

# Raptor

laser marking systems  
powered by EF Technology



- unrivalled beam quality and stability
- marks wide range of materials - plastics, metals etc.
- ideal for removing highly reflective coatings
- enables bitmaps and two dimensional code
- exceptional reliability
- small size
- technology platform guaranteed for 4 years
- field replaceable diodes
- air cooled
- single phase power
- user friendly Windows™ software for optimum marking performance
- available as modules for production line integration or with choice of workstation for turnkey solution



# Raptor

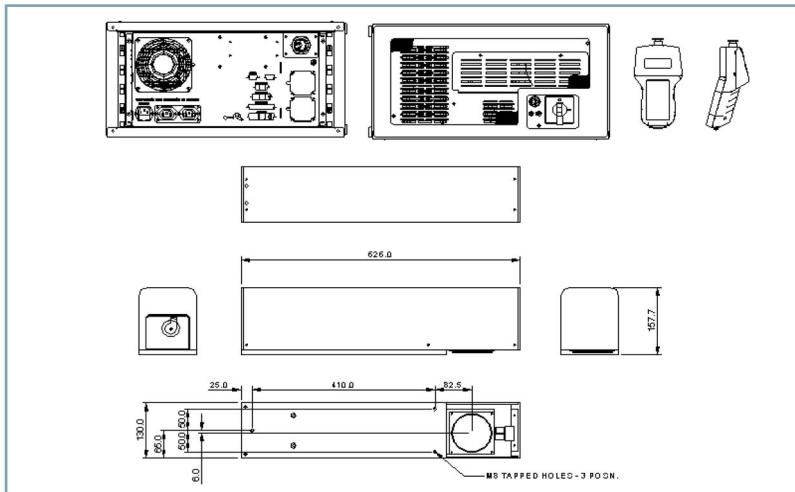
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## marking area parameters

flat field lens focal length	maximum square marking field	maximum marking diameter	working distance
100 mm	60 mm	85 mm	106 mm
163 mm	100 mm	140 mm	184 mm
254 mm	160 mm	220 mm	323 mm
410 mm	250 mm	350 mm	512 mm

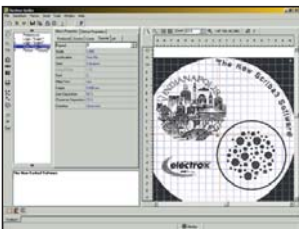
## dimensions

	Height (ins) (mm)	Length (ins) (mm)	Width (ins) (mm)	Weight (lbs) (kg)
Laser Enclosure	6 158	25 626	5 130	24 12
Control Unit	21 535	11 267	22 552	71 32



## software

Electrox laser marking software has been developed in conjunction with Raptor to ensure optimum marking performance.



- Fast file transfer to the laser
- File import formats: PLT (HPGL), AI, DXF, PNL (Electrox), BMP, TIFF
- Bar Codes
- Two Dimensional Codes including Data Matrix
- Automatic Serialization
- File Input Programming (Mail Merge)
- Date Coding
- Fill Editor
- Motion Control (4 Axis)
- Multiple I/O Interface

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## laser specification

**Laser type** - EF Technology  
**Wavelength** - 1064 nm  
**Pulse frequency** - CW, 0.1 - 100 kHz  
**Max marking speed** - 10,000 mm.s<sup>-1</sup>  
**Operating temperature** - 15°C - 40°C (non condensing)  
**Max pulse energy** - 0.25 mJ  
**Max peak power** - 10 kW  
**Pulse duration** - 25 ns (10 kHz)  
**Power stability** - ±3%  
**Min spot size** - <25 µm (100 mm lens)  
**Beam quality** - 2 mm.mrad (M<sup>2</sup> < 1.5)  
**Control electronics** - 19 inch rack mounted (5U) module  
**Optical unit protection** - IP67

## utilities

input voltage single phase + Earth, 50 or 60 Hz;  
100 - 240 V

power requirement 250 W



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