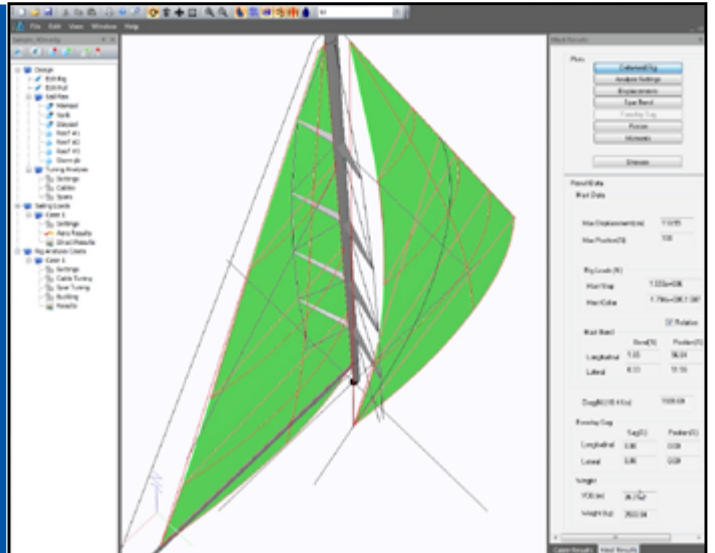




RigEdge is the unique and innovative software enabling rig and yacht designers to rapidly define the rig dimensions. The robust analysis tools quickly evaluate the rig deformation and relative tensions under tuning and sailing loads.

DESIGN	With RigEdge You can:
	Hull and deck layout
CALCULATE	RIG: spars, standing and running rigging
	SAILS: mainsail and genoa, headsail and code 0
	Spars and rigging weight and dimensions
	Tuning settings
	Wind forces over the sailplan
	Rig sailing loads
	Mast bend and luff sag
	Chainplates loads, spars and rigging loads



THE ANALYSIS METHOD

The RigEdge integrated analysis method is very accurate and includes:

Comprehensive aerodynamic and structural analysis of sails to evaluate the sail loads on the rig

Cutting-edge structural analysis methods to calculate the mast bend, luff sag and rig loads

User-friendly interface enabling rig designers to modify the initial design and setting tuning and sailing load cases

Graphical plots to make it easy the review of rig performance and compare alternative solutions

RigEdge, by virtually simulating the structural behaviour of the defined rig configuration under the sails loads in up-wind sailing conditions allows the design of optimal rigs.

MAIN BENEFITS

Speed Up Rig Design

Drive rig design from concept to definition of rig geometry and loads. The powerful and integrated design and fast analysis features accelerate the decisional process.

Communicate Easily

With graphics and robust plotting, RigEdge supports the communication with the sail and yacht designers and with the clients.

Explore Alternatives

RigEdge provides the flexibility to explore rig design concepts in 3D, by assessing performance in various sailing and tuning conditions. Then, using robust design and CFD tools, it is possible to compare alternative designs.

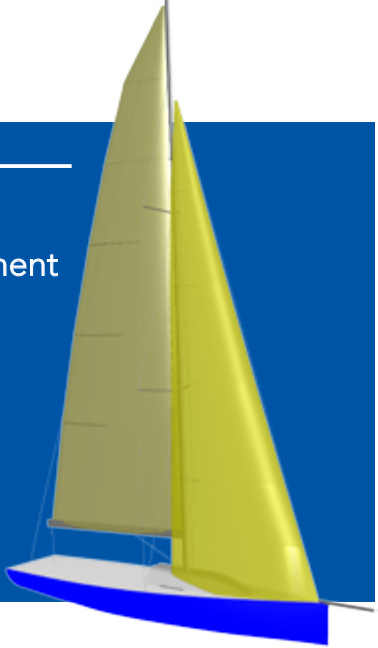
Sizeable Savings

RigEdge enables the evaluation of alternative rig design in less time. This leads to sizeable savings for designers who use expensive design tools (in terms of time, money and human resources employed on the project).

Mast and rig design cover an important role in maximizing the performance of sailing yachts. Weight, shape and materials are the main aspects of the mast design. The design of optimal rigs should take into account realistic sail loads.

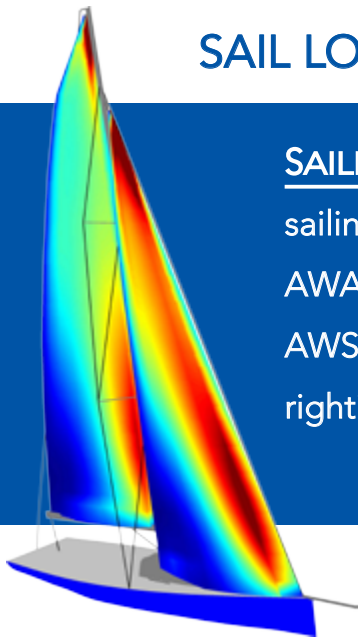
RIG AND SAIL DESIGN

<u>SPARS</u>	<u>RIGGING</u>	<u>SAIL PLAN</u>
mast	shrouds	jib/ genoa & main sail
crane	forestay	automatic sail shape development
spreaders	runners and	camber and twist control
boom	checkstays	roach/battens
bowsprit	main sheet	shape
	vang	any headboard size



SAIL LOADS CALCULATION

<u>SAILING CONDITIONS</u>	<u>CFD RESULTS</u>	<u>FEA RESULTS</u>
sailing angle	pressure distribution	corner loads
AWA / TWA	sail coefficients	flying sail shapes
AWS / TWS	heeling moment	stress
righting moment		



RIG ANALYSIS

<u>INPUTS</u>	<u>RESULTS</u>
rig structural properties	mast and spreaders compression
conventional and	mast step and collar reactions
composite material	mast bend and forestay sag
tuning loads	cables tension load
sailing loads	chainplates load
	centre of mass, rig weight
	roll static moment
	buckling
	internal forces and moments
	export rig for CAD use as .dxf, .stl, .CATIA® step

