



Elektron

Computer Controlled Robotic Plotter-Cutter



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

The Elektron Laser Z Neo is Aeronaut's entry-level laser cutter... a proper production laser for cutting and edge sealing synthetic textiles such as Nylon, Cordura and Dacron.

Designed for industries such as parachute and paraglider manufacturing, kites and sail making, the lightweight laser means light fabrics can be cut at very high speed. At lower cut speeds, the focussed power of the sealed laser can cut through the heaviest fabrics.

Aeronaut's Neo range of lasers have been re-engineered to carry the newest and best lasers on the market. Watt for watt, Neo lasers cut faster... much faster than low-cost glass tube lasers.

Neo lasers are lower maintenance and have better fume extraction. Laser power control is improved and with most models, a higher power laser can be easily fitted in the future.

The Elektron Laser Z Neo can be supplied with air or water cooling and is fitted with a marker pen holder and fume extraction connections. The sealed laser has a very low running cost with over 54,000 hours before re-gassing.

The Elektron Laser Z Neo can carry Aeronaut's Cyclops machine vision camera for digitising, aligning patterns and registration marks and fabric fault finding. Small size, clean design, rational engineering, the best price/performance ratio. And a the best price tag in the industry.

- Very High Cut Speeds
- High acceleration
- Controlled output power
- Simple operation
- Very low running cost
- Very low maintenance
- All-metal laser
- Water or Air cooled
- Cut and edge seal
- Perforate and mark
- Lightweight rigid chassis
- High torque motors
- Linear bearings on gantry
- Universal Pen holder
- Cyclops camera option
- Accurate, smooth cutting
- Affordable purchase price
- Easy servicing
- Widely available spares

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Product Specifications

Features

- Water & Air cooled CO² Laser
- 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.

Max. Plotting/Cutting Speed

1200 mm/sec (47 ips)

Drive System

High torque hybrid Micro-Stepping Motors on all axes.

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 cleanly and precisely cut at 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 900mm/sec and 1.5 oz at speeds over 650mm/sec on the Elektron Laser Z Neo.

Options

Vinyl Blade holder
Cyclops machine vision camera

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:

EZN-17