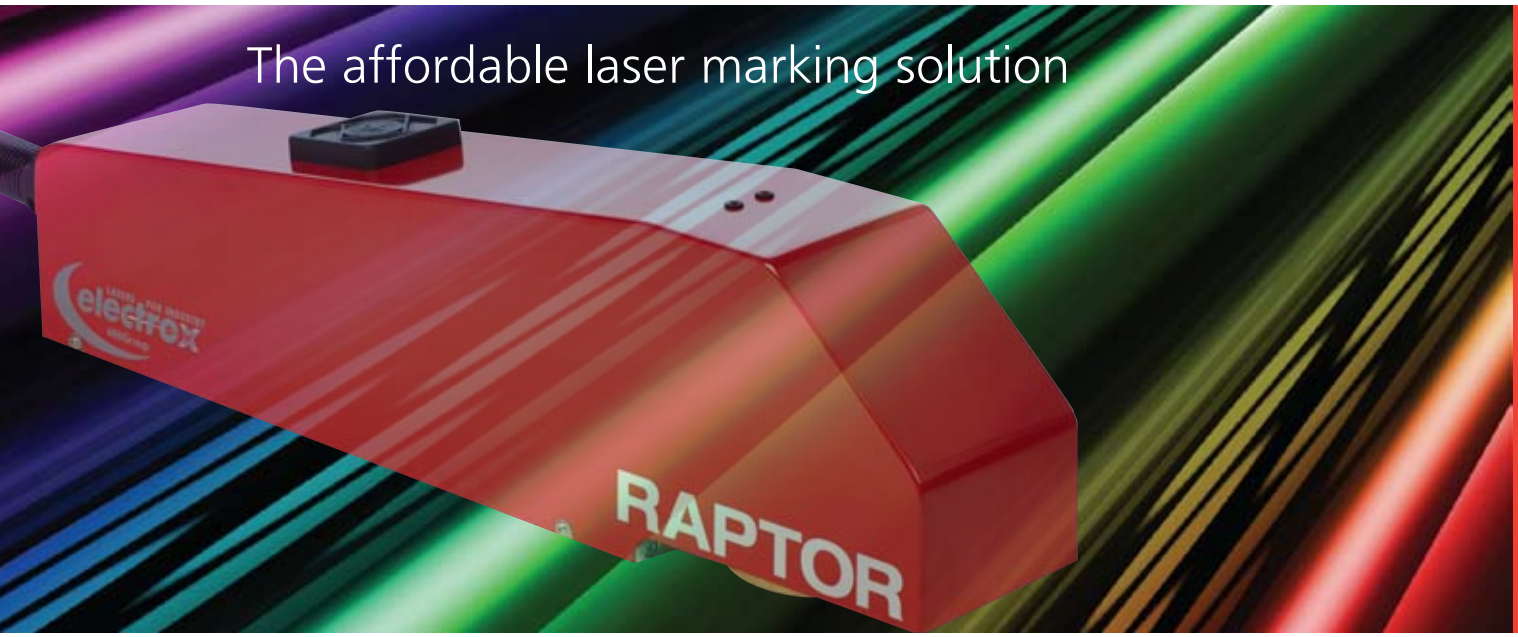
LASERS FOR INDUSTRY
electrox
600Group

RAPTOR

The Electrox Raptor is a cost-effective laser marking system that offers all the benefits of fibre technology



- Cost-effective solution for high resolution marking on metals, plastics and other materials
- In-built 4 axis control, which is easily integrated into automated production systems or into one of Electrox's stand-alone workstations
- Extremely low operational cost and virtually maintenance free
- Can be programmed easily and quickly with user friendly Windows™ software

Marking Area Parameters

Flat Field Focal Length (mm)	Max. Square Marking Field (mm)	(øD) Max. Marking Diameter (mm)	(Fd) Working Distance (mm)	Approx. Spot Size (mm)
100	60	85	106	30µm
163	100	140	184	50µm
254	160	220	323	80µm
350	220	310	432	110µm
410	250	350	512	130µm

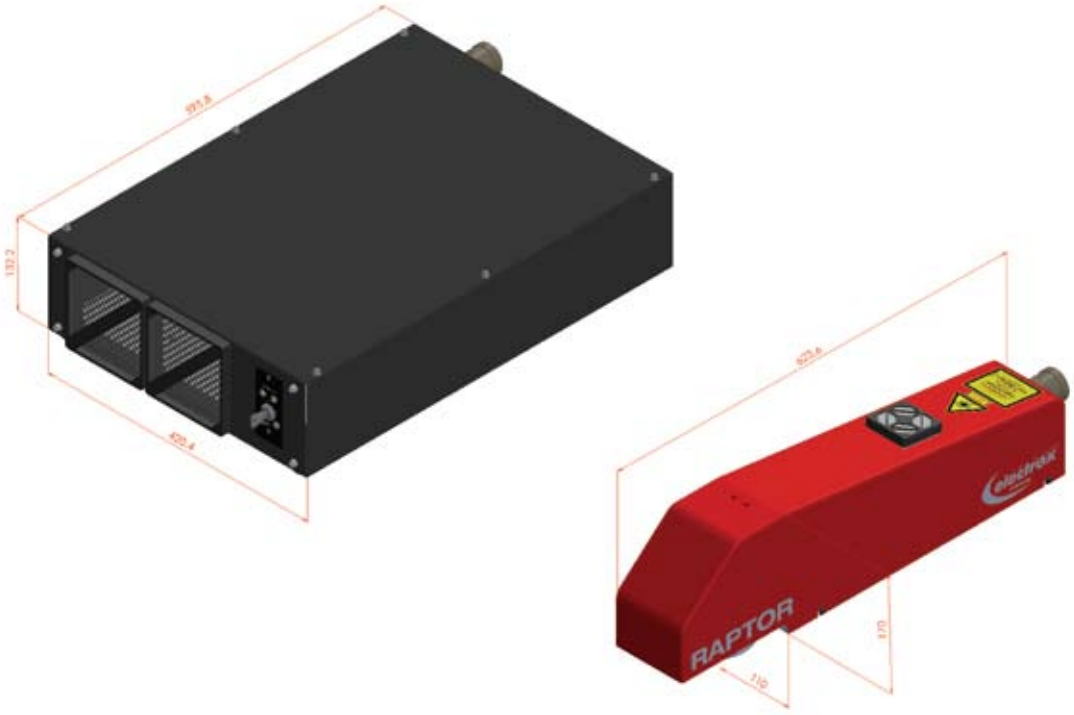
Additional options for this laser include:

- External I/O board
- Focus finder
- Extended umbilical
- Camera vision system

Laser Specification

Laser type	EF Technology
Wavelength	1064nm
Pulse frequency	CW, 0.1–150kHz
Max. marking speed	10,000 mm.s^{-1}
Operating temperature	15°C–40°C (non condensing)
Max. laser average power	Up to 12W
Max. pulse energy	0.2mJ (I) and 0.4mJ (II & II*)
Max. peak power	10kW (I) 20kW (II & II*)

Pulse duration	25ns (10kHz)
Power stability	±3%
Beam quality	<3mm.mrad (M^2 <2)
Control electronics	19 inch rack mounted (5U) module
Optical unit protection	IP52
Supply requirement	Single phase + Earth, 50 or 60Hz; 100 - 240V. Power 250W
Weight	Laser 12Kg, Control Unit 21Kg



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Leading laser marking systems

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