

Pool Covers & Liners

**Instant Pool liners, Pool & Spa Cover patterns! Just add water!
Well... Fabricating pool liners may never be instant, but they could not
be much quicker to generate than with Aeronaut software.**

We have now developed software to speed the pattern development of the large majority of pool liners and covers... (and we're working on the rest.)

The pool liners suite of software from Aeronaut Automation gives fabricators powerful and flexible tools to generate cutting patterns from site measurements or order forms. With a few hours CAD training, a user can generate accurate patterns for hoppers and free form pool liners and covers in less than five minutes.

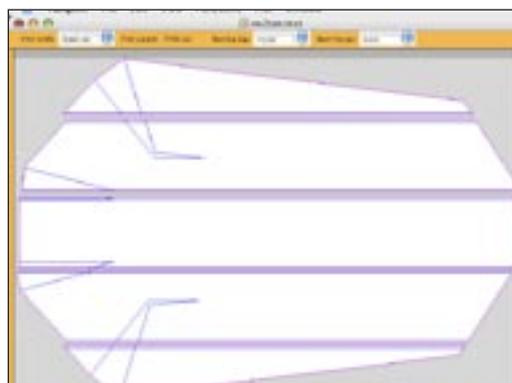
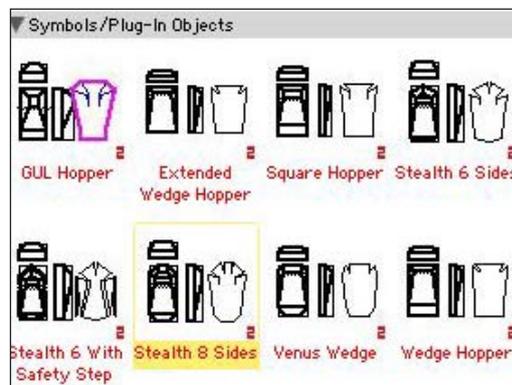
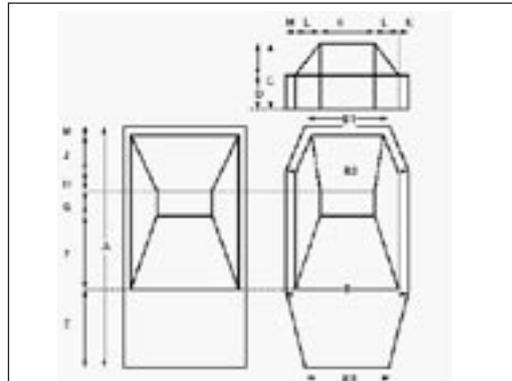
The Hoppers program is a plug-in for the Vectorworks CAD software. Starting with a template of the pool style, key measurements are entered and the template pattern is reshaped instantly. A full 3-view drawing and a flat pattern are drawn so dimensions can be checked by the fabricator or customer before cutting.

The flattened pattern may be laid out in any number of ways depending on factors such as the fabricators preferences, the hopper shape and fabric waste.

Hoppers of almost all shapes are possible, from 4 to 8 sides with and without safety steps. Your standard designs can also be saved as templates to save time. Simple error checking within the program alerts the user to the possibility of measurement errors.

The pattern is then split into panels with seam allowance added, ready for hand or automatic plotting and cutting. Perimeter length is displayed for cutting sides.

The typical time from start to finished cutting patterns can be from two to five minutes error free and with complete waste control.



Freeform pool liners and covers require a different patterning method. Here, industry standard survey data, from internal or external baselines, is entered into a table, or imported from emailed text data.

The data entry program can optionally add extra smoothing points to the outline, so the pattern generated is as smooth as possible and requires the minimum editing.

The pattern is exported to Vectorworks for adding details like steps, and then split into cloths with deep end allowances.

Since the program smooths between points on curved outlines and makes square corners square, the resulting pattern requires little editing and is very rapidly ready to cut.

Using the same techniques, pool and spa covers patterns can be easily generated by relatively unskilled users.

Patterning software for full 3D pool liners are currently "work in progress". The pool is scanned automatically with a specially programmed reflective laser theodolite, and a full 3D model of the pool is generated, complete with steps, islands and other details.

Using advanced panelling techniques, an optimum liner is developed inside the computer mould ready for automated plotting and cutting.

Aeronaut plotter~cutters and software are incredibly easy to use and need very little knowledge of CAD or machine operation.

With Aeronaut plotter~cutters, you can plot very long queues of patterns on a short table... This means you only need a cutting table as big as the space available... 10-12 metres is normally plenty for pool liners and covers.

Aeronaut plotter~cutters and software are continually evolving to meet industry requirements. If you are interested in the possibilities of automating your manufacture, please contact Aeronaut with your requirements and specifications.

