



Sails Science

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PatchMaker

Quick Reference Guide

Open PatchMaker from within Panel Development.
Open one of the sample Patch files on the disk to get started.

Drag control points with the mouse to shape the patch.

The screenshot shows the PatchMaker software window titled "Untitled". The interface includes a toolbar with icons for selecting corners, zooming, and developing panels. Below the toolbar are checkboxes for "Show Panels", "Show Outlines", "Show Patches", "Step Develop", and "Zoom Develop". A "Layer: 1 of 1" indicator is present. The "Edge Lengths" section contains input fields for "Luff Pos." (15.0%), "Foot Pos." (12.0%), and "Scale:" (100.0%). The "Selected Point" section includes "Radius" (14.0%) and "Angle" (33.7%) fields, along with a "Corner" checkbox. At the bottom are "Print" and "Exit" buttons. Blue callout boxes with lines pointing to specific parts of the interface provide the following descriptions:

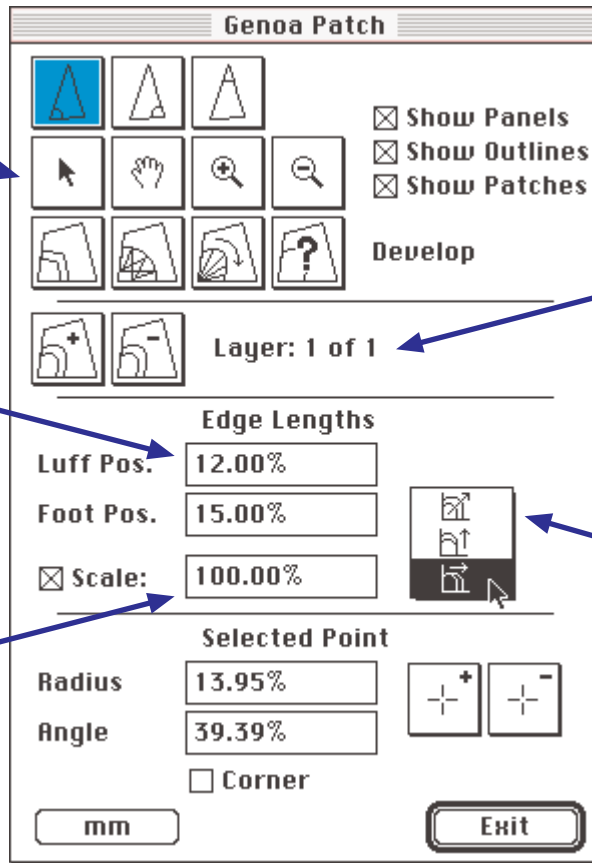
- Select corner
- Zoom in, zoom out and drag
- Develop Block, Fan, Radial and General panels
- Enter patch sizes as a percentage of the sail edge length or in actual mm
- Turning scaling on/off
- Scale a patch as a % of the largest patch. Either type a value or drag with the mouse
- Add and delete layers. Duplicate outlines to build up layers
- Scale patch uniformly or stretch horizontally or vertically
- Add and delete control points
- Make control point curve or corner

Saves time on the loft floor by plotting/cutting patches.

Saves fabric waste by nesting patch panels in PlotMaker.

Create your own patch style and easily reproduce for each sail you make.

PatchMaker Outline Definition



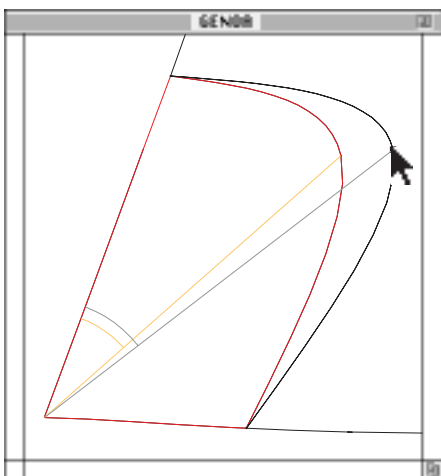
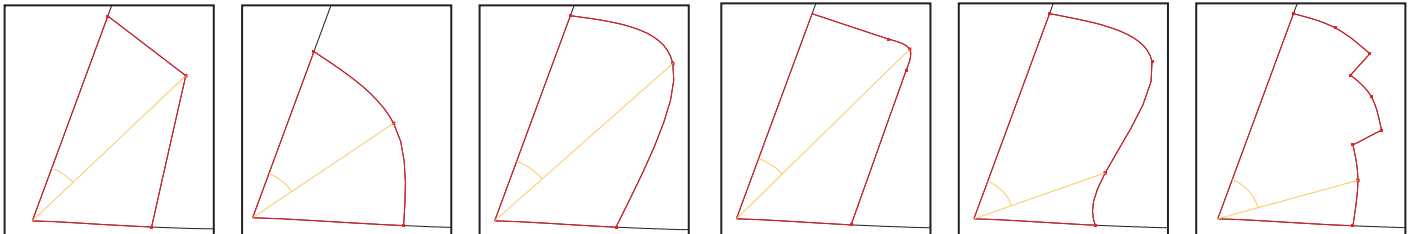
Zoom in, zoom out and drag tools for ease of use.

Enter patch sizes as a percentage of the sail edge length or in actual mm

Scale a patch as a % of the largest patch. Either type a value or drag with the mouse

Easily duplicate outlines to build up patch layers

Scale patch uniformly or stretch horizontally or vertically



One control point is all you need for most patch shapes.

Unlimited extra control points let you create almost any shape you can imagine.

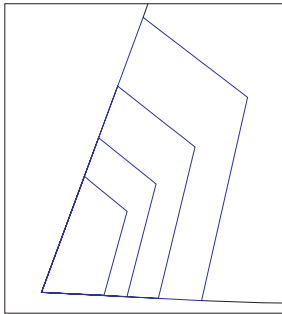
Combinations of straight lines and curves give full flexibility.

Simple to use, mouse drag the control points to create the patch shape you want.

PatchMaker Panel Development

PatchMaker's panel development is designed to be quick and easy to use. There are automatic options to speed through developing the most common patch types. The general option provides the flexibility to develop specialist patches.

Once the patch panels are developed you can use SailMaker 1.7's batching to save the patch panels with the sail panels of the same type.

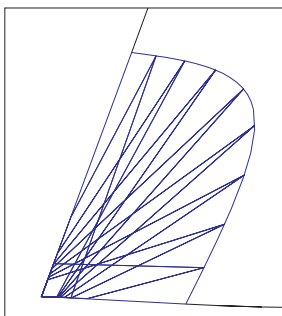
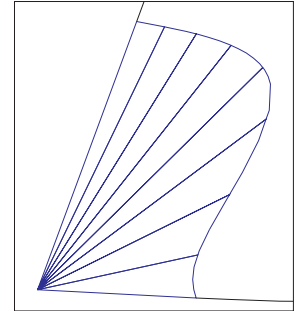


Block Patches

Develop patches for the whole sail in a single operation.

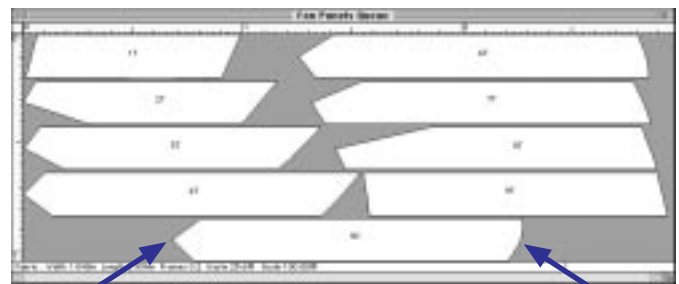
Radial Patches

Automatic option



Fan Patches

Overlapping parallel sided panels



Angled ends to match sail corner

Curved end to match smooth patch shape

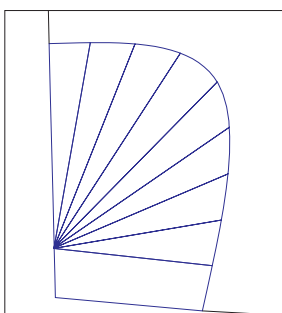
General Option

As well as the standard patch panel options above PatchMaker provides a General option for developing other patch types.

The General option provides the same flexibility as the general panel development option in PatternMaker.

This gives you cross cut, fan, vertical and radial options with full control over panel placing and thread alignment.

A couple of examples of the use of this option are shown.



Tack radials from cunningham position in a mainsail

2 Ply leech panels

