



Mikron

Computer Controlled Robotic Plotter-Cutter



AERONAUT'S MIGHTY MIKRON CUTTER. TOP PERFORMANCE AT A VERY GOOD PRICE.

Aeronaut's Mikron cutter is a heavy-duty production cutter without a heavy-duty price-tag. The Mikron is built as tough as old boots without compromising anything in speed, accuracy, strength, long life and performance... unlike any low-cost cutter you've seen before.

The Mikron is built from CNC machined billet aluminium, precision anodised aluminium extrusions, stainless steel and engineering grade plastic and features quality motors, bearings, electronics and pneumatics.

The Mikron features Aeronaut's Cam-lock quick change tooling, so blade changes can be done off the machine and any tool from the Cam-lock range including rotary blade cutters, drag blade knives, creasing tools and drill punches, can be fitted in a matter of seconds.

The Mikron uses Aeronaut's Cat drive system which guarantees low maintenance, very low backlash with minimal maintenance and excellent power transfer. The drive system uses oversize 25mm (1 inch) drive belts throughout and is highly resistant to dirty working environments.

The Mikron is designed as a self-install machine and fits easily onto almost any existing cutting table or onto commercial cutting room vacuum tables. Aeronaut can ship the Mikron anywhere in the world for a very reasonable price.

- Simple to use
- Repeatable high accuracy production
- High plot and cut speeds
- Lockable rotary blade
- 45, 28 and 18mm blades
- Cam-lock tooling
- Omniversal Pen holder
- Smooth and precise cutting
- Affordable purchase price
- Very low maintenance
- Easy servicing
- Compatible with most software and computers
- Cheap, widely available consumables such as blades and markers
- Quick installation
- Widely available spares
- Rigid guide extrusions
- Low-backlash Cat drive

Aeronaut Mikron Cutter



Product Specifications

Features

- Cam-lock tooling
- Rigid monoblock cutting head
- High performance plotting and cutting
- Tangentially steered cutting blade
- Lockable ball bearing rotary blade holder
- Pneumatically adjustable cutting pressures
- Available with and without vacuum table
- Runs from Macintosh or Windows PCs
- Close to zero maintenance
- Cutting widths up to 1850mm (73 inches)
- Cutting lengths up to 15m (50 feet)

Advantages

- Repeatable high accuracy production
- Rugged heavy-duty construction
- Off-the-shelf pens, blades, bearings and motors
- Concentric pen adaptors for accurate seams
- Very high cutting forces
- High Speed Operation
- Improved product quality
- Simple to use

Steered Cutting Tools

28mm (1.1") dia Rotary Blade Cutter (standard)
See the separate brochure on Cam-lock quick change tooling including 45mm, 28mm, 18mm rotary blades, drag blade holders, creasing tools and drill punches.

Marking Tools

Ball points, plastic tipped markers, pressurised markers, paint markers and the optional sign cutter are held in concentric holders in a precision heavy duty ball slide mount which is pneumatically operated. Flow controls stop tip damage on felt tips.

Max. Plotting/Cutting Speed

>1200 mm/sec (47 ips)

Drive System

25mm Cat belt drive system giving extremely low backlash and optimum power transfer. High torque Micro-Stepping Motors on X & Y axes.

Control Cabinet Dimensions

500 x 300 x 230mm (20" x 12" x 9")



Cam-lock Quick Change Tooling

Available Cutting Widths

1520mm	(60")
1650mm	(65")
1850mm	(73")

Available Cutting Lengths

Base machine: 7200mm (23.5')
Up to 15 metres (49.2').

Options

Vinyl Blade holder for logos, number & stickers.
Joystick for digitising.
Cam-lock tools.

Electrical Requirements

220-220 VAC, at 5 amps
100-120 VAC at 10amps

Compressed Air Requirements

1.5-7 bar @ < 7 l/min (25-80 psi @ < 0.25 cfm)

Specifications subject to change without notice.

