

LXQ-2D FIBER LASER MARKING SYSTEMS

Fast, powerful lasers for heavy duty industrial marking.



HIGH POWER FOR FAST MARKING

LXQ-2D fiber lasers pack up to 200 Watts, making them the fastest fiber marking lasers on the market. These powerful lasers make deep marks on metals and mark moving materials with high speed on-the-fly marking capabilities.



BUILT FOR HARSH ENVIRONMENTS

The specially-engineered design of the LXQ lasers enables the marking head to operate in industrial environments involving vibration, dust, and high temperatures. This allows laser marking to be an integrated part of many metal production processes for the first time.



CUSTOMIZED SOLUTIONS

The LXQ series' modular platform means systems can be created for each individual application to achieve optimum mark quality, production efficiency, and safety.



Feature	LXQ-20	LXQ-30	LXQ-50	LXQ-100	LXQ-200	
Nominal Laser Output Power	20 W	30 W	50 W	100 W	200 W	
Power Consumption	200 W	250 W	350 W	500 W	1000 W	
Dimensions (W x H x D) and Weight	Laser Controller Head	19" x 7" x 19.5" 19" x 5.2" x 19.5" 6" x 7.4"* x 9"	37 lb 18 lb 20 lb		Laser Controller Head	19" x 10.4" x 26.2" 19" x 5.5" x 19" 23" x 9"* x 7" 90 lb 18 lb 26 lb
Operating Environment	50°F to 95°F; non-condensing humidity			50°F to 120°F; non-condensing humidity Internal water cooled module: 64°F to 79°F		
Protection Class (Head)	IP67			IP65		
Power Supply	24 VDC			120 V or 240 V		

* Height of the laser head may vary depending on lens used.

SPECIFICATIONS

Wavelength	1,064 nm
Mean Time Between Failures (MTBF)	100,000 hours
Spot size	~ 50 µm to 100 µm, depending on configuration
Communication	Ethernet, RS-232, USB, digital input/output, encoder signal
Focal Distance** (distance from lens to marking surface)	18.1" to 23.6"; factory set to 21.5" 460 mm to 600 mm; factory set to 547 mm
Focal Range (Part Surface Variance)	6 mm (± 3mm)
Marking Field Size**	10.2 in ² to 12.8 in ² (factory set to 11.8 in ²) 260 mm ² to 324 mm ² (factory set to 300 mm ²)
Mark on the Fly (MOTF)	Yes
Stand-alone Operation	Yes
Characters per second	Depends on application
Line speed	Depends on application

** With standard 420 mm focal length lens. Other lenses available.



Control panels and enclosures for the laser source, controller, and optional cooling systems allows easy installation in all types of work environments.

COMPLETE SAFETY ENCLOSURE WORKSTATIONS

LXQ lasers can be supplied with a variety of automated safety enclosures for use as stand-alone workstations or inline marking cells.



Pannier Corporation
207 Sandusky Street
Pittsburgh, PA 15212 USA
sales@pannier.com
+1 412.323.4900

INDUSTRIAL MARKING SYSTEMS SINCE 1899

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