



F-SERIES — FQ20D

The F-Series FQ20D from TELESIS features an advanced, dual-scan marking head, based on our successful Pulsed-Fiber Laser platform. Capable of extremely high-speed, high quality simultaneous, duplicate marking on two surfaces, it offers lower operation costs along with increased production and handling efficiencies. In addition to marking, the FQ20D is an excellent choice for scribing, trimming and a variety of material processing applications.



GENERAL SPECIFICATIONS

Compliance	CDRH, CE, UID
Wavelength	1,060 nm (+/-10nm)
Laser Type	ytterbium doped Q-Switched fiber laser
Q-Switch Frequency	20KHZ to 80KHZ
Average power per scan head	5 Watts (combined 10Watts)
Beam quality	M2 < 2
Long term power stability	less than ± 5%
Positioning	two red diodes
Fiber optic cable length	3 meters (9.8 feet)
Cooling	Air cooled
Max. Power Consumption	less than 550W
Operating Range	10° to 35°C (50° to 95°F)
Humidity	10% to 85% non-condensing
Expected MTTF (Diode)	Greater than 100,000 hours
Shipping weight (for 160mm lenses)	approx. 35 kg (77 lbs)

LASER MARKING HEAD SPECIFICATIONS

Dimensions (L x W x H)	20.0" x 13.9" x 5.486"
Mounting Weight (with 160mm lenses)	approx. 16 kg (35lbs)
Mounting Holes	six M5-0.8

Laser Controller Specifications

Dimensions (W x H x L)	16.74" x 5.25" x 20.0"
Weight	approx. 15.5 kg (34 lbs)
Input Power (selectable)	115/230VAC 50/60 Hz

FEATURES

- Reliable, maintenance free performance
- Compact size and modular construction
- Requires a fraction of normal power consumption for optimum performance
- Exceptional beam quality and stable output power
- Active AO Q-Switching
- Output laser beam delivery via fiber optic cable
- Sealed marking head prevents dust penetration into the optical compartment
- Two scan head configuration for doubling marking throughout
- Two visible "red light" diodes for dry run / positioning for each scan head
- Air cooled
- Display monitors the actual laser power
- Display monitors worked hours
- Standard 115/230VAC wall plug operation
- DoD-compliant Unique Identification (UID) marking



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

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