Multi-diodes pumped Ytterbium doped fiber laser system

AKSHAR FIBER-PRO-M 50
Specifications

Spectral Characteristics
Wavelength 1060 ± 10nm

Optical Characteristics
Average Power 50 W
Single Pulse Energy 1 mJ @ 50 KHz
Polarization type Random
Power Tunability 10 -100%
Pulse Repetition Rate 50 - 80 kHz
Pulse Duration 110 ns
Power Stability 5 % (max.)
Inbuilt Guide Laser 0.5 mW, 660 nm
Wall-plug Efficiency >30%
Spot Diameter 21 µm
Focusing optics F: 77 mm

Beam Characteristics
Beam Quality (M2) <1.5 mrad or better
Beam Ellipticity >90 %
Beam Diameter (1/e2) -6 - 9 mm

Controller & CNC system
Axis Travel
Machining area (X&Y) 100 x 100 /150 x 150 mm²
Motorized Z- Axis Travel 50 mm
Drive Servo Control Drives
CNC Table travel speed (X&Y ) Minimum ≤ 0.01 mm/s
Maximum ≥ 60 mm/s
Resolution/accuracy ≤ 0.01 mm

Vision system
Integrated Coaxial vision system along with Software for focusing purpose

Cooling
Air Cooled

Electrical Power
230V/50 Hz

Mark- Pro Software
For marking, sawing and drilling and movement of CNC table; with suitable operating system

Computer system
Integrated computer system with GUI (Graphical User Interface)

Features
- Excellent Beam Profile for superficial & deep marking
- Motorized Axis for faster focusing
- Compact in size
- User friendly CNC Controller software Mark-Pro
- Integrated Coaxial vision system along with Software for focusing

Optional Accessories
- Laser Power meter *
- Co-axial nozzle system for supply of assisted gas
- Safety Goggles

* Suitable for user application measurement

An ISO 9001: 2015 certified company

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