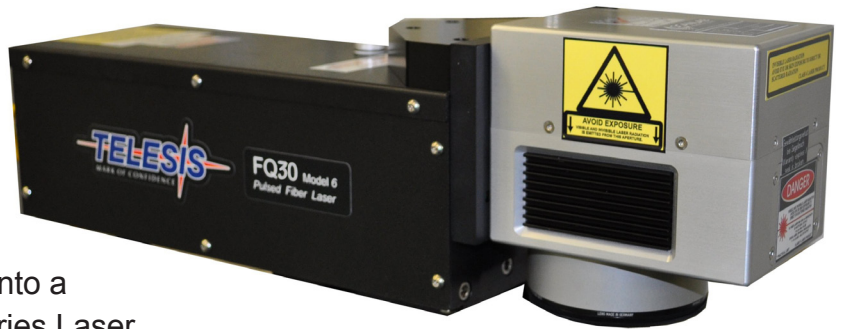




F-Series - FQ50, FQ30, FQ20 and FQ10 Fiber Laser Marking Systems

The TELESIS FQ50 is the latest laser in a family of maintenance free Q-switched ytterbium fiber lasers specifically designed for marking applications with average power levels from 10-50W. These lasers deliver a high power laser beam directly to the marking head via a flexible metal sheathed fiber optic cable. The fiber based optical design and rugged mechanical design allows these markers to operate in an industrial environment where shock, vibration and dust are a concern. The F-Series fiber marker's unique design allows the overall package to be very small and modular for ease of integration into a variety of industrial applications. The F-Series Laser Marking Systems offers a best in class 100,000 hour MTBF diode reliability with no water cooling requirements, and only single phase 110/220VAC power requirements.



STANDARD LENS CONFIGURATIONS

FOCAL LENGTH	MARKING FIELD
100mm	65mm X 65mm (2.56" X 2.56")
160mm	90mm X 90mm (3.54" X 3.54")
163mm	110mm X 110mm (4.33" X 4.33")
254mm	175mm X 175mm (6.89" X 6.89")
330mm	230mm X 230mm (9.06" X 9.06")
350mm	250mm X 250mm (9.84" X 9.84")
420mm	290mm X 290mm (11.42" X 11.42")

SOFTWARE

Software	MERLIN® II LS
Operating System	Windows® 2000, Windows XP, Windows Vista™, Windows® 7, or Windows® 8 with Optional Embedded, Desktop or Rackmount PC
Communication Interface	Serial, TCP/IP, I/O



Model 6
Series Controller

LASER MARKER SPECIFICATIONS

Compliance	CDRH, CE, CSA, UL
Wavelength	1,060nm
Laser Type	Q-Switched Ytterbium Fiber Laser
Average Power FQ50/30/20/10	50/30/20/10W
Peak Power FQ10	>4kW
Peak Power FQ50/30/20	>8kW
Beam Quality FQ50/30/20/10	M ² < 2
Fiber Length FQ10	5 meters (16.4ft.) Std.
Fiber Length FQ50/30/20	3 meters (9.8ft.) Std.
Long Term Power Drift	< +/- 5%
Optical Isolator	Standard
Positioning	Visible Red Diode Light
Mounting Weight	6.8kg (15lbs.)
Marking Head Dimensions	51.0 (L) x 12.7 (W) x 14.0 cm (H) (20.1 x 5.0 x 5.5in.)
Dimension with Selected Lens (H)	
	100mm: 14.4cm (5.7in.)
	160mm: 14.2cm (5.6in.)
	163mm: 15.8cm (6.2in.)
	254mm: 17.2cm (6.8in.)
	330mm: 17.8cm (7.0in.)
	350mm: 15.9cm (6.3in.)
	420mm: 17.8cm (7.0in.)
Model 6 Controller Dimensions	42.7(W)x 14.5(H)x 50.8cm(D) (16.8 x 5.7 x 20.0in.)
Laser Marking Head Cable	5m (16.4ft.), detachable
Laser Extension Cable	3m (10.0ft.), detachable
Input Power (Selectable)	95-250VAC, 50/60Hz
Maximum Power Consumption FQ50	Less than 400W
Maximum Power Consumption FQ30	Less than 280W
Maximum Power Consumption FQ20	Less than 250W
Maximum Power Consumption FQ10	Less than 200W
Cooling	Air Cooled, Fan/Filter (no water cooling required)
Operating Temperature Range	15° to 35°C (55° to 95°F)
Humidity	10% to 85% Non-condensing



QR Code Web Page Product Link

DATA MATRIX™ 2-D Code Marking Capability
Meets all Department of Defense UID Requirements