

# SuperYacht

industry

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What Makes a Yacht  
'Charter-able'?

BROKERS REVEAL TIPS

*Benetti's Lyana*

CHIAROSCURO CHARMER

TAIBA TWO POINT OH!  
PALUMBO'S TOP NOTCH REFIT

# Keeling & Dealing

A BEHIND-THE-SCENES LOOK AT MARSKEEL'S PRODUCTION & EXPANSION



Photo courtesy of Southern Wind Shipyard





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## FOR OVER 33 YEARS MARSKEEL TECHNOLOGY HAS UNITED A PASSION FOR SAILING AND TECHNICAL PROWESS

with their carefully engineered keel systems for the superyacht industry. As the company expands within Europe, SYI takes a close look at Marskeel Technology, the largest producer of custom and production keels in North America, and now abroad.

By expanding into Europe with their Amsterdam office and sales staff, MarsKeel say they are now becoming the industry world leader. Along with new offices and sales staff, Marskeel will be once again exhibiting at the Monaco Yacht Show in 2013, signifying their commitment to the superyacht industry.

### Tough Metals

Specialisation is the key for Marskeel. Not just any company can cast lead keels in excess of 100 t in one continuous pour. It's a skill honed only by experience and the right kind of technology. In fact, the company manufactures keels from A36 carbon steel to high strength alloys such as Weldox 900 and ASTM A514 including standard 316L stainless steel to 2205 duplex. For those not in the know – those are tough metals to cast. And the production process for the keel fins includes building from steel billets, forgings and custom fabrication. MarsKeel offers a wide range of materials incorporated into their approved fabrication process of keel fins such as A36 to armour plate, CHT 100 and all duplex stainless steels.

### Bespoke is Standard

The company produces, from IGES files, custom pattern construction and plugs along with CNC-machined part tooling and fixtures. Marskeel has an in-house molding capacity for keels in excess of 100 t, with either their Ceramicast molds or one-off Accsand molds, specially developed by MarsKeel's in-house engineers.

Not skipping over any steps in the manufacturing process, Marskeel offers full CNC-machining of keel

fins and bulbs along with metallurgical testing providing full documentation for each test where required. As the company revealed, the machining of the keel offers the customer the highest level of surface accuracy and the best possible performance.

### Deadlines? No Problem.

MarsKeel understands that deadlines are a crucial part of production. Their qualified personnel handle all projects and requirements from design concept to the finished keel system delivered. Not restricted to the weight or size of the project shipped, MarsKeel's network of shipping services provides on time delivery whether it is across the continent or across the world. The in-house brokerage service allows them to handle all international paperwork and arrangements delivered door to door with all applicable cargo insurance, assuring a streamlined delivery process.

### Keeping a Close Eye

With the amount of keels the company turns out, full project management is serious business. Lloyd's Register and RINA approved, their professionals work alongside the builder and naval architect to achieve the best in quality control. The MarsKeel Design Group is also set up to offer customers state-of-the-art, advanced design and engineering – with a commitment to constant testing and innovation. They even provide design engineering for canting keels, hydraulically assisted lifting keels, and high performances fixed keels. Also included is design analysis of keel fins, bulbs, first principals structural calculations, finite element analysis and compliance with regulatory body requirements (ABS, DNV, IMO, ISO, RINA).

Marskeel Technology continues to embrace growth as they move into the future with the changing and challenging requirements of designers, builders and the sailors themselves. And with new offices plus ventures coming in by the day, that future looks ripe.

**i. [www.marskeel.com](http://www.marskeel.com)**