



SoluzioniTessili  
RIGGING



UNIDIRECTIONAL SLING CABLES

## 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.

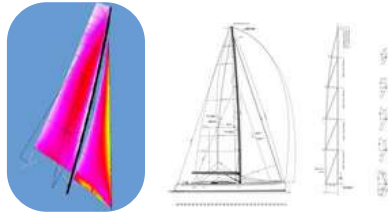
This means you'll only get ropes which are tailor made to meet your and your yacht's specific needs.



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.

## 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 where 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, though 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.



# 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.



# COMPOSITE CABLES



# DESIGNING, TESTING AND DEVELOPING SINCE 2003

## **WHY COME TO US?**

WHEN IT COMES TO CHOOSING THE RIGHT CABLES FOR YOUR BOAT, YOU ARE LOOKING FOR A PIECE OF GEAR THAT WILL POTENTIALLY PLAY A BIG ROLE IN THE RESULTING PERFORMANCE OF THE RIG, THEREFORE THERE CAN'T BE ANY ROOM FOR IMPROVISATION.

## **NUMBERS TALK**

IN OUR MORE THAN 15 YEARS OF EXPERIENCE OUR CABLES HAVE PROVEN THEIR WORTH TIME AND TIME AGAIN, NOT ONLY FOR THE QUALITY OF THE MATERIALS AND FINISHES, BUT BECAUSE THEY WERE THOUGHTFULLY DESIGNED FOR THEIR PURPOSE SINCE THE BEGINNING. THIS TRANSLATES INTO AN ASTONISHING SATISFACTION RATE WITH OUR CLIENTS!

## **CONSTANT EVOLUTION**

WITH TIME NOT ONLY MATERIALS AND CONSTRUCTION TECHNIQUES CHANGE, BUT ALSO THE SPORT ITSELF AND SO DOES THE WAY THE CABLES ARE USED. THIS IS WHY IT'S NOT ENOUGH TO HAVE A TABLE FULL OF DATA DESCRIBING EACH CABLE CHARACTERISTICS AND THEN PICK THE RIGHT ONE, BUT YOU NEED SOMEONE THAT CAN READ THOSE NUMBERS WITH THE RIGHT FILTERS TO FIND THE BEST SOLUTION FOR YOUR SPECIFIC NEEDS.

## **WE CARE**

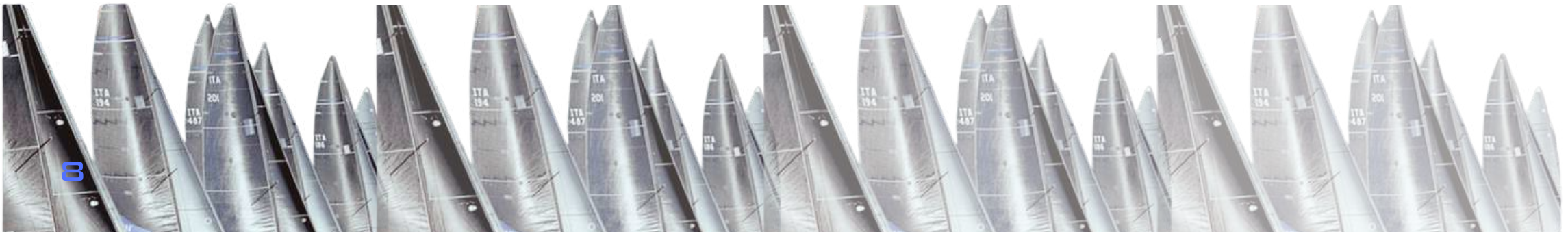
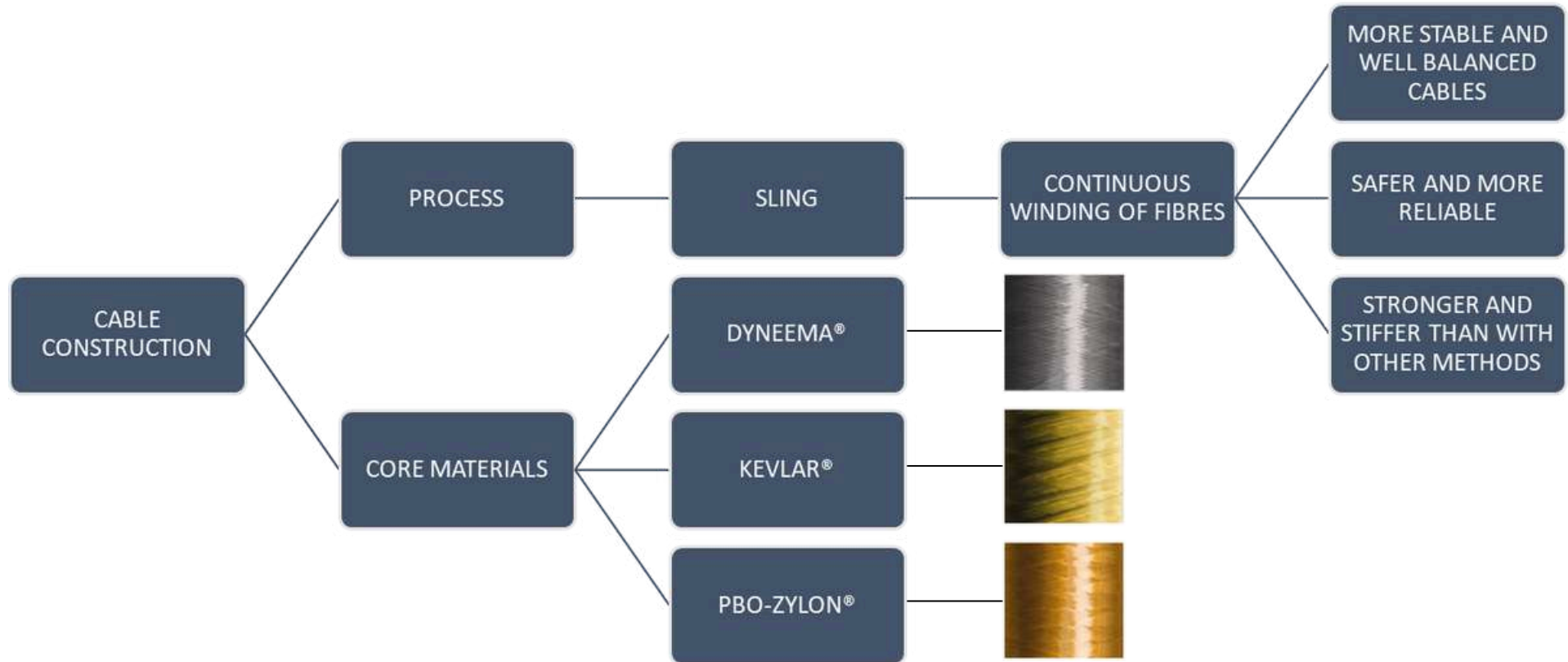
WE TAKE PRIDE IN OUR WORK AND IN THE RELATIONSHIPS THAT WE DEVELOP WITH OUR CLIENTS DURING THE YEARS AND WE MAKE AN EFFORT TO DEDICATE TO EACH INDIVIDUAL PROJECT THE NECESSARY ATTENTION, AIMING ALWAYS FOR THE BEST QUALITY AND NOT FOCUSING ONLY ON QUANTITY.

## WHAT CAN WE DO?

**WE CAN PRODUCE CABLES FOR A VARIETY OF APPLICATIONS SUCH AS:**

- FORESTAYS
- TOP MAST SAILS
- RUNNERS (FOR USE WITH DEFLECTORS TOO)
- BACKSTAYS, CHECKSTAYS AND BOBSTAYS
- CONTROL CABLES
- LOCK STROPS
- STEERING
- FURLING CABLES IN BOTH CONFIGURATIONS:
  - TOP DOWN
  - BOTTOM UP

# HOW DO WE DO IT







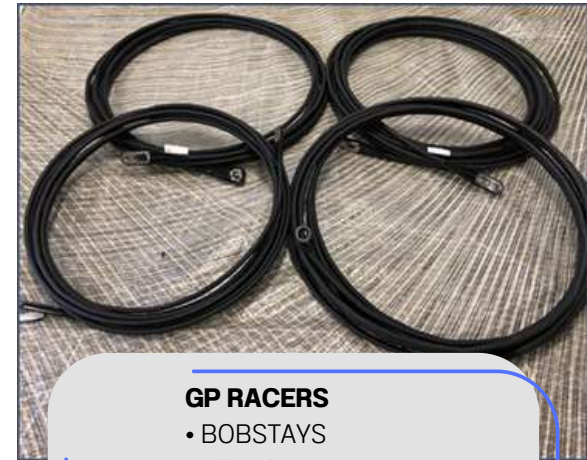
## CRUISING / RACING

- GRAND SOLEIL 48
- V62 YORU
- MYLIUS 76 EG4
- SWAN 78



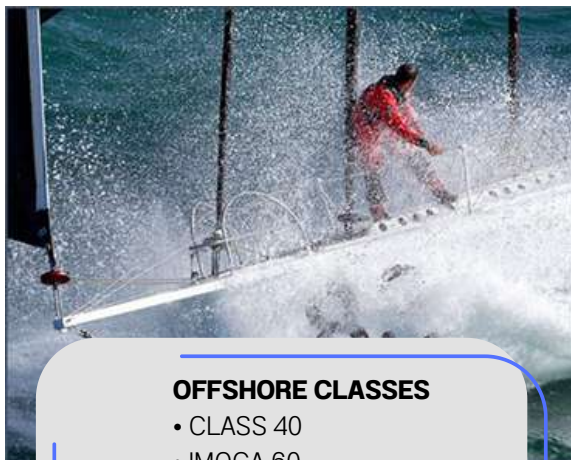
## GP RACERS

- TP 52
- BOTIN 65
- CQS
- V62 SUPERNIKKA



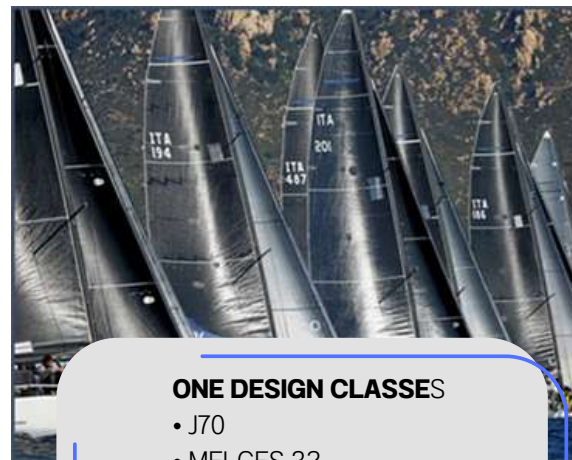
## GP RACERS

- BOBSTAYS
- FORESTAY
- LOCK STROPS
- CONTROL CABLES



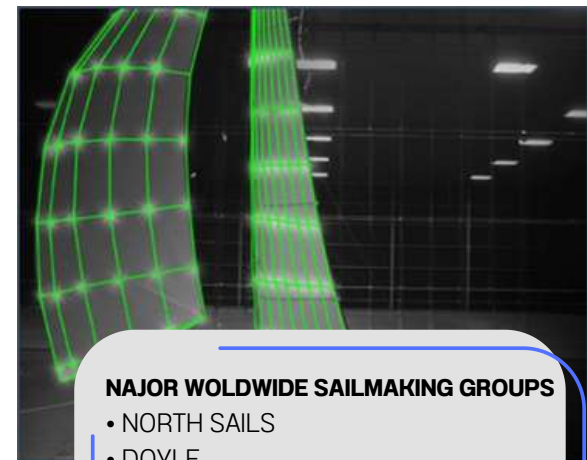
## OFFSHORE CLASSES

- CLASS 40
- IMOCA 60
- FIGARO
- MINI 650



## ONE DESIGN CLASSES

- J70
- MELGES 32
- CLUB SWAN 36/42/45/50
- M32



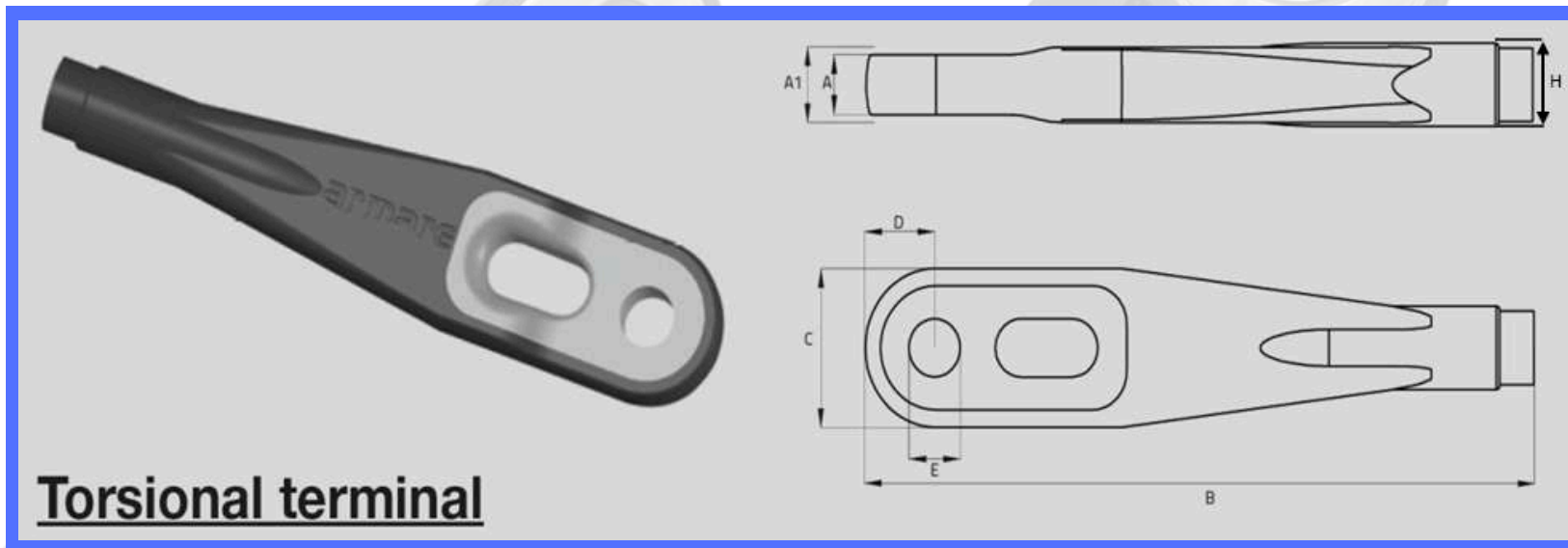
## NAJOR WOLDWIDE SAILMAKING GROUPS

- NORTH SAILS
- DOYLE
- ONE SAILS
- QUANTUM

# TORSIONAL TERMINALS

DIRECT ENCAPSULATION OF THE TECHNICAL FIBRES OF THE CABLE AND THE STEEL TERMINAL WITH A MOLDED COVER MADE WITH A SPECIAL RESIN KEEPS EVERYTHING IN PLACE.

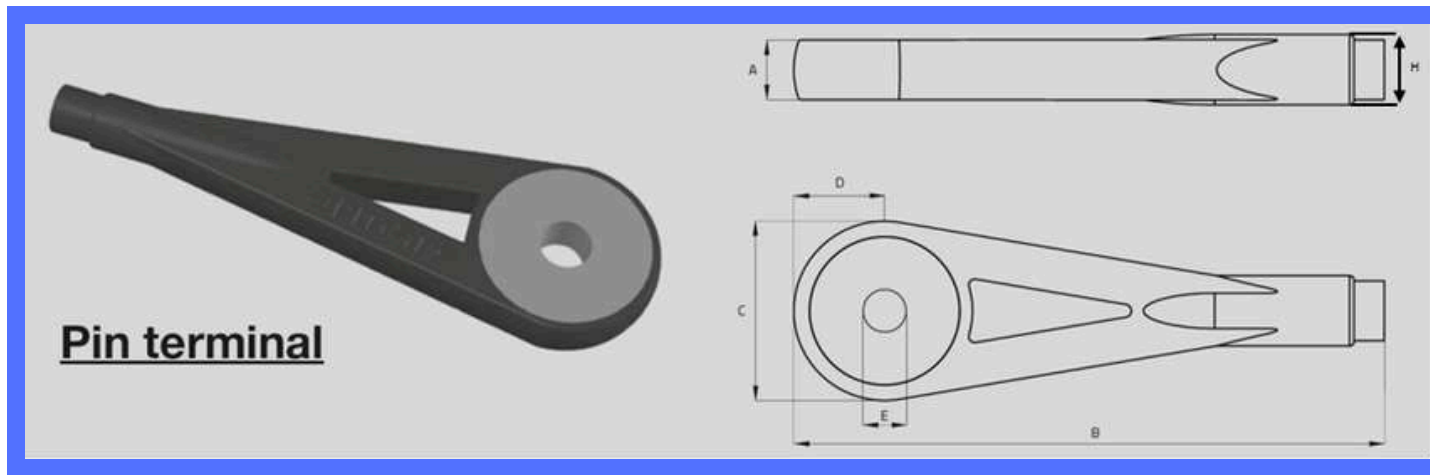
THE TERMINAL IS DESIGNED TO MAXIMISE TORQUE TRANSMISSION BETWEEN CABLE AND END FITTINGS



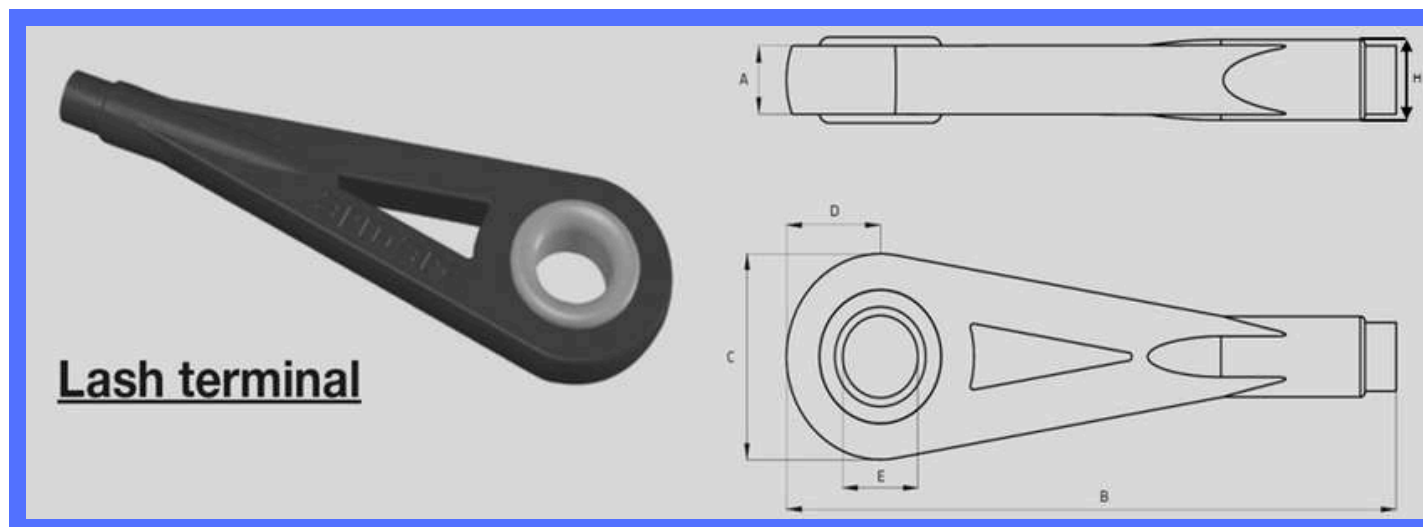
MEASURES [mm]							
SIZES	A	A1	B	C	D	E	H
AT1	10,8	15,0	155,0	29,0	14,5	max 11,3	18,0
AT2	15,5	19,5	165,6	40,0	20,0	max 15,0	21,5
AT3	18,5	24,5	235,0	54,0	27,0	max 25,0	27,0
AT4	18,5	33,0	315,0	76,0	35,0	max 25,0	37,0
AT5	27,0	42,0	315,0	90,0	45,0	max 28,5	42,5

## PIN AND LASHING TERMINALS

SIMPLE AND LIGHT DESIGN TOGETHER WITH STRONG MATERIALS AND RUGGED EXTERIOR COVER TO CREATE A SMART SOLUTION TO BEST SUIT ANY KIND OF CONNECTION TO THE BOAT



		MEASURES [mm]					
SIZES		A	B	C	D	E	H
	AA	7,7	60,0	26,0	13,0	10,0	
	A	9,5	102,2	34,5	17,3	12,0	11,5
	Bz12	12,0	137,8	45,5	22,8	16,0	15,0
	Bz14	14,5	137,8	45,5	22,8	16,0	17,5
	C	17,0	159,0	52,0	26,0	22,0	22,0
	D	20,0	185,0	60,0	30,0	26,0	23,5
	E	23,0	218,5	70,0	35,0	30,0	26,5
	F	27,0	233,7	76,0	38,0	35,0	32,0
G	33,0	292,0	92,0	46,0	40,0	43,0	



		MEASURES [mm]					
SIZES		A	B	C	D	E	H
	00	7,7	60,0	26,0	13,0	8,0	
	0	9,5	102,2	34,5	17,3	11,0	11,5
	1	14,5	137,8	45,5	22,8	17,0	17,5
	2	17,0	137,8	52,0	26,0	21,0	22,0
	3	20,0	185,0	60,0	30,0	24,0	23,0
	4	23,0	218,0	71,0	35,5	26,0	26,5
	5	27,0	233,7	76,0	38,0	28,0	32,0
	6	33,0	292,0	92,0	46,0	40,0	43,0

# CABLES MAINTENANCE INSPECTIONS

CONSTANT CARE AND REGULAR INSPECTIONS ARE THE KEY TO MAKING SURE THAT YOUR CABLES KEEP PERFORMING AT THEIR BEST AND REMAIN SAFE TO USE FOR LONGER.

THE DESIGN AND APPLICATION OF EACH CABLES IS ALMOST NEVER THE SAME, SO THERE IS NO REAL SPECIFIC LAW WHEN IT COMES TO PREDICTING THE DECAY OF THE PRODUCT WITH TIME AND USE, BUT MORE OF A GENERAL RULE OF THUMB BASED ON FATIGUE TESTS ON MATERIALS, EXPERIENCE ON THE WATER AND FEEDBACK FROM LAB TESTS THROUGHOUT THE YEARS.

WE RECOMMEND REGULAR CONTROL INTERVALS DIVIDED IN 3 MAIN CATEGORIES (A SPECIAL MENTION IS MADE FOR PURE RACING BOATS DUE TO THE OBVIOUS DIFFERENCES IN DESIGN AND USE):

	TYPE OF INSPECTION	INSPECTION TIME - LAPE
A	Visual inspection (OK with mast stepped)	Frequent (several times per year, almost one per month during navigation period)
B	Deep "light inspection (OK with mast stepped)	Once per year
C	Full service inspection	3 years after the date of the sale's invoice

**\*\*ONLY FOR PURE RACING YACHTS:**

A SPECIAL CONSIDERATION MUST BE MADE FOR THOSE BOATS THAT ARE DEDICATED FOR RACING ALL YEAR LONG, AS THE STRESS ON THE HARDWARE IS MUCH HIGHER AND THE SAFETY FACTORS MAY BE LOWER THAN THE INDUSTRY STANDARDS ON REQUEST OF THE BOAT IN THE SEARCH FOR MAXIMUM PERFORMANCES. THEREFORE WE SUGGEST THAT FOR THESE KINDS OF BOATS A FULL INSPECTION IN THE FACTORY AS PER POINT [C] BE MADE ONCE PER YEAR.

# CABLES MAINTENANCE AND INSPECTIONS



## TYPES OF INSPECTIONS:

### A. VISUAL INSPECTION

- Monitoring of presence of signs of damage, abrasion points, wearing and breaks on the cable cover.
- Inspection of all the fittings: search for severe wear, bent pins, corrosion and cracks.
- Verification of end fittings and the integrity of eventual heat shrink on both ends of the cable (if present).

### B. DEEP "LIGHT" INSPECTION

- Visual inspection like [A] point
- Check/lubrication of all the accessible fittings
- Control of each screw/threaded stud and eventually replacing of thread locker; greasing of threaded studs and turnbuckles.

### C. FULL SERVICE

- Complete mast and link fittings disassembly, including all the endless-fiber cables and turnbuckles.

In order to proceed with a check of the residual life span the cables must be sent to the Armare Factory, to undergo a deeper inspection and an elongation test at the W.L. as per approved internal procedures. The residual life of the cables can be estimated on the basis of the test results. It varies depending on the construction type of the cable, the selected fiber, the application on board and the safety factors used in the design of the cable. It does not represent in any way a guarantee of durability of the cable, which may require an earlier replacement, due to the real working conditions and SAFETY.



# 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.
- Dynema®- 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 fibres 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.


## CONNECT WITH US.

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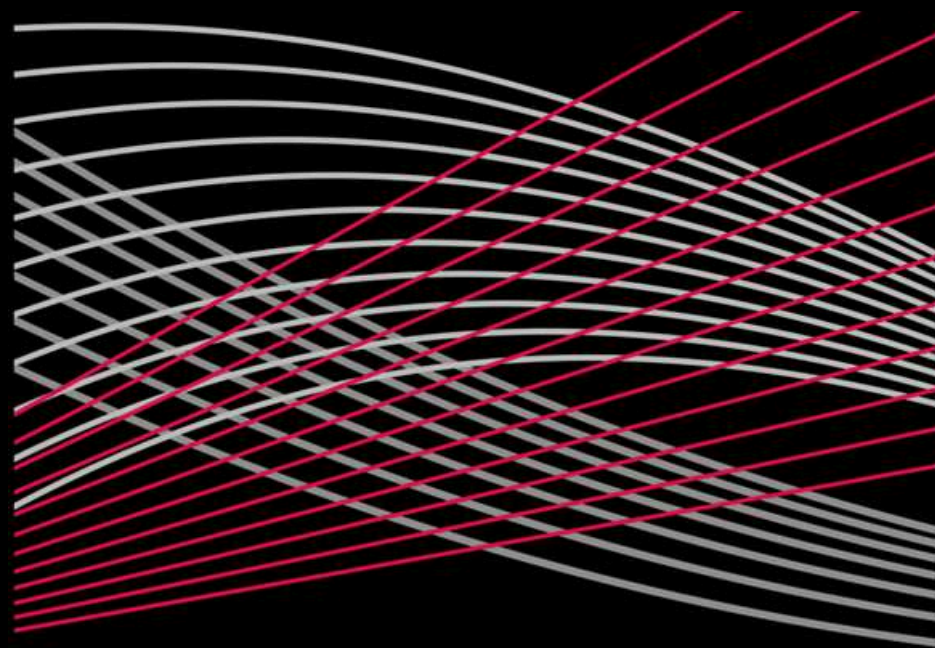
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