



# Nautech

MARINE TECHNOLOGIES, ENGINES & EQUIPMENTS

**VOLVO PENTA IPS 900 POWER SHOWOFF**



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Encounters  
**Franco Romani,**  
Chief Designer  
of Perini Navi

Technology  
**Distribution**  
of the audio video  
signals on board

Safety  
**A "healthy"**  
environmental  
conscience

Market  
**The bridge**  
between East  
and West



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# 85 metres of strength and gracefulness



THE PERCEPTION WHEN ON BOARD THIS 85-METRE MASTERPIECE, BUILT BY LÜRSSEN SHIPYARD, TO BE PRESENTED AT THE MONACO YACHT SHOW 2014, IS THAT THE PROJECT IS THE RESULT OF A MIXTURE OF PASSION, LOGIC AND MUTUAL RESPECT OF THE WHOLE TEAM INVOLVED IN THE MANAGEMENT, DESIGN, PRODUCTION AND NAVIGATION AFTER DELIVERY

Laura Neuwirth Lazzerini

**T**he contract for *Solandge* was signed in the pre-crisis period, in 2007. At that time Lürssen had a free slot, four years later, in its construction schedule. This situation was ideal since it afforded all parties the time to discuss and develop the concept based on the owner's wishes. The exceptional team involved in this impressive project was conceived and set up by Richard Masters, Managing Director and Founder of Master Yachts. The project benefitted from the know-how of Espen Øeino International – the exterior designer, interior designers Aileen Rodriguez and Robert Voges

and the Lürssen project team. «The combination of Rodriguez Interiors and Dölker + Voges Design was proposed and accepted by the shipyard at the early stage of the construction. They have successfully delivered the most demanding specifications of the customer by moulding Aileen Rodriguez's long-standing knowledge of the owner with the extensive expertise developed by Robert Voges in the interior design of Lürssen yachts», explains Richard Masters. This synergy rose to meet tough challenges; such as the development of all the detailed interior design drawings that were created by Dölker + Voges Design in only four months. This was the first step and the first phase of the interior design spiral of the project that was continuously refined later on. One of the most impressive aspects



The external balconies do not affect the silhouette

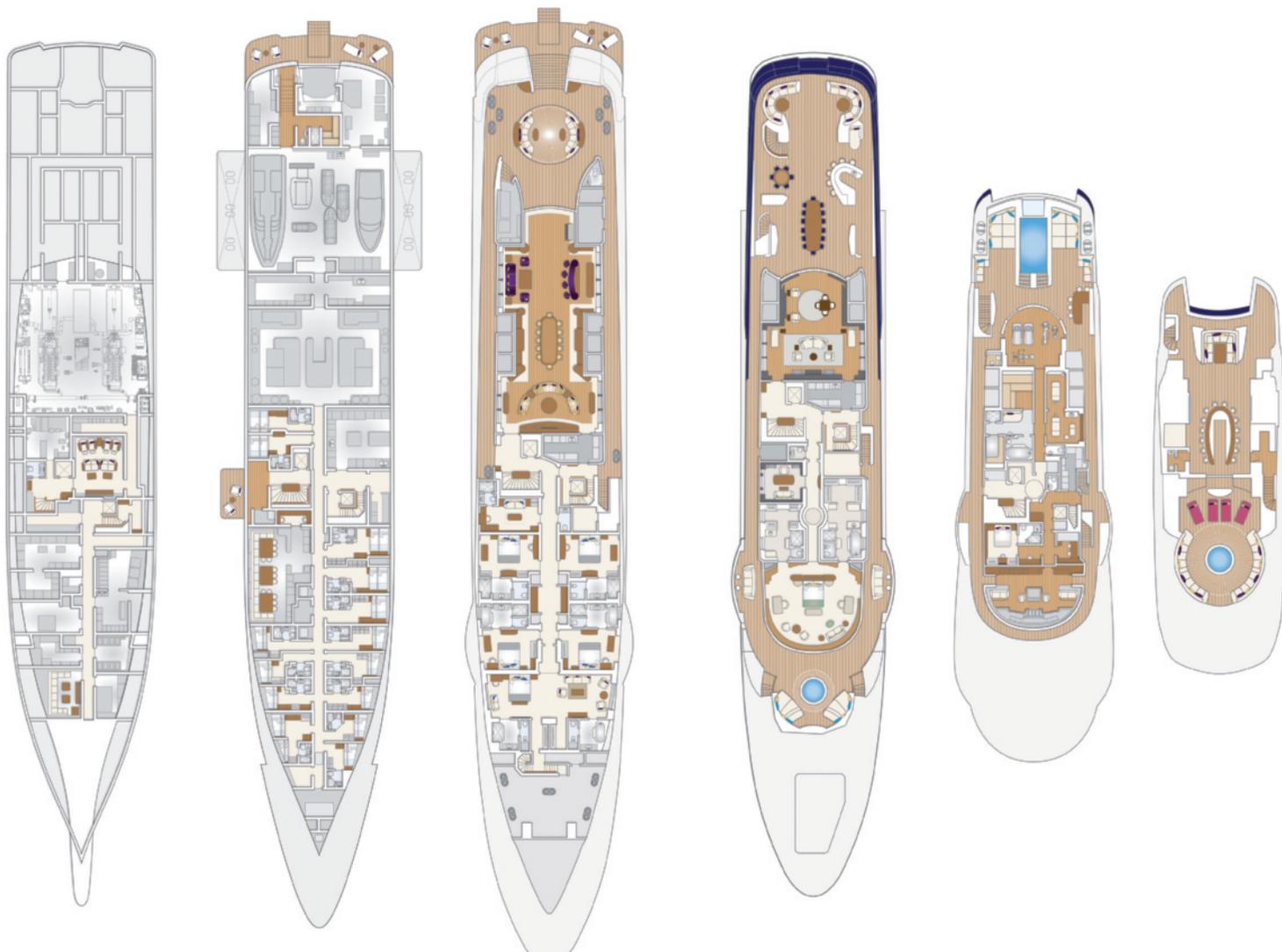


The amplitude of the structural windows

is the attention to detail producing solutions that are very linear and practical, as well as the management of the spaces that give the impression of a much larger yacht. «The lines were created with passion and logic at the same time, in order to completely satisfy the wishes of the owner with individualised and harmonious solutions», says Kristian Pascoli, yacht designer at Espen Øeino International. This is the case with the external balconies that do not affect the external silhouette of Solandge but afford the most amazing sea views from the very comfortable deck sofas. The concept of the sea view and the use of light recur on all the decks, from the sun deck to under the waterline, with a generous use of white underwater lights. As a result, the amplitude of the structural windows in all the saloons, the owner's and the guest cabins confirm just how much attention has been focussed on creating a really bright environment that requires very little artificial light. Moreover, what artificial light there is, blends smoothly with natural light. Perspective has a predominant role in the vessel exteriors, such as the open stairs between the owner's deck and the bridge deck that have been created in



The open stairs created to enjoy an uninterrupted view of the sea



order to enjoy an uninterrupted view of the sea and the coast. «*Solandge* is in someway the precursor of one of the future trends that involve the moulding of interior and external spaces. The conservatory created by the external glass closing panels, to aft of the owner's deck assures, the pleasure of enjoying this generously proportioned space even when the weather is unfavourable», says the interior designer Robert Voges. In this case the lighting has been created and incorporated directly in the structure in order to enhance the natural light through the led strips and spotlights. One of the owner's briefs was that *Solandge* be a multi-ethnic vessel where guests coming from all the parts of the world would feel perfectly at home and are welcomed in each and every area of the yacht with special interior details throughout the globe, such as the 35 different woods and the 40 types of marble used for the interiors or the Garden of Eden in the owners' cabin where the columns are adorned with artwork representing plants and wildlife from all around the world. This concept of multi-ethnicity is also to be enjoyed in the dishes served on board that reflect the taste of the international guests. At the same time, this 85-metre masterpiece is a family vessel built for yachting pleasure, having what it takes to become an iconic yacht for charters. The sun deck is dedicated to pleasure; in addition to its traditional purpose it can turn into a party deck with the swimming pool that becomes a dance floor.

The special built-in professional DJ console and a large mountable screen for music, videos, sport events and other contents make this deck a multi-purpose area. The projector for the contents to be displayed on the screens and the plentiful RGB lights create the perfect atmosphere for parties with a stage that can be prepared in only a few minutes. The whole deck is intended to work with three distinct audio zones and one video source reproduced on two TV screen, opposite each other, as well as the projector that is used in the aft. The special party function allows the same music to be heard in all areas of the yacht. The audio system is managed from each of the consoles on board or from the audio video room that contains the electronic equipment racks. There is an extensive selection of TV channels available from three different decoders: one for Sky, the second for the Caribbean channels while the third set can be equipped with cards suitable for each and every part of the world.

### Space is used without compromising technical requirements

Leisure is pursued on the vessel through many different concealed solutions, such as the VIP cabin, which can be converted into two cabins with double beds rather than one large suite. The layout seamlessly integrates technology and interior design keeping

## SPECIFICATION SOLANDGE

Builder/Year:	Lürssen Yachts, 2013	Gearboxes:	2 x Reintjes WAF 863
Designer exterior:	Espen Øeino Design	Propellers:	2 x Piening fixed pitched propellers, 5 blades
Designer interior:	Rodriguez Interiors, Dölker + Voges	Bow thruster:	Brunvoll FU-37_LRC-1000, 240kW
Length:	85,10 m / 279'2"	Pump jet:	Schottel SPJ 82 RD 240 kW
Length in waterline:	73,50 m / 241'2"	Fuel capacity:	222.000 l
Beam:	13,80 m / 45'3"	Fresh water capacity:	35.500 l
Draught (loaded):	3,90 m / 12'8"	Fresh water makers:	HEM Duplex Freshwater Producer 48/600
Construction material:	Steel hull, aluminium superstructure	Sewage system:	DVZ JZR-100 "Biomaster"
Displacement:	abt. 2.296 t	Stabilizers:	Quantum XT fin blades OC 2400 XT
Speed:	17 knots max.	Air conditioning:	Heinen + Hopmann
Range:	6.000 nm at 12 knots	Class:	LRS, +100A1 SSC Yacht (P) Mono G6 + LMC UMS
Main engines:	2 x CAT 3516 à 2.000 kW at 1.600 rpm	Accommodation:	2 owner, 12 guests 29 crew
Generator sets:	CAT C18 DITA 1 x 570 kVA at 1500 rpm, 2 x 455 kVA at 1500 rpm	Tender:	Fassmer FRIR 625Y Rescue Boat 6,25 m NAIAD Inflatable Rib Centre Console Tender 10,5 m Centurion Enzo Wake boarding Tender 7,32 m
Emergency Genset:	1 x MAN 240 kVA		



The space in engine room is decidedly eye-catching

equipment in the cabins to a minimum and with special areas such as the cinema. The "boat cinema", with its six seats on the tank deck, is the typical example of technological integration, with effective sound-proofing of the room, the acoustic treatment, lighting specifically developed to give the guests the flexibility to enjoy a film but also to play games, with hidden speakers, six led lighting columns designed for this environment and six different programmable lighting scenarios. Leisure continues with plenty of other features; such as the three swimming pools on the owner's deck, the bridge deck and the sun deck and, last but not least, with a touch and go helideck platform on the owner's deck. All these elements meet the standards of the Classification Society and the Flag, Lloyd's Register and the MCA in this case. There are some elements that are re-proposed in different areas of *Solandge* such as the concealed TVs above the fireplaces, many of them wired for karaoke, or the musical instruments made of Murano glass present in the main deck saloon or the "structural" Tree of Life, the sculpture installed before the staircase was fitted on board; with more than 1200 led lights and measuring approximately 16 metres in length, this feature covers the entire height from the tank deck to the bridge deck. The bridge deck houses a control system that integrates harmoniously with this area's interior design. The Raytheon Anschütz bridge equipment, is located under the bridge foiled refined console and



The wheelhouse has become an interior without compromising technical requirements

the contents are displayed on seven Wheelmark certified monitors. The equipment includes, among others: radar, an ECDIS cartography system, an automation system and CCTV cameras. The wheelhouse, that is usually a technical space, has become an interior without compromising technical requirements. The excellent engineering of the technical spaces is clearly visible in the audio-video room and the engine room where the abundance of space with equipment located on two levels and with a cabin dedicated to the storage of spare parts is decidedly eye-catching. Space is used with great rationality, it has been optimized to locate the engines, generators, water-making system, air conditioning system and the batteries that start the engine room equipment. The remaining batteries that supply other systems, such as navigation and communication, have been placed in the proximity of the bridge. The *Solandge* team's answer to the question «Which was the toughest test and the most difficult thing to accomplish in this project?», is unanimous: «There were many challenging aspects during this project. One example is the air conditioning above the guest table in the external aft area of the owner's deck, discussed during the pre-contractual phase. This was finalized and designed in detail later on during construction and is proof that the word of two gentlemen, the Owner and Peter Lürssen in this case, has much more value than a written contract».

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