

SCORPION™

High Accuracy, Standalone
Integration Laser



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High Precision and Standalone Capability make Scorpion the Ultimate Integration Laser

Scorpion is equipped with a variety of features that are ideal for integrators looking for a powerful marking laser for their process. Standalone capability allows for onboard storage of the laser marking programs without the need for a PC on the shop floor or production line. Operators and programmers can easily control and select marking programs using the included handheld pendant. Scorpion can be networked, allowing engineers and programmers to update the onboard marking programs from anywhere on the factory floor. Our proprietary beam steering technology provides high precision and repeatability for demanding, high-volume applications.

Scorpion uses the latest in fiber laser technology, features a 3 year warranty, and is air-cooled and maintenance free.

Programming with our Scriba software enables you to easily create and mark text, barcodes, serial and date codes, graphics and more.



FEATURES:

- Air-Cooled, Maintenance Free Design for Industrial Applications
- Powerful Fiber Laser Engine from 10 to 100W with Selectable Pulse Durations
- PC Free Operation with Onboard Storage and Handheld Pendant Control
- Network Capable
- Control Marking Data with Multiple Protocols
- Proprietary Beam Steering with High Precision and Repeatability
- Integrated Focus Finder for Fast and Easy Setup of Focal Height
- Available with a Variety of Focal Lenses from 160mm to 420mm
- Ideal for Marking all Metals, Carbide, Painted/Anodized Materials & Most Plastics
- Comprehensive 3-Year Warranty

System Specifications	
System Dimensions	(mm) Head 567L x 111W x 170H / Rack 421L x 596W x 133H (in) Head 22.3"L x 4.4"W x 6.7"H / Rack 16.6"L x 23.5"W x 5.2"H
Weight	Head - 11kg / 24lbs Rack - 17kg / 37.5lbs
Standard Marking Field (160L Lens)	(mm) 100mm x 100mm (in) 3.93" x 3.93"
Available Marking Lens Upgrade and Marking Fields	254L (165mm x 165mm, 6.5" x 6.5") 330L (200mm x 200mm, 7.87" x 7.87") 420L (260mm x 260mm, 10.2" x 10.2")
Focal Distance	160L - 184mm / 7.24" 254L - 323mm / 12.72" 330L - 432mm / 17" 420L - 512mm / 20.16"
Operative Ambient Temp. Range	7° - 36° C / 45° - 97° F
Cooling	Air Cooled
Input Power	Power Sensing 110-240VAC 50/60Hz
Available Ports	USB / Ethernet / RS232 / Discreet IO
Warranty	36 Month Comprehensive Unlimited Hours
Optional Accessories	<ul style="list-style-type: none"> • Rotary Device (360° Marking) • Fume Extraction • Contact TYKMA ElectroX for a full list of accessories

Laser Specifications	10W	20W (2 Pulse Duration)	20W (8 Pulse Duration)	50W	100W
Laser Type	Ytterbium Fiber				
Wavelength	1064nm (nominal)				
Pulse Duration	100ns	Selectable, 30 or 100ns	Selectable from 4, 8, 14, 20, 30, 50, 100 and 200ns	100ns	120ns
Frequency Range	2-200kHz	10-500kHz (30ns) 2-200kHz (100ns)	1.6-1,000kHz	2-200kHz	50-200kHz
Aiming Beam	(2) Class IIM Red Diode (635nm)				
Fiber Cable Length	3m		2m	3m	

Scorpion™ is a Class 4 laser product.

Laser interaction with materials can create fumes and/or particles. TYKMA ElectroX highly recommends the use of fume extraction equipment to minimize dust, fumes or smoke that can be created during the marking, etching or engraving process.

TYKMA ElectroX follows a policy of continuous product improvement. Specifications are subject to change without notice.



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