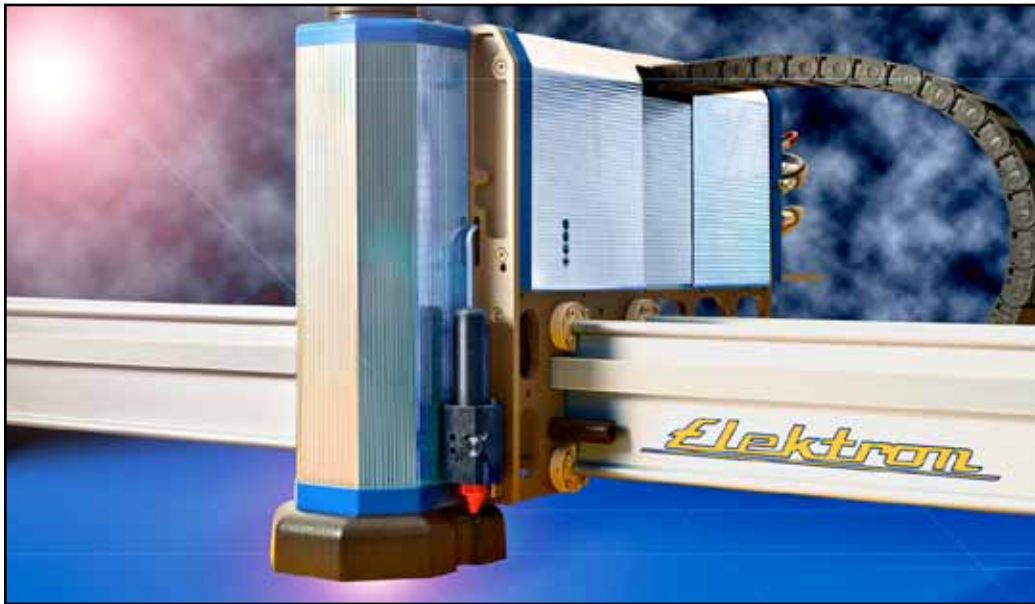




# Elektron

Computer Controlled Robotic Plotter-Cutter



## HEAVY-DUTY LASER POWER IN A FAST LIGHTWEIGHT CUTTER

The Aeronaut Elektron Laser ZT is a compact high-performance laser cutter for cutting and edge sealing synthetic textiles. The Elektron Laser ZT uses a newly developed range of compact high power lasers on a lightweight chassis optimised for high cut speeds, especially on small shapes.

The Elektron Laser ZT laser cutter has been designed for industries such as paraglider manufacture, parachute, kite and sail making, where high cut speeds and edge sealing are required. When stack cutting, the high power lasers available on this cutter deliver significant production benefits.

The Elektron Laser ZT is can be supplied with air cooled or water cooled lasers from 60 to 100 watts and is fitted with a marker pen holder and efficient fume extraction. The all-metal sealed laser has very low running costs with over 45,000 hours before re-gassing.

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. Laser power can be accurately controlled for marking and perforating.

The Elektron Laser ZT is an industrial revolution... 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 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

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# ***Elektron Laser ZT Cutter***

## **Product Specifications**



### **Features**

- Water & Air cooled CO<sup>2</sup> 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 2.05m (81")
- 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")                      2.05m (81")

\* Other widths available on request up to 3m.

### **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 ZT is designed for easy maintenance with major components easily accessible.*

### **Cut Speeds**

Cutting speeds vary depending on laser power and the type of fabric. As a guide, 3/4 oz ripstop Nylon can be cut at speeds in excess of 1200mm/sec and 1.5 oz at speeds over 900mm/sec on the a 60 watt Elektron Laser ZT. 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**

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-5-11