

Sail-plan and Rig-plan Design: *be right the first time around!*

Modern sailing boats are designed to attain high technical performance, while also maintaining high levels of comfort. Furthermore, increasing environmental concerns are pushing towards the refitting of existing yachts with advanced equipment.

Using its integrated sail design and analysis

technology, SMAR Azure is now able to design optimal sail- and rig-plans by taking into account the mutual interaction between sails, rig and boat.

HOW?

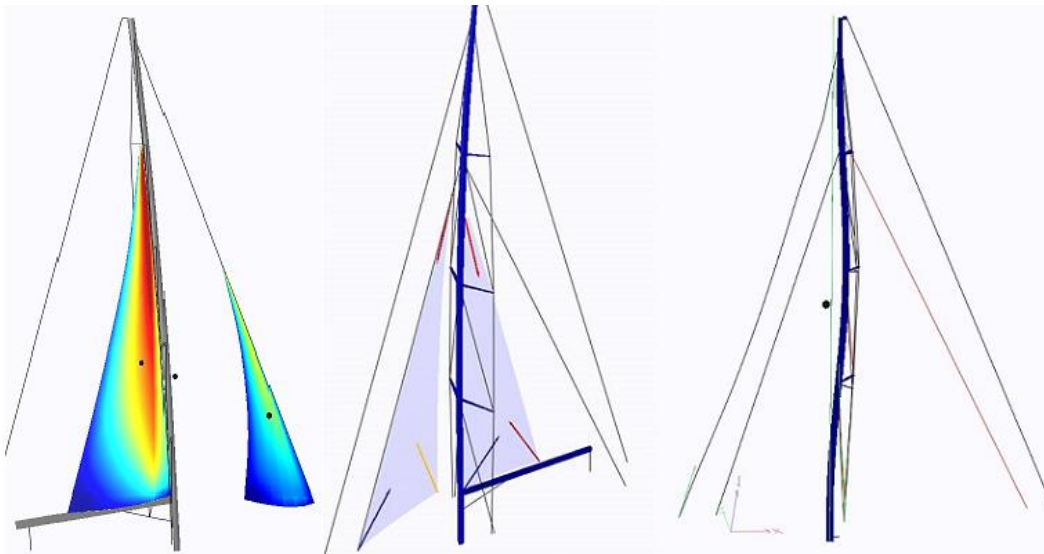
Our team draws the initial sail-plan and evaluates sail performance by simulating the impact of variations in sail trim, sailing conditions and sail shape geometric parameters. Then, rig deformation under sailing and dock tuning loads is assessed using RigEdge - our latest rig design & analysis tool. This enables us to properly define the initial dimensions of spars/rigging, and their structural properties.

Finally, optimal sail- and rig-plan are conjunctly developed via an automated evaluation of sail coefficients in a variety of sailing/trimming conditions and by varying the sail's geometry.

Thanks to this integrated approach, we can offer boat owners effective advice regarding rig-tuning and boat-trimming. In addition, we provide yacht designers with the matrices of the sail's coefficients ready to be used by commercial and custom VPPs.

For more information about our sail and rig design and analysis service, please contact

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Meet SMAR Azure

Nor-Shipping – OSLO – Fri 7th June 2013

Sabrina Malpede, SMAR Azure CEO, will visit the trade show on Friday. More information on: <http://www.messe.no/en/nor-shipping/>

INNOV'SAIL – International Conference On Innovation in High Performance Sailing Yachts Lorient, FRA, 26th – 28th Jun 2013

Mario Pedone – an engineer of our R&D team – will present the results of the empirical validation of our advanced method to predict the structural behaviour of fiber-membrane sails, using on-board photographic survey. We compare the calculated and the real flying sail shapes of the 55ft race boat "Living Doll". The sail-plan was designed by Richard Bouzaid - Doyle Sails NZ.



Photo of the Farr 55ft "Living Doll" (Courtesy Doyle NZ)