LASERAX

LXQ-LP SERIES

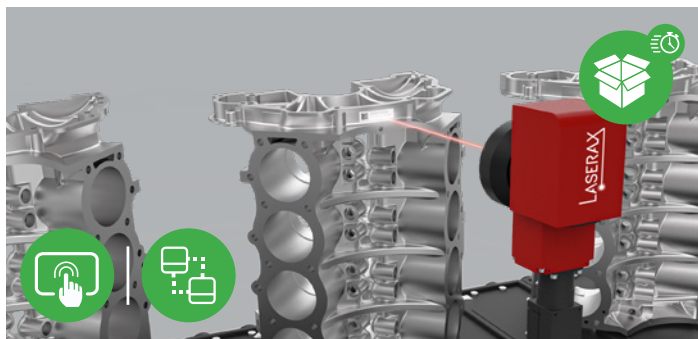## 10W & 20W FIBER LASER MARKING SYSTEMS

With its simplicity of design and low output power, the LXQ-LP is our most affordable fiber laser marker. It is specifically designed to be easily integrated in production lines or manually operated marking stations where cycle time is not a constraint.

The LXQ-LP also has marking capabilities that prevent on-site mechanical adjustments. Coupled with its high reliability, it is the perfect tool to minimize your investment without compromising quality.

24/7 Operation

Mininal Maintenance

Energy Efficient

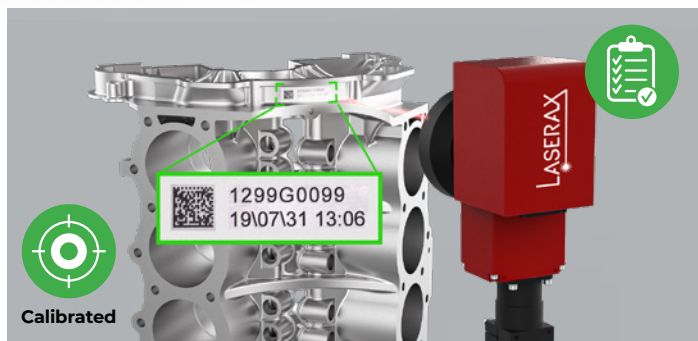**No Consumables**

Calibrated

LOW OPERATIONAL COSTS

Running on electricity alone, our fiber laser markers are extremely energy efficient. They're also practically maintenance free. Built with components that have a proven reliability record, they show no signs of fatigue when it comes to marking quality and speed, even when operating 24/7 for more than 10 years.

PRECONFIGURED FOR QUICK START

The laser marker and its optional peripherals are delivered preconfigured, pre-calibrated and pre-tested with the best configuration for each application. Controlled using PROFINET or Ethernet/IP, the modules include a web-based HMI software to rapidly take control of the laser as well as quick start programs for PLCs.
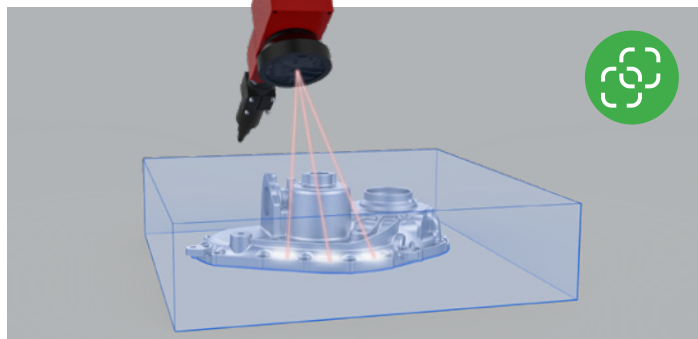
EASY INSTALLATION

Easy to integrate, our low-power laser systems have a lightweight laser head with a small footprint. The accompanying modules are fastened to a standard 19-inch rack frame so you can install the whole setup without complications.

NO MECHANICAL ADJUSTMENTS

With much better marking capabilities than other lasers on the market, the LXQ-LP prevents complex mechanical designs so you can reduce integration costs. Our laser configuration offers the greatest flexibility in terms of marking field and positioning tolerance.

EVERY GREAT PART DESERVES A GREAT MARK.

LASER SPECIFICATIONS

	LXQ-LP
Nominal Laser Output Power	10 W, 20 W
Nominal Pulse Repetition Rate	10 kHz, 20kHz
Power Consumption	240W, 250W
Laser Type	Solid-state ytterbium-doped fiber
Supply Voltage	24 VDC
Pulse Energy	Up to 1 mJ
Pulse Width	100 ns for 3 m fiber cable 150 ns for 5 m fiber cable
Wavelength	1064 nm
Beam Quality	<2
Laser Safety Class	Class 4 laser product: CSA-E60825-1:15, 21 CFR 1040.10, IEC 60825-1
Cooling	Air cooling
Fiber Cable Length	3 m 5 m
Fiber Cable Minimum Bending Radius	Static: 80 mm Dynamic: 150 mm
Fiber Laser Source MTBF	100,000 hours
Barcode Validation (optional)	Cognex DataMan 260 Series Cognex DataMan 370 Series
Remote Access Security Protocol	OpenVPN (encrypted channel – OpenSSL)
HMI Software	Web based, Allen-Bradley, Siemens
I/O	Terminal Block I/O, M12-5 pins, Encoder Signal
Communications	Ethernet/IP, PROFINET, RS - 232, OPC/UA, USB
Dimensions (W x H x D)	Source: 4U rackmount, 483 x 177 x 500 mm Control: 3U rackmount, 483 x 133 x 500 mm 2D Head: 117 x 149 x 500 mm
Weight	Laser: 17 kg Control: 9 kg 2D Head: 4.8 kg
Environmental Conditions	Temperature: 10 °C to 35 °C Humidity: 10% to 90% (without condensation)
Approvals	c(UL)us CE

LENS SPECIFICATIONS

Focal Length	254 mm	420 mm
Max Scanning Speed	18 m/s	30 m/s
Nominal Spot Size	50 µm	80 µm
Nominal Marking Distance	315 mm	527 mm
Nominal Marking Field Size	175 x 175 mm	300 x 300 mm
Depth of Focus	3 mm	6 mm