



Gemini[™] 10FQ 20FQ PULSED FIBER to FIBER LASERS

The GEMINI[™] series from TELESIS features an advanced, dual-scan marking head, based on our successful ZENITH[®] 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 GEMINI[™] 10FQ and 20FQ are excellent choices 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
 (for Gemini 20FQ) 10 Watts (combined 20Watts)
 Average power per scan head
 (for Gemini 10FQ) 5 Watts (combined 10Watts)
 Beam quality M2 < 2
 Long term power stability less than ± 5%
 Positioning two red diodes
 Fiber optic cable length
 (for Gemini 20FQ) 3 meters (9.8 feet)
 Fiber optic cable length
 (for Gemini 10FQ) 5 meters (16.4 feet)
 Cooling Air cooled
 Max. Power Consumption
 (for Gemini 20FQ) less than 550W
 Max. Power Consumption
 (for Gemini 10FQ) less than 450W
 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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