



Elektron

Computer Controlled Robotic Plotter-Cutter



BIG LASER POWER ~ BIG LASER SPEED ~ BIG LASER PERFORMANCE WITH AN OPTIONAL BUILT-IN ROTARY BLADE CUTTER

The Aeronaut Elektron Laser ZX family are high-powered water-cooled lasers for cutting and sealing industrial textiles. The Elektron Laser ZXs are a heavy-duty production machines. The short beam path and minimal optics give very efficient cutting, easy setup and low maintenance. The lightweight dual-gantry chassis of the Elektron Laser ZX can carry a range of lasers, with power outputs to suit any application. Compact gantry-mounted lasers mean rapid acceleration with cut speeds in excess of 1 metre per second. Big performance at a very reasonable price.

For unparalleled versatility, there's the Elektron Laser ZX Duo version, with a quick-change Cam-lock style blade holder built right into the same head. The appearance of both types is identical. So now you can get the best use of your cutting table and fit a rotary blade cutter to work with materials which are not suited to laser cutting, or fit a creasing tool for use in combination with laser cutting. And because it's an Aeronaut machine, change-over between blade and laser setups is around a minute.

Vacuum tables can be built with quick-change cutting surfaces, or with dual zones suitable for laser or blade cutting. Since there is no contact with the fabric with lasers, cutting is fast and very reliable. Cut patterns release cleanly. Nesting margins can be less than a millimetre. The result is big cost savings in time and fabric.

- Very High Cut Speeds
- High reliability
- Variable output power
- Simple setup
- Very low running cost
- Very low maintenance
- All-metal laser
- Water-cooled
- Cut and seal
- Rotary Blade option
- Perforate and mark
- Dual gantry chassis
- High torque motors
- Very simple construction
- Universal Pen holder
- Accurate, smooth cutting
- Affordable purchase price
- Easy servicing
- Widely available spares
- Rigid guide extrusions
- Low-backlash Cat drive

AERONAUT AUTOMATION ~ 4-6 TEPKO ROAD TERREY HILLS NSW 2084 AUSTRALIA

PHONE (61-2) 9450 0800. FAX (61-2) 9450 0477 WWW. AERONAUT.ORG EMAIL INFO@AERONAUT.ORG

Elektron Laser ZX Plotter-Cutter



Product Specifications

Features

- Compact gantry mounted water-cooled Lasers
- Optional Cam-lock tool shaft takes Rotary blades, drag blades, drill punches & creasers. (Duo)
- Quiet, efficient fume extraction
- High torque rare earth motors standard.
- Micrometer adjustable focus
- Low cost marker pens
- No inert gas required
- Full safety interlocks
- 25mm wide drive belts throughout.
- Quality Robotic cables running in energy chain
- Ultra low maintenance
- Cutting widths up to 5m (196")
- Cutting lengths up to 25m (82')

Advantages

- Simple rugged construction
- Simple to use and cheap to maintain
- Quiet, high speed operation
- Variable power output
- Cut, perforate, drill & edge-seal
- Improved product quality
- No un-cut threads or hangers
- Minimal plotting errors
- Easier cutting on difficult fabric
- Small nesting gaps reduce material waste
- Accurate kiss cutting of insignia cloth etc.

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 pneumatically operated ball slide mount. Flow controls stop tip damage on felt tips.

Max. Plotting/Cutting Speed

1200 mm/sec (47 ips)

Drive System

Micro-Stepping Motors

(2 on X-axis, 1 on each other axes) Elektron Pz
(1 on X-axis, 1 on each other axes) Elektron LC

Available Cutting Widths*

1.5m (59")	1.83m (72")
1.6m (63")	2.0m (78")
2.4m (98")	2.6m (102")

* Other widths available on request up to 5m.
For minimum table width add 450mm (17").



The Elektron Laser ZX Duo takes the full range of Cam-lock quick-change tools.

Available Cutting Lengths*

2.4m (7.8')	7.2m (23.6')
4.8m (15.75')	8.4m (27.5')
6m (19.7')	9.6m (31.5')

* Other lengths up to 25m available on request.
For table length add 650mm (26").

Cut Speeds

Cutting speeds vary depending on laser power and the type of fabric. As a guide, 9.9 oz Supercruise Dacron has been cut at speeds in excess of 500mm/sec on the 100 Watt Elektron Laser ZX laser. Contact the factory for full details on cutting speeds.

Options

Vinyl Blade holder
Digital pressure gauge

Control Cabinet Dimensions

630 x 540x 250mm (25" x 21" x 10")

Electrical Requirements

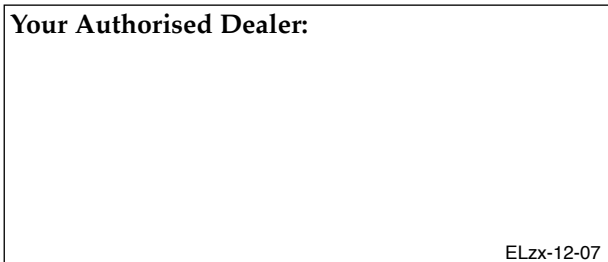
Depending on the installed laser. 200 watt lasers require three phase power.

Compressed Air Requirements

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

Specifications subject to change without notice.

Your Authorised Dealer:



ELzx-12-07