



C O M P A N Y P R O F I L E





M A R I N E K N O W L E D G E

I-CARBON, WHEN INNOVATION MEETS DESIGN

I-carbon was born from a lucky coincidence: 4 friends linked by a passion for offshore sailing and for the sea, who pool their professional skills, their business experiences, to create a company focused on the innovation of processes. From the automotive and aerospace, the most advanced design, the most innovative materials enter the production of the best equipment for yachts and super-yachts: a new approach to industrial processes, to promote mass production and thus reduce time-to-market and costs to customers of each product.





OUR TEAM

That's I-carbon, conceived from an idea of Marco Del Prete, with the collaboration of Francesco Pelizza, who was soon joined by Enrico Francolini, and Davide Fuzzi: the experience in project management, engineering, and innovation technology, converge and meet the sailing background to bring the best industrial skills to the marine industry.



MARCO DEL PRETE

3rd generation of entrepreneurs in the moulding industry with focus on automotive and aerospace sector, he's a passionate sailor, with strong attitude to innovation and new technologies.



FRANCESCO PELIZZA

Graduated in engineering, boating enthusiast and sailor, he gained experience in aeronautic and aerospace area before founding his own engineering company in 2005. He's specialized in structural engineering and custom production for super-yachts.



ENRICO FRANCOLINI

Graduated in economics, with experience in the construction industry and marketing, sea and boat enthusiast since forever, he started sailing when he was a child and still love sailing as soon as he can. He's been involved in the marine industry as a professional consultant since 2009.

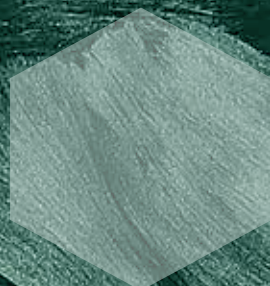


DAVIDE FUZZI

Graduated in sports science, he started sailing young and gained skills as a professional rigger in the TP52 circuit, maxi-yachts circuit, America's Cup, Red Bull Youth America's Cup. He founded his own rigging company in 2015.



MARINE INNOVATION





The best carbon and metal alloys accessories for boats are available for designers and shipyards with pricing and timing matching the current needs, to move forward an industry such as the nautical one, generally codified and conservative in its construction procedures.



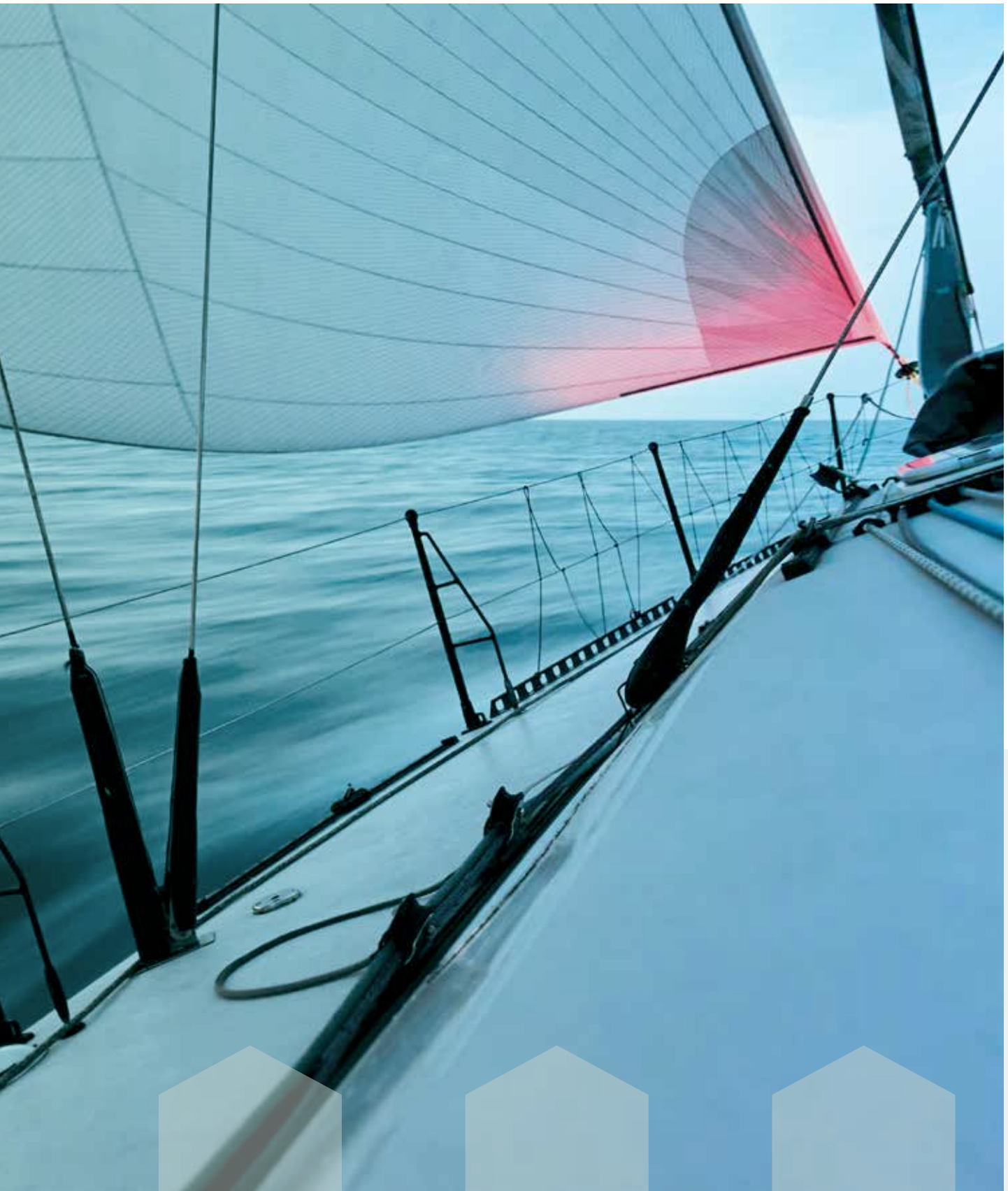


Our best suppliers are the best of the Italian Automotive, which provide us with daring but perfectly engineered solutions, this is our network of skills, research, innovation, unthinkable in any other area: in the Adriatic coast the passion for the sea finally matches the great high-end manufacturing industry that has one of its avant-garde districts between Marche and Emilia-Romagna.



I-carbon looks forward and collaborates with universities in project works that integrate digital control in the use of its carbon products, to keep its proposal to nautical market always new and attractive. The possibilities on the horizon are open only to those who know how to navigate.







MOORING SYSTEM - CARBON FIBRE



OUR MOORING SYSTEM PUSHES THE BOUNDARIES OF INNOVATION AND DESIGN OF MARINE HARDWARE. WE CONCEIVED A NEW KIND OF POP-UP CLEAT, COMBINING STYLISH DESIGN, FUNCTIONAL SHAPE, HIGH STRENGTH AND CUTTING-EDGE TECHNOLOGY.

The curved shape and smooth edges allow an easy clamp of the mooring line, avoiding rope consumption. It means no more ropes damaged by sharp edges. The top part of the cleat is made of light carbon fibre, by innovative SMC moulding technology (It is a method of moulding where a sheet of randomly placed carbon fibre strands (or GRP, or Kevlar) and epoxy resin compound, is placed into a preheated mould, and when the mould is closed the material is squeezed under very high

pressure by a vertical press). All the fittings and deck base are made of CNC machined titanium, to offer the best strength, lightness and keep it totally free from corrosion. This cleat is the stronger-one and lighter-one on the market (compared with others of the same size). You can install on every kind of deck surface, composite, GRP, aluminium, steel, or wood. It is easy to install onboard and does not require drainage due to the O-ring seal between the stem and the cylinder.



Features:

- Outstanding and sleek design
- Smooth edges
- Carbon fibre top cleat
- Clear matte / or glossy finish coating
- Titanium fittings
- Totally free from corrosion
- Extremely light-weight and strong
- High load capacity
- Watertight stems
- No drains required
- Easy installation
- Low maintenance
- Functional, reliable, seaworthy
- Made in Italy

Construction & accessories:

- Top cleat made by CF SMC moulding
- Clear matte / high gloss coating
- CNC machined Grade 5 titanium for structural parts
- Installation screws included
- Backing plate available on request



Part number	Material	Lenght (mm)	Depth (mm)	Weight (Kg)	Working load (daN)
CC200	carbon / titanium	200	55	0.45	2200
CC270	carbon / titanium	270	68	1.1	4000
CC350	carbon / titanium	350	80	2.0	6000
CC420	carbon / titanium	420	97	3.9	12000



MOORING SYSTEM - ALUMINIUM



OUR MOORING SYSTEM PUSHES THE BOUNDARIES OF INNOVATION AND DESIGN OF MARINE HARDWARE. WE CONCEIVED A NEW KIND OF POP-UP CLEAT, COMBINING STYLISH DESIGN, FUNCTIONAL SHAPE, HIGH STRENGTH AND CUTTING-EDGE TECHNOLOGY.

The curved shape and smooth edges allow an easy clamp of the mooring line, avoiding rope consumption. It means no more ropes damaged by sharp edges. Besides the innovative carbon-made cleats, we offer also a more conventional range of our mooring system. These cleats are made of marine-grade aluminium. All components are CNC machined from solid bar. The stems are made of CNC machined titanium, to offer the best strength, lightness and keep it totally

free from corrosion. The standard finish is satin silver anodised. Other finishes, hardcote or black anodising, are available on request. The stems are always made of titanium. You can install this cleat on every kind of deck surface, composite, GRP, aluminium, steel, or wood. It is easy to install onboard and does not require drainage due to the O-ring seal between the stem and the cylinder. We can manufacture custom sized cleats, upon request.



Features:

- Outstanding and sleek design
- Smooth edges
- Marine-grade aluminium
- Silver / black anodising finish
- Titanium stems
- Free from corrosion
- High load capacity
- Watertight stems
- No drains required
- Easy installation
- Low maintenance
- Functional, reliable, seaworthy
- Made in Italy



Construction & accessories:

- Top cleat made by CNC machined marine grade aluminium
- Sytems made of CNC machined Grade 5 titanium
- Backing plate available on request



Part number	Material	Finish	Lenght (mm)	Depth (mm)	Weight (Kg)	Working load (daN)
C140s	aluminium / titanium	silver	140	38	0.3	1400
C200s	aluminium / titanium	silver	200	55	0.45	2200
C270s	aluminium / titanium	silver	270	68	1.1	4000
C350s	aluminium / titanium	silver	350	88	2.0	6000
C420s	aluminium / titanium	silver	420	97	3.9	12000
C140b	aluminium / titanium	black	140	38	0.3	1400
C200b	aluminium / titanium	black	200	55	0.45	2200
C270b	aluminium / titanium	black	270	68	1.1	4000
C350b	aluminium / titanium	black	350	88	2.0	6000
C420b	aluminium / titanium	black	420	97	3.9	12000



MOORING SYSTEM - STAINLESS STEEL



OUR MOORING SYSTEM PUSHES THE BOUNDARIES OF INNOVATION AND DESIGN OF MARINE HARDWARE. WE CONCEIVED A NEW KIND OF POP-UP CLEAT, COMBINING STYLISH DESIGN, FUNCTIONAL SHAPE, HIGH STRENGTH AND CUTTING-EDGE TECHNOLOGY.

The curved shape and smooth edges allow an easy clamp of the mooring line, avoiding rope consumption. It means no more ropes damaged by sharp edges. Besides the innovative carbon-made cleats, we also offer a more conventional range of our mooring system. These cleats are made of AISI316L stainless steel and Titanium. All components are CNC machined from solid bar. The stems are made of CNC machined titanium, to offer the best strength, lightness and keep it totally free from corrosion. The standard finish is mirror polished. Other finishes are

available on request: satin finish, through shot peening treatment; black finish, through DLC coating. The stems are always made of titanium. You can install this cleat on every kind of deck surface, composite, GRP, aluminium, steel, or wood. It is easy to install onboard and does not require drainage due to the O-ring seal between the stem and the cylinder. When the cleat is not in use, it can be retracted, almost flush, keeping the deck free and clean. It is possible to design and manufacture cleats with custom dimensions and custom shapes.



Features:

- Outstanding and sleek design
- Smooth edges
- High glossy / satin finish
- Titanium stems
- Free from corrosion
- High load capacity
- Watertight stems
- No drains required
- Easy installation
- Low maintenance
- Functional, reliable, seaworthy
- Made in Italy



Construction & accessories:

- Top cleat made by CNC machined AISI316L
- Stems made of CNC machined Grade 5 titanium
- Backing plate available on request



Part number	Material	Lenght (mm)	Depth (mm)	Weight (Kg)	Working load (daN)
CI 140	AISI316L / titanium	140	38	0.5	1400
CI 200	AISI316L / titanium	200	55	1.3	2200
CI 270	AISI316L / titanium	270	68	2.7	4000
CI 350	AISI316L / titanium	350	88	5.5	6000
CI 420	AISI316L / titanium	420	97	8.9	12000



MOORING SYSTEM - FLUSH MOUNT CLEATS



OUR MOORING SYSTEM PUSHES FORWARD THE BOUNDARIES OF INNOVATION AND DESIGN APPLIED TO DECK EQUIPMENT. WE HAVE CONCEIVED A NEW TYPE OF RETRACTABLE CLEAT, WHICH COMBINES ELEGANT DESIGN AND FUNCTIONALITY (PATENT PENDING).

This originally designed cleat is mounted recessed, flush with the deck and remains completely hidden when in the resting position. As a flush-mounted cleat, it has some innovative features that make it an ingenious alternative to existing products and facilitates installation and maintenance. This cleat is waterproof and does not require drainage. This means that there is no need for access from underneath to connect the drain. Installation can be done from outside, without

reaching under the deck. It just requires the recess and the holes for fixing screws and for the stems. It is secured with 8 countersunk screws that remain hidden below the cover flange. The sliding parts can be dismantled from above for maintenance or eventual replacement, without the need to completely remove the cleat from the hull. The stems are independent and can be used in pairs or separately. Can be used both as a cleat and as a fairlead.



Features:

- Outstanding and sleek design
- Marine grade aluminium / AISI316L
- Titanium shaft
- Free from corrosion
- Light-weight and strong
- Watertight, no drains required
- Easy installation
- Low maintenance
- Functional, reliable, seaworthy
- Patent pending
- Made in Italy

Construction & accessories:

- CNC machined aluminium or AISI316L
- Anodising or polishing finish
- CNC machined Grade 5 titanium for structural parts
- Installation screws included



Part number	Material	Lenght (mm)	Depth (mm)	Weight (Kg)	Working load (daN)
CF240	AISI316L / aluminium	240	90	3.1	2800
CF300	AISI316L / aluminium	300	100	5.0	4300
CF330	AISI316L / aluminium	330	120	7.5	6600

It is also available in a single stem version so that a customised top can be configured with 2, 3 or more elements, also choosing the distance between one and the other. The components are made of CNC marine grade aluminium or AISI316L stainless steel, with

structural parts in grade 5 Titanium. The standard finish of the aluminium is silver, black available on request. The finish of the stainless steel is polished. It can also be shot peened. It is possible to customise the dimensions and structure to make customised cleats.



AWNING SYSTEM



OUR AWNING SYSTEM IS THE ULTIMATE SOLUTION FOR YACHTS AND SUPERYACHTS. COMBINING ELEGANT DESIGN AND CLEVER TECHNICAL SOLUTIONS, IT IS A “MUST” FOR PREMIUM VESSELS.

Our poles are made of carbon fibre, with anti-UV clear coating, they can be painted with custom colours as well. They are manually operated and the awning tension is given by an internal tackle made with Dyneema® rope and low-friction rings. We conceived an innovative deck base, made of AISI316L stainless steel, easy to install on

every deck surface on every boat, with minimum impact on the hull and without drainage (patent pending). it is the smallest foundation available on the market. They are available with a single or double attachment point. The awning is made by Soltis 86®. Other fabrics can be available on request.

Part number	Description	Diameter (mm)	Lenght (mm)
IP S086	awning	-	-
IP 1000	deck socket	Ø 102	-
IP 10XX	carbon pole	Ø 102	up to 2800



Features:

- Carbon fibre poles
- UV protective clear coating
- Custom colour available on request
- Extremely lightweight and strength
- Available size: Ø 45 mm, Ø 66 mm, Ø 86 mm, Ø 102 mm
- Custom size available on request: up to Ø 120 mm
- Internal tackle with Dyneema® rope and low friction rings
- Patented deck base
- Quick and easy handling
- Double attachment available on request
- Lighting system available on request
- Wide colour choice for the awning



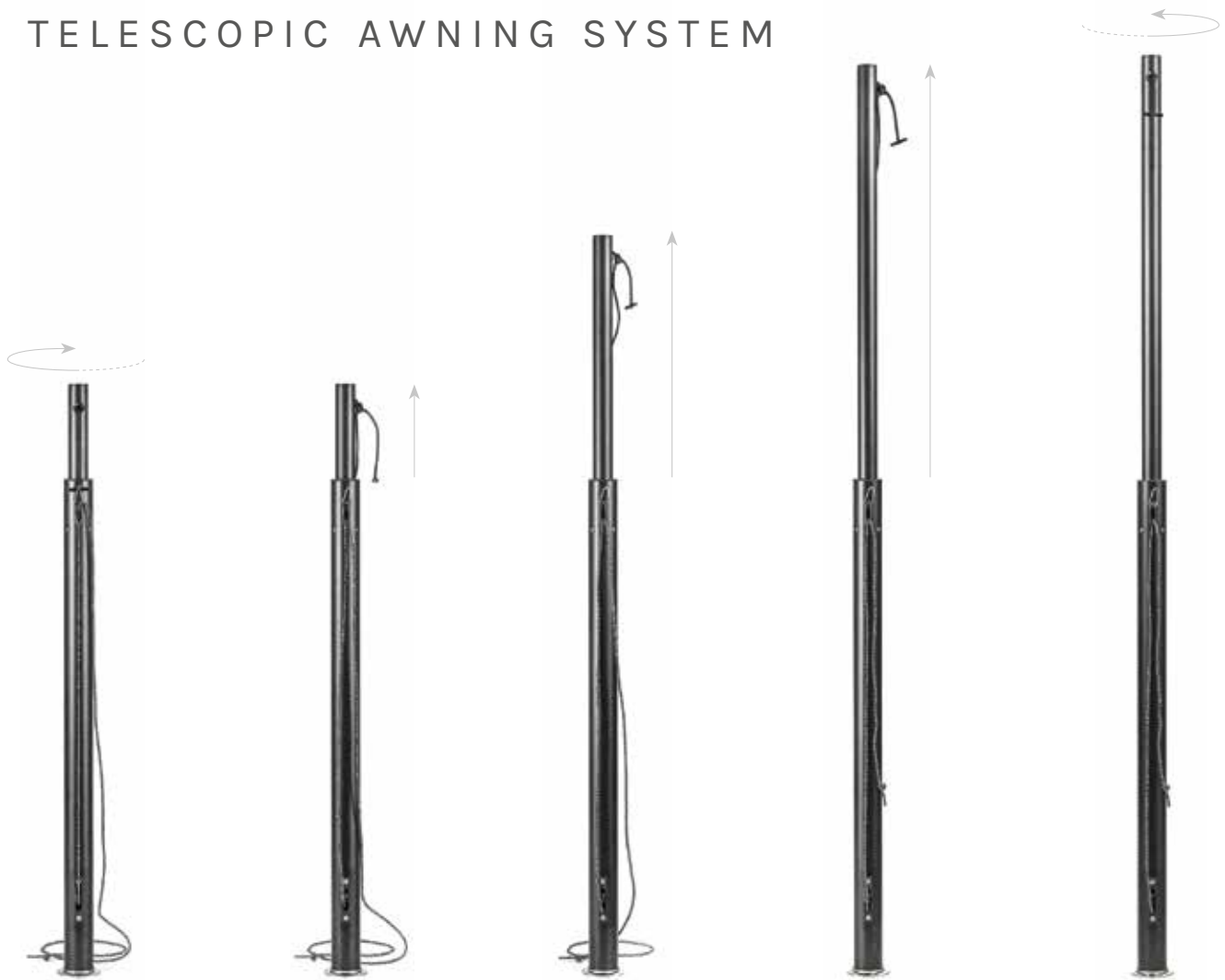
Construction & accessories:

- Pre-preg autoclaved carbon fibre
- Dyneema® and AISI316L fittings
- Storage bag
- Backing plate for deck base (included)

Part number	Description	Diameter (mm)	Lenght (mm)
IP 4500	deck socket	Ø 45	-
IP 4514.01	carbon pole	Ø 45	1400
IP 4516.01	carbon pole	Ø 45	1600
IP 4519.01	carbon pole	Ø 45	1900
IP 6600	deck socket	Ø 66	-
IP 6614.01	carbon pole	Ø 66	1400
IP 6617.01	carbon pole	Ø 66	1700
IP 6621.01	carbon pole	Ø 66	2100
IP 8600	deck socket	Ø 86	-
IP 8620.01	carbon pole	Ø 86	2000
IP 8622.01	carbon pole	Ø 86	2200
IP 8624.01	carbon pole	Ø 86	2400



TELESCOPIC AWNING SYSTEM



ON MEDIUM SIZED YACHTS, WE MAY HAVE STORAGE PROBLEMS, DUE TO THE LENGTH OF THE POLES, WITH TUBES LONGER THAN 170/180 CM.

To overcome this issue, we conceived and manufactured a new kind of carbon pole: a telescopic pole. The telescopic awning pole consists of 2 carbon tubes, sliding one inside the other, led by Delrin bushings. When retracted the length is about 140 cm, and when deployed, it is 210 or 220 cm, depending on the size of the tube. The larger tube gets installed on the standard deck base and fixed on the deck. The smaller tube slides inside. To deploy the pole, you have to turn 90° right (or left) the inner tube

and extend it up to the top and then turn 90° back until it sits in place. The fittings and hardware are the same as the standard awning poles, with 2:1 or 4:1 tackle and low friction rings. The awning, available on request, is made of mesh fabric, type Soltis 86®. Two standard sizes are available: tube Ø 66 mm diameter, 210 cm length, tube Ø 86 mm diameter, 220 cm length. We can realize custom length (between 180 and 220 cm).

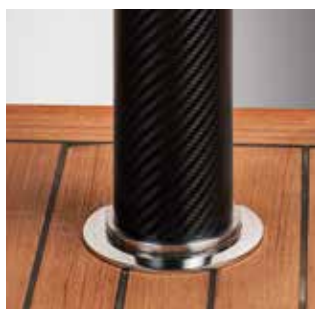


Features:

- Carbon fibre poles
- UV protective clear coating
- Extremely lightweight and strength
- Available size: Ø 66 mm, Ø 86 mm
- Minimum length when retracted, 1400 mm
- Internal tackle with Dyneema® rope and low friction rings
- Patented deck base
- Quick and easy handling
- Wide colour choice for the awning

Construction & accessories:

- Pre-preg autoclaved carbon fibre
- Dyneema® and AISI316L fittings
- Storage bag
- Backing plate for deck base (included)



Part number	Description	Diameter (mm)	Lenght (mm)
IP 6600	deck socket	Ø 66	-
IP 6620 t	telescopic pole	Ø 66	2000
IP 6621 t	telescopic pole	Ø 66	2100
IP 8600	deck socket	Ø 86	-
IP 8620 t	telescopic pole	Ø 86	2000
IP 8622 t	telescopic pole	Ø 86	2200



QUICK MOUNT SYSTEM



OUR FLUSH DECK QUICK-CONNECT SYSTEM OFFERS A WIDE CHOICE OF CONFIGURATIONS AND WORKLOADS FOR MULTIPLE USES, ON SAILBOATS, MOTORBOATS, AND SUPERYACHTS.

From the smallest model, suitable for attaching fenders, ropes, retainers to larger models, with high load capacity, which can be used to stop curtains, halyards, to deflect sheets or as a simple removable eyebolt. The largest model of the series is dedicated to large boats and can be equipped with steel or carbon stanchions, making the system completely removable and easy to install for all applications onboard superyachts: helipads, foldable terraces, areas to be provisionally secured. The pivotal feature of the system is the use of a single base on which different types of hooking can be inserted according to the need for use and load. The particular release system with a side button keeps the upper part of the coupling

completely free to be used in many applications. The bases are available in 4 sizes and are completely waterproof, requiring no drainage. There are three options available for the male plugs. See the reference table for all possible combinations. Both the base and the male are made of AISI316L stainless steel. The standard finish is high gloss polished; Available on request with satin finish, through shot-peening treatment. The textile fitting is made of Dyneema® sk78 / sk99. It is possible to make the same products in grade 5 titanium, on request. Only the imagination sets a limit to the possible uses of this system, practical and quick to use, which leaves the deck free and clean when it is not in use.



Features:

- Outstanding and sleek design
- High load capacity
- Totally free from corrosion
- Watertight
- No drains required
- Easy installation
- Low maintenance
- Functional, reliable, seaworthy
- Made in Italy

Construction & accessories:

- CNC machined AISI316L
- Glossy finish / satin finish
- Textile fitting made of Dyneema®



Part number	Description	Diameter (mm)	Working load (daN)	Weight (g)
Q 2601	quick mount socket Q26	M26x1.5	-	165
Q 2621	soft padeye	38	300	100
Q 2631	Male plug, Ø 4 holes	38	400	90
Q 3201	quick mount socket Q32	M32x1.5	-	260
Q 3211	padeye	49	1200	190
Q 3221	soft padeye	49	500	170
Q 3231	Male plug, Ø 6 holes	49	1300	150
Q 4501	quick mount socket Q45	M45x1.5	-	720
Q 4511	padeye	60	2000	440
Q 4521	soft padeye	60	1200	410
Q 4531	Male plug, Ø 8 holes	60	2200	390
Q 5201	quick mount socket Q52	M52x1.5	-	1160
Q 5211	padeye	69	3000	780
Q 5221	soft padeye	69	2500	750
Q 5231	Male plug, Ø 8 holes	69	3000	720



DECK FILLERS



Features:

- CNC machined aluminium / AISI316L stainless steel body
- Standard aluminium finish: satin and silver anodising
- Standard stainless steel finish: mirror polishing
- Optional aluminium finish: black hardcote anodising
- Optional stainless steel finish: shot peening
- 0-60° watertight bayonet lock
- Spring plunger for handle lock
- Dyneema® retaining wire
- Custom engraving on request



OUR DECK FILLERS INTRODUCE A NEW DESIGN, WITH AN ASYMMETRIC HANDLE THAT GIVES THEM A MORE TECHNICAL AND RACY 'AUTOMOTIVE' LOOK.

The 60° rotation closing mechanism facilitates the opening and closing of the cap, which is secured to the body by a thin Dyneema® rope. A spring plunger keeps the handle in the closed position even when sailing in rough weather and heavy sea. They are made of marine grade aluminium or AISI316L stainless steel and are

available in two types: with drilled flange and through-bolts, with flat flange and fixing from below. There are two hose tail sizes: 38 mm (1 1/2 in) and 50 mm (2 in) diameter. Standard engravings: WATER, DIESEL, FUEL, PETROL, GAS, WASTE. We manufacture titanium caps on request.

STANCHION SYSTEM

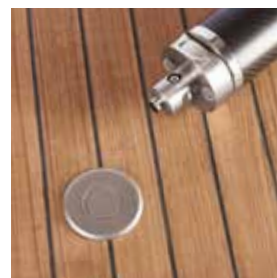


Features:

- Innovative design and technology
- Full carbon pole
- UV protective clear coating
- Available size: Ø 33 mm, Ø 45 mm, Ø 66 mm, arch-shaped
- Custom colour available on request
- Extremely lightweight and strength
- Easy installation
- Low maintenance
- Proprietary connection system
- Made in Italy

Construction & accessories:

- Pre-preg autoclaved carbon fibre
- Chopped carbon fibre (for arch-shaped stanchion only)
- Textile fitting made of Dyneema®
- CNC machined AISI316L fittings



OUR STANCHION SYSTEM CONSISTS OF 3 TYPES: FIXED STANCHIONS, TO BE PERMANENTLY INSTALLED ON BOARD; REMOVABLE STANCHIONS WITH A QUICK LOCK COUPLING SYSTEM; REMOVABLE STANCHIONS WITH A BAYONET COUPLING SYSTEM.

The stanchions are made of carbon fibre tubes and AISI316L stainless steel bottom end. The “fixed” type has a terminal with a threaded pin, to be screwed directly into the deck. It can be fastened from below by means of a nut or it can be screwed onto a threaded counterplate prepared on the hull. The removable “quick lock” system uses our quick-connect fittings for the base on the deck and for the male plug that carries the carbon tube. The removable “bayonet” type has a special deck socket to be mounted on the boat and a bayonet coupling device

that engages with a 90° rotation. The stanchions can have from 2 to 4 rows of lifelines, depending on the height of the stanchion and the reference standard. The 33 mm diameter stanchions are typically suitable for boats under 24 meters long, which must comply with the ISO standard. The 66 and 45 mm diameter stanchions, are conceived especially for large boats and superyachts, for securing deck areas, helipads, stern platforms and opening terraces. made of chopped carbon fire, with the same connection system on the deck.



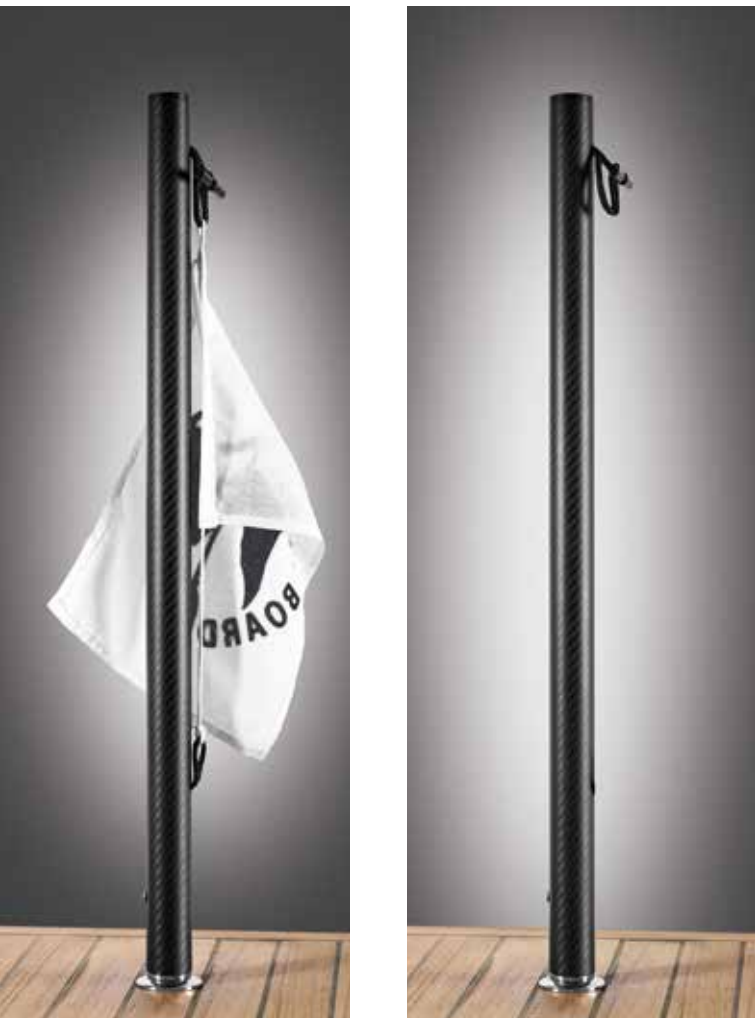
REMOVABLE FLAG POLE



OUR REMOVABLE FLAG POLE CONSISTS OF 2 TYPES: ONE WITH A SCREW CONNECTION AND ONE WITH QUICK-LOCK CONNECTION. BOTH ARE MADE OF CARBON FIBRE TUBE AND AISI316L STAINLESS STEEL FITTINGS.

The screw-lock flag-pole has a threaded pin end, which is screwed into its base mounted on the deck. This is the same patented device used in our awning poles; When the pole is fully screwed and tightened, the pole is free to rotate to align the flag. The “quick-release” version uses our quick-connect fittings for the base on

the deck and for the male plug that carries the flag pole. Both options are available with carbon tubes diameter 33 and 45 mm. Available on request bigger flag poles. The standard length is 630 mm and 1000 mm. Poles with bespoke length can be made on request.



Features:

- Innovative design and technology
- Full carbon pole
- UV protective clear coating.
- Available size: Ø 33 mm, Ø 45 mm
- Extremely lightweight and strength
- Easy installation
- Low maintenance
- Proprietary connection system
- Made in Italy

Construction & accessories:

- Pre-preg autoclaved carbon fibre
- CNC machined AISI316L fittings



Part number	Description	Diameter (mm)	Lenght (mm)	Weight (g)
SCREW CONNECTION				
FP 3300	flag pole base	M24x2	-	210
FP 3363	flag pole	Ø 33	630	600
FP 3310	flag pole	Ø 33	1000	700
FP 4500	flag pole base	M24x2	-	230
FP 4510	flag pole	Ø 45	1000	1160
QUICK-LOCK CONNECTION				
Q 3201	quick mount socket Q32	M24x1.5	-	260
FQ 3363	flag pole	Ø 33	630	600
FQ 3310	flag pole	Ø 33	1000	700



REGISTERED OFFICE:
Via Sacco e Vanzetti, 7
60131 Ancona - Italy
www.i-carbon.it
info@i-carbon.it

FACTORY:
Via San Leo, 3
61122 Pesaro - Italy
+39 0721 402287

