

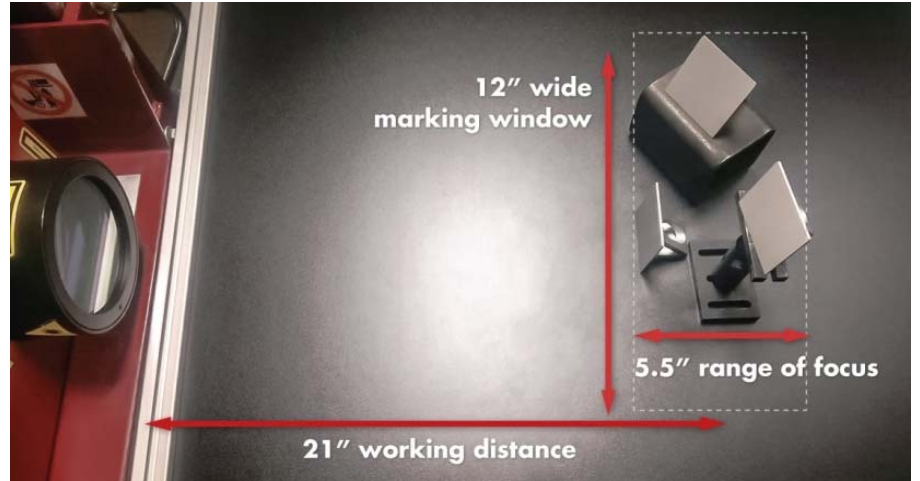
LXQ-3D FIBER LASER MARKING SYSTEMS

Fast, powerful lasers for heavy duty industrial marking.



3D LASER MARKING

The LXQ-3D laser marking systems make it possible to mark on a variety of challenging part geometries including curved, angled, and multi-level surfaces. Marking jobs can be programmed to mark anywhere within the marking window and a 5.5" deep range of focus.



HIGH POWER FOR FAST MARKING

LXQ-3D 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.



Feature	LXQ3D-20	LXQ3D-30	LXQ3D-50	LXQ3D-100	LXQ3D-200
Nominal Laser Output Power	20 W	30 W	50 W	100 W	200 W
Power Consumption	350 W	400 W	500 W	650 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" 6.4" x 8.9" x 26.6"	37 lb 18 lb 27 lb		Laser 19" x 10.4" x 26.2" 90 lb Controller 19" x 5.5" x 19" 18 lb Head 23" x 9" x 7" 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
Supply Voltage	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
Marking Field Size**	10.2" x 10.2" to 12.8" x 12.8" (factory set to 11.8" x 11.8") 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

The LXQ series' modular platform means systems can be created for each individual application to achieve optimum mark quality, production efficiency, and safety. A variety of automated safety enclosures can be supplied for use as stand-alone workstations or inline marking cells.



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