

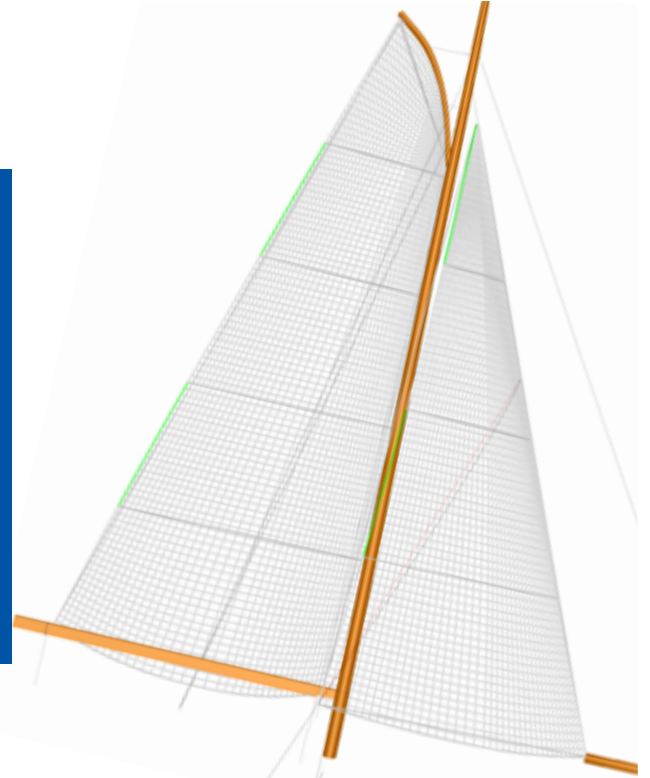
Gaff Rig ⁺

The gaff rig module of RigEdge enables Rig and Yacht Designers to rapidly define the dimensions for high and low aspect ratio gaff rigs.

DESIGN FEATURES

Within the RigEdge interface, the user can define:

- Gaff spar geometry, section shape and structural properties
- Gaff mainsail and headsail
- Mainsail and headsail multiple halyards connecting the Gaff spar to the mast



GAFF RIG ANALYSIS

SETTINGS

- Aerodynamic and structural analysis are performed on the gaff sailplan
- Sailing loads are transferred to the rig, including the gaff spar

OUTPUTS

- Gaff rigging loads
- Mast and gaff spar bend
- Spars and rigging loads

Multi-Mast ⁺

Users can create a full rig model for all yachts with multiple masts (such as ketch, yawl and schooner). The additional masts can be edited using the same options (to add spreaders, diamonds etc.) as the main mast.

This allows the user to design mizzen sails. Gaff sails can also be added to any mast with the rig plan.

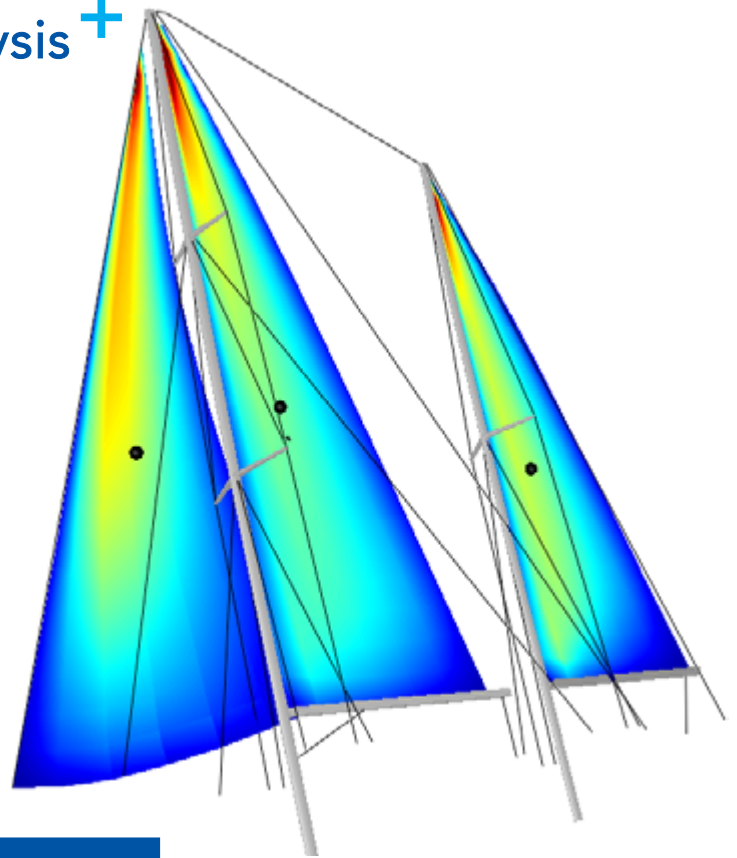
Rig analysis settings and results available for the main mast are available for all masts.

Advanced Aerodynamic Analysis⁺

The RigEdge Advanced Aerodynamic Analysis feature allows the user to evaluate the sailing loads (i.e. drive and heel force and heeling moment) in a range of sailing conditions all at once.

With the advanced Aerodynamic Analysis module, it is possible to set the range of sailing conditions the user wishes to consider and the ANALYSIS RUNS IN BATCH MODE.

The result is a matrix of the sail's coefficients ready to be used by commercial and custom Velocity Prediction Programs (VPP).



The resulting sailing forces and coefficients will be available in a MATRIX and usable by a Velocity Prediction Programs (VPP).

The main data provided are:

- Sail - centre of effort
- Surge force
- Heeling moment

Dynamic Module⁺ - in collaboration with RINA Services S.p.A. Italy

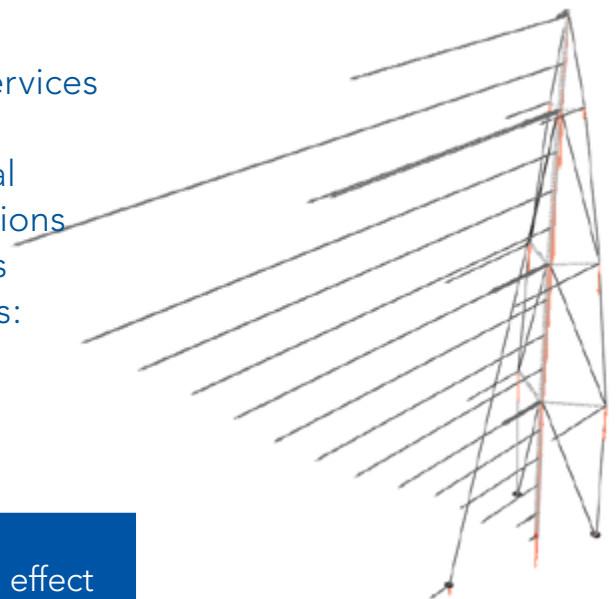


RINA

The DYNAMIC Module of RigEdge has been developed with the technical support of RINA Services S.p.A. ITALY.

RigEdge DYNAMIC Module considers the vertical loads in the Rig analysis, due to the pitching motions of the vessel. The influence of the inertial loads is evaluated by setting the pitching accelerations as:

- Vertical acceleration
- Angular accelerations OR
- Angle and period(s) of the vessel oscillation



With the DYNAMIC module the user can verify the distribution of the inertial loads along the mast, the effect of those loads on mast bend, luff sag and also on spar compression and rigging tension.