

Canvases & Outdoors

Aeronaut manufacture high performance, high reliability automated cutting systems which even the smallest factory can afford. We also make the widest and largest cutters in the world too... up to 10.7 metres wide and 45 metres long.

Automated cutting is faster, more accurate and more economical than hand cutting. In fact one cutter can normally do the work of at least three people, but with zero mistakes and resulting benefits in product quality, reduced waste and improved profitability.

And unlike many low-cost cutters, Aeronaut Elektron cutters have the accuracy required to make sure that the fabric components fit the metal components... every time.

Aeronaut cutters have been designed from the beginning to work with industrial textiles. They are heavy duty machines and can put an enormous amount of force down on the cutting blade... far more than most garment industry based machines, so they are a natural choice for use with the wide range of materials found in this type of fabrication. You can mark and cut heavy canvas as well as materials like window mesh, PVC and even foam rubber all on the same machine.

Aeronaut has developed CAD plug-in tools for rapid patterning for a wide range of designs from caravan awnings to truck curtains. These simple software tools allow patterns to be developed in a matter of seconds rather than hours. Custom plug-in tools can be developed by Aeronaut to your designs to speed your work-flow.

The most common method of cutting woven textiles is a rotary blade knife. This tool cuts with a rolling action and is fast, clean and precise. Aeronaut cutters can take rotary blades in 18mm, 28mm and 45mm diameters. The more detailed the work, the smaller diameter blade you use. Rotary blades are an off the shelf item, available at reasonable cost almost everywhere.

Where more detailed cutting is required, a drag blade can be fitted. Creasing tools can be used for fold-to lines and for fitting zippers and windows. Drill punches are used for eyelets and markings. And unique to Aeronaut cutters with bayonet mount quick-change tooling, you can drop in a powered reciprocating blade cutter for cutting materials up to 20mm thick.



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Aeronaut manufactures a wide range of automated cutters up to 6.5 metres span and over 30 metres in length from the economical single steered tool holder Elektron Mono LC to the highly versatile Elektron Quattro which is available in 2, 3 and 4 steered tool holder versions.

Both these machines feature Aeronaut's revolutionary Cam-lock quick-change tooling. This allows 10 second tool changes so you can fit almost tool to tackle any job.

The range Cam-lock tools includes 18mm, 28mm and 45mm rotary blade tools, drag blade tools, drill punches, crush cutters and creasing tools all of which are securely fastened in a quarter turn with Aeronaut's patented Cam-lock mechanism.

All Aeronaut cutters are fitted with a pen holder for marking seam allowances, pattern numbers and marks for positions of windows, webbing and labels. An optional holder for a bull's eye laser pointer can be fitted for pattern matching and digitising designs.

A key part of any automated cutting system is the software used to drive it. Aeronaut's Tangent program the most powerful and easy to use nesting software on the market. Tangent has been designed from the start to work with industrial textiles, and reads all common CAD and fabric based file formats.

Tangent exports in a standard CAD format, so you can do design and pattern editing and bounce patterns to Tangent and back without losing information. Using line colour or layer names, you can organise the cut sequence of patterns and control tool speed, acceleration and cut pressure so everything from cuts to creases and drill punched holes are done just right.

Using Tangent, a bull's eye laser pointer and the cutter's joystick, you can digitise patterns into the system. Using Aeronaut's silhouette program, you can even use a low-cost digital SLR camera to rapidly scan groups of patterns into the system.

We've worked hard to develop an automated cutting system which is powerful, flexible and affordable, but one which does not limit your freedom to work with the software, materials and techniques you want.

If you'd like to know more about Aeronaut products, please have a look at our web site, email or call the factory for a chat.

