Scorpion

Yb:Fiber laser marking systems

- unrivalled beam quality and stability
- marks wide range of materials - plastics, metals etc.
- ideal for removing highly reflective coatings from delicate substrates
- exceptional reliability
- entire laser guaranteed for 2 years
- small size
- outstanding thermal efficiency
- 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

LASERS FOR INDUSTRY
electrox
600Group

www.electrox.com

Scorpion

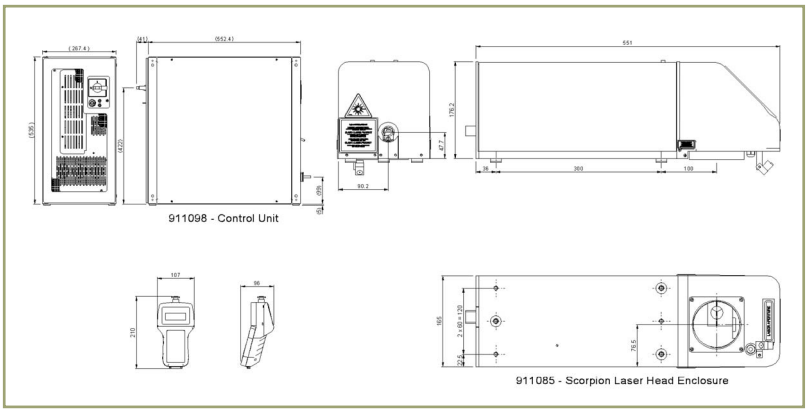
Yb:Fiber laser marking systems

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	7	176	22	551	6	165	24	11
Control Unit	21	535	11	267	22	552	71	32

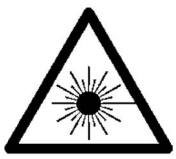


laser specification

Laser type – Yb:Fiber
Wavelength – 1060 - 1080 nm
Pulse frequency – 20 - 80 kHz pulsed only
Max marking speed – 10,000 $mm.s^{-1}$
Operating temperature – up to 40°C non condensing
Max laser average power – 10 W and 20 W
Max pulse energy – 0.5 mJ (10 W) and 1 mJ (20 W)
Max peak power – 5kW (10W) and 10kW (20W)
Pulse duration – 100ns
Power stability – ±1%
Min. spot size – <20µm (100mm lens)
Beam quality – 1.5 mm.mrad (M^2 = 1.2 max)
Control electronics – 19 inch rack mounted (5U) module

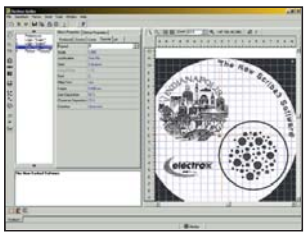
utilities

input voltage	single phase + Earth, 50 or 60 Hz; 100 - 240 V
power requirement	250 W



software

Electrox laser marking software has been developed in conjunction with Scorpion 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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