



F-Series - FQD100* Fiber Laser Marking Systems

The innovative, **patent pending** FQD100 dual beam pulsed fiber laser system is perfectly suited for advanced applications that require rapid processing over a wide range of materials. The dual beam deflection system enables increased throughput over single head laser systems. Unique to this system is the ability to simultaneously mark in two separate fields, with the flexibility of independent parameter control for each marking head. For example, it is possible to mark with one beam and simultaneously use the second for a cleaning pass, or simultaneously mark the first half of a serial number with one beam and the second half with the second beam, or to combine the two beams on a single pattern for efficient high fluence material removal. The dual head configuration allows for significantly larger marking fields and sophisticated pattern generation that can outperform the cycle times of much higher power lasers. This system maintains the beam quality all Telesis fiber lasers are known for as well as a 100,000 hour MTBF diode reliability. It is the only fiber laser system of its kind that is entirely aircooled and powered from a single phase power outlet. The

Windows® based control software is intuitive to use, easily run on a laptop, and requires only 2 USB ports and an Ethernet port for external interfacing.



FQD Series System Components

LASER MARKER SPECIFICATIONS

Compliance.....	CDRH, CE
Wavelength.....	1,060nm(+/-20nm)
Laser Type.....	Q-Switched Ytterbium Fiber Laser
Average Power.....	100W
Peak Power.....	>8kW
Beam Quality.....	M ² < 2
Fiber Length.....	2.74 meters (9.0ft) Std.
Long Term Power Drift.....	< +/- 5%
Optical Isolator.....	Standard
Positioning.....	Dual Visible Red Laser Diode
Mounting Weight.....	Approx. 15.9kg(35.0 lbs.)
Marker Head Dimensions.....	47.5(L)x 23.9(W)x 18.6cm(H) (18.7" x 9.0" x 7.3")
Controller Dimensions.....	51.1(L)x 43.8(W)x 21.3cm(H) (20.1" x 17.3" x 8.4")
Controller Weight.....	Approx. 27.2kg(60.0lbs.)
Input Power (Selectable).....	95-250VAC, 50/60Hz
Max. Power Consumption.....	<600W
Cooling.....	Air Cooled (no water cooling required)
Operating Temperature Range.....	18° to 35°C (65° to 95°F)
Humidity.....	10% to 85% Non-condensing

SOFTWARE

Software.....	MERLIN® DM
Operating System.....	WindowsXP®, or Windows®7 with Optional Laptop, Desktop or Rackmount PC
Communication Interface.....	2x USB, Ethernet TCP/IP

OPTIONS

- Multiple Axis Automation for X, Y, Z and rotation
- Fume/Dust Extractor
- CDRH Class 1 enclosures
- Design, build and integration of custom engineered solutions available



*PATENT PENDING



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