



Columbus 130' Sport Hybrid

by Columbus Yachts / Palumbo Shipyards with Hydro Tech and Hot Lab

Palumbo Shipyards, a historic family company, was founded in 1967 by Salvatore Palumbo and is now led by its Chair Antonio Palumbo. The company is highly specialised in maintenance, repair, conversion, transformation and new builds of every type of commercial vessel, from freight and passenger transport to special vessels and working vessels. At the moment, its available facilities cover a total of more than 500,000 m², subdivided into three yards in Naples and Messina, Italy, and Valletta in Malta. The large shipyard in Malta is a recent acquisition for Palumbo Shipyards, completed in 2010-2011, and has considerable strategic importance as the yard lies at the crossroads of the main Mediterranean routes. These facilities can accommodate large ships with maximum lengths of up to 360 metres, and tonnage of more than 300,000 tonnes. In addition, Palumbo MSY (short for Palumbo Malta Superyachts) – Palumbo's Megayacht Division – has been established in Malta, expressly devoted to the refitting and maintenance of large luxury yachts. With a total area of more than 45,000 m², the shipyard has a 140-metre covered dock and a 160-metre open dock, able to accommodate yachts with tonnage of more than 100,000 tonnes, as well as three docks with a total length of 400 metres. With its new Megayacht Division, led by Giuseppe Palumbo, the General Manager of the Naples

shipyard and the Malta superyacht shipyard, Palumbo Shipyards has strategically completed its presence in the most exclusive yachting sector. The Italian company first appeared on the scene officially in 2008, when it entered the megayacht market segment at Monte Carlo at the exclusive Monaco Yacht Show. This was the prestigious setting for its debut with a stand dedicated to Columbus Yachts, the new brand created to build and sell luxury yachts by Palumbo Shipyards. Columbus Yachts vessels are built in the Naples indoor facilities of Palumbo Shipyards, with lengths from 38 metres / 125 feet to 75 metres / 246 feet. These superyachts are subdivided into three ranges: the Classic range, with 125', 155', 177', 200', 215' and 245' models; the Explorer range, with 120', 155', 200' and 240' models; and finally the Sport Hybrid range with 130' and 155' models. Last summer saw the delivery of the first hull of the Classic 177' model, named "Prima" by its Owner. The yacht was then presented at the Monaco Yacht Show in autumn, and received a Judges' Commendation at the World Superyacht Awards. The second hull of the Classic 177', the first hull of the Classic 200', the first hull of the Explorer 200' and finally the first hull of the Sport Hybrid 130' are currently under construction at the yard's facilities. The last of these is now presented in these pages of Yacht Première. ➤

A lateral side-view of the new Columbus 130', currently under construction: the vertical prow and the sleek sides confer a modern, sporty look on the yacht by the Italian yard.





On the facing page, two renders from a different viewpoint: both images highlight the exceptional dimensions of the sun deck, which offers two areas fitted out for sunbathing plus an open-air lounge.

The main dimensional and technical data

Based on naval architecture and engineering developed by Hydro Tech, the new Columbus 130' Sport Hybrid is being built entirely in aluminium alloy for both hull and superstructure, and complies with RINA classification standards and MCA regulations (LY2). In terms of size, the yacht has an overall length of approximately 40 metres / 131 feet 3 inches and an overall beam of 8.2 metres / 26 feet 11 inches. Under full load, the yacht's length at the waterline is 36.4 metres / 119 feet 5 inches and its draught is 1.75 metres / 5 feet 9 inches.

The yacht's lightship displacement is 160 tonnes, while under medium load it is 175 tonnes and, under full load, 190 tonnes. The vessel has a semi-displacement hull with a bow thruster and a pair of electronic stabiliser fins operational at anchor. The engine room will contain two V12 2000 M94 main diesel engines by MTU, each with maximum power of 1,432 bkW / 1,920 BHP, supplied at 2,450 rpm. These will be connected to two Siemens auxiliary electric motors, each supplying 60 kW, via two special gearboxes by Reintjes WAF 542.

The fuel tanks will have a total capacity of approximately 46,000 litres / 12,152 US gallons, while the water tanks will have a total capacity of approximately 5,600 litres / 1,479 US gallons. In terms of performance, the yacht will have a top speed of 22 knots, and will be able to maintain a cruising speed of 15 knots. At this speed, its range will be 1,500 nautical miles, while at a speed of 12 knots this rises to 2,000 nautical miles, and at 7.5 knots the range reaches 5,000 nautical miles. The yacht will have two main gensets each supplying 100 kW and one night/emergency genset supplying 50 kW.

A general overview of the motor yacht

Following the huge success of the Columbus Classic 177' "Prima" at the Monaco Yacht Show, the contract for the new yacht was signed in September last year at the instigation of a Russian Owner represented by Blue Water Yachting, a brokerage and management company.

The contract initially provided for the construction of a 38-metre yacht, i.e. the design for the Columbus 125' Sport Hybrid, but during the initial implementation phases, the design evolved and the length was increased to 40 metres. This was the birth of a new model, the Columbus 130' Sport Hybrid, while the Owner also took out an option to buy the second yacht model.

Construction of the Columbus 130' Sport Hybrid began early this year and the yacht is due to be delivered in summer next year. It will then be presented at the Monaco Yacht Show 2013. The new Columbus 130' Sport Hybrid is based on an innovative concept that combines high technology with great respect for the environment, demonstrating the huge importance that Palumbo Shipyards places on environmentally friendly matters. The vessel's design meets the requirements of the RINA Green Star Plus scheme as well as the recent IMO MARPOL Convention. Its environmentally friendly technical characteristics include the hybrid diesel-electric propulsion system that alternatively allows fast navigation using just the two main engines, or slow navigation with the two main engines switched off and the two main generators on to supply the two auxiliary electric motors. This reduces levels of harmful emissions such as NOx and SOx, as well as significantly reducing consumption and increasing the range. ➤



▲▼ The upper lounge





The interiors are in bright, clear colours aimed at highlighting refined choices, such as the warm and natural materials in mellow tones calculated to avoid excessive contrasts.

The reduced total weight achieved by building in light aluminium alloy also contributes to fuel savings. Power generation with the main engines on during fast navigation contributes to reducing consumption and to rational management of the various operating costs.

The hybrid system also provides other advantages. For example, the quietness of electric motors improves acoustic comfort on board and it is therefore possible to navigate at night in almost complete silence.

In addition, due to the intrinsically fast start-up speed and mechanical response of the electric motors, the practicality of harbour manoeuvring operations is increased as compared to the typical use of main diesel engines. Externally, the new Columbus 130' Sport Hybrid has a modern look characterised by a sporty exterior design enclosing generous internal spaces.

Despite its relatively compact size, the vessel has large internal spaces, and its vast windows, sliding walls, and other characteristics such as the sun deck or the aft beach club allow the best possible perception of the marine environment and allow the Owner and guests to feel as though they were on board a much larger yacht.

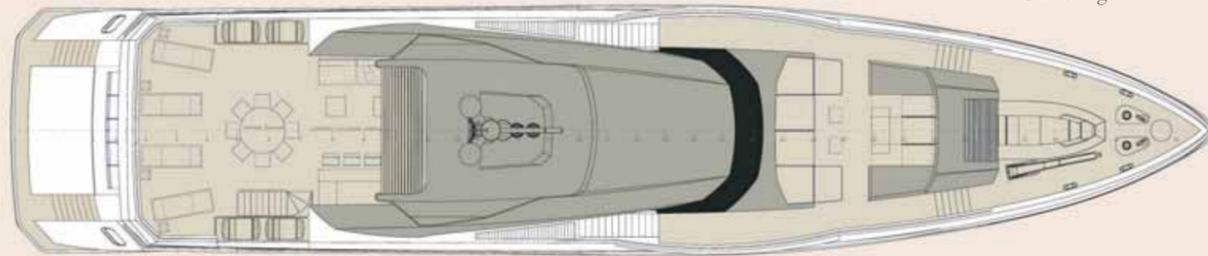
The layout features functional, versatile solutions in the form of convertible areas whose use can be changed in accordance with specific requirements. For example, the VIP suite can be divided into two guest staterooms thanks to a sliding wall, while each twin guest stateroom can be transformed into a double guest stateroom through the use of a sliding bed system. Inside, the new Columbus 130' Sport Hybrid has an exclusive, contemporary interior design by Hot Lab, creators of luxurious interiors. The designers and the shipyard worked together with the Owner very closely with the primary objective of creating a relaxing atmosphere on board.



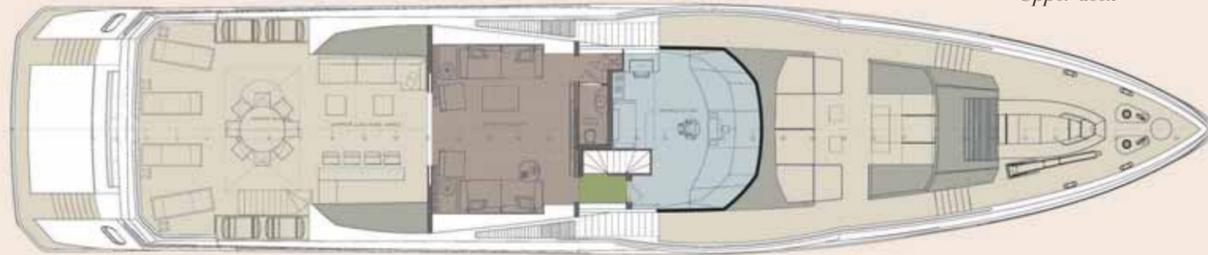
On the lower deck, from stern to prow: the beach club with the swimming platform; the tender garage with its lateral hatch; the guest area with the VIP stateroom convertible into two staterooms; the crew area.

Columbus 130' Sport Hybrid

Sun bridge



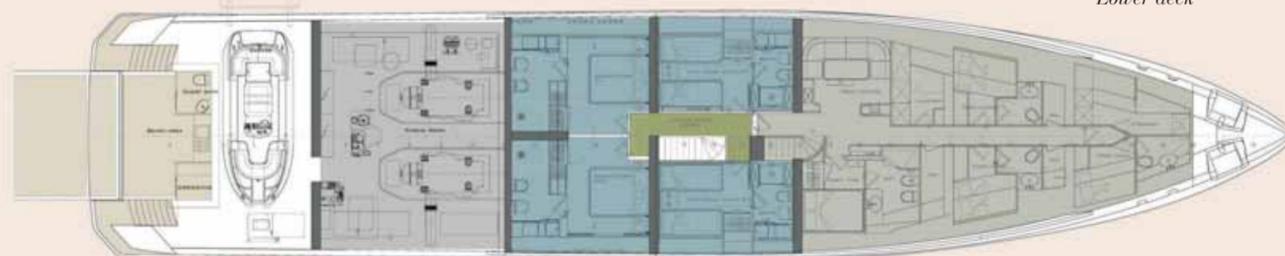
Upper deck



Main deck



Lower deck



Thanks to an elegant, sophisticated style, the furnishings play on light colours to highlight very refined selections, such as the mix of materials with a warm, natural look in various combinations, and the use of soft shades to avoid strong colours and excessive contrasts.

The range of the main materials is particularly interesting: marbles such as Breccia Sarda and Venato Adria, together with precious woods such as grey larch and tay wood or dark oak, supplemented by leather and fabrics with polished stainless steel.

Flaviano Perelli



TECHNICAL SPECIFICATIONS

LOA	40 m / 131'23" ft
LWL	36.4 m / 119'42" ft at full load
B Max	8.2 m / 26'90" ft
Depth Amidship	4.2 m / 13'78" ft
Draught, at full load	1.75 m at full load
Displacement, light	160 tons
Displacement standard	175 tons
Displacement, full load	190 tons
Fuel oil capacity	37240 litres / 9,837.767 US gallons
Fresh water capacity	5390 litres / 1,423.887 US gallons
Sewage tank	980 litres / 258.888 US gallons
Lube oil	880 litres / 232.471 US gallons
Main engines	2 x MTU 12V2000M94
Gear box	2 x Reintjes WAF 542
Auxiliary electrical motor	2 x Auxilia 2 x 60 kW ABT
Main genset	2 x 100 kW
Emergency / Night genset	1 x 50 kW
Desalination Plant / Type	Two desalinators total capacity 8600 Lt/day
Stabilizer	Two pair of non retractable fins, including zero speed stabilization
Thrusters	A fixed bow thruster, power Abt 55 kW
Maximum continuous speed	22 knots (100% MCR)
Cruising speed	15 knots (45% MCR)
Range at 15 knots	1500 miles
at 12 knots	2000 miles
at 7.5 knots	5000 miles
Classification	RINA ☒ C HULL, ☒ MACH Ych Unrestricted Navigation – Charter
Design exterior	Hydro Tech
Design interior	Hot Lab
Shipyard	Palumbo S.p.A. Napoli www.columbusyacht.it columbus.yacht@palumbo.it