

FLAST-NanoMARK 100W Fiber Laser Material Processing and Marking System

FLAST-NanoMARK series Fiber Laser Material Processing and Marking System is a proprietary product of FiberLAST. The robust mechanical structure of the system and unique electronical control mechanism ensures long life span and minimizes maintenance requirements. The unique high peak power of beam quality and FLAST NanoMARK quarantees high performance for your application. The beam quality of the system allows sensitive processing even at low average powers when needed. These features provide the user with a precise and wide range of processing capabilities. In addition, the laser system is pulse modulated and has a special driver that can change the pulse shape. With the advantages and unique technology it offers, it is rewarded with the TÜBİTAK Technology Awards, the Innovative Creative Idea Award of TESID, and the Technology Incentive Award of METU Prof. Dr. Mustafa N. Parlar Education and Research Foundation in the first place.

Applications

- Material processing
- Marking
- Cutting
- Engraving
- Micromachining
- Surface hardening
- Surface cleaning













Features

- Proprietary and unique design
- 7/24 operation
- Maintenance free
- Air cooling
- Low energy consumption
- High beam quality
- Humidity & temperature monitoring
- Power electronics control
- Built-In-TEst and log record
- Ready error and operation indicators
- Automation system integration
- Communication options with different databases
- 10 years spare parts & service guarantee
- ISO and CE certificated



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Brand/Model	FiberLAST/FLAST-NanoMARK
Laser Tyne	Vh (Vtterhium) Fiher Laser

Coperation Mode

Yb (Ytterbium) Fiber Laser

Pulsed

Wavelength 1064±2 nm

Average Power 100W Laser Architecture MOPA

 Repetition Rate
 100-250 kHz
 80-120 kHz

 Pulse Energy
 1 mJ
 1,25 mJ

 Pulse Length
 50-250 ns
 100 ns

Power Stability \leq %2 Polarization Random

Laser Output Collimator with back reflection protection

Output Beam Diameter 7±1mm

Output Fiber Length 2m

Aiming Beam Integrated

GENERAL FEATURES

Dimensions (GxDxY mm) 375 x 550 x170 mm
Weight 20 kg
Cooling Air

Operating Temperature Range 10 - 40 2
Operating Voltage 177 - 264 VAC
Power Consumption 480 W

SCANHEAD SPECIFICATIONS

Lens (Standard
Recommended)F:163 mmMarking Area (1)120 x120 mmMarking Speed6000 mm /sec

Operating Temperature Range10-40°CRepetition≤22 μradPositioning Speed15 m/secondControl InterfaceXY2-100

Weight 1,9 kg

Item (1): It is the marking area of the F:163 mm lens offered as standard, and the marking area varies with different optional lenses

Z-Stage

Operable Distance 500 mm

Dimensions 150x211x722 mm (Manuel) or 150x211x753 mm (Motorized)

Weight 8,5 kg

A manual lift is offered as standard in the set, and a motorized lift is offered as an option.

MARKING SOFTWARE

OPTICAL PROPERTIES

Q-SW

Brand EZCAD or SAMLight (Optional)

OPTIONAL PRODUCTS









Laser Protective Cabinet

Divisor

Laser Safety Goggles

Fume Extraction Systems