

Quantel

Ylia M20EG

YTTERBIUM LASERS FOR INDUSTRIAL APPLICATIONS

The ideal fiber laser
for marking on highly
reflective metals



KEY FEATURES

- 20 W FIBER LASER
- HIGH PEAK POWER
- POWERFUL BACK REFLECTION PROTECTION
- PROVEN FIELD RELIABILITY
- WARRANTY ON HIGHLY REFLECTIVE MATERIALS
- ENHANCED BEAM QUALITY
- FAST + FEATURE : FAST SWITCH-OFF

MAIN APPLICATIONS

- DEEP ENGRAVING ON REFLECTIVE MATERIALS
- FINE MARKING
- HOLE DRILLING
- DIAMOND BRUTING

Ylia



Ylia M20EG by Quantel

A rugged and compact pulsed fiber laser intended for integration into industrial equipment. This laser delivers **20 W** average power via a long flexible fiber delivery and collimating optics.

Its high peak power pulses combined with an enhanced beam quality are ideal for **deep engraving and holes drilling applications on highly reflective materials such as gold and copper.**

With its enhanced optical design and isolation, the **Ylia M20EG** is insensitive to back reflection. The laser is delivered with a full warranty including marking on copper or highly reflective materials.

As part of Ylia M series, **Ylia M20EG** might be driven either by TTL signal (8 bit TTL for power setting, synchronization signal for repetition rate and activation signal to switch on/off the laser) or by its user-friendly USB software.



Typical specifications

MODEL	M20EG*
OPTICAL SPECIFICATIONS	
Wavelength [nm]	1064
Mean power [W]	20
Pulse Energy [mJ]	0.8
Pulse duration [ns]	80
Peak power [kW]	10 at 25 kHz
Repetition rate [kHz]	25 to 250
Switch on / off [μ s]	200 / 9
BEAM CHARACTERISTICS	
Beam quality	2.0
Beam diameter (99%) [mm]	8
Beam divergence (beam expander) [mrad]	< 1
FACILITY REQUIREMENTS	
Supply voltage [VDC]	24
Power consumption [W]	125
Cooling	Air cooled (heatsink and fans included)
Operating temperature [°C]	5 - 40
MECHANICAL DIMENSIONS	
Optical head dimensions [mm ³]	264.9x53x48
Laser box dimensions [mm ³]	285x210x95
Fiber delivery length [m]	3

* 9mm beam expander

OPTIONS

12 mm BEAM EXPANDER
RED AIMING BEAM



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