

UltraLight Aircraft

Australia is one of the birthplaces of hang gliding, and one of the best places in the world for hang gliding, paragliding and lightweight aircraft of all types. And it is *the* best place in the world to buy a plotter cutter!

Since many of the people at Aeronaut and our contractors who work for us in fields like composites, toolmaking and programming are pilots themselves, we take this industry seriously, and listen carefully to concerns of designers and manufacturers.

It does not matter whether you need a cutter for making prototypes or for use in production, the requirements are the same... accuracy, reliability, speed and repeatability. An Aeronaut plotter cutter can give you all this, with easy maintenance and a low purchase price too. And unlike many low-cost plotters, Aeronaut plotters have the accuracy required to make sure that one half-wing is the same shape as the other, so the glider flies straight first time.

Automated cutting is faster, more accurate and more economical than hand cutting. In fact one plotter 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.

Aeronaut cutters have been designed from the beginning to work with industrial and recreational textiles. They are heavy duty machines capable of working 24 hours a day. Our blade cutters can put an enormous amount of force down on the cutting blade... far more than most garment industry based machines.

This year we've introduced two new plotter-cutters, both of which are ideal for working in leisure aviation industries.

The new Elektron Laser Z plotter cutter has been designed specifically for high-speed accurate cutting and edge sealing of the lightweight fabric used in paragliders and fabric covered aircraft. The Elektron Laser Z is very fast, light and extremely well priced. The perfect production tool.

The Elektron LC rotary blade plotter cutter is a development of our legendary Maxis LC which has become the workhorse of sail makers. The Elektron LC features Aeronaut's revolutionary quick change cam-lock tooling which gives operators the ability to use a very wide range



of tool options from 18mm, 28mm, and 45mm rotary blade cutters to drag knives, drill punches and creasing tools, extending the uses of the cutting system beyond what's offered on conventional plotter-cutters.

Both Elektron plotter cutters share a new stiffer and lighter gantry extrusion, high torque motors and extra-wide drive belts which have increased speed, acceleration and output. Design detail changes have allowed us to reduce the adjustment and calibration requirements to make the Elektron more robust and low maintenance than ever.

Both machines are a natural choice for use with the wide range of materials found in this work. You can cut light-weight fabric for the wing structure as well as materials for harnesses, airframes and accessories on the same machine.

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 design and do pattern editing and bounce patterns to Tangent and back without losing information. Using line colour you can organise the cut sequence of patterns and control tool speed, acceleration and even cut pressure.

Tangent is perhaps the only low-cost plotter driver and nesting program to feature auto-nesting which you don't pay extra for. You can nest and plot entirely within frames, or nest the full length and plot and cut only the shapes which lie within a frame, or plot the whole queue using alignment marks between frames.

Using Tangent, a bull's eye laser pointer and the plotter's joystick, you can digitise patterns into the system... whether they are wing patterns, or harnesses. Using Aeronaut's Silhouette program, you can even use a digital camera to rapidly scan groups of patterns into the system.

We've worked very 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.

