

AzureDesign is a robust 3D software program that provides all of the tools necessary to design top quality mainsails, genoas and spinnakers (symmetric and asymmetric) in less time.

AzureDesign allows you to display sails on complete 3D hull and rig.

### With AzureDesign you can design:

Mono/multi Hull or import hull as 3dm file and coach roof

Spars, running and standing rigging

Genoa/Jib and high clew Genoa

Mainsail

Symmetric and asymmetric spinnakers

Any style of panel layout

Any style of patch layout

UV covers

Manufacturing details

Enforce girth measurements

### Additional functionalities:

Import and export of sail shape, moulds, curves, panel and patches and manufacturing details

Detailed broadseam viewer

Create custom measurements & check compliance with IMS

Save Patches, panels and UV Covers in \*.ntv, \*.psxml, various \*.dxf file formats

Printing design data and panel layouts in colour

Export hull, rig and sails as a 3D DXF file for AutoCAD and printing facilities

Import 3d graphics on to the sails



AzureDesign is extremely versatile...you can design a NEW SAIL or start a NEW PROJECT by defining rig and sails, or add an old sail design to a new rig.

The graphical user interface is user-friendly and intuitive. You can design in 3D with a complete control over the 2D flattened sail.

### Design Phase

AzureDesign allows you to:

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Quickly start a new design thanks to the NEW SAIL WIZARD

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Use specific design tools for each single sail

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Accurately define the sail shape, by working on the sail sections and vertical distribution of all design parameters:

- Draft
  - Camber
  - Twist
  - Entry and exit Angles
  - Luff curve
  - Roach
  - Foot curve
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View:

- 3D sail shape
  - All sails on the rig
  - Differences between 2 similar sails
  - Luff, leech and max curvature curve in 2D
  - Control design adjustments on the 3D sail-shape in real time
  - Panels and seams
  - Patches
  - UV Covers
  - Manufacturing details
  - Mark spreader points on mainsail and genoa
  - 3d graphics on sails
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### Design mainsail & genoa



### Design symmetric & asymmetric spinnakers



## Panel layout

AzureDesign allows any kind of panel layout:

- Cross-Cuts with shape on 1 or 2 edges
- Vertical/Radial cuts with shape on 1 or 2 edges or both straight
- Fan-cut
- Mitre cuts for old style sails



Panelling is easy and fast. Designers can:

- Set seam direction (e.g. 90° to the leech, parallel to water)
- Create panels by setting panel number, width or angle
- Opt for English seam style

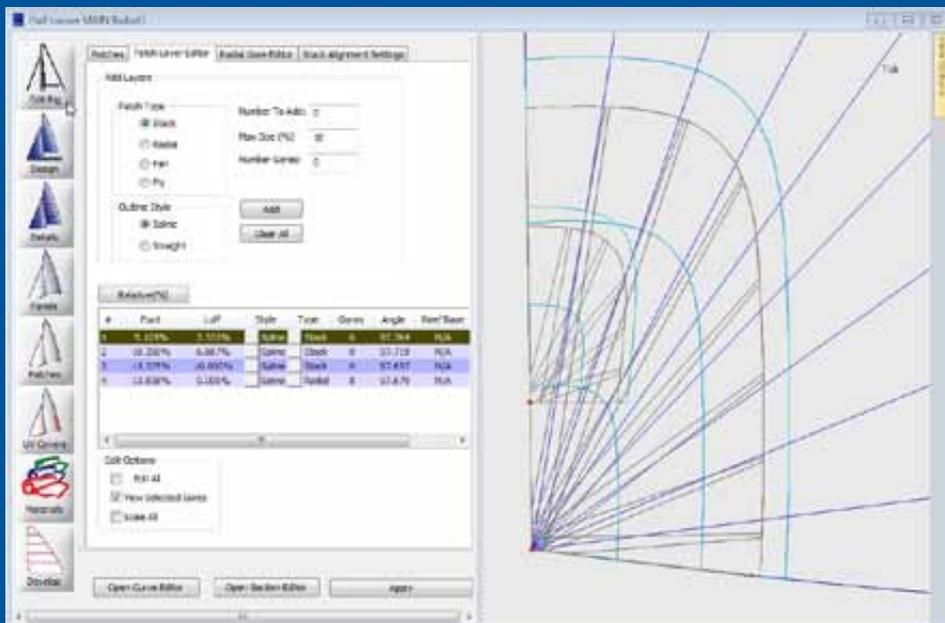
Seam positions can be edited directly or changed by dragging with the mouse

AzureDesign allows creating any type of UV cover. You can:

- Assign any type of shape
- Add cutting lines
- Assign materials to each cover's piece

### Designers can:

- Assign a material and orientation to each panel to facilitate quick nesting
- Import and export panel layouts and UV Cover shapes
- Develop and analyse sail panels and edges in the panel viewer
- SAVE panels in \*.ntv, \*.psxml and various \*.dxf file formats
- PRINT/SAVE the Production sheet including: panel layout (in colour), printed panels, numbers & measurements



Create the patch

The designer can easily define the patch outlines with spline or straight line, using all the desired control points.

Patches are saved in \*.ntv, \*.psxml, \*.dxf file format

PATCHES can be exported on other designs and saved in a file separate from the panels, to facilitate the nesting operation

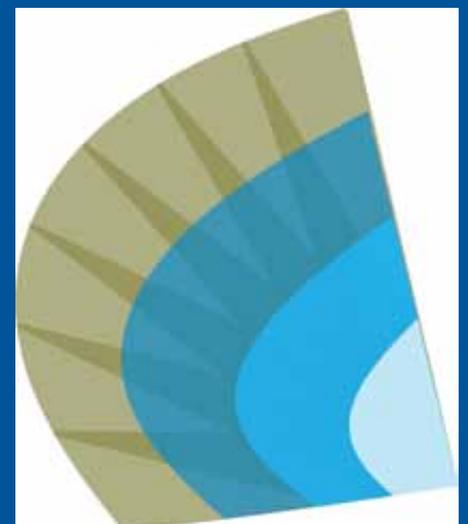
## Patch layout

With AzureDesign, the user can:

Design STACK, RADIAL and FAN Patches in all possible positions

Allow for multiple layers

Assign materials to different patches



View the patch on the sail

# MAIN BENEFITS

## AzureDesign

Save time and material. Super computational accuracy eliminates the need for traditional second-layout fairing of assembled sail edges.

Highly FLEXIBLE design tools enable the design of all types of sails.

ACCURATE sail shape, thanks to the various design parameters available.  
EASY TO LEARN: no need to learn complicated procedures and methods.  
EASY TO USE: the graphical user interface is intuitive and has all the features needed.

COMPLETE sail corner reinforcement patch and UV-covers design tools included.

Display sail on complete rig and 3D hull.

"After using AzureProject I realised that the cost savings in production were incredible: time on the floor virtually disappeared and the cloth savings made due to better panel layouts was astounding. The staff began to enjoy putting together sails as they fitted perfectly"

Chris Owen, SailTrimCoach



## ABOUT SMAR AZURE

UK-based and founded 10 years ago by Dr Sabrina Malpede and Dr Alessandro Rosiello, SMAR Azure has grown substantially over the years in terms of its team of dedicated professionals, yachting-specific technology and product portfolio. Our R&D team comprises three expert software developers and three specialists in CFD and FEM/FEA. Our products and services have been chosen by over 180 clients in 27 countries and across various segments of the yachting industry.

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