



## ADASTRA MULTIHULL

It has been described as “ground breaking” this fascinating, salute worthy 42.5 m futuristic superyacht, is one the most beautiful trimaran’s ever built. Adastra was launched into the Pearl River in Southern China earlier this year and was designed for long range ocean voyaging. “Ad Astra” is Latin for “to the stars” a name well suited for this futuristic beauty reminiscent of a starship. Adastra is the result of more than five years of design and discussion with the owners.

The objective was to build a yacht that met the needs of a very experienced ocean voyaging couple and their family, with the level of comfort and style that would be expected in a yacht of this class and size. No effort has been spared in the challenge to produce a beautiful yacht with low fuel consumption while providing excellent sea keeping qualities and luxurious accommodation. Orion Shuttleworth managed the project, collaborating with

John Shuttleworth for the exterior styling. According to Shuttleworth “She has exceeded our expectations with regards to speed and efficiency and the first measurements taken by the engine manufacturers on the sea trials show the fuel consumption at 10.5 knots is as low as 29 liters per hour at a payload of 20 tons, (fuel, water, and people).” The top speed is also 8% higher than predicted at 24 knots. “Adastra” takes the power trimaran concept further than has ever been attempted before previous vessels like “Earthrace” and “Cable and Wireless” were stripped out record-breaking machines.

The challenge of turning this concept into a viable luxury yacht has led the team to further research and to develop new thinking on stability and comfort at sea for this type of craft. Extensive tank testing and radio controlled model tests in waves were carried out to analyse stability and performance.

Outrigger height has been optimised for ease of motion at sea, and a new outrigger shape has been developed to increase stability in waves. They undertook a state of the art structural analysis of all the major components in the yacht in order to achieve the lightweight required for very low fuel consumption. All this has resulted in the exceptional vessel that was built by McConaghy boats in Zhuhai, China.

Adastra’s 16 metre beam creates a spacious saloon area on the main deck which offers superb views through a panoramic window and accommodates a lounge area, dining table and navigation station. A SiMON<sup>2</sup> integrated ships monitoring system monitors fuel, security, pump sensors, electrical, lights, etc. The vessel has a fully automated fuel management system, which includes an Alfa Laval system for cleaning the fuel. A forward facing door through the saloon window gives easy access to a large sunbed on the foredeck.

The aft deck has a sofa and bar area to port and a dining area to starboard. Adastra offers comfortable accommodation for nine guests and up to six crew members. This yacht is an excellent balance of ostentation and functionality, raising the bar in naval architecture, interior design and energy efficiency for long range cruising.

### Specification

**LOA** - 42.5 m  
**Beam** - 16 m  
**Hull Draft** - 1.12 m (1.6m to tip of rudder)  
**Main Engine** - 1x Caterpillar C18 -1150 hp @ 2300 rpm  
**Outrigger Engines** - 2x Yanmar 110hp @ 3200 rpm  
**Speed Max** - 24 knots  
**Fuel consumption at 13 knots. Measured** - 60 litres/hour.  
**Fuel consumption at 10.5 knots Measured** - 29 litres/hour.  
**Range at 10.5 knots** - 10,000 miles.  
**Fuel consumption at 17 knots Predicted** - 120 litres per hour.  
**Range at 17 knots Predicted** - 4000 miles.

### The Team

**Exterior Styling** - John Shuttleworth Yacht Designs Ltd. and Orion Shuttleworth Design Ltd.  
**Naval Architecture** - John Shuttleworth Yacht Designs Ltd.  
**Structural Design** - John Shuttleworth Yacht Designs Ltd. & Applied Structural Analysis Ltd.  
**Interior Design** - Jepsen Designs, Hong Kong  
**Builder** - McConaghy Boats, Zhuhai, China