

AzureProject



The innovative, fully integrated
sail design and optimisation system

DESIGN

- » any type of sail*
- » add any manufacturing details

FIBRE LAYOUT

- » flexible fibre layout tools

PERFORMANCE OPTIMISATION

- » design fast sails
- » optimise trimming conditions

** Gaff and Dhow sails require the Gaff Sails add-on*

MAIN BENEFITS

- » design fast sails
- » highly accurate and reliable results
- » maximize manufacturing productivity

Design

» All AzureProject packages include a comprehensive set of versatile tools to create any kind of sail.

DESIGN

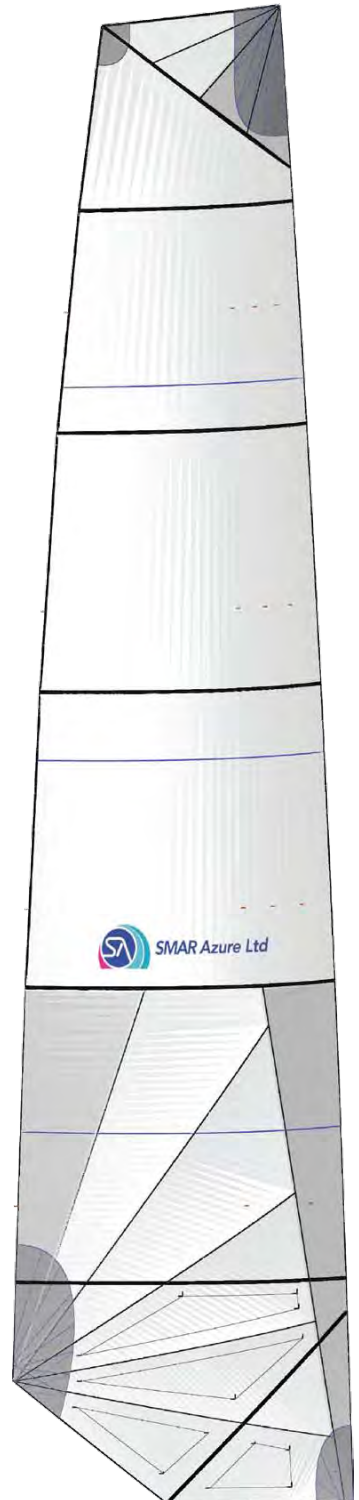
- » Any type of sail, by working accurately on:
 - » sail section geometry.
 - » luff, leech and foot.
 - » add battens and control roach.
- » The hull shape, or import it from a Rhino file.
- » The rig, with all the elements.

ADVANCED TOOLS

- » Create your own measurement rules, ensuring that sails fit class rules.
- » Evaluate how the sail shape changes with:
 - » Mast bend.
 - » Foot camber.

MANUFACTURING

- » Create any type of panel layout, including mitre cut.
 - » Any type of patches (stack, radial, double ply).
 - » UV Covers.
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- » Panels and patches are saved as ntv or dxf files, compatible with all manufacturing systems.
 - » In AzureProject, you can render the entire sailplan in 3D, including all manufacturing details.



Fibre Layout

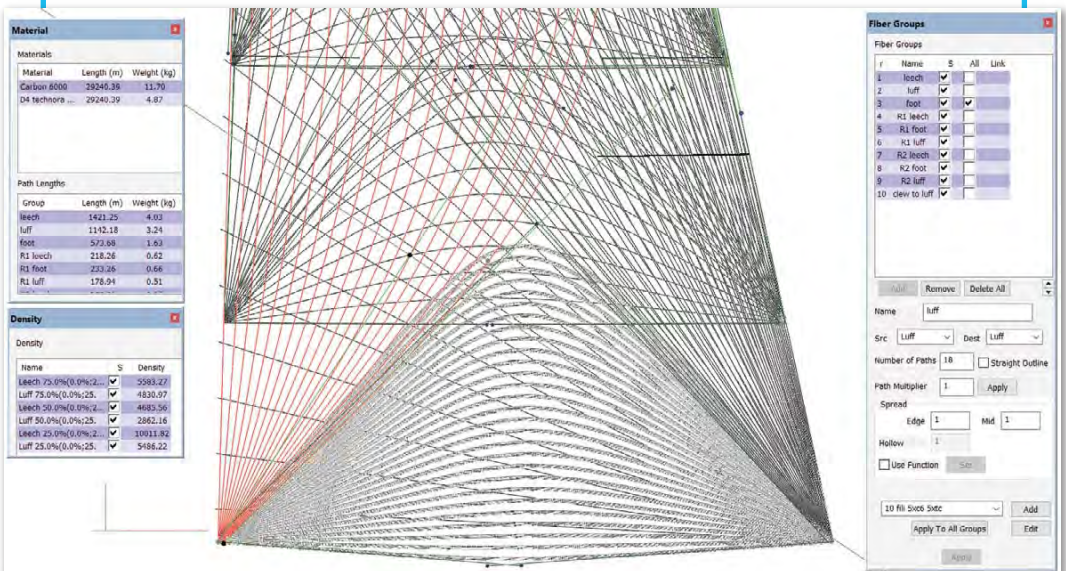
» The fibre layout tools enable the design of fibre laminate sails which can be produced on any available lamination system.

CREATE

- » Layout fibre groups directly on the 3D surfaces OR on the 2D, flat panels.
- » Set different fibre array configurations.
- » Use graphical tools for shaping fibre groups.
- » Control fibre density.

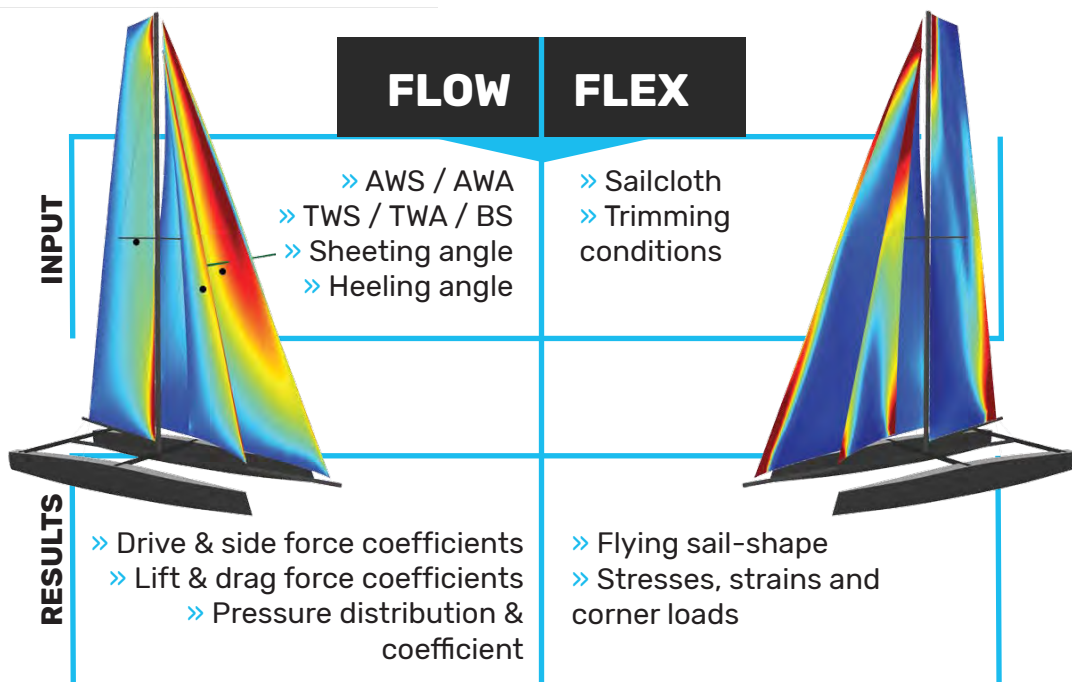
VISUALISE

- » Each, or many, fibre groups.
- » Panels, with all the fibers.
- » The final texture, accounting for fibre thickness.



Performance Optimisation

» It is always a challenge to develop the best possible sail shape for an even set of dimensions and conditions. With comprehensive simulation and analysis features, AzureProject calculates the flying sail shape and performance of your design.



ADVANCED ANALYSIS

With the Advanced Analysis Module, you can also account for:

- » sail trimming and corner loads.
- » forestay tension and sag.
- » orthotropic material properties.

Add-ons

AzureAgent App

» The app allows you to capture rig data on any tablet, and have the AzureProject rig file created automatically.



AzureVision

» AzureVision is a 3D visualisation tool that allows you to share your designs with your customers, improving and simplifying communication.

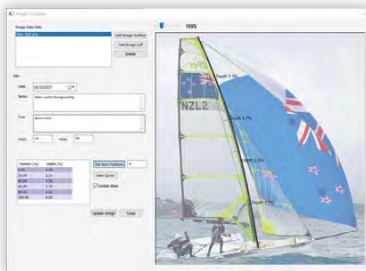
Gaff Sails

» The unique design program for creating low and high aspect ratio gaff sails and dhow sails.



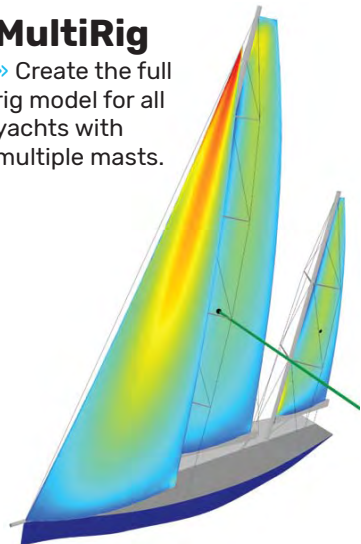
Img2Des

» Capture the flying sail shape geometry from a photo, and create the AzureProject design file directly from it.



MultiRig

» Create the full rig model for all yachts with multiple masts.



Testimonials

FRANCESCO CRUCIANI,
TRE EFFE ELLE, ITALY

"We design fast, light and robust sails. This would not have been possible without the analysis tools provided with AzureProject."

CHRIS OWEN,
SAILTRIMCOACH, UK

"AzureProject has the right tools to help me in designing a fast sail-shape and selecting the right sailcloth."

MARTON BALAZS,
ONE DESIGN SAILS, HUNGARY

"A big hug to SMAR Azure Ltd for feeding us with the best design software and add-ons."

CHARLES-EDOUARD BROCC,
INDEPENDENT SAIL DESIGNER

"AzureProject is very powerful and accurate. It helps me improve sail shapes, as well as compare different versions of a sail."

SOME OF OUR CUSTOMERS INCLUDE:



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- » Market leader in design and analytical software for the marine industry.
- » Used by over 200 users in 30 countries.
- » Lloyd's Register and RINA use RigEdge for certifying sailing yacht rigs.
- » Team is formed of highly experienced engineers in sail design, rig design as well as software development.