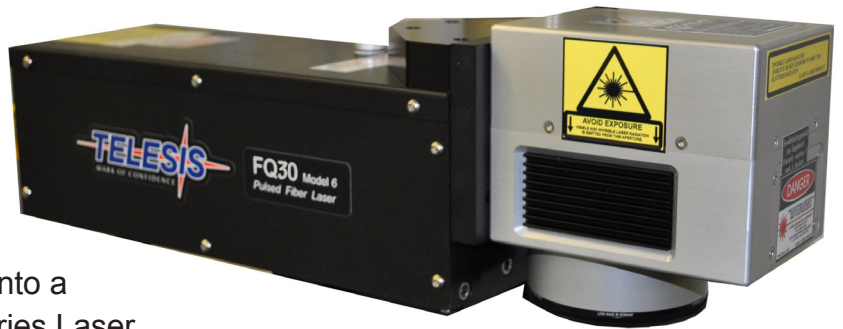




F-Series - FQ50, FQ30, FQ20 and FQ10 Fiber Laser Marking Systems

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 |
| 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