

PRO-Series







Single Module CW Fiber Lasers

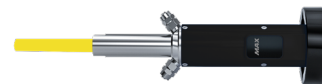
MFSC-2000 to 6000

Maxphotonics PRO-Series is the flagship of our current CW lasers offering integrated with our most advanced technology and our 18 years experience in laser cutting and welding. PRO-Series targets the most demanding markets, where top performance and highest reliability is needed. At the same time offering performance level D (PL-d) safety standard and various options for control interface to minimize our customer's switching cost.



Product Features

-  Top-shelf quality and performance
-  Multiple control interfaces – easy to be integrated
-  Performance Level D (PL-d) safety standard
-  ZERO power degrading for up to 3 years to protect your investment and productivity
-  Apply to major EU/US standards/certificates including CE, ETL, FDA. UL compatible
-  Lowest technical/engineering switching cost from your current laser source



Our new G5 fiber connector guarantees the best connection robustness and dust isolation. Greatly improved cooling performance and power stability during high reflective material processing

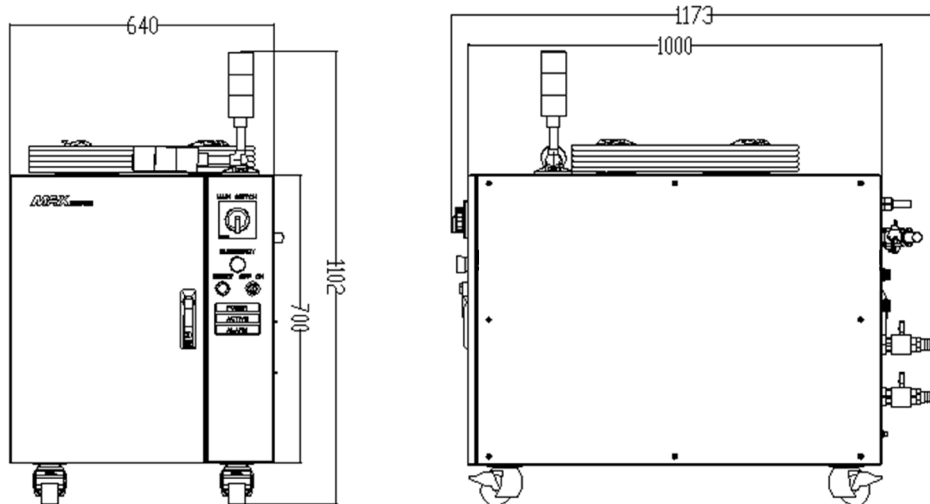
*Compatible with mainstream cutting heads

**Conventional QBH option also provided

MFSC-2000 to 6000 Fiber Laser Specifications

Models	MFSC-2000	MFSC-3000	MFSC-4000	MFSC-6000
OPTICAL SPECIFICATIONS				
Nominal Power	2 kW	3 kW	4 kW	6 kW
Mode of Operation	CW / Modulated			
Polarization	Random			
Power Redundancy	> 10 %			
Power Tunability	10 to 100 %			
Wavelength	1080 ± 10 nm			
Power Stability	± 1 %			
Laser Beam Quality, BPP	1.1 to 1.5 mm x mrad (@50µm Fiber Core)			2.8 to 3.6 mm x mrad (@100µm Fiber Core)
Modulation Frequency	≤ 5 KHz			
Preview Red Light Power	200 µW			
FIBER DELIVERY SYSTEM				
Interface	QBH (LOC)			
Length	20 m standard, other lengths optional			
Fiber Core Diameter	50 (100 / 200) µm			100 (150 / 200) µm
Bending Radius	min. 200 mm			
ELECTRICAL RATINGS				
Bus Control System	EtherCAT / Profinet / Profibus			
Safety Function	EN ISO 13849-1 / Performance Level D (PL-d)			
Supply Voltage	280-500 VAC 3-phase 50 / 60Hz			
OTHER SPECIFICATIONS				
Power Cable	14 m			
Signal cable	14 m			
Operating Temperature	+10 to +40 °C			
Storage Temperature	-10 to +60 °C			
Humidity	10 to 85 %			
Cooling Method	Water Cooling			
Cooling Medium	Distilled water/ Glycol Antifreeze			
Dimension	640 x 1000 x 700 mm ³			
Weight	200 (±5) kg	205 (±5) kg	210 (±5) kg	230 (±5) kg

Mechanical Specifications (mm)



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