

**Meet SMAR Azure!**  
September – November 2013



**25 - 27 Sept 13**

Sabrina Malpede and Alessandro Rosiello, Directors of SMAR Azure, will attend the show from Wed the 25<sup>th</sup> to Fri the 27<sup>th</sup> of Sept.



**2-3 Oct 2013**

Sabrina Malpede, SMAR Azure CEO, will attend the show on Wed the 2<sup>nd</sup> and Thu the 3<sup>rd</sup> of October.



**Super Yacht Pavilion**  
Stand 10.312

Meet SMAR-Azure at METS 2013! We look forward meet You at our stand within the Super-yacht Pavilion

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**RigEdge**

**The Innovative Rig Design Software**

RigEdge enables rig and yacht designers to quickly define the rig's dimensions. Its robust analytical tools enable designers to evaluate the sail's loads on the rig and calculate the rig's deformation and relative loads.

**PREMIUM features**



In collaboration with **RINA Services S.p.A.** SMAR Azure also developed **RigEdge DYNAMIC**. This module is used to evaluate the impact of inertial loads on the rig.

**ADVANCED AERODYNAMIC ANALYSIS**

Advanced Aerodynamic Analysis generates sail coefficients for VPPs.

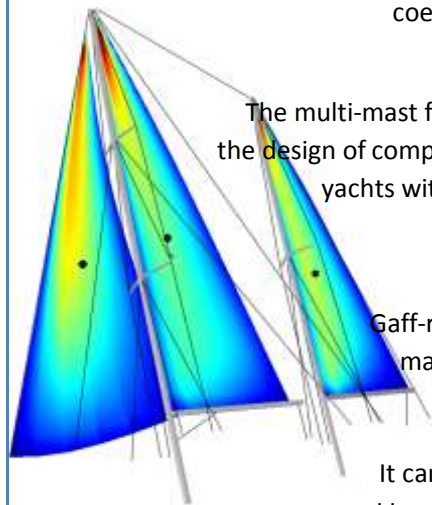
**MULTIMAST**

The multi-mast feature helps with the design of complex rig models for yachts with multiple masts.

**GAFF -RIG**

Gaff-rig allows defining mast bend, gaff spar bend and rigging dimensions.

It can be used for high and low aspect ratio gaff-rigs.



**SMAR Azure design services - at a glance**

**Rig and Sail-Plan Design**

Optimal sail-plans and rig-plans are developed through an automated evaluation of sail coefficients in a variety of sailing/trimming conditions and by varying the sail's geometry

**Boat PERFORMANCE**

SMAR Azure can provide yacht designers with the matrices of the sail's coefficients ready to be used by commercial and custom VPPs programs

**Rig Analysis**

Taking into account dock tuning conditions and sailing loads on rigs, we calculate:

- Rig global strength, by assessing:
  - Strength of running and standing rigging
  - Mast tube stress
- Chain-plates loads
- Rig Natural Frequencies

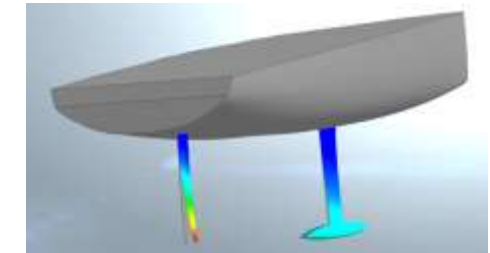
If needed, SMAR Azure can also:

- Consider the impact of dynamic loads, including compliance with the RINA guidelines for Sailing Rigs certification, under MCA LY3 code

**Yacht Fluid-Structural Interaction**

Accurate **CFD** calculation of the hydro/aero forces acting on yachts and relative deformation, via advanced structural (**FEA**) and fluid-structural analysis (**FSI**).

The result is high performance, which could mean structural integrity, low noise, low fuel consumption, speed or endurance, depending on the customer needs.



**SMAR Azure features in Ship & Boat International – published by RINA**

Feature 3 | YACHT DESIGN AND CONSTRUCTION

**Sail and rig-plan design: be right first time**

SMAR Azure Ltd explains to *Ship & Boat International* how its integrated sail design and analysis technology enables it to design optimal sail-rig plans

[Full article here](#)