



## ITALIA 9.98 / TECHNICAL SPECIFICATIONS / EDITION DECEMBER 2015

### CONCEPT

The design team of Italia Yachts, Italian shipyard producer of luxury Blue Water Cruiser, has developed and realized a sportboat design of the length of 34", adapting the characteristics to the specific demands of the client. The "Fuoriserie" models detach from the normal Italia Yachts range because the design follows the requests of owners that like to have a customized yacht. This approach allows the yard to explore alternative design spaces.

### DESIGN

The design is the result of the work of Italia Yachts Chief Designer, the Naval Architect Matteo Polli, strong of the previous design experiences with the Italia Yachts range and the M37, one of the most successful boats in the ORCi history. Matteo Polli has been co-working with Matteo Ledri (one of the few Italian to be involved in the latest edition of the America's Cup - CapeHornEngineering) for the computational fluid dynamics analysis and with the designer Kristian Macchiut (KMD) for the style of the interiors and deck.

### PURPOSE

This new boat is designed specifically for fun sailing and she is particularly dedicated to handicap racing (ORC and IRC) but without the preclusion of being used for short cruises. Great attention has been paid in order to create a fast boat but at the same time easy to sail and to get to maximum performance. The main objective has been to find the correct balance between the different kind of use, from windward-leeward races to offshore racing or cruising, obtaining a true all-round with an optimal balance between upwind and downwind performance both in light and strong winds.

### ITALIA 9.98 FUORISERIE

**Model:** Italia 9.98 fuoriserie

**Project:** Matteo Polli / Italia Yachts Design Team / KMD Design

**Shipyard:** Italia Yachts - Venezia

**Property and management:** Italia Yachts - Venezia

### Italia Yachts Venezia

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Photo Maria Muna

# ITALIA 9.98 YACHTS

*fuoriserie*

## PROJECT

The design of this modern Racer / Cruiser has been developed with the aim to combine exciting sailing performance to the possibility of short cruises.

The lines of the hull, fin and rudder are the result of numerous experiences in the field of optimization of racing boats, but also sophisticated studies performed in collaboration with specialists in computational fluid dynamics.

The design of the deck is the result of a search in terms of ergonomics in various uses, design and aerodynamics.

The internal rules are the result of the work of architects who introduced a modern and minimal design while maintaining the quality marine that the interior of a boat must have.

The project of Italia 9.98 was carried out in compliance with CE (cat. A / unlimited sailing) for pleasure boats and complies with ISAF special regulations.

## CONSTRUCTION

The hull and deck are constructed in sandwich cores with PVC variable density depending on the area. The skins are made of reinforcements in biaxial and unidirectional E-glass impregnated with vinylester resin.

In correspondence of the attack of the bulb, of the base of the mast, the passage of the rudder shaft and foot of the propeller, the PVC core is replaced by a monolithic lamination to improve the resistance to concentrated efforts and to avoid phenomena of delamination. The internal structural frame, laminated on female mold with unidirectional carbon fiber and biaxial glass + - 45°, includes reinforcement of the bottom hull and some parts of the interior furniture, creating a single structure that carries the load of the mast, the keel and shrouds.

All bulkheads are marine plywood 15mm thick and are gusseted to the hull, the internal structure and the deck.

Hull and deck are finished in gelcoat, the bridge and the functional areas are treated with anti-slip made from the mold.

## KEEL

The keel has a "T" configuration with the blade and torpedo in fusion of lead with 3% antimony. The geometry and airfoils have been designed and optimized with the help of external consultants and advanced software currently in use by the consortia of the America's Cup. This has allowed to obtain a very efficient wing despite of a content draft.

## HELM

The rudder blade is laminated with biaxial / unidirectional and PVC core female mold. The rudder circular section biconical, milled with blades of support, is anodized 6082. The stock bearings are self-aligning roller bearings. As an alternative to the bar in fiberglass, you can install a dual steering wheel (diameter 800 mm).

## COCKPIT

Large open cockpit aft with two benches to 1.70 m, which will have the aft portion containing and removable (optional) to transform the comfortable cockpit cruising in one perfect for racing.

There is comfortable locker for stowage of the raft in the middle of the cockpit. The area under the cockpit behind the mainsheet is usable as storage and you have access to a large door located at the extreme aft.

## SKYLIGHTS AND DOORS

A hatch in the cabin, a portlight in the bathroom and one in the aft cabin are present. The correct positioning and sizing ensure excellent ventilation without obstructing the deck. Also on deck two large side plexiglass windows are integrated, so you get a great interior brightness combined with a modern and sleek design of the deck. Optionally, you can add integrate two portlights on the side windows at the kitchen and correspondence.

## DECK EQUIPMENT

All maneuvers are easily adjustable from the cockpit while retaining the uncluttered deck by ropes and equipment thanks to the steps built into the structure. The deck is equipped with the following:

- 2 winches 46 primary
- 2 halyards winches 40
- Hoist mainsheet with setting up
- Mainsail traveler with on ball bearings
- Rails jib on deck with adjustable cart
- Backstay 48: 1
- 6 stoppers
- Dyneema® sheets
- Stainless steels covered in INOX 316
- Deck hardware and other equipment
- Backlight compass

All functional areas of the deck are finished with non-slip beaded high grip. Four mooring cleats ensure maximum functionality and minimum impediment to navigation.

## MAST AND RIGGING

The mast is made of aluminum with high performance profile and tapered, armed 9/10 - 2 swept spreaders of 21° to facilitate the roach flakes, and has a rail for the pole.

The boom in aluminum hides inside the hoist tense-base.

The rigging is discontinuous spiral cable in 1x19, with turnbuckles.

The lands of the shrouds are in the hull.

The forestay, also in spiral cable 1x19, complete with plastic foil.

The backstay is in low-stretch textile with stick lifting.

The rigging is in Dyneema® and in particular: a main halyard, jib halyard, spinnaker halyard at the masthead.



## INTERIOR

The interior of IY 9.98 is divided in 2 cabins, one head (aft) and the central saloon that incorporates dinette, galley and chart table. The modern design surfaces in gelcoat is designed so that it can be functional in both racing and cruising. Some parts, such as closets and cabinets are made of fabric and can be removed to lighten the displacement in the race. The deck is made of marine plywood finished in laminate color choice. The 2 doors (head and aft cabin) have thresholds and are finished with aluminium techniques frames to increase endurance sports usage.

### Cabin

The cabin is composed by a bed of 1.95 m in length and two pockets removable canvas cupboard. The convenient storage compartment under the floor of the bed is available for stowage.

### Galley

The "L" galley consists of a sink with mixer tap folding, a generous 80 liter cell fridge, a kitchen tilting 2 burner gas stove, drawers and other compartments.

### Chart Table

The chart table is placed in the dinette and inside it there is a storage compartment (can easily hold a laptop). The electrical panel and any electronic device including an LED light are placed laterally to the navigator.

### Head

The head includes: manual toilet with provision for the installation of holding tank, sink with mixer tap, cupboards ups and down with tilted mirrors and shower. From the bathroom you can access a large storage area communicating with the stern locker.

### Aft cabin

The IY 9.98 has a spacious aft cabin on the left separated from the dining area with a double bed of 1.95m in length and a closet with room for shoes.



## ENGINE

The yacht is equipped with an inboard diesel with saildrive 20cv bladed folding propeller racing version, place in a compartment easily inspected and soundproofed. The large oil tank (61 liters) allows considerable autonomy at cruising speed incurred.

## TECHNICAL PLANTS

### Electrical and lighting

The panel is located above the chart table, where there are the circuit breakers for each service board, digital gauges for tank level and battery status. In a practical and accessible technical space dedicated to the electrical system, it is placed a 100 Ah battery while the engine battery 55Ah is positioned below the bed of the stern. The interior is well lit with LED spotlights creating a warm atmosphere in any room.

### Fresh Water System

The IY 9.98 has a well-organized water system that includes 1 tank of 110 liters with level indicator on the panel. All water intakes and discharges are flush with the hull.





## MAIN DIMENSIONS

**Length overall:** m 10,30 (with spoiler)

**Hull length:** m 9,98

**Waterline length:**

**Beam max:** m 3,54

**Draft:** m 1,90

**Displacement:** Kg 4.500 (ORC lightship)

**Mainsheet area:** mq 38

**Jib area:** mq 32

**Spinnaker area:** mq 90

**GPH ORC 2015 (estimated):** 633 s/m

Right to modifications without prior notice.

## Polar Graph

