

Y FERRETTI:
A GUIDETO
UNDERSTANDING THE
DIFFERENCE.

2014 EDITION



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I. FERRETTI. INTELLIGENZA NAUTICA ITALIANA.

BRAND VALUES

All Ferretti Group brand yachts are designed and produced according to building techniques and organizational processes that guarantee standards of excellence for a set of Group values. The constant, meticulous attainment of such values has enabled the Ferretti Group to become the point of reference in the global panorama of luxury yachting.

The Ferretti brand is the true incarnation of the sea-going tradition combining luxury yacht-building excellence and technological know-how which has been consolidated over the years with the creative intuition and talent for innovation of the brands founder. Harmonious design and intelligent engineering are cleverly combined with a craftsmanship that only a Made-In-Italy product can possess – an expertise which thrives to this day. Ferretti is a superb blend of the timeless appeal of Ferretti Yachts, the perfection and attention to detail of Ferretti Custom Line and the experience and reliability of Ferretti Navetta. Ever since 1968, the Ferretti brand has been the benchmark for boatbuilding and today is represented by three product lines, each with its own unique character and capable of meeting the diverse needs of boat owners all over the world, from planing flying bridge to semi-displacement and semi-custom yachts constructed in composite fiberglass. At Ferretti the engineering skills needed to generate state-of-the-art products work in perfect harmony with the creative inspiration needed to conceive new solutions. It is the fusion of being and doing. Quintessentially Italian: know-how and a style like no other.

II. THE DNA OF FERRETTI YACHTS

A NEVER-ENDING STORY.

Ferretti came into being in 1968 when brothers Alessandro and Norberto Ferretti created the first nautical division of the family business, then a specialist luxury car dealership. Three years later, in 1971, at the Genoa Boat Show, their first model, a wooden motor-sailer, was greeted with great acclaim. This 10-metre yacht, equipped with both sails and an engine, was particularly comfortable and safe for leisure cruising. Their intuitive flair enabled Ferretti to figure on the list of the world's most prestigious boatyards. In 1975, the Ferretti brothers decided to abandon cars altogether in order to commit themselves fully to the nautical world and the next decade saw the great leap forward – the switch from sail to engine power. In 1982 the first Ferretti motor-yacht made its debut and the company began producing boats for sport fishing, with an open and flying bridge, bearing witness to all the revolutionary changes that have transformed today's boat-building industry: the stern bridge, the up-and-over salon windows that open onto the cockpit and the internal corridor from the salon to the flying-bridge. The 1990s were dedicated to research and development in nautical engineering with the start-up of the in-house engineering division and winning performances in offshore races. Subsequent years have seen the range increase to its current size, but the story doesn't end here, as there is constant renewal with state-of-the-art design solutions.

INNOVATION IN OUR DNA.

Ferretti's vocation for research and innovation is imprinted on our DNA, working in perfect harmony with our designers to guarantee optimum functionality for onboard spaces. Thanks to their experience, the Advanced Yacht Technology & Design centre (AYT&D) and Ferretti Group Engineering have designed monitoring, mooring and stabilising systems that make Ferretti yachts unique, with their CFD – Computational Fluid Dynamics, Fer. Wey hull

and Anti-Rolling Gyro system. CFD is the powerful system for calculating the dynamics of fluid particles underneath the hull. The Fer:Wey – Ferretti Wave Efficient Yacht – trans-planing hull makes navigating extremely comfortable and energy-efficient in the medium-speed range, at the same time minimizing roll and the formation of the stern wake. This hull ensures the boat excellent stability in longitudinal trim, without perceptible alterations to trim with speed changes. The ARG – Anti-Rolling Gyro system is a gyroscopic device that uses the movement of a rotor to reduce the boat roll significantly, to the benefit of the comfort of all onboard. In addition to these solutions are the Smart Command Easy Dock system and the ZF Auto-Troll system that ensures the boat handles impeccably, plus the integrated management systems, such as Gi8 and Naviop, that make it possible to control all the yacht's functions from a single display. And that's not all: the exclusive Ferretti SteerCommand by ZF, that replaces the traditional hydraulic steering system, has simplified this operation making the vessel totally safe and maneuverable at any speed, bringing its ease of handling to unprecedented levels. What's more, Ferretti yachts uses the latest generation common-rail engines that deliver high performance while operating to strict environmental standards for sound emissions and water pollution.

LINES, DESIGN CUES AND VOLUME: THE PERFECT BALANCE.

Clean, uncluttered, functional lines and a layout designed for maximum onboard comfort. The luxurious finishes and the harmonious blend of discreet and elegant colours coupled with precious materials are combined to create a timeless yacht that reflects perfect harmony between the shipyard and the designers at Studio Zuccon International Project. Modern forms and essential design cues create an incredible amount of natural light which floods interior spaces and creates a unique and intimate relationship directly with the sea. The configuration of living spaces ensures living on board like no other, with functional and technical solutions which are integrated and optimized perfectly to guarantee an unforgettable cruising experience.

UNEQUALLED SAFETY.

Owning a Ferretti Yachts means living the sea in tranquility, knowing that you have available a suite of customized services, from the summer emergency assistance program available to boat-owners in any corner of the world, to the Platinum Cruise suite of services which offers attractive packages on original spare parts thanks to a warehouse with 8,000 items always in stock and the Platinum Selection, a guarantee which certifies the genuine condition on pre-owned vessel purchases.

Each and every Ferretti service is designed to enable customers to enjoy a unique privilege, that of being part of an exclusive world of shared values, special events and distinguished style.

III. THE DNA OF FERRETTI CUSTOM LINE

A TAILOR MADE PHILOSOPHY.

Ferretti Custom Line is a unique range of yachts with all the features typical of fiberglass flying bridge planing yachts over 30 metres in length. There are four models in the range, each offering plenty of solutions for personalization. All three models, the 97', 100' and the 124', provide plenty of living and cabin space coupled with solutions designed to optimize onboard living while ensuring the owner the highest level of privacy. Ferretti Custom Line was established in 1996 to meet the demand for a range of tailor-made yachts larger in size than the Ferretti Yachts range that then produced flying-bridge models between 12 and 25 metres. The idea was to make inroads into a more ambitious market and more importantly enable existing customers to remain loyal to the brand. This new range was presented with the double-F Ferretti logo coupled with the name Custom Line. The range soon included both planing and semi-

displacement models capable of delivering the ultimate cruising experience for even the most demanding of owners. Today Ferretti Custom Line specializes in the production of state-of-the-art planing flying bridge vessels.

CONCEPTS TAKE SHAPE.

Ferretti Custom Line is synonymous with technical excellence, safety and maximum onboard comfort. Innovative design solutions make for extremely easy handling. AYT&D (Advanced Yacht Technology & Design) and Ferretti Group Engineering develop each vessel in close collaboration during every stage in the design and development process. Every yacht is equipped with the anti-rolling gyro (ARG) stabilizing system that reduces the rolling caused by the waves significantly, the Naviop system for monitoring all the onboard functions by way of an interactive display, and common rail engines that deliver high performance while respecting strict environmental standards for sound emissions (ISO 14509) and water pollution. To guarantee the utmost safety, Ferretti Custom Line gives clients the opportunity to have their vessel adhere to the MCA Short Range, a code of practice specifically devised for maxi-yachts from 26 to 38 metres in length and charter vessels.

UNMISTAKEABLE STYLE.

The exterior lines that make Ferretti Custom Line so unique are the result of the longstanding partnership between Studio Zuccon International Project and the Ferretti Group.

Boat-owners can have their vessel tailor-made to their taste and style, from the selection of precious timbers to fittings and soft décor, making each vessel truly unique.

Ferretti's showroom is the place where dreams can begin to take form, with a truly unique and personalized experience offered to clients who can, in consultation with Ferretti's specialized architects and designers, create step-by-step their ultimate cruising vessel.

IV. THE DNA OF FERRETTI NAVETTA

GO ANYWHERE

Ferretti Navetta represents a unique class of yachts with all the features typical of semi-displacement vessels offering innovative on-board solutions for a truly unforgettable cruising experience. The Ferretti Navetta 26 Crescendo and Ferretti Navetta 33 Crescendo ensure excellent sea-keeping ability for long-range cruising. These "little ships", as the name Navetta implies, boast surprisingly easy handling characteristics coupled with ample living spaces for the owner, guests and crew. Ferretti Custom Line was created in 1996 to meet the demand for a range of tailor-made yachts larger in size than the Ferretti Yachts range that then produced flying-bridge models between 12 and 25 metres. The idea was to make inroads into a more ambitious market and more importantly enable existing customers to remain loyal to the brand. This new range was presented with the double-F Ferretti logo coupled with the name Custom Line. This first step was soon followed by others, which saw the range include both planing and semi-displacement models capable of delivering the ultimate cruising experience for even the most demanding of owners. Today, Ferretti Navetta forges on, specialising in the construction of world-class semi-displacement vessels in fiberglass that give their owners the chance to experience long-range cruising.

THE CONCEPT LABORATORY: DESIGN.

Ferretti Navetta is synonymous with technical excellence, safety and maximum onboard comfort. Innovative design

solutions make for extremely easy handling. The low fuel consumption of each Navetta gives owner and guests the chance to enjoy long distance cruising and navigate a vessel that boasts incredible sea keeping characteristics. AYT&D (Advanced Yacht Technology & Design) and Ferretti Group Engineering develop each vessel in close collaboration during every stage in the design and development process. Every yacht is equipped with the anti-rolling gyro (ARG) stabilizing system that reduces the rolling significantly, and monitoring systems (like the Naviop system) for monitoring all the onboard functions by way of an interactive display, and common rail engines that deliver high performance while respecting strict environmental standards for sound emissions (ISO 14509) and water pollution. To further benefit owners who desire to charter their vessels, Ferretti Navetta gives owners the opportunity to have their vessel adhere to the MCA Short Range, a code of practice specifically devised for maxi-yachts from 26 to 38 metres in length and more importantly for owners who intend to charter their vessels.

STYLE TAKES SHAPE: DESIGN AND PERSONALISATION.

The exterior lines that make Ferretti Custom Line so unique are the result of the longstanding partnership between Studio Zuccon International Project and the Ferretti Group. Boat-owners can have their vessel tailor-made to their taste and style, from the selection of precious timbers to fittings and soft décor, making each vessel truly unique. Ferretti's showroom is the place where dreams can begin to take form, with a truly unique and personalized experience offered to clients who can, in consultation with Ferretti's specialized architects and designers, create step-by-step their ultimate cruising vessel.

V. THE 16 UNIQUE SELLING POINTS YOU NEED TO KNOW

I. THE DEVIL IS IN THE DETAILS: PRODUCT DESIGN

Be the very first company on the market to dictate the rules of the sector – always!

This is the mission of AYT&D, the Ferretti group naval research and design centre, and Ferretti Group Engineering.

In order to do this, our engineers use the most advanced computer science currently available on the market during each and every phase of design and development - from the hull, to the interiors, from the submerged profiles to the impact of the boat on the waves in even the harshest weather conditions, from the study of the propellers to the analysis of the fluid dynamics. From setting new standards in intelligent layout design to electro-hydraulic lateral terraces which are opened with the ease of a switch. Detailed studies are carried out continuously in order to offer our customers an exemplary, highly functional product with no compromises on comfort, timeless design and made-in-Italy craftsmanship

The extensive range of yachts on offer is developed by highly specialized technicians and engineers at AYT&D –one of the most advanced naval research and design centres in the world, which liaises with the Centro Stile, an expert team of architects and designers who meticulously research aesthetical, functional and innovative solutions, and with Studio Zuccon International Project, an industry leader in design which collaborates closely with Ferretti across all three product ranges.

2. HIGH PRECISION MACHINING FOR PLUGS AND MOLDS

The Ferretti Group is proud to own a production centre that houses a plant, namely one of the largest and most advanced 5-axis milling machines in Europe, which is used to build the plugs for all the Group's new yachts. The structure, the sheer size of which will enable engineers to mill plugs for boat hulls of up to 30 metres (100 feet) in length, is equipped with technologically innovative devices able to satisfy the rising demand for both new models and increasingly more complex and performing shapes received from the various Group brands.

The machine's movement is performed on 5 axes (X, Y and Z in longitudinal, cross and vertical advance, in addition to the rotation movements that the arm's head can perform inside the three-dimensional space). This enables to perfectly reproduce CAD 3D drawings and even to realize models with very articulated surfaces. The type of machine and the set of tools supplied with it (such as remote control cameras, devices with diagnostic function, and axes update) allow for continuous working cycles, thus enabling to double production and offering the utmost accuracy and symmetry of the hulls in every small detail (until now, such levels were achieved only by high precision machining centres).

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3. XFT - THE ULTIMATE SOLUTION FOR RIGIDITY AND STABILITY IS IN CROSS FIBRE TECHNOLOGY

The continuous innovation of the design of our luxury yachts has led AYT&D and Ferretti Group Engineering to develop a new lamination technology expressly designed for FERRETTI. The passage to this new technology has allowed our designers to create remarkably innovative lines, introducing larger hull windows while increasing the hull rigidity.

The advantages of this technology are summarized below:

HULL RIGIDITY

The introduction of large windows and the installation of more and more powerful engines have required to pay particular attention to the dynamic behavior of the yacht and to the perfect distribution of loads. The progress of the forces produced when navigating at high speed or in rough sea conditions has been studied by analyzing each section of the yacht and a special lamination technology has been designed using special materials and directional fibers optimizing torsion and flexion.

HIGHER DYNAMIC STABILITY OF THE YACHT

If the lamination of the bottom increases the weight by about 7-10%, the weight of the side, deck and superstructure considerably decreases by about 15-25%, thus resulting in a lighter boat with a lower centre of gravity that is therefore more stable both during navigation and when moored.

BETTER SURFACE QUALITY OF THE GELCOAT

The use of this newest generation lamination technology has also enabled to improve the external quality of the gelcoat since the structure of the lamination is less visible from the outside.

4. THE HEART OF A FERRETTI IS IN THE ENGINE ROOM: INTELLIGENT DESIGN & ERGONOMICS

Engines, generators, gearboxes, all the auxiliary systems, the air-conditioning systems, batteries, electric panels, exhausts, and all the other parts which are located in the engine room must be easily accessible and – it is extremely important – must not require removal of other mechanisms in order to gain access to them. The absolute priority of access is given to those devices which must be reached immediately in an emergency situation (for example, the bilge pump, water intake valve of the engines, etc.) followed, in order of priority, by those which require regular inspections (replacement of liquids, filters and the like).

Moreover, as far as all FERRETTI vessels are concerned, the engines can be extracted without cutting or ruining the

surrounding fiberglass. Ferretti Custom Line and Ferretti Navetta models also benefit given their generally larger LOA from even more intelligent solutions in terms of technical components layout within the engine room. FERRETTI as a result is an industry leader in maximizing the use of space and developing the most ergonomic friendly configurations which derive from experience.

5. MORE THAN MEETS THE EYE AIR-CONDITIONING SYSTEMS

All Ferretti yachts are equipped with chilled water air-conditioning systems, i.e. with a refrigerating system installed in the engine room that sends chilled water to special ventilating units in the cabins. This system differs from that used by many of Ferretti's competitors which use forced-air systems (defined as "direct expansion" systems, which cool the gas and send it directly to ventilating units in the cabins). The chilled water system allows for the regulation of the fan speed and temperature in each cabin independently and solves the problem of the frequent breakdowns of the compressors that are so common with direct expansion systems.

6. ELECTRICAL SYSTEMS DESIGNED FOR MAXIMUM SAFETY

The electrical systems of all FERRETTI models have been designed to guarantee maximum safety on board. Since incorrectly made electrical systems are one of the major causes of on defaults, FERRETTI adopts special precautions both in the design and production of its electrical systems, such as:

- Compliance with ISO 10133 and ISO 13297 standards: each single unit and each power line (e.g. outputs from the battery chargers and alternators, etc.) is protected by a magneto-thermic switch – a fuse positioned for easy access, and the scaling of the cable sections is carefully designed to respect the tables of acceptable power capacity set down in the standards.
- Cables are set in self-extinguishing sheaths that ensure double insulation and greater mechanical resistance.
- All electrical housings respect the Glow Wire Test 960 °C. This test is the only one that certifies the real self-extinguishing property of materials.
- A very flexible approach is used for the management of a.c. sources: for example, when there are 2 generators and 2 landline sockets, it is possible to power the two on-board power lines (e.g. bathrooms and air conditioning). Many boats of rival firms are unable to adjust to the limited energy supply available at some wharfs.
- Each generator has its own battery, with the respective battery cut-off switch. This means that the generator battery can be safely isolated (e.g. during winter mooring).
- In the models equipped with a software monitoring system (gi8, Naviop), the controls of the various units being monitored can be managed manually from the control panel (step-on step-off relay) independently of the electronic system.
- The detailed electrical diagrams are numbered clearly (cables, leads) and are always supplied with the on board documentation to facilitate any necessary maintenance or intervention by technicians
- For each Ferretti model it is possible to adopt LED lighting for internal and external areas on Board. This technology allows owners the chance to reduce significantly the electrical consumption of the vessel. Thanks to the lower temperatures generated from a LED system, the A/C systems usage are consequently reduced allowing available "power on-board" to be dedicated for other functions.

7. THE CLOSEST SOUND TO SILENCE: NOISE ISOLATION AND ACOUSTIC COMFORT

In order to achieve the best result within the sphere of noise isolation, anticipating the new European regulation that was established in 2005 (FERRETTI was the first brand in Italy to obtain the relative European certification ISO 14509):

- The underwater exhausts are of considerable importance for lowering the noise levels on the boat and are developed on numerous models across the range;
- The primary fuel tank is positioned transversely in-between the engine room and living areas. This creates thanks

to the tanks thickness and volume a physical barrier to further enhance the sound isolation in the cabins from the noise generated by electrical systems, engines and generators;

- The soundproof panels assembled on the walls of the engine room interrupt a series of frequencies which would otherwise be extremely disturbing;
- The engine room has extremely thick, sealed hatches;
- The propeller shafts are perfectly aligned, otherwise they would generate noise and vibrations;
- The shaft struts have a low cavitation profile in order to prevent noise made by the propeller;
- The propeller has a sufficient clearance from the bottom of the boat to prevent noise being caused by water turbulence;
- The propellers are balanced by extremely high-precision machinery;
- High efficiency engine anti-vibration mountings;
- On those boats with a v-drive, the engine mountings can be even softer since they do not have to absorb the thrust from the propeller. Moreover, the engines are generally underneath the cockpit, far from the sleeping area and living-room;
- Generators are housed in soundproof casing, and preferably run at low revs, with multi-cylinder engines;
- Cool water circulation air-conditioning system chillers are in the engine room, far from the sleeping areas;
- Auxiliary pumps are concentrated in the engine room, away from the sleeping areas;
- In order to avoid vibration created from the friction from glazing installation, the glass is glued with structural adhesives and polyurethane directly onto the fiberglass without the auxiliary of steel frames.

8. YOU CAN REDUCE ROLL: ANTI ROLLING GYRO STABILIZATION

ARG systems are an integral part of a project to increase the comfort onboard FERRETTI boats. It enables to reduce the rolling of the yacht significantly, both at anchor and during navigation. FERRETTI now offers the choice among many of its models to install Seakeeper (from 2014-2015) or Mitsubishi ARG systems – which can be left to operate even at night time without disturbing the ship owner and his/her guests.

The ARG system is a patented system, based on CMG (Control Moment Gyro) technology and on a physical principle for which a spinning top remains balanced as long as there is enough energy to make it spin. The heart of the system is a rotor taken to high speed by an electric motor which, thanks to the physical principle described above, produces a force contrasting the floating rolling of the yacht. The force is the same that, in the case of the spinning top, keeps it upright.

The excellent results obtained by the stabilizing effect on the perception of comfort onboard, the easy use (only one switch to operate), the absence of maintenance, the silent operation of which only the brands of Ferretti Group can make use, make of this system another important reason to choose a FERRETTI yacht.

9. BEYOND HORIZONS: THE OWNERS CABIN AND WINDOWS ON THE SEA

This generation of windows is the maximum representation of the extent to which technological research may help to achieve the unmistakable style of FERRETTI boats. The design of remarkably large 'windows on the sea' give the owners a priceless attribute: the possibility to enjoy breathtaking sea views without having to live sealed in an "enclosed" cabin, as it happens in some models produced by our competitors. This is the result of the combination of top quality design and greatest attention to structure, materials and building techniques – it is what makes the difference on board to feel the Ferretti difference.

AYT&D, Ferretti Group Engineering and Centro Stile have first carefully analyzed the best materials available on the market, including highly resistant crystals and then they have identified the best building and assembly methods ensuring utmost safety even in case of accidental impact. The crystals used are stratified HIR (High Impact Resistant)

type, technology used for security glasses. They are glued to the fibreglass of the structure with special type-tested polyurethane adhesives for nautical use, which guarantee great elasticity and maximum cohesion between the glass and the fibreglass of the hull. The union of the three above-mentioned materials making up this innovative window was tested under the supervision of RINA and showed to be able to perfectly resist stresses more than 4 times higher than those required by the regulation.

10. LOOK CLOSER. OPTIMAL OPTICS, SAFETY AND DESIGN OF GLAZING

The stratified windshields and tempered glass used by the Ferretti Group guarantee both excellent optical standards and the highest levels of safety and protection, thanks to the plastic interlayer and a special chemical hardening process. In fact, should the windshield break, the plastic interlayer and the temper process prevent the risk of glass fragments flying off. In addition to these technical characteristics, lateral glazing fixed on the superstructure of Ferretti vessels are concave, or, curved. This is one of the most unique visual aspects which differentiate Ferretti from its competitors – not only from a cost perspective (over two to three times more costly than flat glazing) but also from an emotional perspective: design with no compromises on safety and functionality.

11. AGILITY, CONTROL AND EFFICIENCY: THE ZF STEERCOMMAND AND JOYSTICK MANEUVERING SYSTEM (JMS)

The ZF SteerCommand for Ferretti replaces the traditional hydraulic helm and comprises an electric motor on the helm wheel. By using an optimized algorithm, it operates each of the two linear actuators individually, in the way that best suits speed, angle of turn and sailing conditions.

The ZF SteerCommand for Ferretti, in fact, allows yachts to be sailed and maneuvered in total safety at any speed. The servo-assisted movement of the two rudders and the ability to differentiate between the toe-in and toe-out rudder angles provides unprecedented control, involving:

- Quicker rudder response
- Tighter turning radius
- Automatic back-to-zero steering wheel positioning
- Maximum smooth control with active feedback to the helm
- Easier maneuvering capabilities when mooring
- Variation of angle between rudders as a function of boat speed

In order to increase comfort and handling stability even further, the ZF SteerCommand for Ferretti active feedback dynamically varies the turning resistance of the helm wheel according to the yacht's speed, while at lower speeds it makes steering smoother and easier, facilitating mooring operations.

Ease of steering is completed through ZF's innovative Joystick Maneuvering System (JMS), which can be fitted on request. The JMS electronically controls engines, inverters and bow thrusters. An electronic control system makes it possible to maneuver the yacht in any direction using the joystick. Approaching a wharf, 360° rotation on fixed point and other maneuvers which tend to be complicated with traditional control levers, become simple operations because the JMS electronic system divides the acceleration of the engines and enables gentle insertion of the transmissions. The system is, in fact, equipped with a control unit which reveals the effective direction of the bow of the yacht, comparing it with the direction requested by the captain who is using the joystick. As a result, the action of the engines and directional propellers are applied in the best way possible for each and every maneuver.

12. MULTIPLE FUNCTIONS, SINGULAR CONTROL

These useful and innovative systems considerably increase both the safety and the comfort onboard, as they can provide in real time useful information for controlling the yacht. For example, for Ferretti Yachts, even its 'basic' version, which comes standard on the 960, 870, 750 (Naviop), 750 and 800 (gi8) models, enable to directly control a great number of functions, including the following:

- Lighting system
- Pump system
- Winches
- Generator
- Meteorological data
- Oil tanks, grey/black/fresh water levels
- Alarms
- 220V and 24V connections
- On-board fridges temperature (certain models)
- Echo-sounder
- Galvanic corrosion monitoring
- Flaps position (except in the models equipped with a third MAN panel already providing these data)
- Residual range (except in the models equipped with a third MAN panel already providing these data). With some optional configurations, the system can also control all the remaining functions of the boat, that is:
- Air-conditioning control through interface with the Condaria control units
- Control of portholes/doors/smoke detectors
- Control of on-board cameras (standard on the 960)
- ARG monitoring (standard on the 960 and F870 models). Seakeeper will be available from 2014
- Watermaker management

13. ENGINE MANAGEMENT: MONITOR MULTY-FUNCTIONAL ELECTRONIC DISPLAYS

FERRETTI has introduced, in cooperation with the industry's leading supplier of engines, MTU, MAN and Caterpillar, some electronic displays for control and monitor of the engines, simplifying navigation and making it safer in many respects. Below are some of the functions of the displays:

- Analogue and digital display
- General and bilge pump alarm location
- Indication of the fuel level
- Indication of the water level
- Total and immediate fuel consumption
- Immediate speed and residual range
- Settings of function parameters

14. FUEL FOR POWER: A NEW BENCHMARK IN TANK DESIGN AND ENGINEERING

Our engineering team has established the most convincing project data for the production of its tanks, and determined the following requirements for all the tanks in the FERRETTI range:

- (i) Fuel tanks are positioned extremely close to the longitudinal centre of gravity of the boat in order to ensure the longitudinal trim of the boat does not alter depending on how full the tanks are.
- (ii) The number of gallons the tanks contain is always equal on both port side and starboard. This is done in order to prevent a situation in which, when the level of the fuel varies, the angle of heel changes because of the alteration in weight.
- (iii) The tanks themselves must have the lowest possible centre of gravity.

FERRETTI boats have fiberglass tanks which are either built into the hull (structural), or produced separately. In both cases, the most advanced technology is used and necessary care taken. The mechanical characteristics of the materials are also considered in detail.

STRUCTURAL FIBERGLASS TANKS

On larger boats, where the capacity of the tank is greater, fiberglass tanks are built using the structures and bottom of the boat as the tank walls, which are areas otherwise unusable. This type of tank responds perfectly to the need to keep the centre of gravity as low as possible. Construction occurs during the lamination process, creating a real “tank” inside which the slosh baffles are placed.

Resins and special textiles (vinylester resin and C glass) are used for the internal layers of the tank. Besides this, the continuity of the polyurethane in the structures is interrupted in order to prevent the spread of fuel from infiltration into the fiberglass – although this is highly improbable.

Once lamination has been completed, a special self-extinguishing gelcoat is applied to the outside of the tank. All tanks can be inspected through a removable, man-sized aluminium hatch, similar to those on large ships.

SEPARATE FIBERGLASS TANKS

Fiberglass tanks are constructed separately on other boats, either with sandwich walls, or monolithic walls with aluminum sheet reinforcements.

In this second case, construction aims to produce a tank with excellent characteristics of resistance, a wall thickness of just an half inch, and a special shape (therefore, a reduced weight and high volume of fuel, with compact overall external dimensions). Resins and special textiles (vinylester resin and C glass) are used for the interior layers. Alternatively, a special gel-coat, which is resistant to hydrocarbon is applied at the end of the lamination process.

INTEGRATED DECANTATION TANKS

One of the most frequent causes of breakdown at sea is the presence of water in the diesel fuel. This occurs due to one of the following reasons:

- 1 – the diesel contains a percentage of water
- 2 – there are often infiltrations of water in the tanks of the gas pumps at harbors.

The advent of the RACOR filters which separate the water from the fuel have only been partially successful, since the quantity of water that the filter can contain is too small to eliminate the problem caused by the second case. For example, a boat may take on 2000 liters of fuel, 1 percent of which is water. This creates 20 litres of water, far too much for a RACOR filter to handle.

In order to solve these problems completely, FERRETTI installs a decantation system on all its boats which separates both impurities and water from the diesel fuel. The water and the impurities, which are heavier than the diesel fuel, separate and sink to the bottom. The diesel fuel remains above them, where the fuel supply lines to the engines and generator/s are located. On the front of the tank there is an inspection hatch for cleaning off the sludge, as well as a valve connected to a drain at the bottom of the tank for draining off the water and impurities.

Before entering the engine fuel filters, the fuel supply lines to the engines pass through the RACOR, HUMMEL or SEPAR filters which are fitted as standard depending from the installed engines.

FUEL GAUGE & SPLASH STOP

All boats have two systems for measuring the level of the fuel: an electric gauge with the appropriate display on the dashboard in the wheelhouse, and a mechanical or visual gauge, equipped with a stop valve installed directly on the tank, which is easily visible when entering the engine room.

Moreover any FERRETTI YACHTS boat is equipped with devices called “fuel splash stop” which are connected up

directly to the filler cap either on the bridge or in the special recess. These make sure that any excess diesel fuel and the foam do not spill out of the filler cap as this will stain the bridge and pollute the water, but that they remain inside the tank (approximate capacity - 2 litres).

The excess fuel flows back into the main tank through a dedicated pipe. This pipe also acts as an auxiliary vent for the tank.

TANK TESTING AND APPROVAL

All tanks are tested for resistance by creating a pressure, equivalent to a column of water 1.5 time higher to the maximum possible in practice (according with EN ISO 10088).

15. ENGINEERING INTEGRITY IS NOT SUBJECTIVE: CERTIFICATIONS AND CLASSIFICATIONS

FERRETTI YACHTS boats are designed and built in compliance with EEC Directive 94/25 as amend by Directive 2003/44/CE. The organization in charge of the certification, RINA, not only checks the production of the prototype of each model meet current regulations- Module "B" -, but also that each unit of the range corresponds to the prototype - Module "F". Thus each and every FERRETTI YACHTS boat is supplied with its own Certificate of Compliance.

An exception to this are, of course, boats with a hull length of over 24meters (example Ferretti Custom Line, Ferretti Navetta 33 Crescendo). "Pleasure Yachts" correspond to the special regulations issued by the classification body (RINA spa) and, for each and every model, receive the relative "Class Certificate" (C HULL, • MACH, Y for Pleasure destination and C ..HULL, • MACH, Ych (MCA) for charter destination). Moreover, for those boats destined for use as charters, it is also possible (on request) to obtain the special "MCA" certification.

FERRETTI boats have all of the above, plus an incredible level of acoustic comfort, documented by ISO 14509.

All pleasure yachts (vessels with a hull construction length under 24.00 meters) of the Ferretti brand proudly meet the design and construction requirements for "Ocean" – design category A - the most stringent of the CE directive for pleasure craft. This attests to the fact that engineering integrity is anything but subjective

16. LESS NOISE, LESS VIBRATION, MORE COMFORT: UNDERWATER EXHAUST SYSTEMS

FERRETTI has always been particularly sensitive to the quality of life on board its vessels. The noise generated of the exhausts of the powerful engines which equip FERRETTI vessels is one of the most critical elements within this sphere. By being one of the very first companies in Europe to introduce the underwater exhaust system, FERRETTI YACHTS stood out as an innovative leader within the sphere of noise reduction.

This system was successively used by many other shipyards, and advantages include:

- lower noise levels during navigation and the elimination of irregular noise when the boat rolls;
- lower noise levels whilst the boat is stationary thanks to the exclusive FERRETTI YACHTS system which conveys the exhaust to inside the exhaust-ports astern, using their silencing power;
- total elimination of the backpressure which is typical of silencing systems, and thus a proportional increase in power, and less use of the turbines;
- the system occupies less space in the engine room, and there is a considerable reduction in the maintenance work required on the exhaust system;
- the residual fumes no longer come into contact with the boat, thus not dirtying the transom.
- simpler and sturdier, so the lamination on the bottom of the hull is safer.

Silenced underwater exhaust systems produced from the same lamination as the hull were introduced on the last

generation boats, clearly in line with the markedly innovative character of FERRETTI YACHTS.

Tests have shown they are quieter than the traditional underwater exhaust systems, both in terms of the noise heard on board and the irradiated noise.

VI. FINAL THOUGHTS AND MORE...

Keep in mind the highlights of some key strengths of Ferretti products, and how clients can effectively feel the Ferretti difference once onboard – that is the goal of this publication. While this sales guide is not exhaustive, it clearly outlines the most important aspects of our product which should be remembered because the strength of Ferretti relative to the competition is at times not immediate to the naked eye. This is our strength and our challenge.

In closing here below is a selection of some additional details related to specifications. Remember that the origins of the Ferretti brand go back to the 1960's when the brand established its place on the market developing products which were borne out of a key need to offer functionality (motorsailers) while ensuring there are no compromises on design, appeal and safety. This is the key ingredient which has blossomed into what Ferretti stands for today, and attests to its claim *Intelligenza Nautica Italiana*. Here below are some specifics worth noting on the Yachts range:

- Wide walkarounds to ensure comfort and safety with lodging for the boathooks
- Aft cleat and winch cover with moulded smart panel
- Bed sizes and ventilation friendly design of the beds
- Interior decor characterized by contemporary classical style, with seats, sofas, beds and furnishings which are developed to maximize ergonomics And maintain a timeless style
- Open galley layouts are available on the 650-690-750-870 models
- Fridge drawer available as OPT from the 570 while it is standard from the 800 upwards
- Completely removable Lower Deck floorings from the 690 upwards: this is a key issue related to maintenance! Its not just how the vessel looks on the outside, Its how it can be serviced throughout its life of ownership. This concept is applied to all Custom Lines and Navettas
- Washer-Dryer column available as an option from the 650 upwards
- Tilting windows on the models up to the 700 and on the 800
- Tilting control station on the flying bridge
- Internal visibility
- Transom with spoiler and additional toys storage until the 570
- Sink in the cockpit
- Stainless steel foldaway cockpit table until the 570
- Underwater exhaust system with silencers
- Air/water separators for the intake of the engines avoiding any spray of salt water can enter the engine room
- Polyethylene composite tanks for clear, grey and black waters made with long-lasting material, suitable for food use, light and easily replaceable if damaged
- Fuel tanks located extremely close to the center of gravity of the boat with water/ fuel separators and a decantation system which separates impurities and water from the diesel fuel
- Bilge centralized system, with a dedicated pump (oversized with respect to the regulations in force) installed in special stainless steel strainer
- In addition, all FERRETTI YACHTS boats are equipped with a special valve system on the engine seawater intake, which makes it possible to draw cooling water for the engine from the bilge, not from the sea
- Outboard discharges centralized

- Swim ladder opposite to the genset exhaust
- Two anchor lines standard from the 750
- Side door standard from the 700
- Always best in the market sunpad overall dimensions
- Wet bar with sink and, available as an option, grill and fridge. This is standard from the 800
- Hard top with openable sunshade available from the 700
- Always best in the market cockpit overall dimensions
- Cockpit trash bin can be available as an option from the 650
- Cockpit ice maker available as an option from the 530, it is standard from F750
- Cockpit table with chairs lodging is standard from the 750
- Cockpit control station available as an option from the 530
- Scupper + freeing port at aft of flying bridge (both sides) from the 750
- Always freefloating and hidden liferafts
- On the Ferretti Yachts 650, 690 and 750 the geometry of the stern structure has an extended platform which functions as a tenderlift and a recreational area, and include steps integrated into the fiberglass to allow easy and quick access to the sea for guests. This is one of the safest and most practical methods of stern area design. With the tenderlift lowered and underwater lights on, most visually pleasing providing a swimming pool effect.

For any further information or details related to Ferretti, please contact Ferretti Group, and stay tuned for exciting new products to come that will continue to lead the Italian nautical tradition – a tradition that has made the dreams of owners around the world come true, and let them become part of an elite group of genuine navigators.



FERRETTI