



SoluzioniTessili  
RIGGING



PERFORMANCE

## ABOUT US

From an initial loads analysis, all the way through to after sales service operations, we specialize in all stages of a running rigging project, whether it is for a performance cruiser, luxury yacht or grand-prix racer.

We believe that the key factors to a project's success lie in its initial stages, which is why we work alongside her owner, captain, designer, mast sail maker as a team and getting involved in the decision making to make sure all technical aspects of the separate areas are well blended together.

This means you'll only get ropes which are tailor made to meet your and your yacht's specific needs.



Continuous technical research, superior craftsmanship and seamless efficiency are an inherent part of our work process. State of the art solutions and swift delivery are the results.

By working with Soluzioni Tessili Rigging, you can rest assured that you'll get products you can trust and the peace of mind of having a specialized team of expert technicians and craftsmen that have your back in every phase of your projects.

# PARTNERS

## ARMARE

We're proud of our long-standing partnership with Armare, a family business which has been at the forefront of rope-design since 1992.



Their 4,000 m2 loft, located in San Giorgio di Nogaro, Italy, is where Armare's accomplished team of rope experts twist, strand, braid, splice, test and hand-finish ropes to the highest standard of quality. A thorough understanding of the grand-prix racing market, two decades of design evolution and the continuous investment in top-talent have put Armare on the international map. What's more, the company offers custom-finished ropes by means of unique processes which set the industry benchmark.

## HARKEN

Soluzioni Tessili is a Harken Authorized Service provider. Harken can pride itself on being the leading manufacturer of sailboat hardware and accessories worldwide.

Their blocks, travelers, winches and hydraulics are used at the globe's most prestigious racing events (such as the America's Cup, the Volvo Ocean Race and the Olympics) and onboard everything from the smallest dinghies to the largest mega yachts.



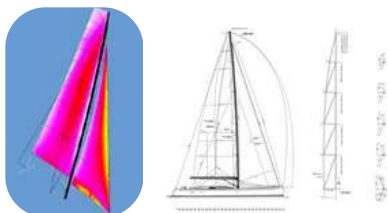
Brands we distribute and work with:

Close collaboration with different industry leading brands allows us to work alongside the top designers and engineers, cover a vast array of different boats and systems, as well as to guarantee the highest standards of quality.





# WORK PROCESS



## PREPARATION

A project starts with the analysis of all parts that rely on a yacht's running rigging. We collect in depth data from sail makers, mast makers and shipyards, to name but a few, and combine these findings with our experience and technical know how. This synergistic phase doesn't only put us a cut above the competition but ensures you get top performing ropes, and in accordance with their exact need and function.

## PRODUCTION

Production starts once a rope's ideal length, core, cover, color and finish have been determined. Our long standing partnership with Armare Ropes means that we work with top level fibres and customized product lines. By adding superior craftsmanship and meticulous attention to detail to the mix we ensure a delivery of ropes that perform as they were designed to, and are great looking to boot.



## DELIVERY ON BOARD

The mounting and tuning of our products is a highly delicate operation which is why we remain involved after delivery. Our experienced team members and/or network of professional rigging partners will be on site to ensure a flawless installation which, in turn, will result in an unsurpassable performance level.

## FOLLOW-UP

We believe safety to be of paramount importance. Over the years we have developed a database (incorporating factors such as time, weather conditions and yacht use) which helps us pinpoint when a product's performance may start to decline. Moreover, through NFC Microchip technology we can offer clients real time information and are able to trace each product individually. Quality after sales service has never been more long lasting.



# PERFORMANCE

The main challenge one faces when approaching a new project, is the amount of different variables that come into play, such as:

- The deck arrangements and hardware
- Sails and materials
- Style of navigation (Race, cruise, offshore...)
- Mast material, manufacturer and hardware
- Owner's desires vs. technical possibilities
- Budget

It is not always easy to determine the best compromise between these variables, but thanks to our more than 10 years of experience, technical knowledge and close collaborations with the leading companies in the industry we are able to gather all the necessary information to develop the best solution for each particular scenario.

Designer/yard's specs				Mast Maker's specs								Sail Maker's Specs			
Principal Dimension	Note	Units		Rigging Load	Qty	Normal Wl (kg)	Extrem Wl (kg)	Minimum Wl (kg)	Rod Size Equivalent	Minimum EA (MN)	Length (m)	Sail	Note	Unit	Sail Area
Mast Height		(m)	35,000	V 1	2	12402	16340	32681	-76	44,3	9,633	Main	full	[m <sup>2</sup> ]	208
Rake		(dag)	5,5	V 2	2	9603	12312	24625	-60	39,1	7,748		1 <sup>st</sup> Reef	[m <sup>2</sup> ]	171
Mast-Halyards winch		(m)	3,000	V 3	2	7376	9445	18890	-48	28,4	8,284		2 <sup>nd</sup> Reef	[m <sup>2</sup> ]	132
P		(m)	32,800	D 1	2	5648	6861	14119	-40	22,1	9,751		3 <sup>rd</sup> Reef	[m <sup>2</sup> ]	75
E		(m)	10,250	D 2	2	7271	4341	10677	-30	16,8	7,984	Jib		[m <sup>2</sup> ]	183
I		(m)	33,200	D 3	2	2846	3014	7116	-22	12,1	8,294	Jib 80%		[m <sup>2</sup> ]	143
J		(m)	9,850	D 4	2	7447	9531	19062	-48	28,4	7,886	Stay sail		[m <sup>2</sup> ]	73
I Stay Sail		(m)		Headstay	1	10000		25000	-60	39,1	34,893	Code 0		[m <sup>2</sup> ]	275
I Stay Sail		(m)		StaySail	1	6200		22320	-49	20,1	25,889	Gennaker		[m <sup>2</sup> ]	500
BAS		(m)	2,445	Top Mast Beackstay	1	5738		14345	-40	22,1	25,531	Line Wear			
Chainplate% windht		(m)	2,898	Backstay Bridles	2	3012		7531	-22	12,1	13,404	WINCH Friction Factor	Depends on winch grip		
Chainplate sweep		(deg)	25	Checkstay	2	3065		11036	-55	7.8	27,489	JAMMER Wear Factor	Depends on Jammer load		
# Spreaders			3									Speed Factor	Depends of eased speed		
RM @25deg		(kgm)	38031									Cover Weakness	Depends of the cover material		
												UV weakness	Depends of the cover material		

Above there's an example of the data and criteria we gather from the various sources and critical aspects we analyze to determine the best outcome.

## CORE TECHNOLOGY

We have handpicked the materials that we consider the most efficient for the nautical industry and worked in developing, alongside our rope making partners, the best combinations of construction parameters to produce light, strong and balanced cores that are also easy to work with.

Here below is a brief description of their main characteristics:

DYNEEMA® (UHMPE) is without a doubt the material with the highest strength/weight ratio on the list. This light-weight polymer fibre has a great resistance to fatigue, abrasion and UV rays. It is ideal for all competitive sailors and it is also conveniently versatile, it comes in different grades and thanks to some special treatments we can improve its stiffness and durability to make it an interesting option for all kinds of boats.

- SK78 is the most common grade because it has a high breaking load, low water absorption, great flexibility and remains super light. It is very stable under constant loads and is not very susceptible to creep. The low friction coefficient makes it great for tackles and control lines even without a cover.

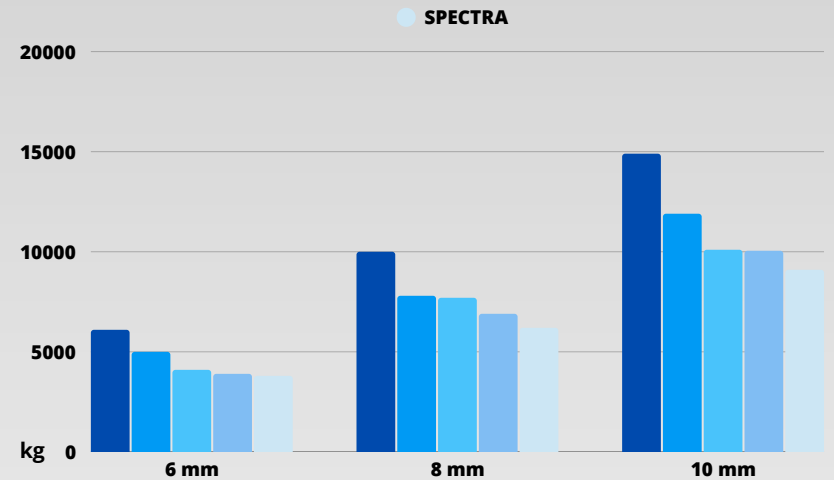
- SK99 is the highest grade of Dyneema currently available. It shows a 20% increase in tenacity and a 35% higher modulus than SK78 and it is especially designed for applications in which there's need for a very stiff, strong and light-weight solution, such as on sheets and halyards for the new generation of grand prix sails.

VECTRAN® has a great resistance to the effect of long term loads, that may cause permanent deformations of the fibres with time. This braids have almost zero creep for loads up to 50% their designed breaking load, making them ideal for static load applications like steering line systems and guys. Unfortunately it is much more sensible to UV light.

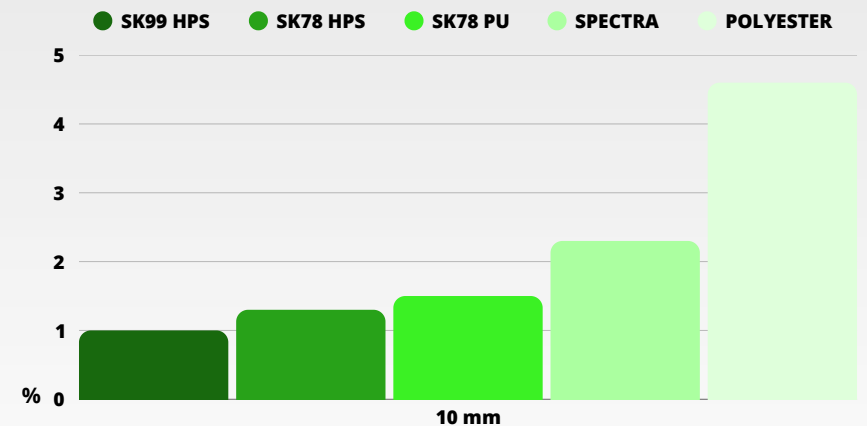
SPECTRA® (HMPE) is a close relative of Dyneema, although not quite as high-performing. Still it has very interesting strength/weight ratio and a very decent stiffness, with a more accessible price, which makes it the most interesting alternative for sailors who would like an alternative from those high-performance braids. This is why it is so common on our performance-cruising lines.

POLYESTER has been used to build ropes for many years now and it is still one of the most common materials used on cruising boats where there's not always the need for stiff and light ropes. It is easy to work with, its softness makes it comfortable to handle and it is easy to splice and work with. Although it is not as stiff as the other fibres, it still has a very decent strength/weight ratio.

CORE STRENGTH FOR DIFFERENT DIAMETERS



ELONGATION AT 30% OF B.L. (CORE + COVER)



- Load-elongation tested after 10 load-cycles at 20% of declared B.L.

# CORE SPECIAL TREATMENTS

We offer different core treatment options that modify the fiber’s characteristics according to the specific final purpose, making them even more versatile.

## POLYURETHANE COATINGS

Polyurethane improves abrasion resistance and increases the fibre’s consistency and texture, it is specially recommended for those applications where the braids aren’t protected by a cover. The braids become more compact, they suffer less the compression under load and therefore they preserve their “roundness” better. It also makes them easier to handle and work with in case they require to be spliced or laboured in some other way.

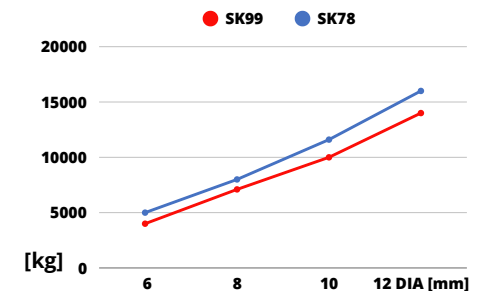
Coatings are available in a wide range of colours.



## HPS TREATMENT

It stands for «Heat Pre-stretch Setting» and it increases the braid’s strength and stiffness. This process increases the rope’s modulus, reduces the initial elongations derived from production and leaves the fibres better aligned with the load axis, allowing to obtain the mechanical characteristics of a larger core but with a smaller diameter.

The ropes are lighter and the extra stiffness makes them handy for very precise trimming, which is why they are a must-have for racing boats.



## SHIELD COATING

This is an extra layer of protection for Dyneema cores, that is applied directly to the pure fibres. It increases the protection to UV rays, drastically reduces the friction between the fibres that may be caused by the effects of loading or bending around sheaves and increases the resistance to fatigue therefore extending the rope’s life.



## SCW CAPTIVE WINCH TREATMENT

The Stable Core Winch treatment was specifically designed for ropes working on captive winches, guaranteeing the complete adherence between core and cover even after many cycles of winding-unwinding around the drum and bending through sheaves and drive gears. This helps avoid the formation of slack between core and cover that can take to the laceration of the cover and damage to the core and also the winch. It requires specialized labour.



# MAIN COVER MATERIALS

## PBO-ZYLON® / DYNEEMA®

PBO is one of the strongest rope-making materials available. It increases abrasion resistance while Dyneema improves rope fluidity when eased. The best you can ask for on ropes that take on high loads and temperatures with aggressive easing and trimming. They are great as **runners tails, jib sheets and gennaker sheets** for GP racers



## TECHNORA® / DYNEEMA®

This carefully blended mix delivers a great balance between the abrasion resistance and low friction of Dyneema and the high friction and heat tolerance of Technora. The result is a hard-wearing, easy to handle rope that will endure the harsh treatment of those aggressive race winches. Mainly used for **runners tails, jib sheets and gennaker sheets**



## TECH/DYN/PET

By adding Polyester fibers to the previous blend we trade some ruggedness for versatility and an increased grip on stoppers. This cover is easily customizable thanks to the wide range of colors available. A great favorite amongst both pro and amateur racers, as well as for performance cruisers. It is especially good for **halyards, but works great also for sheets and furling lines.**



## KEVLAR® / DYNEEMA®

The combination of these fibers in appropriate proportions, makes for a top-quality cover. It's also a good alternative to a PBO/DYN cover if loads are lower but tight/ease cycles high in frequency. Tested while match-racing on high-caliber race boats these ropes have proven that the fiber's characteristics compensate each other perfectly. One thing to keep in mind is the sensibility of Kevlar to UV rays.



## KEV/DYN/PET

Although similar to TEC/DYN/PET, the KEV/DYN/PET mix is better suited for HIGH-load and HIGH-speed maneuvers where a lot of heat is generated from friction. Kevlar has a better heat resistance than Technora due to its higher melting point and possesses also a powerful grip. Very appreciated on jib and gennaker sheets, as well as for furling lines.



## CORDURA® / POLYESTER

Highly versatile and more durable than 100% PET covers thanks to the stronger CORDURA fibers that increase abrasion resistance and hence durability. Great grip on stoppers and lightweight, it is very popular amongst cruisers and casual racers who like to use it for **sheets, halyards and/or general running rigging.**



## POLYESTER

One of the most common materials used for cruising ropes. It has good abrasion resistance, grip on stoppers and excellent tolerance to the environment agents like sun and salt. Very easy to customize with various combinations of colors and patterns.



## SOFT BRAID COVERS

These covers are specially designed to be lightweight, flexible and with a great grip, in particular for those applications where you need to hold the rope by hand a lot. There are various different material blends to cater for a wide range of necessities. Their softness makes them a great option for **purchase systems, control lines and sheets for smaller boats.**



## 100% / DYNEEMA®

This is a light but very resistant cover. It protects the core from abrasion in those areas prone to chafing. Thanks to its low friction coefficient it helps the rope move with ease around blocks and deviations, in particular the areas close to the splices, keeping them slimmer too. Extremely versatile, it is used to **protect ropes, but also loops, strops, cables and a great variety of specialized gear.**



## 100% TECHNORA®

A very particular technical cover for particular uses. It is mostly used to improve the rope's grip or strength on a certain segment, like improving the hold on a stopper with ceramic jaws for a rope with a non-technical cover.





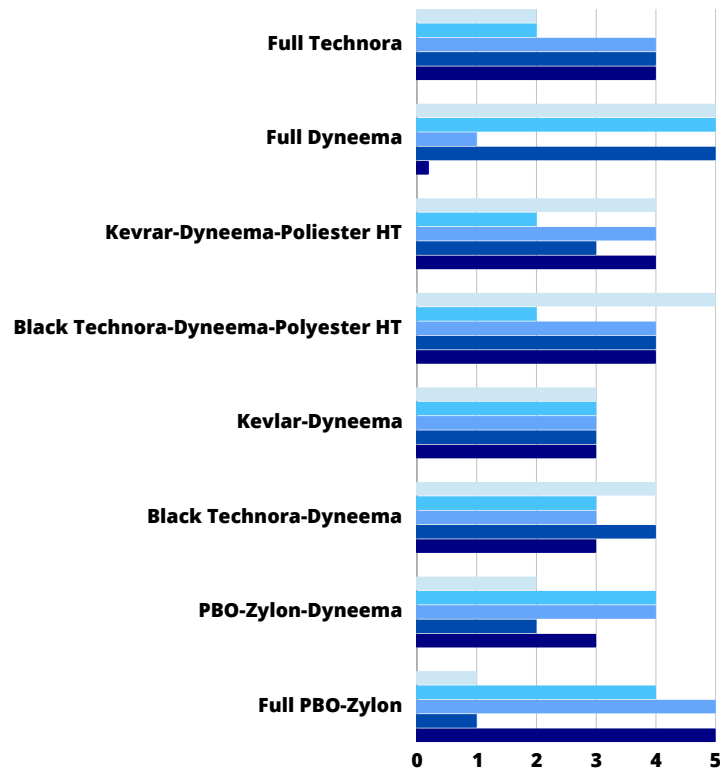
## WHICH COVERS PERFORM BEST?

Throughout the years we have researched and tested an extensive range of cover materials, both outdoors (in inshore and offshore sailing), as well as indoors on our test benches.

The key variables we focus on are the cover's exact purpose, the yacht's hardware and their interactions. Another important challenge is was finding the ideal balance between abrasion resistance and grip (STATIC and dynamic LOAD).

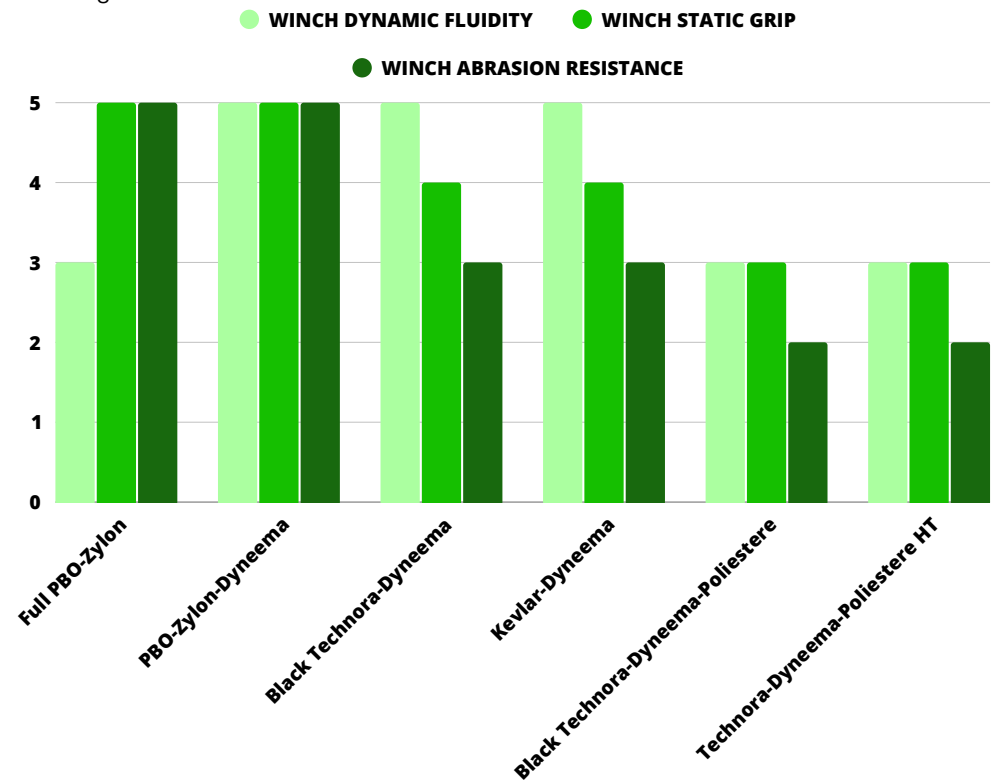
- ABRASION RESISTANCE
- GRIP
- WEIGHT
- UV RESISTANCE
- PRICE

- LOGEVITY
- CUT/SHARPE EDGE RAS...
- WEIGHT
- UV RESISTANCE
- CLUTCH-JAMMER PERF...



## GRIP: STATIC OR DYNAMIC?

Our in-depth research has resulted in the design and development of dedicated products, such as balanced blends of covers materials that allow ropes to be eased on a winch with fluidity while maintaining a powerful hold. The combined properties improve ease of use and reduce the amount of stress on the rig.



STATIC GRIP TEST



DYNAMIN FLUIDITY TEST

PBO Zylon + DYNEEMA cover tested at Soluzioni Tessili Rigging work bench

## COVER TREATMENTS

In order to further improve the cover fibre's performance we can apply special resin coatings. These act mainly as reinforcements and are especially recommended in those cases where there might be lower safety factors or high abrasion potential.

### POLYURETHANE COATINGS

Polyurethane improves abrasion resistance and increases the fibre's consistency and texture. Coatings are available in a wide range of colors.



### EPOXY ELASTIC COATINGS

This very special Epoxy based resin has great elasticity, so it doesn't crack if the applied subject is bent. Furthermore it greatly improves the abrasion resistance of Dyneema and PBO covers. The coatings are specifically designed for high-friction areas, such as the tip of sheets, life lines, bobstays and deflectors.



### LUBE COATING

Is a special finish for fibers, based on both wax and silicone emulsion used to help reduce the fiber-fiber friction or fiber-metal friction. This improves the abrasion resistance as well as the fatigue properties.

It also allows the application of other coatings on the finished rope, while still showing an improved abrasion performance.



# MAIN SPLICES AND FINISHES

We are specialized in all kinds of handcraft finishes, with a wide selection of different splicing and custom jobs to choose from depending on the rope materials and final use. Sometimes ropes require certain specific characteristics determined by external factors, such as deck hardware or boat designs and the solution is not always very evident.

This is when our creativity, attention to detail and expert craftsmanship come to play to deliver functional, but also aesthetically pleasing solutions.



DYNEEMA COVERED EYE



COVERED EYE SPLICE



STRIPPED EYE SPLICE



PRO STRIPPED EYE SPLICE



SUPERCABLE SPLICE



CONNECTION/TAPER



MACHINE TAPERING



DIAMETER INCREASE



SHORT-SHEET LOOP



HOIST MARKERS



PRO TAIL



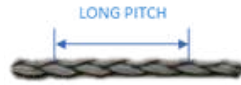
WHIPPING

# DYNEEMA® CORES

## SUPER PERFORMANCE 99 DYNEEMA® SK99SUPER + HEAT PRESTRETCHED + PU COATING

FEATURES		CORE		CORE + COVER	TEC/DYN	TEC DYN/PET	TEC/PET	KEV DYN/PET	CRD/PET	PET		
MATERIAL	DYNEEMA® SK99	Ø	BREAKING LOAD	WEIGHT	BREAKING LOAD	WEIGHT						
CONSTRUCTION	12 STRAND	[mm]	[kg]	[kg/m]	[kg]	[g/m]	[g/m]	[g/m]	[g/m]	[g/m]	[g/m]	
<b>TREATMENTS</b>	HEAT PRESTRETCH PROCESS	<b>LONG PITCH STRAND</b>	3	1.472	6,02	627	8,2	8,1	8,0	7,9	8,0	7,8
<b>FEATURES</b>	SUPER STRENGTH	GREY POLYURETHANE COATING	4	2.854	11,2	1.472	12,9	12,8	12,6	12,4	12,7	12,3
<b>APPLICATIONS</b>	STATIC & DYNAMIC	SUPER LOW ELONGATION	5	4.365	18,0	2.243	20,0	19,8	19,4	19,2	19,6	19,0
		HALYARDS, SHEETS, GUYS.	6	6.320	22,8	2.854	27,3	27,1	26,8	26,2	26,8	26,2
			7	8.236	29,9	3.568	39,9	39,5	39,2	38,6	39,2	38,6
			8	10.027	38,8	4.365	52,3	51,8	51,3	50,6	51,3	50,6
			9	12.687	48,1	6.320	63,0	62,4	61,9	61,0	61,9	61,0
			10	14.964	58,8	7.288	74,5	73,8	73,2	72,1	73,2	72,1
			11	16.814	62,0	9.123	91,4	90,5	89,7	88,4	89,7	88,4
			12	18.573	77,0	10.027	106,1	105,0	104,1	102,6	104,1	102,6
			13	22.607	95,2	10.398	124,3	123,2	122,1	120,4	122,1	120,4
			14	26.585	110,0	12.687	142,6	141,3	140,1	138,2	140,1	138,2
			15	30.581	129,0	14.964	165,8	164,3	162,9	160,5	162,9	160,5
			16	37.717	145,0	15.851	189,1	187,3	185,6	182,8	185,6	182,8
			18	43.527	180,0	18.573	222,7	220,6	218,7	215,3	218,7	215,3
			20	50.549	216,0	26.585	278,4	275,7	273,3	269,1	273,3	269,1

- BREAKING LOAD ★★★★★
- ELONGATION RESISTANCE ★★★★★
- CREEP ★★★★★☆
- FLEXIBILITY ★★☆☆☆



## SUPER PERFORMANCE 78 DYNEEMA® SK78SUPER + HEAT PRESTRETCHED + PU COATING

FEATURES		CORE		CORE + COVER	TEC/DYN	TEC DYN/PET	TEC/PET	KEV DYN/PET	CRD/PET	PET		
MATERIAL	DYNEEMA® SK78	Ø	BREAKING LOAD	WEIGHT	BREAKING LOAD	WEIGHT						
CONSTRUCTION	12 STRAND	[mm]	[kg]	[kg/m]	[kg]	[g/m]	[g/m]	[g/m]	[g/m]	[g/m]	[g/m]	
<b>TREATMENTS</b>	HEAT PRESTRETCH PROCESS	<b>LONG PITCH STRAND</b>	3	1.413	4,09	510	7,6	7,6	7,7	7,4	7,4	7,5
<b>FEATURES</b>	HIGH STRENGTH	GREY POLYURETHANE COATING	4	2.294	10,1	968	12,5	12,3	12,7	12,3	12,3	12,4
<b>APPLICATIONS</b>	STATIC & DYNAMIC	GOOD LOW ELONGATION	5	3.147	15,3	1.413	19,2	19,0	19,4	18,8	18,8	19,0
		HALYARDS, SHEETS, CONTROLS.	6	5.092	24,0	2.294	26,5	26,2	26,7	26,2	25,7	26,0
			7	6.524	31,1	2.721	38,8	38,2	38,9	38,2	37,6	36,0
			8	7.543	38,2	3.147	50,8	50,1	51,1	50,1	49,3	46,8
			9	9.904	51,1	5.092	61,3	60,4	62,0	60,4	59,4	60,0
			10	11.825	60,0	5.810	72,5	71,3	72,8	71,3	70,3	71,0
			11	13.354	77,0	7.094	88,8	87,5	88,1	87,5	85,0	87,0
			12	16.310	94,0	8.716	103,1	101,5	103,6	101,5	100,0	101,0
			13	18.124	110,0	9.904	121,0	119,0	121,3	119,0	116,9	116,9
			14	20.387	128,0	10.296	138,7	136,5	139,3	136,5	134,4	148,4
			15	23.445	144,0	11.825	161,3	158,8	162,0	158,8	156,3	164,2
			16	26.809	160,0	13.354	183,8	181,0	184,7	181,0	178,2	180,0
			18	32.008	200,0	16.310	216,5	213,2	217,5	213,2	209,9	211,0
			20	37.717	250,0	20.387	270,6	266,5	271,9	266,5	262,4	265,0

- BREAKING LOAD ★★★★★☆
- ELONGATION RESISTANCE ★★★★★☆
- CREEP ★★★★★☆
- FLEXIBILITY ★★☆☆☆





PLUS PERFORMANCE 78		DYNEEMA® SK78 + PU COATING										
		FEATURES	Ø	CORE		CORE + COVER	TEC/DYN	TEC DYN/PET	TEC/PET	KEV DYN/PET	CRD/PET	PET
MATERIAL	DYNEEMA® SK78		[mm]	BREAKING LOAD [kg]	WEIGHT [kg/m]	BREAKING LOAD [kg]	[g/m]	[g/m]	[g/m]	[g/m]	[g/m]	[g/m]
CONSTRUCTION	12 STRAND	MEDIUM PITCH STRAND	3	938	5,0	-	-	-	-	-	-	-
TREATMENTS	COLD PRESTRETCH PROCESS	GREY POLYERETHANE COATING	4	1.631	9,8	714	12,5	12,3	12,7	12,3	12,3	12,4
FEATURES	GOOD STRENGTH	GOOD ELONGATION RESISTANCE	5	2.854	14,4	968	19,3	19,3	19,5	18,9	18,9	19,1
APPLICATIONS	STATIC & DYNAMIC	LASHING, TACKLE, FURLING.	6	4.179	20,0	1.733	26,5	26,2	26,7	26,2	25,7	26,0
			7	6.218	27,0	2.650	38,2	37,7	38,5	37,7	37,6	38,0
			8	7.288	35,0	2.855	49,9	49,2	50,2	49,2	48,4	48,9
			9	8.257	46,0	4.179	60,1	59,3	60,5	59,3	58,4	59,0
			10	10.401	57,0	5.576	70,4	69,4	70,8	69,4	68,3	69,0
			11	12.339	61,0	6.218	85,8	84,5	86,2	84,5	83,2	87,0
			12	15.494	68,0	7.708	101,1	99,6	101,6	99,6	98,0	99,0
			14	18.202	78,0	9.327	136,6	134,6	134,6	134,6	132,5	133,8
			16	20.904	102,0	12.339	171,5	169,0	169,0	169,0	166,3	168,0
			18	24.484	126,0	15.494	187,9	185,0	152,0	152,0	182,2	184,0
			20	29.256	160,0	18.202	247,1	243,3	243,3	243,3	239,6	242,0

- BREAKING LOAD ★★★★★
- ELONGATION RESISTANCE ★★★★★
- CREEP ★★★★★
- FLEXIBILITY ★★★★★



\* Figaro 3



\* V62 SuperNikka



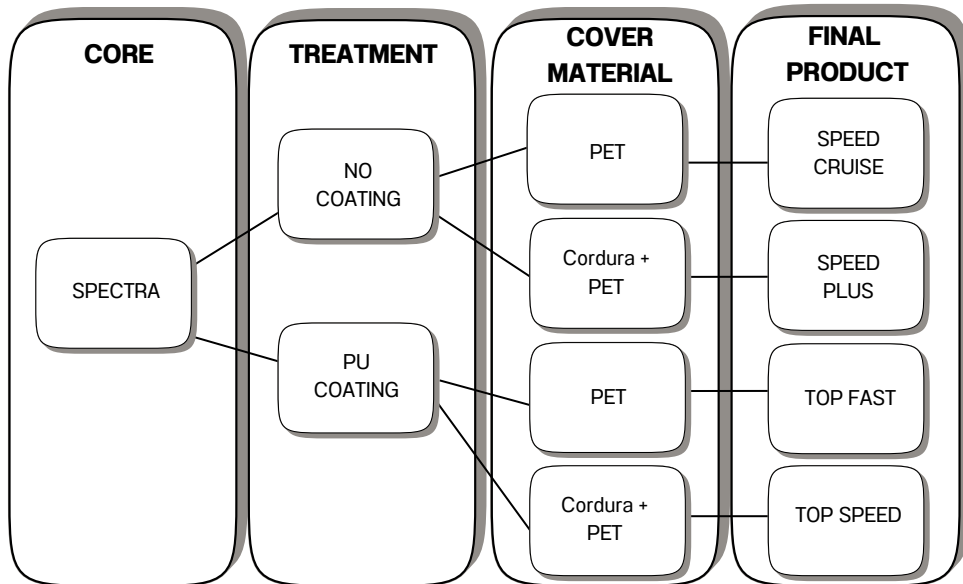
\* Ojala II

# OTHER CORES

## SPECTRA® (HMPE)

FEATURES		CORE		CORE + COVER	CRD/PET
MATERIAL	SPECTRA® + PU COATING	Ø	BREAKING LOAD	BREAKING LOAD	WEIGHT
CONSTRUCTION	12 STRAND BEAR CORE	[mm]	[kg]	[kg]	[g/m]
TREATMENTS	NORMAL PRESTRETCH PROCESS	8 STRAND COVERED	GREY POLYURETHANE COATING		
FEATURES	GOOD RESISTANCE	3	510	-	-
APPLICATIONS	TACKLE SYSTEMS	4	1.407	-	-
		5	2.141	-	-
		6	2.956	1.121	26,0
		7	4.495	-	-
		8	5.596	1.886	47,0
		9	6.667	-	-
		10	9.225	2.956	73,0
		12	-	4.893	95,0
		14	-	6.218	134,0
		16	-	8.563	172,0
		18	-	10.703	222,0
		20	-	12.334	278,0

- BREAKING LOAD ★★☆☆☆
- ELONGATION RESISTANCE ★★☆☆☆
- CREEP ★★☆☆☆
- FLEXIBILITY ★★☆☆☆

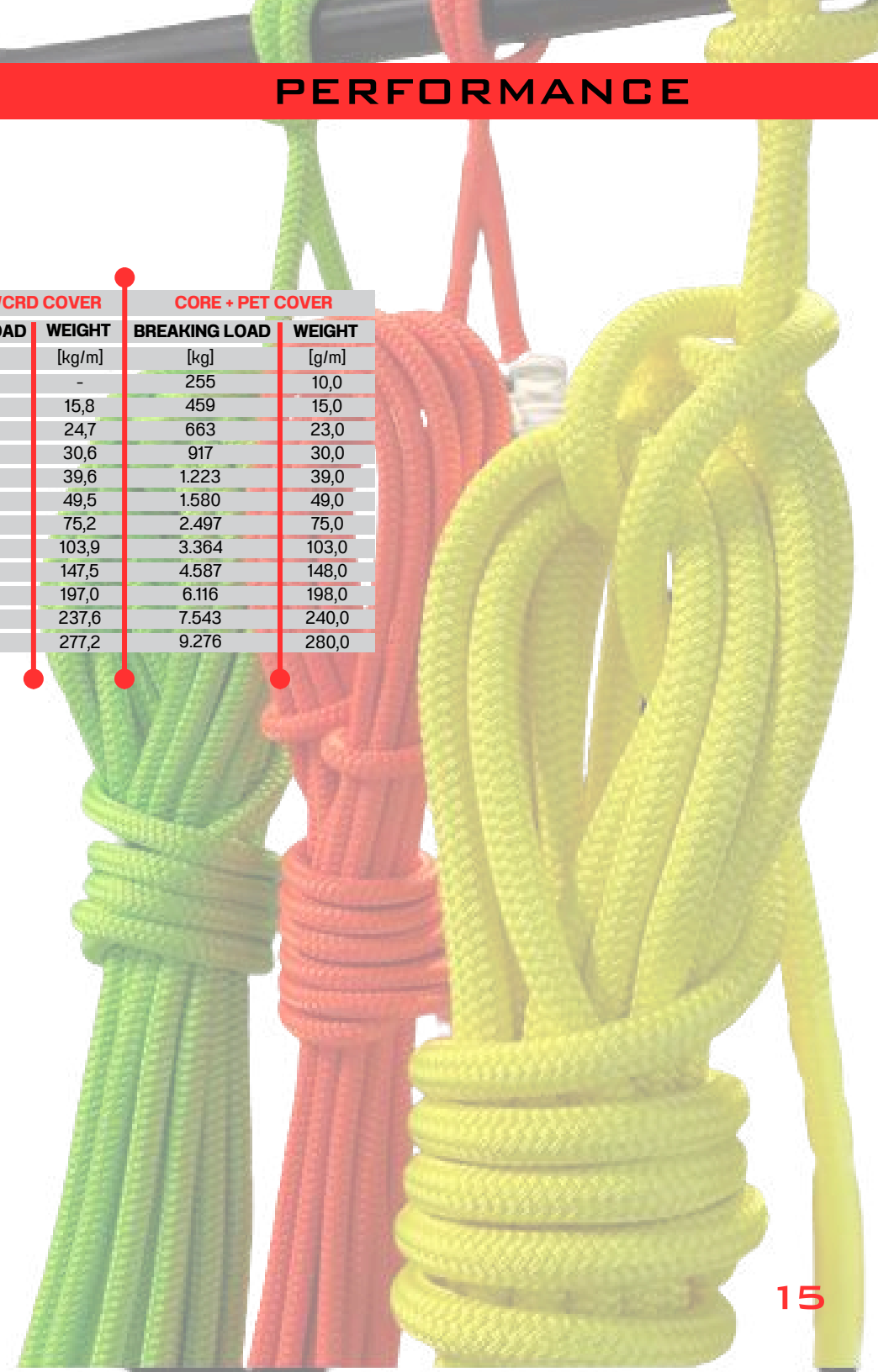
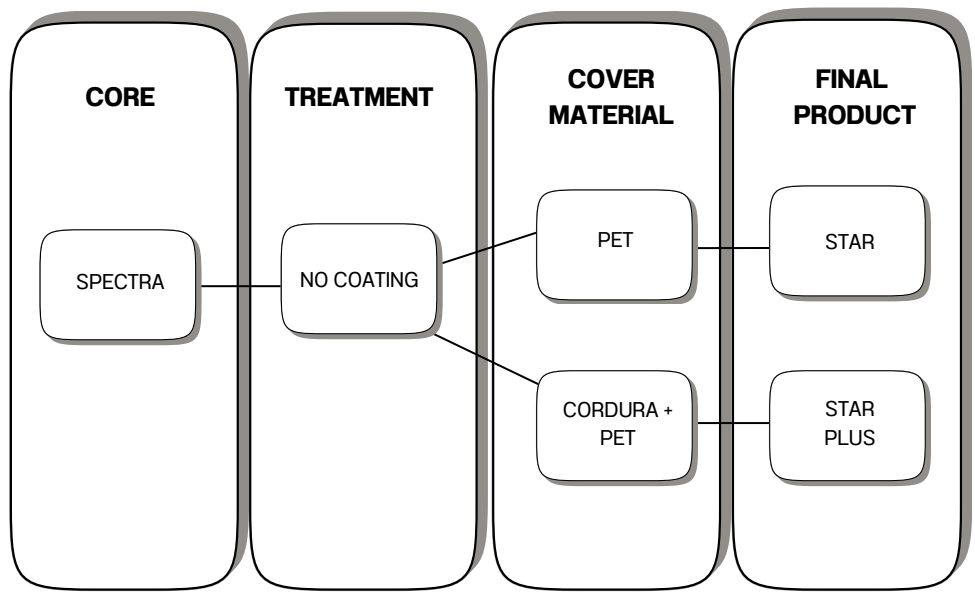


# OTHER CORES

## POLYESTER

FEATURES			CORE + PET/CRD COVER		CORE + PET COVER	
MATERIAL	POLYESTER	Ø	BREAKING LOAD	WEIGHT	BREAKING LOAD	WEIGHT
CONSTRUCTION	12 STRAND	[mm]	[kg]	[kg/m]	[kg]	[g/m]
FEATURES	GOOD RESISTANCE					
APPLICATIONS	TACKLE SYSTEMS					
	MEDIUM PITCH STRAND	3	-	-	255	10,0
	HALYARDS, SHEETS, GUYS.	4	479	15,8	459	15,0
		5	693	24,7	663	23,0
		6	963	30,6	917	30,0
		7	1.284	39,6	1.223	39,0
		8	1.662	49,5	1.580	49,0
		10	2.620	75,2	2.497	75,0
		12	3.527	103,9	3.364	103,0
		14	4.791	147,5	4.587	148,0
		16	6.422	197,0	6.116	198,0
		18	7.849	237,6	7.543	240,0
		20	9.735	277,2	9.276	280,0

- BREAKING LOAD ★★☆☆☆
- ELONGATION RESISTANCE ★★☆☆☆
- CREEP ★★☆☆☆
- FLEXIBILITY ★★☆☆☆



# FINISHED PRODUCTS

## SUPERCABLE 99

FEATURES		Ø [mm]	BREAKING LOAD [kg]	WEIGHT [kg/m]
MATERIAL	COVER PU COATED DYNEEMA®			
CONSTRUCTION	LONG PITCH STRAND			
FEATURES	SUPER ELONGATION RESISTANCE	4	1.471	12,0
APPLICATIONS	REMOVABLE STAYS, RUNNERS, BOBSTAY, STRUCTURAL STROPS.	5	2.858	19,0
		6	4.281	28,0
		7	6.320	40,0
		8	8.154	45,0
		9	9.989	54,0
		10	12.688	71,0
		11	14.967	83,0
		12	15.856	92,0
		13	17.376	114,0
		14	18.573	140,0

BREAKING LOAD	★★★★★
ELONGATION RESISTANCE	★★★★★
CREEP	★★★☆☆
FLEXIBILITY	★★☆☆☆

## SUPERLOOP 99

FEATURES		Ø [mm]	BREAKING LOAD [kg]	WEIGHT [kg/m]
MATERIAL	COVER PU COATED DYNEEMA®			
CONSTRUCTION	LONG PITCH STRAND			
FEATURES	SUPER ELONGATION RESISTANCE	4	1.471	12,0
APPLICATIONS	REMOVABLE STAYS, RUNNERS, BOBSTAY, STRUCTURAL STROPS.	5	2.858	19,0
		6	4.281	28,0
		7	6.320	40,0
		8	8.154	45,0
		9	9.989	54,0
		10	12.688	71,0
		11	14.967	83,0
		12	15.856	92,0
		13	17.376	114,0
		14	18.573	140,0

BREAKING LOAD	★★★★★
ELONGATION RESISTANCE	★★★★★
CREEP	★★★☆☆
FLEXIBILITY	★★☆☆☆

### What is this new thing??

The **SUPER LOOP** is a modified version of the Super Cable. The core remains in braided DYNEEMA SK99, but the construction is slightly different, giving this product the following upgrades:

- Increased stiffness compared to a Super Cable of the same diameter.
- Constant section throught the length (no diameter variation close to the splice areas)



## ONE DESIGN LINES

	SOFT BRAID 2		SOFT BRAID 3		SOFT BRAID 4		SOFT BRAID 7	
MATERIAL	POLYPROPYLE + PET/DYNEEMA®		DSK 78 + PET/DYNEEMA®		DSK 78 + PET/DYNEEMA® / KESVLAR®		DSK 78 COATED + PET/DYNEEMA® / KESVLAR®	
Ø	BREAKING LOAD	WEIGHT	BREAKING LOAD	WEIGHT	BREAKING LOAD	WEIGHT	BREAKING LOAD	WEIGHT
[mm]	[kg]	[g/m]	[kg]	[g/m]	[kg]	[g/m]	[kg]	[g/m]
4	285	14,6	438	14,9	438	14,5	-	-
5	428	24,3	703	703	703	23,8	-	-
6	775	28,1	1.019	1.019	1.019	27,9	815	30,8
7	1.121	35,9	1.478	1.478	1.478	35,5	1.121	39,2
8	1.580	46,6	2.141	2.141	2.141	47,3	1.560	52,2
9	2.141	59,2	3.058	3.058	3.058	58,8	2.345	64,9
10	2.497	70,8	4.077	4.077	4.077	70,3	3.293	77,6
11	3.364	83,9	5.097	5.097	5.097	83,1	4.485	91,8

This product-line has been developed and tested over more than 2 years in collaboration with the most important One Design boat and Armare Service.

Soft Braid 7 is made with the special and unique Super Shape construction. The result is a rope that doesn't deform after repeated and continuous running on blocks. Keeping the perfect roundness the sheet works correctly on the V groove of the pulley throat preventing slippage due to the triangulation of the line.

Soft Braids are designed to maintain an excellent grip, are light and flexible, easy sliding and do not create loops and twist.

Breaking loads and elongation are calibrated mainly for use by hands.



## DYNEEMA PROTECTION COVERS

FEATURES		Ø	BREAKING LOAD	WEIGHT
<b>MATERIAL</b>	100% DYNEEMA®			
<b>STD. COLOURS</b>	NATURAL WHITE (NO PU), GREY (PU COATED), PURE BLACK	[mm]	[g/m]	[g/m]
<b>FEATURES</b>	HIGH ABRASION RESISTANCE, LOW FRICTION, UV RESISTANCE	4	4,86	5,35
<b>APPLICATIONS</b>	LOOPS, STROPS, ROPE SPLICE PROTECTION, LIFE LINES, CABLES, ETC.	5	6,03	6,63
<b>NOES</b>	<ul style="list-style-type: none"> <li>WHITE cover is softer to handle, recommended where coating is expected.</li> <li>PURE BLACK is dyed in pasteand PU coated, it keeps its colour but it's stiffer.</li> </ul>	6	7,20	7,92
		7	8,33	9,16
		8	13,39	14,73
		9	15,00	16,56
		10	16,69	18,36
		12	20,22	22,24
		14	31,25	34,38
		16	35,44	38,98



## LUMINA LIFE LINE

FEATURES		Ø	BREAKING LOAD	WEIGHT
<b>MATERIAL</b>	CORE SUPER PERF. 99			
<b>STD. COLOURS</b>	12 STRAND	[mm]	[kg]	[g/m]
<b>FEATURES</b>	CORE DYNEEMA® SK 78 + PU	4	1.471	12,0
<b>APPLICATIONS</b>	LONG PITCH	5	2.548	19,0
	SUPER HIGH STRENGHT	6	3.364	28,0
	SUPER ELONGATION RESISTANCE			



## PRO ROPE

FEATURES		Ø	BREAKING LOAD	WEIGHT
<b>MATERIAL</b>	CORE POLYESTER			
<b>COSTRUCTION</b>	TWISTED POLYESTER YARN	[mm]	kg	[g/m]
<b>APPLICATIONS</b>	MULTI-PURPOSE LINE: MOUSE LINES, ANCHOR LINE FOR SMALL BOATS	4	204	13,8
		5	357	23,3
		6	469	28,3
		7	683	39,3
		8	897	56,8
		10	1.223	86,7
		12	1.733	120,0
		14	2.273	160,0
		16	3.058	210,0
		18	3.874	240,0



# MOORING LINES

## STORM LINE

		FEATURES		Ø	BREAKING LOAD	WEIGHT
MATERIAL	CORE Polyester	COVER Polyester				
CONSTRUCTION	Balanced Twist Polyester			[mm]	[kg]	[g/m]
APPLICATIONS	Ideal for maxi yachts and as an emergency or long mooring lines for small and medium-sized yachts.					
Standard Color	White, black, Navy Blue					
Special Color	Silver Grey, Hemp, Red, Old English Green; Burgundy					
				14	4.281	134,0
				16	4.995	144,0
				18	5.505	188,0
				20	8.665	288,0
				22	11.825	365,0
				24	13.761	441,0
				26	14.883	510,0
				28	18.858	575,0
				30	20.387	640,0
				32	24.057	890,0
				36	25.994	1.130,0
				40	31.600	1.280,0



## STORM LINE PLUS

		FEATURES		Ø	BREAKING LOAD	WEIGHT
MATERIAL	CORE Dyneema® SK78	COVER Polyester				
CONSTRUCTION	Balanced Twist Dyneema® SK78			[mm]	[kg]	[g/m]
APPLICATIONS	The rope's Dyneema® core significantly enhances strength					
Standard Color	White, black, Navy Blue					
Special Color	Silver Grey, Hemp, Red, Old English Green; Burgundy					
				20	18.552	239,0
				22	24.873	305,0
				24	30.581	366,0
				26	37.717	425,0
				28	45.872	477,0
				30	53.007	608,0
				32	62.181	838,0
				36	80.530	937,0
				38	89.704	999,0
				40	101.427	1062,0







We can add a Dyneema® cover on the eye to improve the mooring line's durability.  
Dyneema® can be coated with the color of your preference.

## SEA KING

FEATURES		Ø	BREAKING LOAD	WEIGHT
<b>MATERIAL</b>	CORE Polyester	[mm]	[kg]	[g/m]
<b>CONSTRUCTION</b>	3 Strand braided Polyester	8	1.295	48,0
<b>APPLICATIONS</b>	Classic choice for permanent moorings. Suitable for all yacht sizes.	10	1.713	70,0
<b>Standard Color</b>	White, black, Navy Blue	12	2.854	103,0
<b>Special Color</b>	Silver Grey, Hemp, Red, Old English Green; Burgundy	14	3.670	140,0
		16	4.383	185,0
		18	5.505	230,0
		20	6.830	290,0
		22	8.461	320,0
		24	9.888	437,0
		26	11.315	500,0
		28	12.283	565,0
		30	13.660	650,0
		32	15.698	740,0
		36	19.369	900,0
		40	23.955	1.150,0

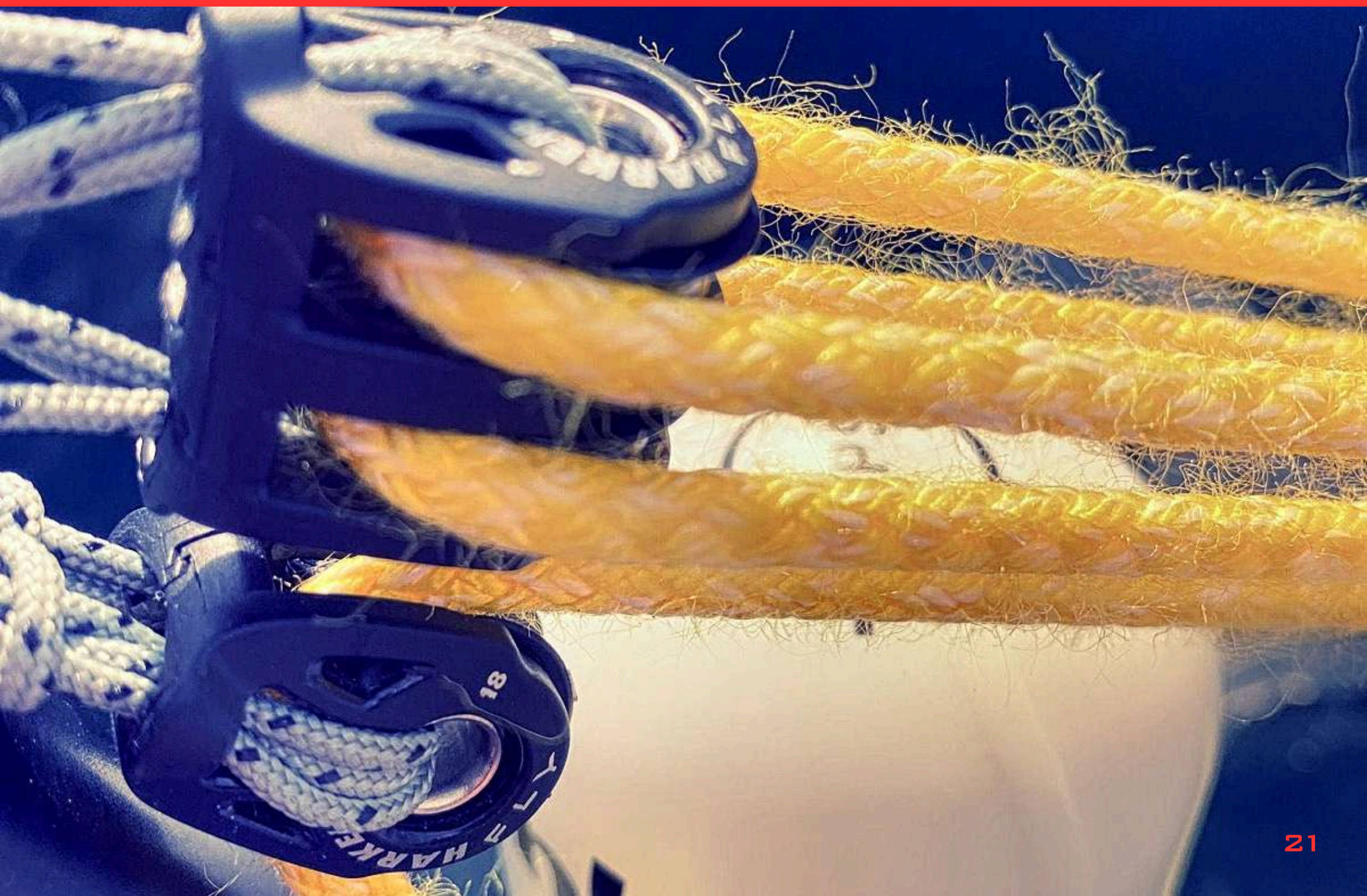


## SECURE LINE

FEATURES		Ø	BREAKING LOAD	WEIGHT
<b>MATERIAL</b>	CORE 100% Dyneema® SK78	[mm]	[kg]	[g/m]
<b>CONSTRUCTION</b>	8 Strand braided Dyneema® SK78	10	10.194	60,0
<b>FEATURES</b>	High breaking load, light, able to float, low elongation, almost zero water absorption, high visibility, high resistance to abrasion.	12	12.742	80,0
<b>APPLICATIONS</b>	Emergency anchoring and mooring, long mooring from boat to land, towing line.	14	15.291	96,0
		16	18.349	110,0
		20	23.445	147,0
		24	28.542	192,0
		28	34.659	230,0
		32	39.755	250,0
		36	45.872	300,0
		40	50.968	350,0









# LOOPS & STROPS

They are designed to replace steel shackles wherever it is possible and convenient to have a lighter, softer alternative. They are made from either unidirectional or braided DYNEEMA® SK99 and are usually covered with a 100% DYNEEMA® chafe guard to further protect them from chafing, UV rays and other external factors increasing their life.

These technically advanced loops and strops guarantee the best diameter / breaking load ratio and can be used in-line, double (basket) or with a dog bone.

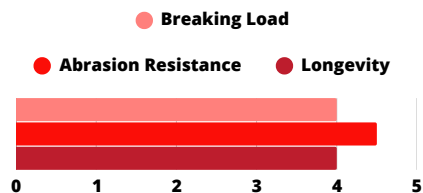
**All loops and strops are available in different sizes and MWL.**

**It is possible to have them coated in different colours in order to be easily recognized by the crew or, for example, match the colour of the connected rope.**



### Traditional covered loop

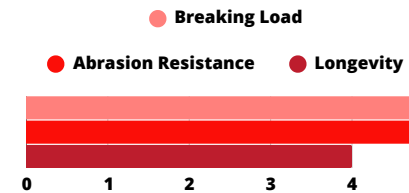
Strong, resistant, aesthetically clean and durable.



**Construction:** Dyneema® braided core and cover  
**Material:** Dyneema®SK78, Dyneema®sk99

### Unidirectional covered loop

This reduced-diameter loop delivers maximum performance, is light strong and reduces elongation.

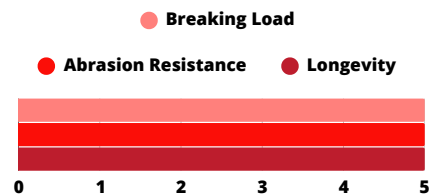


**Construction:** Dyneema® unidirectional core and Dyneema® braided cover  
**Material:** Dyneema®sk99 UD



### Offshore Loop with Dog-Bone

This loop combines the lightness and strength of Dyneema®, with the characteristics of classic steel shackles.



**Construction:** Dyneema® braided core and cover Dog Bone  
**Material:** Dyneema®sk99, Dog Bone SS 17-4PH or aluminium alloy

### HOW CAN USE MY LOOPS & STROPS

VERTICAL



MSF = 1,0

BASKET



MSF = 2,0

CHOKED/HITCH



MSF = 0,8

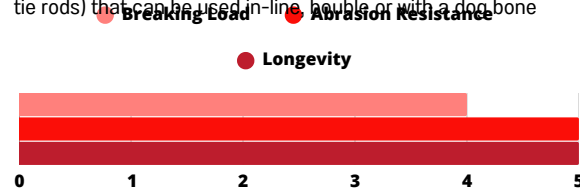
BONED



MSF = 1,6

## Traditional single stop

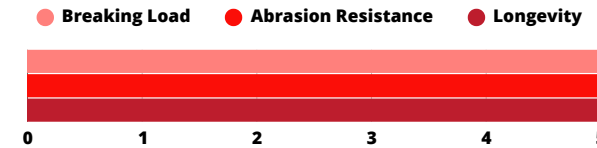
A strong & versatile fitting (for forestay stop, lock system, extension, tie rods) that can be used in-line, double or with a dog bone



**Construction:** Dyneema® braided core and cover  
**Material:** Dyneema®SK78, Dyneema®sk99

## Strop Loop with Dog-Bone

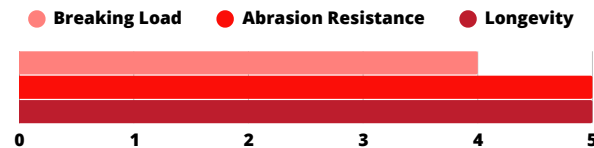
It is built as a single stop, but used as a boned loop. The fibers are better aligned and they can be mounted in different ways to adapt to the hardware.



**Construction:** Dyneema® braided core and cover + Dog Bone  
**Material:** Dyneema®SK78, Dyneema®sk99

## Mega loop & Mega strops

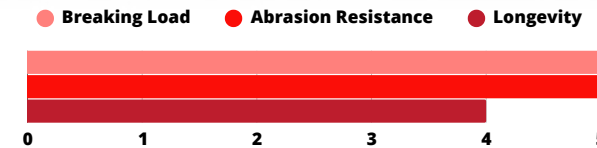
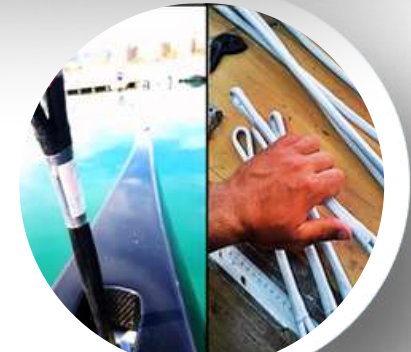
We have specifically designed and manufactured a diverse range of high-load strops and loops for the mega-yacht industry.



**Construction:** Dyneema® braided core and cover  
**Material:** Dyneema®SK78, Dyneema®sk99

## Unidirectional single stop

This reduced-diameter loop delivers maximum performance, is light, strong and reduces elongation.



**Construction:** Dyneema® braided unidirectional cover and Dyneema® braided cover  
**Material:** Dyneema®SK78, Dyneema®sk99

## HOW DO I CHOOSE THE RIGHT LOOPS/STROPS FOR ME?

There are many factors that may influence the choice of a loop/strop, along with all the different configuration possibilities, one may get a bit lost at first. Here are some of the main aspects to keep in mind for a first approach:

1. **Stripped or covered?**
2. **Breaking Load**
3. **Hardware:** The items to which the loop/strop is linked to impose specific constrains that must be accounted for. Usually these are declared by the manufacturer.
4. **Easy to open/close or fixed?**

Please contact our technical department, where our expert staff will help you with the remaining details to find the best solution for you.

# LOCK STROPS

The Masthead Halyard Lock System has increasingly become an integral part of the rig. Our lock stops can either be spliced into various types of locks or bullets, or also delivered on their own as a plug-and-play solution.

The stop-rings are Torlon®-made and treated with Arnite in order to protect shafts and pulleys from damage. They can be manufactured from either unidirectional or braided fibers.

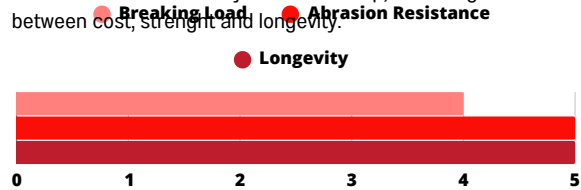
## COLORS

They can be color-coded with resin so crew can easily distinguish the different halyards during maneuvers.

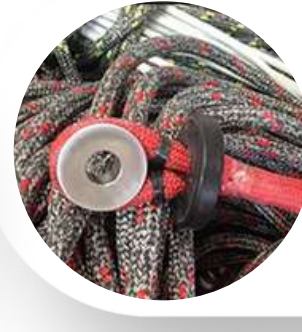
**All lock stops can be made to each client's specifications, in different sizes and MWL.**

### Traditional Lock stops

This is the most commonly used lock stop, offers a good balance between cost, strength and longevity.

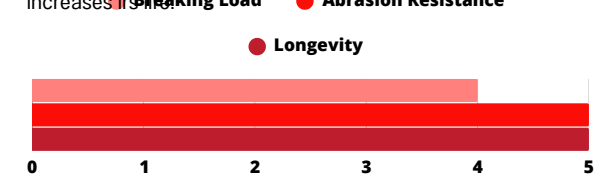


**Construction:** Dyneema® braided core and cover  
**Material:** Dyneema@sk99



### Traditional Lock stops (covered)

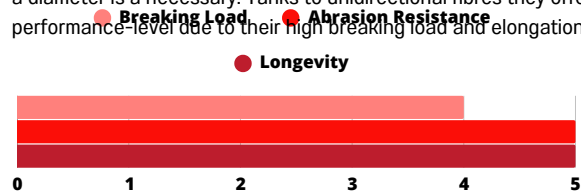
The Dyneema cover preserves the core, preserves chafing and increases its life.



**Construction:** Dyneema® braided core and cover  
**Material:** Dyneema@sk99

### Unidirectional Sling Lock Stops

High-performance stops designed especially for the Grand Prix market, or wherever a diameter is a necessary. Thanks to unidirectional fibres they offer an unsurpassable performance-level due to their high breaking load and elongation resistance.

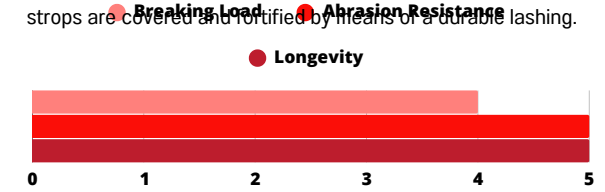


**Construction:** Dyneema® unidirectional core and cover  
**Material:** Dyneema@sk99 UD



### Mega yacht Lock stops

We have a range of lock stops which have been specifically developed for substantial loads and mega yacht industry. The stops are covered and fortified by means of a durable lashing.



**Construction:** Dyneema® braided core and cover  
**Material:** Dyneema@SK78, Dyneema@sk99



## SOFT SHACKLES

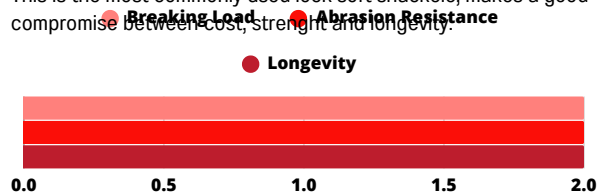
Our Soft Shackles are made without the use of any metal at all, but built from DYNEEMA® SK99 instead. They can be used to substitute any opening metal hook or shackle, they are safe, strong and substantially lighter than their metal-made counterparts (approximately 6 times lighter).

Additional benefits of their decreased weight and 'soft-ness' are a reduced chance of injuring someone or damaging the boat. What's more...they don't squeak.

\*Code names help identify the equivalent size Tylaska. (i.e. SSC1L-08 = Equivalent WL as Tylaska T08)

### Soft Shackle (No Cover)

This is the most commonly used lock soft shackle, makes a good compromise between cost, strength and longevity.

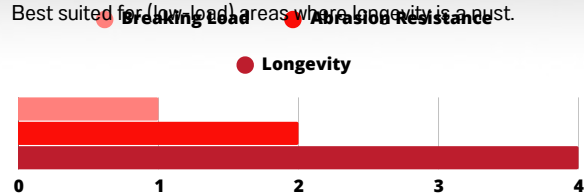


**Construction:** Dyneema® braided core

**Material:** Dyneema®sk99

### Super-light Soft Shackle (No Core)

Best suited for (low load) areas where longevity is a must.

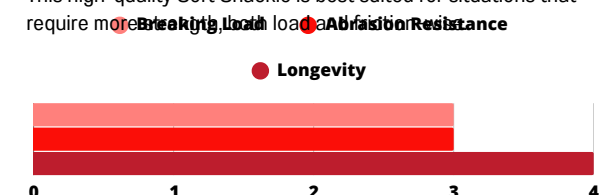


**Construction:** Dyneema® cover

**Material:** Dyneema® cover

### Dyneema® Covered Soft Shackle - 1 Lap

This high-quality Soft Shackle is best suited for situations that require more strength, both load and multi-wise.

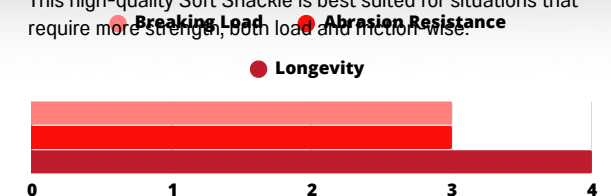


**Construction:** Dyneema® braided core and cover

**Material:** Dyneema®sk99

### Dyneema® Covered Soft Shackle - 2 Lap

This high-quality Soft Shackle is best suited for situations that require more strength, both load and multi-wise.



**Construction:** Dyneema® braided core and cover

**Material:** Dyneema®sk99

SOFT SHACKLES SK99	MAX WL (ton)										
	0,5	1,0	1,5	2,0	2,5	3,0	4,0	4,5	5,0	6,0	
<b>No Cover Single Lap</b>	SS-08	SS-12	SS-16	SS-20							
<b>Covered Single Lap</b>	SSC-05	SSC-08	SSC-12	SSC-16	SSC-18	SSC-20		SSC-24			
<b>Covered Double Lap</b>		SSC-05-2L	SSC-08-2L		SSC-12-2L		SSC-16-2L		SSC-18-2L	SSC-05-2L	

# ACCESSORIES - RINGS AND FERRULES

The classic and super versatile ferrule (a.k.a. friction ring) is one of the most common accessories to have on board, with a thousand different applications. Use them as fairleads, rope deviations, purchases, lashings, cascades and so much more. It is well known that a rope's load resistance will greatly benefit when it works upon a surface with a correct radius, therefore we always recommend adding a ferrule whenever possible to improve the load distribution and preserve the fibers.

## TITANIUM BOBBINS

Material: Grade 5 Titanium

Designed for more "static" applications, where the main focus is to benefit the alignments and dispositions of the fibers around the ferrule, to improve the equilibrium of the system and load distribution across the textile's section.



ITEM	Ø EXT	Ø INT	Ø ROPE MAX
[-]	[mm]	[mm]	[mm]
<b>TB1</b>	25	11	7
<b>TB2</b>	34	15	10
<b>TB3</b>	40	18	12
<b>TB4</b>	50	23	15
<b>TB5</b>	60	28	18
<b>TB6</b>	70	32	23
<b>TB7</b>	90	40	30

## FERRULES / FRICTION RINGS

Material: Alluminium

These guys need no introduction. They come in a great variety of sizes for every different application and rope diameter, with a hard anodized finish to reduce friction of ropes running through.



ITEM	Ø EXT	Ø INT	Ø ROPE MAX
[-]	[mm]	[mm]	[mm]
<b>F0</b>	18	7	5
<b>F1</b>	25	10	7
<b>F2</b>	35	14	10
<b>F2,5</b>	42	18	12
<b>F3</b>	50	20	14
<b>F4</b>	65	28	20
<b>F5</b>	98	38	28

# ACCESSORIES - DOG BONES

The highly adaptable dogbone serves as a 'connector' and can be used in conjunction with a soft loop/strop in order to replace almost any type of shackle. We offer dog bones in five different sizes and can supply classic yachts with titanium or bronze-made varieties. All dog bone are available in different sizes and MWL.

ITEM	Ø INT	LENGTH	BL
[-]	[mm]	[mm]	[kg]
<b>DBT1</b>	9	29	4.500
<b>DBT2</b>	10	35	6.200
<b>DBT3</b>	12	40	8.500
<b>DBT4</b>	14	45	11.200
<b>DBT5</b>	16	51	15.000
<b>DBT6</b>	19	60	21.000

ITEM	Ø INT	LENGTH	WEIGHT
[-]	[mm]	[mm]	[g]
<b>DBOFFC0</b>	9,5	44	28,5
<b>DBOFFC1</b>	10	51	45,0

ITEM	Ø INT	LENGTH	BL	WEIGHT
	[mm]	[mm]	[kg]	[g]
<b>DB0</b>	6,0	25,0	1.800	8,0
<b>DB1</b>	7,0	33,0	3.000	20,70
<b>DB2</b>	9,0	40,0	4.000	28,60
<b>DB3</b>	11,0	48,0	5.000	47,60
<b>DB4</b>	13,0	55,0	9.000	88,40



## TITANIUM DOG BONES

Material: Grade 5 Titanium

Besides the obvious advantages of the choice of materials, they improve safety of use thanks to the special design features. The sizes were studied to fit the ideal diameters and improve load resistance of the ropes.



## OFFSHORE DOG BONE

Material: SS AISI 630 - 17-4 PH High Resistance



## CLASSIC DOG BONE

Material: SS AISI 630- 17-4 PH High Resistance

# ACCESSORIES - MAST PROTECTION FITTINGS

For those applications where a metal fitting at the end of a halyard, tack, or lock stop can damage a softer structure. Used to protect the mast surface or sheaves from impacts caused by a snap shackle or Tylaska, they are meant work as bumper between them and preserve much more important parts of the boat. These are the evolution of the classic colored stop-balls, meant to last longer and optimize luff length.



## OMBRELLO

Material: Arnite

Improved ergonomoy and resistance. They fit perfectly with metal bails of fittings such as Tylaska snap shackles. They can move freely and avoid getting stuck under sails or pulpits

ITEM	Ø EXT	Ø INT
[-]	[mm]	[mm]
<b>OMB01</b>	44	14
<b>OMB02</b>	62	20



## HALYARD STOP-DISC

Material: Arnite

The evolution of the classic stopball. Light and strong to help protect your mast, bowsprit, etc. from damage caused by metal fittings.

ITEM	Ø EXT	Ø INT
[-]	[mm]	[mm]
<b>DISC01</b>	44	16
<b>DISC02</b>	62	24



## DIGITAL RECOGNITION, THE NEXT STEP ON YACHT MAINTENANCE AND SERVICE

Now you can simplify the maintenance of your yacht's rigging by inserting a special CHIP in any of our textile-made loops, strops and cables.



**The CHIP's NFC (Near-Field Communication)** technology stores all of your product's most relevant information such as MWL, Safety Factor, or expected life-span. This way we can keep track of the products on your yacht, and let you know when a specific item might be in need of maintenance or replacement. The system also eliminates the need to store and search through a hefty manual, as all you need is your device or smartphone to access a loop, rope or strop's data in just a few seconds.



**Near-Field Communication (NFC)** enables two electronic devices (one of which is usually portable, such as a smartphone) to exchange data by bringing the devices within 4 cm (1.6 in) of each other.



# USE AND MAINTENANCE GUIDELINES

The average values indicated in the tables and graphs in this catalogue are obtained from laboratory tests. These tests were made under controlled conditions on new ropes, ropes which were suitably spliced at both ends. Indicated values may be changed without notice.

- Use and exposure to atmospheric agents cause breaking load losses
- In order to safeguard the characteristics of the product and unexpected breakages the load applied to a rope in good condition must never exceed the values indicated in the table by 20% or more.
- The safety percentage must be higher when dynamic loads and/or tears come into play.
- An incorrectly constructed splice considerably reduces a product's resistance. The presence of knots can also cause a drop in resistance of up to 50%.
- When using the ropes the user must avoid contact with sharp or particularly abrasive surfaces.
- We recommend a visual check at regular intervals to verify the condition of the deck equipment and components that interact with the lines (winches, pulleys, bevel gear, etc.).
- Each line must be checked periodically, especially after intense or extreme use. Visual inspection alone cannot guarantee the quality of the product and, therefore, its breaking load.
- Do not use lines with obvious signs of aging
- To avoid injury always position yourself outside the range of the line when working with lines under load.
- Dyneema®- made products must not be used in environments with temperatures above 55°.
- Zylon® and Vectran®-made cores must be used with their protective cover to avoid direct exposure to sunlight.
- Zylon® has a high sensitivity to moisture, therefore it is strongly recommended not to store Zylon®-made ropes in damp environments.
- It is recommended to avoid ropes coming into contact with chemical agents. In case of contamination, contact Textile Rigging Solutions
- Ropes should be washed periodically with fresh water. Dirt, grease and salt residues reduce the life of the fibers and the product's breaking load.
- Ropes must be disposed of as "municipal waste" - DO NOT DISPOSE OF ROPE- MATERIAL IN THE ENVIRONMENT

## LOOPS & STROPS

In order to comply with our standard, resting radiuses must be 1,25 times the strop diameter

All the products in this catalogue are intended exclusively for use in pleasure boating and sports, which includes work undertaken aloft. Any other usage are strictly prohibited.

SOLUZIONI TESSILI RIGGING is in no way responsible for any printing errors in this catalogue.

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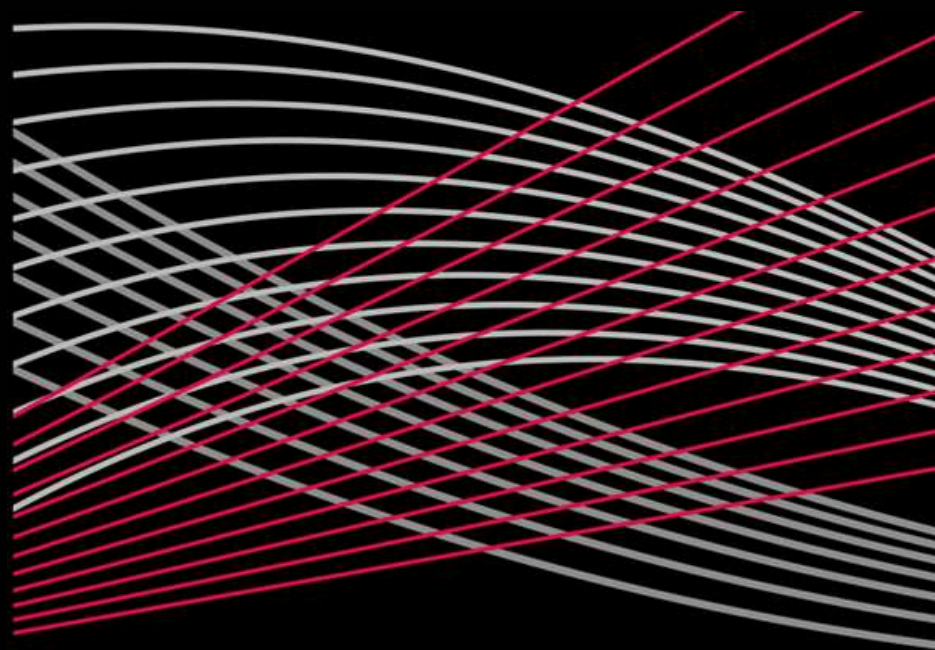
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