



*Computer Controlled
Robotic Plotter-Cutters*



THE KEY TO A SECURE FUTURE

You would not think of buying a machine tool with fixed tools, so why should automated cutters be fitted with fixed tools?

Because 99% of the components for Aeronaut machines are manufactured in-house on state of the art CNC machines, it is natural that we'd design this same versatility and flexibility into our automated cutters.

In fact you'd think that it was so obvious that every manufacturer of automated cutters would do this... but they don't.

Cam-lock tools fit from below the cutting head with a simple quarter turn of the Cam-lock fastener. They are securely locked in position to give perfect indexing of height, and more importantly, the precisely correct blade angle, so you can fit any tool on any shaft and get 100% cut accuracy every time without thinking.

Typically, tool changes take around 10 seconds. This means you can change tools mid-job and quickly remove tools from the machine to do blade changes.

Another advantage of Cam-lock tools is that tools like drill punches can be secured onto the same shaft so

even the simplest machines can punch holes with nothing else to buy other than the Cam-lock drill punch itself.

And since all steered tool shafts are hollow, cutters with more than one steered axis can carry more than one drill punch each with a solid rod ejector. Solid rod ejectors push the punch wad out from the tool to give you reliable punch holes every time, even in the thick and resilient materials.

And while most competitive machines only have the power to carry a small 6mm punch, Aeronaut's Elektron cutters fitted with Cam-lock drill punch tools can cut a full range of sizes up to 25mm.

Aeronaut's Cam-lock tools are mounted on an industrial-strength 12mm hardened steel shaft which is rigidly mounted on widely spaced bearings to give maximum accuracy, freedom from backlash and survive the roughest handling.

With the wide range of Cam-lock tools currently available and more in development, you can be sure that your cutter will tackle the toughest textiles, now and into a secure future.

Elektron Cam-Lock tooling



Product Specifications

28mm ball bearing rotary blade holder.

The most commonly used size of rotary (pizza) blade. Hardened steel blade axle. Lockable blade for semi-drag blade cutting. Available with a range of blade support discs for thin and thick fabric & multi-ply cutting. Replaceable bearings.



18mm ball bearing rotary blade holder.

Used for detailed work, internal cuts & small radius corners. Hardened steel blade axle. Replaceable bearings. All rotary blade axles are precision parts made from fully hardened steel and very rarely need replacing even when used at the very high cutting pressures possible with Elektron cutters.



45mm ball bearing rotary blade holder.

Used for large scale work with large radius curves and on thick material such as carpet. Hardened steel blade axle. Available with a range of blade support discs thick fabric & multi-ply cutting. Replaceable bearings.



LC drag blade holder.

Used for detailed work, internal cuts, cardboard, pre-preg, signs, stencils and plastic. Micrometer adjustable and lockable depth stop. The LC blade holder takes off-the shelf and commonly available blade types.



Mushroom drag blade holder.

Used for cutting more sticky materials such as rubber, PVC, Hypalon etc. The depth stop is fitted with a slippery Teflon insert so the tool slides easily over material when cutting.



Roller creaser holder.

Used for scoring, marking and creasing a range of materials including canvas, cardboard, plastic and corflute. A large number of job-specific creasing and scoring profiles are available from hardened steel sharp profiles to soft curved profiles.



Drill punch holder suitable for solid ejectors.

Because of the turning action when punching, the drill punch can be used to reliably and quickly cut holes in thin, thick and resilient materials. The punches are available in many different diameters, and can be replaced and sharpened.

Crush cut and creasing tool for fabric.

A heavy duty tool used for crush cutting textiles where an edge seal is required and for creasing especially firm fabric.

Cam-lock wrench.

This tool is used to secure and release Cam-lock tools from steered shafts. Large enough to firmly secure the tool, and small and light enough to be easy to handle.

Notch tools, chisel creasers and other drag blade holders are available.
More tools are in development including powered tools.

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