Monel Rivets

Nickle copper alloy rivets - domed head



Part No	Description
V12-00665	4.8 x 16.5 Monel rivet
V12-00850	6.4 x 12.8 Monel rivet
V12-00870	6.4 x 18.0 Monel rivet
V12-00890	6.4 x 25.0 Monel rivet



Our rigging accessories range is expanding. If the product you require is not listed, please call our Sales Team on:

Tel: 01489 570797 Fax: 01489 574488

Rigging Equipment

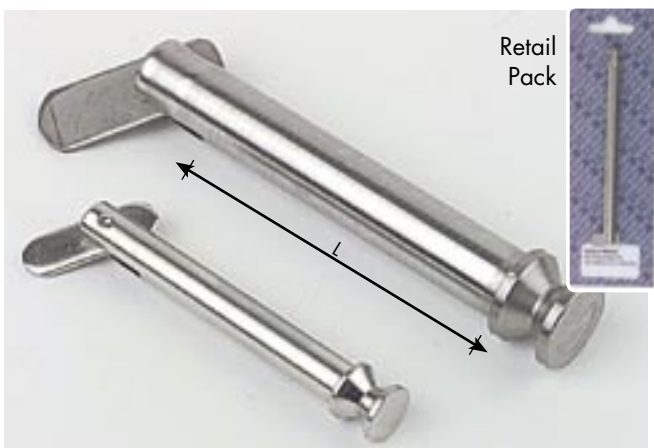
Rigging Accessories



Duralac

Anti-corrosive jointing compound - 115ml.
Inhibits electrolytic corrosion between dissimilar materials. Use on rivets, bolts, screws, mast fittings.

CODE	DESCRIPTION
V15-00001	115ml tube Duralac



Drop Nose Pins

Polished AISI 316 SS

Part No	Pin Dia. mm	Overall Length mm	Length mm(L)
V11-06025	6	45	25
V11-06035	6	55	35
V11-06050	6	70	50
V11-06075	6	95	75
V11-08025	8	46	25
V11-08035	8	56	35
V11-08050	8	71	50
V11-08075	8	96	75
V11-08100	8	121	100
V11-10035	10	57	35
V11-10050	10	72	50
V11-10075	10	97	75
V11-10100	10	122	100

Cable Grips

Used mainly as a temporary repair and can achieve around 80% efficiency of the breaking strength of the wire. To effect a secure fastening, at least two should be used aligned with the 'saddle' on the standing part of the wire.



AISI 316 SS

Part No	Wire dia mm
V10-31302	2
V10-31303	3
V10-31304	4
V10-31305	5
V10-31306	6
V10-31308	8



Thimbles

AISI 316 SS

Part No	Wire Dia. mm	Part No	Wire Dia. mm
V10-31702	2	V10-31707	7
V10-31703	3	V10-31708	8
V10-31704	4	V10-31710	10
V10-31705	5	V10-31712	12
V10-31706	6	V10-31714	14

NB Our Rigging Accessory range is growing fast-If you do not see what you want in the catalogue, please call our Sales Office



Tuff Luff



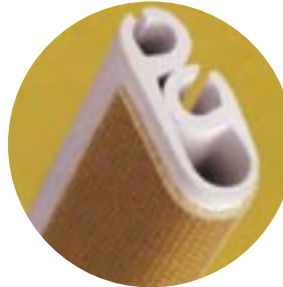
Pre Feeders

Oversized silicon bronze rollers smooth out the sail on its way to the feeder, assuring a perfect set and eliminating the need for crew to hand-feed the sail.



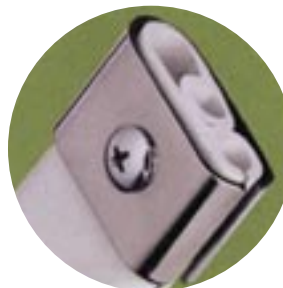
Extrusions

Replacing your Tuff Luff foil is literally a snap. We offer spare extrusions for every system, cut to standard lengths. The foil bottom is finished to accept the feeder.



Kevlar Bumper (optional extra)

Protect your Tuff Luff extrusion from spinnaker pole impacts and sheet chafing. 4-foot long Kevlar bumper is easily installed using adhesive supplied. Fits 1205, 1706, 2206 and 3007.



Top Caps

Made of tough 316 stainless steel top caps safeguard against chafe caused by crossed or improperly lead halyards. The top cap is aerodynamic and extremely light to minimize weight aloft. Installs in minutes.



Feeders

Precision engineered feeders, made of high quality 316 stainless steel, fit neatly over the finished Tuff Luff foil. The feeder guides the sail into the extrusion for a flawless hoist every time.

Foils shown actual size	Tuff Luff Part No.	Max Stay Wire	Diameter Rod	Luff Tape Dia.	Foil Length m	Max. Stay Length m
	1205 - 25	6mm	-10	4mm	7.6	8.8
	1205 - 30				9.0	10.2
	1205 - 36				11.0	12.2
	1205 - 46				14.0	15.2
	1706 - 36	8mm	-17	5mm	11.0	12.2
	1706 - 46				14.0	15.2
	1706 - 59				18.0	19.2
	2206 - 46	10mm	-22	5mm	14.0	15.2
	2206 - 59				18.0	19.2
	2206 - 72				22.0	23.2
	3007 - 80	11mm	-30	6mm	24.3	26.2
	4807 - 95	14mm	-48	6mm	28.9	30.7
	6008 - 110	16mm	-60	7mm	33.5	35.3

*Extrusion Only:
Add 'EO' to part No when ordering

Spares & Accessories	Part No.
Genoa prefeeder	1205-01
Mainsail prefeeder	1205-11
Foil feeder	1205-02, 1706-02 or 2206-02
Feeder screw	1205, 1706 or 2206
Spacer tube pack	1205-03, 1706-03 or 2206-03
Kevlar Bumper	1205-10, 1706-10 or 2206-10

Tension Gauges

SureCheck

Rig Tension Gauge

SureCheck Tension Meters

Part No.	Description
SC-20908	SureCheck 2.5 - 4mm
SC-20900	SureCheck 4 - 6mm
SC-20902	SureCheck 6 - 8mm
SC-20904	SureCheck 8 - 10mm
SC-20909	SureCheck Pocket



Photo: Phil O'Neill

Sureclip

Rigging Screw Locks

Part No.	SC-20090	SC-20100	SC-20110
Size	3/4"	5/8"	1/2"
Dia. body	32mm	29mm	23mm
Locking pin dia.	2.9mm	2.9mm	2.9mm
Package quantity	5 off	5 off	5 off
Hasselfors size No.	3/4"	5/8"	1/2"
Normal wire-dia.	10mm	8mm	7mm



Part No.	SC-20120	SC-20130	SC-20140
Size	7/16"	3/8"	5/16"
Dia. body	21mm	18mm	15mm
Locking pin dia.	2.9mm	2.4mm	2.4mm
Package quantity	5 off	5 off	5 off
Hasselfors size No.	7/16"	3/8"	5/16"
Normal wire-dia.	6mm	5mm	4mm

for further information call 01489 570797

Loos Gauges



The new Professional Tension Gauge from Loos & Co.

- Increased Accuracy
- Marine & industrial applications
- Remains on wire while tension is adjusted

Part No	Description	Wire dia
LO-592-034	(Loos PT-1M)	2.5mm, 3mm, 4mm
LO-592-035	(Loos PT-2M)	5mm, 6mm, 7mm
LO-592-036	(Loos PT-3M)	7mm, 8mm, 10mm

NB Comes with a conversion chart for Loos models A & B (below)



Part No	Description	Wire dia
LO-592-031	Model A	2.5 - 4mm
LO-592-032	Model B	5 - 7mm

The new Rod Rigging Tension Gauge from Loos & Co.

At last, an easy to use, inexpensive gauge to measure tension in rod rigging.

- Accurate to within $\pm 5\%$
- Marine and other structural applications
- Remains on rod while tension is adjusted

Part No	Description	Rod dia
LO-592-039 (Loos RT-10M)		.172" (4.4mm)
		.198" (5mm)
		.225" (5.7mm)
		.250" (6.3mm)
		.281" (7.1mm)
LO-592-040 (Loos RT11M)		.281" (7.1mm)
		.330" (8.4mm)
		.375" (9.5mm)

Tip: To ensure accurate, repeatable settings, attach the rig gauge away from terminals and in the same position each time



Tip: Laminated sails shrink over time, requiring less mast bend than when new. Adjust rig tension to suit the sail shape, not just to a set of numbers

Mast Rungs

Mast Rungs

Mastwalker™ FOLDING MAST RUNG

- Immensley Strong - takes over 318kg (700lb) tip load
- Neat appearance - folds flat to mast when not in use
- Snag-free design - halyards cannot foul on the folded rung
- Low windage
- Rattle proof
- Solid alloy construction
- Lifetime guarantee

Uses:

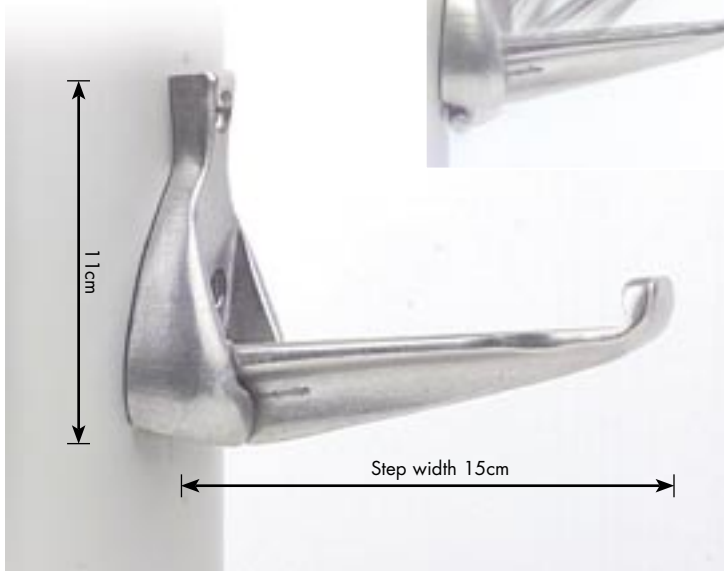
- Full set for climbing mast
- Footrests near masthead or spreaders
- Between gooseneck & deck level for mainsail attachment
- On transom to aid in recovery of swimmers

Remember: Always use a safety harness when working aloft.

Rung Size: 15cm x 3.5cm
Bracket: 11cm x 7cm x 2.4cm
Weight: 250g
Material: Almag 35 aluminium alloy
Fastenings: 4 off 6mm c/sunk SS machine screws

Type D fits many standard mast sections
Template and selection chart available

CODE	DESCRIPTION
MW508-192	Type A
MW508-183	Type B
MW508-184	Type C
MW508-185	Type D
MW508-185-02	Type D Retail Pack
MW508-186	Type E
MW508-187	Type F



for further information call 01489 570797

Mast Rungs

Other Uses:

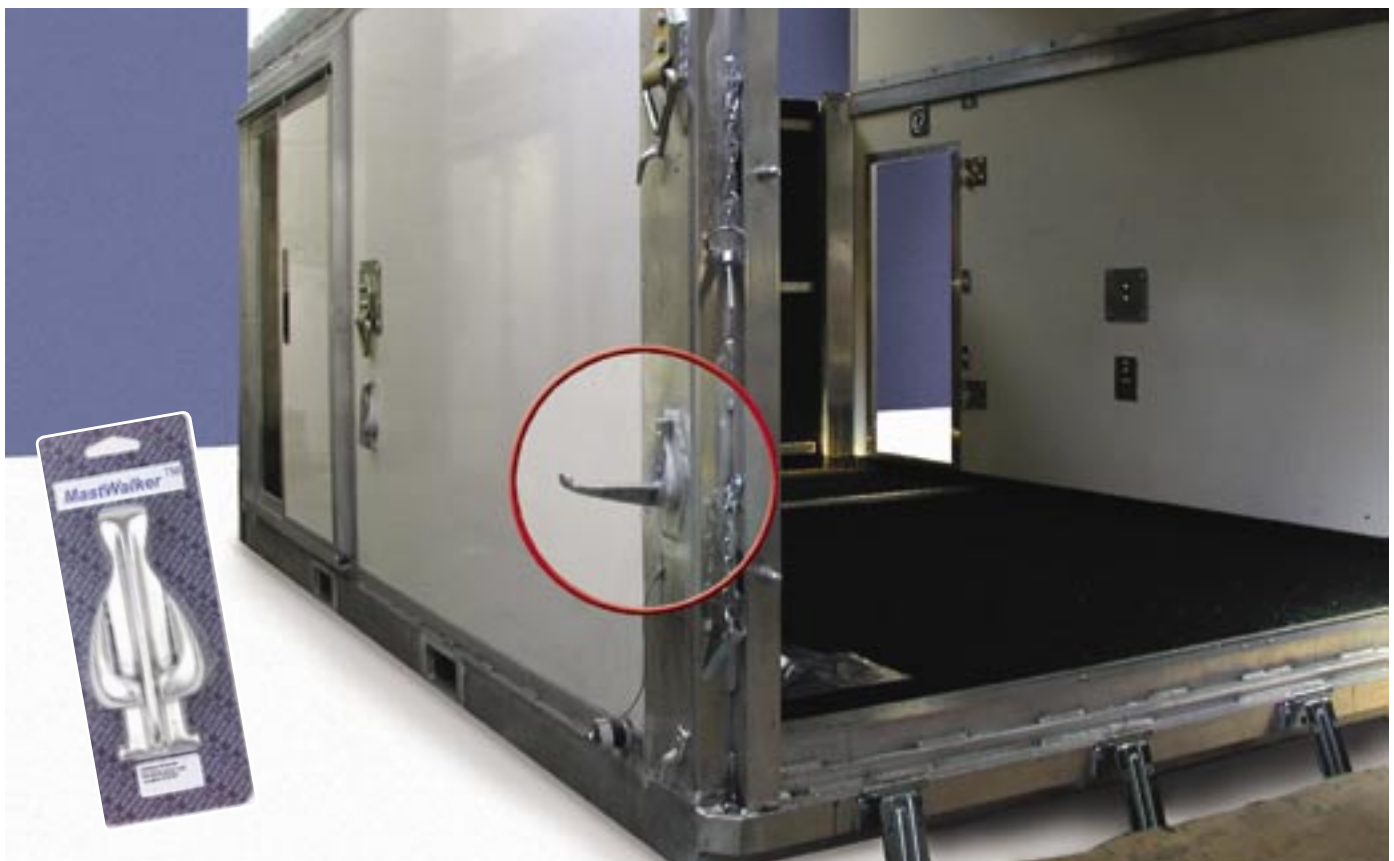
- ▶ Fitted to off road vehicles - access roof luggage racks
- ▶ Telecommunication masts
- ▶ Horse boxes (see photo)
- ▶ The list is endless...!

Questions and Answers:

- Q** Won't they rattle when the engine is running?
- A** No – an adjustable nylon set screw in the rung provides a friction fit against your mast profile.
- Q** Surely a closed loop rung is safer?
- A** True - MastWalker is not intended to replace them but to offer greater security aloft to yachtsmen/ women who would not otherwise fit mast rungs.
- Q** How many?
- A** Spacing will depend upon the agility and leg length of the intended users. It recommended to fit the rungs between 40-50cm (16 - 20") apart.

The uppermost rungs should be approximately 140cm (55") below the masthead. Calculate the mast height above the gooseneck; deduct 140cm and divide the remaining length by 40 - 50cm and deduct 1 rung for each set of spreaders to arrive at the required number.

- Q** How are they fitted to the mast?
- A** Using 3 x 6mm c/s machine screws. (Use 12mm long maximum on standard extrusions).
- Q** Can MastWalker be riveted to the mast?
- A** Yes, it can but the two lower holes would need to be drilled at a slight angle (approx. 5°) to allow the rivet gun clear access.
- Q** What are MastWalkers made from?
- A** LM25 - a lightweight, high-strength casting alloy.
- Q** Why aren't they anodised?
- A** Two reasons; firstly because the moving rung could then damage the mast's anodising and secondly because LM25 is extremely corrosion resistant.



Ropes

Ropes

PolyRopes is the largest manufacturer of yacht and commercial rope in Scandinavia. Here is a selection from their extensive range. Please ask for their brochure if more detailed information is needed.

Trimline Dinghy-XL

A heat-set 16-braid polyester filament rope used by dinghy sailors for control and trim lines.



DIA	REEL (M)	BREAK LOAD KG	WHITE & RED	RED	BLUE	YELLOW	LIME
3	100	160	P-28-09030	P-28-02030	P-28-06030	P-28-04030	P-2805030
4	100	360	P-28-09040	P-28-02040	P-28-06040	P-28-04040	P-2805040
5	100	440	P-28-09050	P-28-02050	P-28-06050	P-28-04050	P-2805050
6	100	580	P-28-09060	P-28-02060	P-28-06060	P-28-04060	P-2805060

Polysoft

A 3-strand pp multi-filament that is soft yet strong. Good uv resistance, does not absorb water. Uses include fender lines, calving ropes and lightweight, temporary mooring lines.

DIA	REEL(M)	BREAK LOAD KG	BLUE	WHITE	NAVY
6	185	550	P-25-06060	P-25-09060	
8	150	870	P-25-06080	P-25-09080	
10	220	1300	P-25-06100	P-25-09100	P-25-66100
12	165	1860	P-25-06120	P-25-09120	P-25-66120
14	110	2560	P-25-06140	P-25-09140	P-25-66140
16	85	3250	P-25-06160	P-25-09160	P-25-66160
18	110	4130	P-25-06180	P-25-09180	P-25-66180

Multibraid

An 8-braided mooring/anchor rope of soft and flexible polyester filament.

DIA	REEL(M)	BREAK LOAD KG	WHITE
12	165	2980	P-47-09120
14	110	4000	P-47-09140
16	85	5300	P-47-09160
18	110	6400	P-47-09180

Larger sizes available to order

Polyester Superior

100% High Tenacity 3-strand polyester giving excellent handling properties and abrasion resistance.

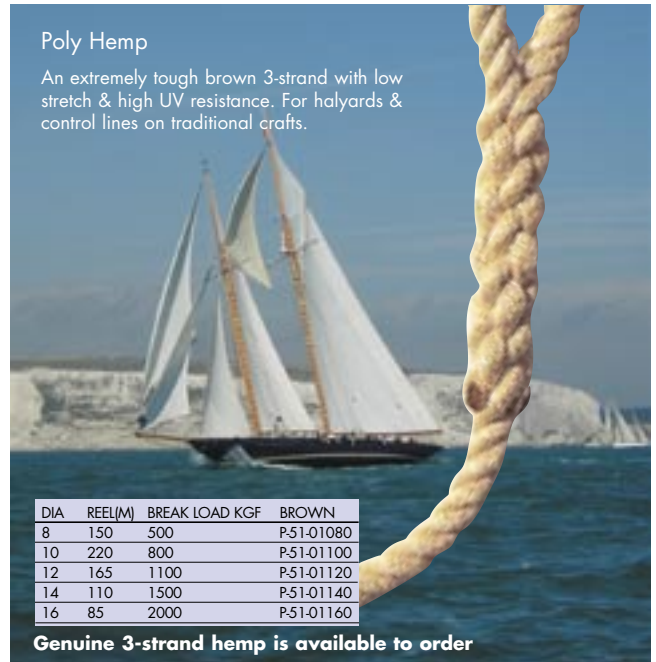


DIA	REEL (M)	BREAK LOAD KG	WHITE	BLACK
6	250	665	P-04-09060	P-04-10060
8	150	1030	P-04-09080	P-04-10080
10	220	2000	P-04-09100	P-04-10100
12	165	2900	P-04-09120	P-04-10120
14	110	3700	P-04-09140	P-04-10140
16	85	5300	P-04-09160	P-04-10160
18	110	6400	P-04-09180L	P-04-10180L
20	110	7300	P-04-09200	P-04-10200
22	110	8830	P-04-09220	P-04-10220
24	110	10300	P-04-09240	P-04-10240

Available to order in 26mm, 28mm & 32mm

Poly Hemp

An extremely tough brown 3-strand with low stretch & high UV resistance. For halyards & control lines on traditional crafts.



DIA	REEL(M)	BREAK LOAD KG	BROWN
8	150	500	P-51-01080
10	220	800	P-51-01100
12	165	1100	P-51-01120
14	110	1500	P-51-01140
16	85	2000	P-51-01160

Genuine 3-strand hemp is available to order

Nylon

Top-quality nylon filament - very good abrasion resistance. Excellent resilience for shock loads.



DIA	REEL (M)	BREAK LOAD KG	WHITE
10	220	2000	P-07-09100
12	165	2900	P-07-09120
14	110	3700	P-07-09140
16	85	5300	P-07-09160
18	110	6700	P-07-09180
20	110	8300	P-07-09200

Available to order in 24mm to 40mm

for further information call **01489 570797**



Ropes

PolyBraid 16

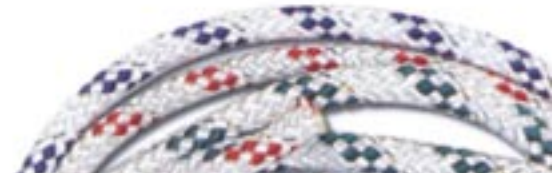
16 braid polyester - easy to splice - suitable for halyards, sheets, etc.



DIA	REEL (M)	BREAK LOAD KG	RED	YELLOW	GREEN	BLUE	WHITE
6	185	800	P-73-02060	P-73-04060	P-73-05060	P-73-06060	P-73-09060
8	150	1500	P-73-02080	P-73-04080	P-73-05080	P-73-06080	P-73-09080
10	220	2100	P-73-02080	P-73-04080	P-73-05080	P-73-06080	P-73-09080
12	165	2700	P-73-02120	P-73-04120	P-73-05120	P-73-06120	P-73-09120
14	110	3800	P-73-02140	P-73-04140	P-73-05140	P-73-06140	P-73-09140
16	85	5000	P-73-02160	P-73-04160	P-73-05160	P-73-06160	P-73-09160

PolyBraid 24

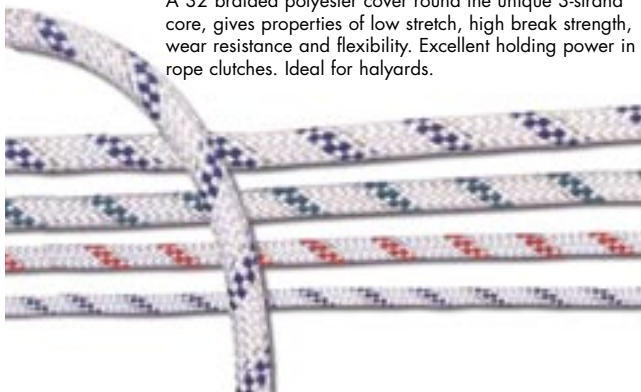
24 braid on braid polyester hard wearing sheet or halyard rope Solid White or Blue, Red, Green, Yellow fleck



DIA	REEL (M)	BREAK LOAD KG	RED	YELLOW	GREEN	BLUE	WHITE
6	185	950	P-83-02060	P-83-04060	P-83-05060	P-83-06060	P-83-09060
8	150	1600	P-83-02080	P-83-04080	P-83-05080	P-83-06080	P-83-09080
10	220	2200	P-83-02080	P-83-04080	P-83-05080	P-83-06080	P-83-09080
12	165	2900	P-83-02120	P-83-04120	P-83-05120	P-83-06120	P-83-09120
14	110	4100	P-83-02140	P-83-04140	P-83-05140	P-83-06140	P-83-09140
16	85	5300	P-83-02160	P-83-04160	P-83-05160	P-83-06160	P-83-09160

PolyBraid 32

A 32 braided polyester cover round the unique 3-strand core, gives properties of low stretch, high break strength, wear resistance and flexibility. Excellent holding power in rope clutches. Ideal for halyards.

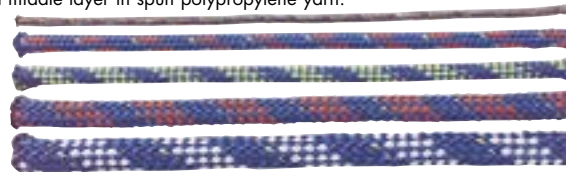


DIA	REEL(M)	BREAK LOAD KG	RED FLECK	BLUE FLECK	GREEN FLECK
8	150	1800	P-81-02080	P-81-06080	P-81-05080
10	220	2500	P-81-02100	P-81-06100	P-81-05100
12	165	3300	P-81-02100	P-81-06100	P-81-05100
14	110	4300	P-81-02140	P-81-06140	P-81-05140
16	85	5800	P-81-02160	P-81-06160	P-81-05160
18	110	7500	P-81-02180	P-81-06180	P-81-05180
20	85	8550	P-81-02200	P-81-06200	P-81-05200

Yellow and Green available to order

Dyneemic 2002

A 32-Braided yacht rope for the discriminating regatta sailor. Manufactured with a centre core of 100% Dyneema SK-75 and a middle layer in spun polypropylene yarn.



DIA	REEL(M)	BREAK LOAD KG	BLUE/RED	BLUE/YELLOW	BLUE/WHITE
8	150	3600	P-91-62080	P-91-64080	P-91-69080
10	110	4750	P-91-62100	P-91-64100	P-91-69100
12	165	6300	P-91-62120	P-91-64120	P-91-69120
14	110	8700	P-91-62140	P-91-64140	P-91-69140
16	85	10000	P-91-62160	P-91-64160	P-91-62160

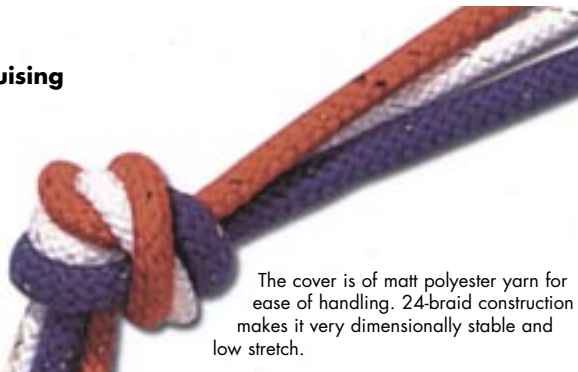
Dyneemic 2002 E/R

A 32-Braided rope for the dinghy and one-design sailor. With a core of 100% Dyneema SK-75

DIA	REEL(M)	BREAK LOAD KG	BLUE/RED	BLUE/YELLOW	BLUE/WHITE
3	100*	515	P-91-62030	P-91-64030	P-91-69030
4	100*	740	P-91-62040	P-91-64040	P-91-69040
5	100*	1015	P-91-62050	P-91-64050	P-91-69050
6	100*	2000	P-91-62060	P-91-64060	P-91-69060
1.6	500	130	P-91-19016 (grey only)		

*Longer reel lengths available to order

Cruising



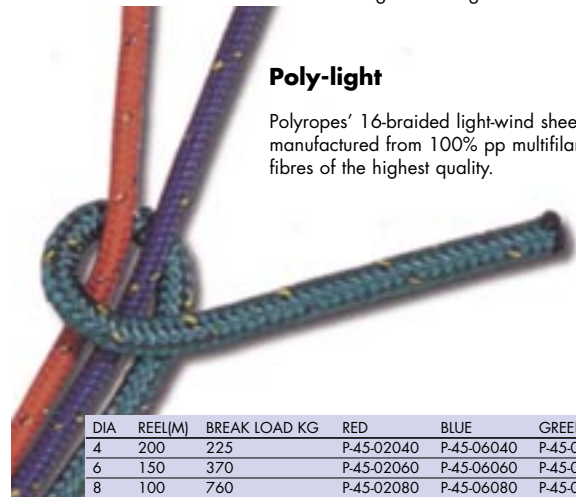
The cover is of matt polyester yarn for ease of handling. 24-braid construction makes it very dimensionally stable and low stretch.

DIA	REEL (M)	BREAK LOAD KG	SOLID RED	SOLID BLUE	WHITE
6	185	570	P-63-02060	P-63-06060	P-63-09060
8	150	1200	P-63-02080	P-63-06080	P-63-09080
10	220	1700	P-63-02100	P-63-06100	P-63-09100
12	165	2300	P-63-02120	P-63-06120	P-63-09120
14	110	2900	P-63-02140	P-63-06140	P-63-09140

Yellow and Green available to order

Poly-light

Polyropes' 16-braided light-wind sheet is manufactured from 100% pp multifilament fibres of the highest quality.



DIA	REEL(M)	BREAK LOAD KG	RED	BLUE	GREEN
4	200	225	P-45-02040	P-45-06040	P-45-05040
6	150	370	P-45-02060	P-45-06060	P-45-05060
8	100	760	P-45-02080	P-45-06080	P-45-05080

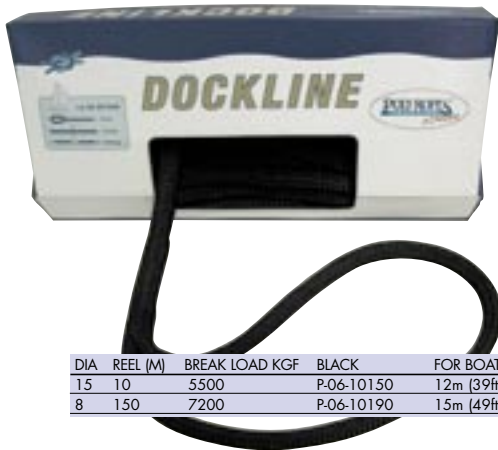
Note: see pricelist for a full list of part numbers.

Ropes

Ropes

Braided Dockline - Black

A double-braided mooring rope constructed with a smooth yet durable polyester cover and a braided polyamide core. One end is whipped, the other has a 40cm spliced eye.



DIA	REEL (M)	BREAK LOAD KGF	BLACK	FOR BOATS UP TO
15	10	5500	P-06-10150	12m (39ft)
8	150	7200	P-06-10190	15m (49ft)

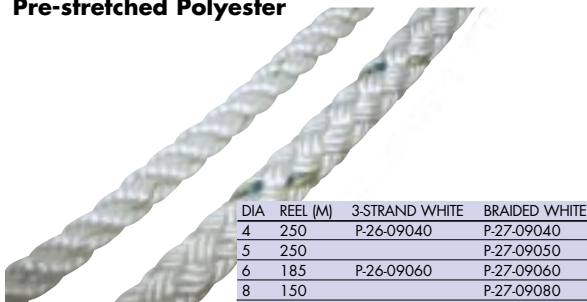
Shock Cord

White shock cord offers 100% extension
Blue shock cord offers 150% extension
(ideal for runners, pole retractors, etc)



DIA	REEL (M)	WHITE	BLUE
3	100	P-69-09030	
4	100	P-69-09040	P-69-06040
5	100	P-69-09050	P-69-06050
6	100	P-69-09060	P-69-06060
8	100	P-69-09080	P-69-06080
10	100	P-69-09100	

Pre-stretched Polyester



DIA	REEL (M)	3-STRAND WHITE	BRAIDED WHITE
4	250	P-26-09040	P-27-09040
5	250		P-27-09050
6	185	P-26-09060	P-27-09060
8	150		P-27-09080

Rope Display Stand

Increase your rope sales
Compact design - creates more selling area
Fast replacement of reels
- save time and hassle



Bannister Fittings

Polished solid brass



FITTINGS	PART NO.
End Fitting	P-99-00100
End Fitting with ring	P-99-00101
End fitting with piston	P-99-00102
End fitting with piston hook	P-99-00104
Wall fitting for hook	P-99-00112



Bannister Rope

4-strand 100% hemp. Order by the metre

36mm P-4101360



Sailmakers Ropes

Whipping Twine

Waxed polyester



DIA	REEL (M)	COLOUR	PART NO.
1	25	White	P-05-09010
1	25	Blue	P-05-10010

Leechline - Dyneema®

32-braid polyester cover 100% Dyneema core



DIA	REEL (M)	BREAK LOAD Kg	BLUE
2.5	250	450	P-91-09025
2.5	500	450	P-91-09025L
3	250	515	P-91-09030
3	500	515	P-91-09030L
4	250	740	P-91-09040
4	500	740	P-91-09040L

Braided Polyester

A strong, general purpose polyester rope.

DIA	REEL(M)	BREAK LOAD KGF	WHITE
2	500	96	P-29-09020
2.8	200	184	P-29-09028
4	200	405	P-29-09040
5	200	520	P-29-09050
6	200	695	P-29-09060
7	200	1100	P-29-09070
8	200	1700	P-29-09080

Available to order in Black



Webbing - Polyester

A tough, durable 25mm webbing in a variety of colours with your company logo woven into the fabric. Minimum order 3000m. Call for a quotation



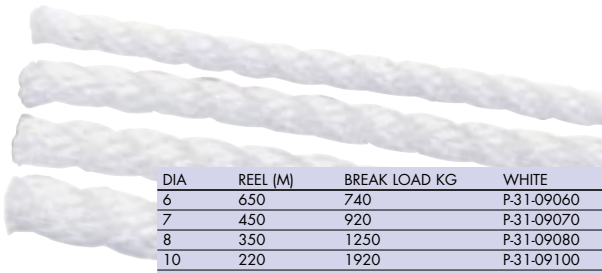
Ropes

Sailmakers Ropes

PolyRopes are constantly developing their sailmaker's range, which is too large to include here. Please call us for more details.

Bolt Rope

A 3-strand PE rope giving consistent diameter, low compressibility & low shrinkage at low cost.



DIA	REEL (M)	BREAK LOAD KG	WHITE
6	650	740	P-31-09060
7	450	920	P-31-09070
8	350	1250	P-31-09080
10	220	1920	P-31-09100

Dynex 75

100% SK-75 braided Dyneema with PU coating for a light, compact strand high-load rope



DIA	REEL (M)	BREAK LOAD KG	PART No
3	100	1400	P-95-08030
4	100	2000	P-95-08040
5	100	3150	P-95-08050
6	100	4500	P-95-08060
8	100	7000	P-95-08080

Larger diameters available to order

Splicing Kits

Stainless steel for the professional rigger. Plastic version offers quick, easy splicing for all.

Kit B



Kit A



Swedish Fid



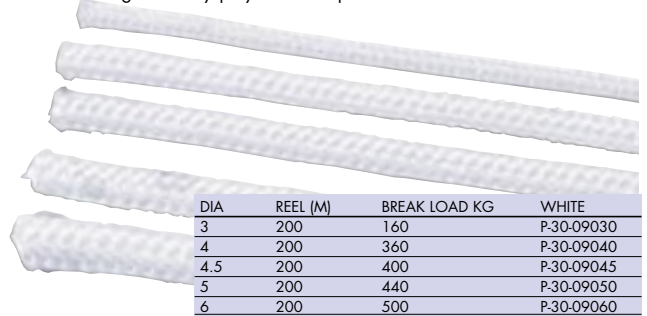
PART No.	Description
P-99-00175	Splice Kit A Stainless Steel
P-99-00180	Splice Kit B Plastic
P-99-00185	Swedish Fid 170mm
P-99-00190	Swedish Fid 265mm

Note: see pricelist for a full list of part numbers.

PolyRopes are constantly developing their sailmaker's range, which is too large to include here. Please call us for more details.

Leechline

16-braid High Tenacity polyester with parallel core for low stretch



DIA	REEL (M)	BREAK LOAD KG	WHITE
3	200	160	P-30-09030
4	200	360	P-30-09040
4.5	200	400	P-30-09045
5	200	440	P-30-09050
6	200	500	P-30-09060

Hot Knife

Fast, clean cutting of most synthetic ropes



Spare blade

PART No.	Description
P-99-01600	Hot Knife
P-99-01700	Spare blade





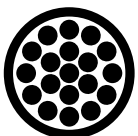
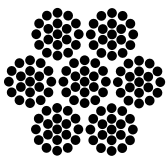
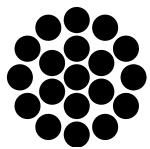
for further information call 01489 570797

HMC Wire

HIGH GRADE STAINLESS STEEL RIGGING WIRE

HMC was initially used exclusively by leading sparmakers Seldén of Sweden. Because of the critical importance of quality in yacht rigging, top specialists demand exceptionally high standards in every component they use. The rigging wire is of course one of the most critical of all, hence their decision to specify only HMC.

Type	Size	Part No.	Mass approx kg/100m	Minimum breaking strain. kgf	Min. rec. sheave mm
1 x 19	3mm	HM-601-001	4.39	706	-
	4mm	HM-601-002	7.81	1260	-
	5mm	HM-601-003	12.20	1960	-
	6mm	HM-601-004	17.60	2820	-
	7mm	HM-601-005	23.90	3480	-
	8mm	HM-601-006	31.20	4550	-
	10mm	HM-601-008	48.80	7110	-
	12mm	HM-601-009	70.30	10200	-
7 x 19	3mm	HM-602-001	3.34	510	48mm
	4mm	HM-602-002	5.94	908	64mm
	5mm	HM-602-003	9.29	1420	80mm
	6mm	HM-602-004	13.40	2040	96mm
	7mm	HM-602-005	18.20	2785	112mm
1 x 19	4/6mm	HM-601-011	9.25	1260	-
	PVC Coated 5/8mm	HM-601-012	14.70	1960	-
	Guard Rail Wire				



On the world's oceans HMC has more than lived up to expectations. The remarkable voyage of the 40ft steel ketch Northern Light included some of the harshest conditions to be found on the planet. Despite severe storms, the searing heat of the Tropics, and a ferocious Antarctic winter, her HMC rigging performed faultlessly, for over 30,000 miles.

Hauling & Lifting Winches

Goliath Winches



Recent design advances have resulted in greater strength and durability for the Goliath winch range. In co-operation with leading materials handling specialists, Goliath engineers have made changes which significantly lessen wear in key components, leading to reduced down-time for service or parts replacement.


The versatile automatic braking range now offers winches with a lifting capacity from 140kg to 1700kg. All are CE marked and the AF range have TUV Security accreditation, including stainless steel models.

05-50601

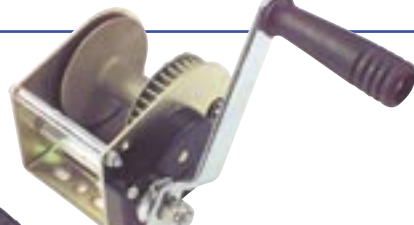


Manual Winches


CODE	DESCRIPTION
05-50301	3N1 425kg Single Speed Winch
05-50501	5N1 575kg Single Speed Winch
05-50601	6N1 650kg Single Speed Winch
05-50701	7N1 750kg Single Speed Winch
05-50901	9N1 985kg Single Speed Winch
05-50907	9N1F 985kg Single Speed Winch c/w Hand Brake
05-51201	12N2 1200kg Two Speed Winch
05-51207	12N2F 1200kg Two Speed Winch c/w Hand Brake
05-51601	16N2 1600kg Two Speed Winch
05-51607	16N2F 1600kg Two Speed Winch c/w Hand Brake
05-52507	25N3F 2300kg Three Speed Winch c/w Hand Brake



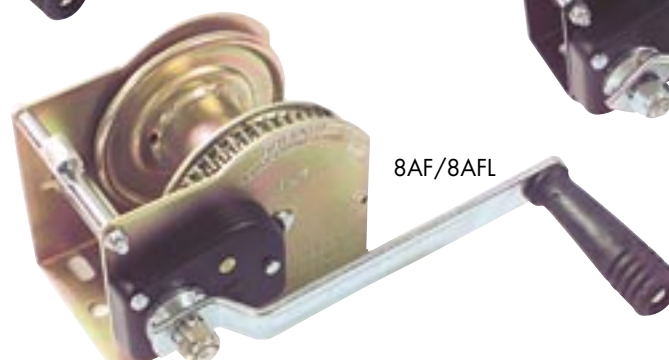
6AF/6AFL




4AF/AFL



4AFM



8AF/8AFL



12AF/12AFL

	4AFM	4AF/4AFL	6AF/6AFL	8AF/8AFL	12AF/12AFL	30AF**
+Hauling power Kg	450	460	600	800	1300	3700
Lifting power Kg	170	190	240	300	500	1700
Dimensions mm	125x105x95	125x145x95	160x155x130	200x155x170	210x190x170	300x170x240
Weight Kg	2.6	2.6	3.6	5.5	7.3	13.7
Transmission ratio	1:2.57	1:2.57	1:3.5	1:4.85	1:9.71	1:21.8
Drum diameter mm	30	40	50	60	76	80
Handle length mm	160	160	200	200	250	290
Rec. wire size*	3mm x 8m	4mm x 10m	5mm x 13m	6mm x 16m	7mm x 10m	9mm x 20m

+ Loads are calculated on a 30 degree ramp (handle load is based on a power of 20 kg)

PART No.						
Standard AF Winch	G5-54423	G5-54422	G5-54613	G5-54817	G5-55123	G5-33001
Standard AFL Winch				G5-54601	G5-54818	G5-55121
Stainless Steel Winch	G5-54418	G5-54419	G5-54612	G5-54816	G5-53119	

* Drums suitable for webbing belt are available if required - please specify when placing orders

for further information call **01489 570797**



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