



# Elektron

Computer Controlled Robotic Plotter-Cutter



## ELEKTRON LASER ZP NEO CUTTING AT THE SPEED OF LIGHT

The Aeronaut Elektron Laser ZP Neo is a high-performance gantry mounted laser cutter for fast and trouble free cutting and edge sealing of synthetic textiles. The Elektron Laser ZP Neo uses a pulse laser to give significantly higher cut speeds and a clean finish with minimal discolouration at the cut zone.

The Elektron Laser ZP Neo laser cutter has been designed for industries such as paraglider manufacture, parachute, kite and sail making, where very high cut speeds and good edge sealing are required. Stack cutting can be used with many Nylon fabrics to deliver significant production benefits.

The Elektron Laser ZP Neo can be fitted with a water cooled pulse laser of 100 or 150 watts. With a peak power output 400% higher, light materials can be cut at extremely high speeds. Aeronaut's Neo lasers have improved power control which means accurate perforating and surface marking.

The re-engineering of Aeronaut's Neo range of lasers means lower maintenance, cleaner operation, better fume extraction and longer service intervals. Watt for watt, they're the best laser cutters in the business.

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 zero. The result is big cost savings in time and fabric.

- 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

# ***Elektron Laser ZT Cutter***

## **Product Specifications**



### **Features**

- Water cooled CO<sub>2</sub> pulse 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 3.5m (138")
- 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**

1400 mm/sec (55 ips)

### **Drive System**

High torque hybrid Motors on all axes.

### **Available Cutting Widths\***

1.5m (59")                      1.83m (72")  
1.6m (63")                      2.05m (81")

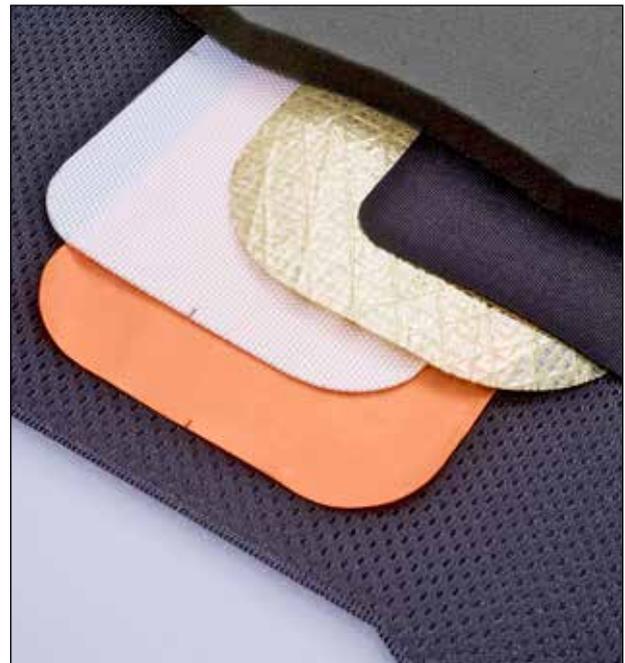
\* Other widths available on request up to 3.5m.

### **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").



*The Elektron Laser ZP cut most synthetic fabrics quickly, accurately and with minimum edge discolouration.*

### **Cut Speeds**

Cut speeds vary depending on laser power and the type of fabric. As a guide, 3/4 oz ripstop Nylon can be cut at speeds well in excess of 1400mm/sec with 30% power and 1.5 oz at speeds over 1000mm/sec.

### **Options**

Vinyl Blade holder

Cyclops machine vision camera

### **Control Cabinet Dimensions**

630 x 540x 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:**

ELT-18