



Elektron

Computer Controlled Robotic Plotter-Cutter



LASER SPEED ~ LASER PERFORMANCE WITH A HOT-KNIFE PRICE TAG

The Aeronaut Elektron Laser Z is a compact high-performance and low-cost laser cutter intended for cutting and edge sealing lightweight textiles such as ripstop Nylon and light Dacrons. The Elektron Laser Z is a heavy duty production machine capable of cutting in excess of 1 metre per second.

This laser cutter has been designed for industries such as paragliding manufacture, kite and sail making, where high cutting speeds and edge sealing are required on light fabrics. Since the laser power needed to cut these materials at speed is relatively low, Aeronaut have fitted a lightweight all-metal sealed laser to the rigid, easy to accelerate Elektron chassis. The result is a breakthrough in performance and price.

Since there is no contact with the fabric when laser cutting, plotting 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. Laser power can be accurately controlled for marking, perforating or kiss cutting.

The Elektron Laser Z can be supplied with air or water cooled lasers and is fitted with a marker pen holder and efficient fume extraction. The metal sealed laser has a very low running cost with over 35,000 hours before re-gassing.

The Elektron Laser Z is an industrial revolution... Small size, clean design, rational engineering, the best price-performance ratio. And the best price tag in the industry.

- Very High Cut Speeds
- High reliability
- Variable output power
- Simple setup
- Very low running cost
- Very low maintenance
- All-metal laser
- Water or Air cooled
- Cut and seal
- Perforate and mark
- Lightweight rigid chassis
- High torque motors
- Very simple construction
- Universal Pen holder
- Accurate, smooth cutting
- Affordable purchase price
- Easy servicing
- Compatible with most software & computers
- 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 Z Plotter-Cutter



Product Specifications

Features

- Water & Air cooled CO² Lasers
- Quiet, efficient fume extraction
- High torque rare earth motors standard.
- Micrometer adjustable focus
- Low cost marker pens
- No inert gas required
- Full safety interlocks
- Available with and without vacuum table
- 25mm wide drive belts throughout.
- Quality Robotic cables running in energy chain
- Ultra low maintenance
- Cutting widths up to 3m (118")
- 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. At low power settings the laser can also be used for marking and creasing.

Max. Plotting/Cutting Speed

1200 mm/sec (47 ips)

Drive System

High Torque Micro-Stepping Motors
2 on X-axis, 1 on Y axis

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 3m.
For minimum table width add 220mm (9").



Very detailed shapes can be precisely cut at commercially high speeds with a perfect finish

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 500mm (20").

Cut Speeds

Cutting speeds vary depending on laser power and the type of fabric. As a guide, 3/4 oz ripstop Nylon has been cut at speeds in excess of 800mm/sec and 1.5 oz at speeds over 600mm/sec on the low power Elektron Laser Z air cooled laser. Contact the factory for full details on cutting speeds.

Options

Vinyl Blade holder

Control Cabinet Dimensions

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

Electrical Requirements

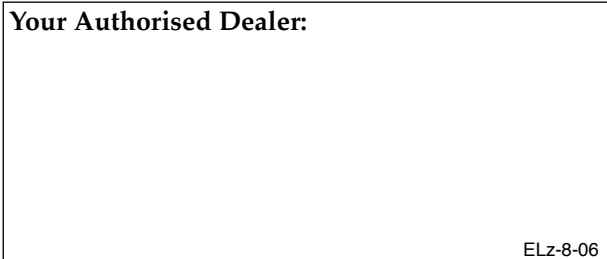
220-220 VAC, at 10 amps-100-120 VAC at 20amps

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:



ELZ-8-06