



JK™ Lasers

A GSI Group Company



Applications:

Cutting

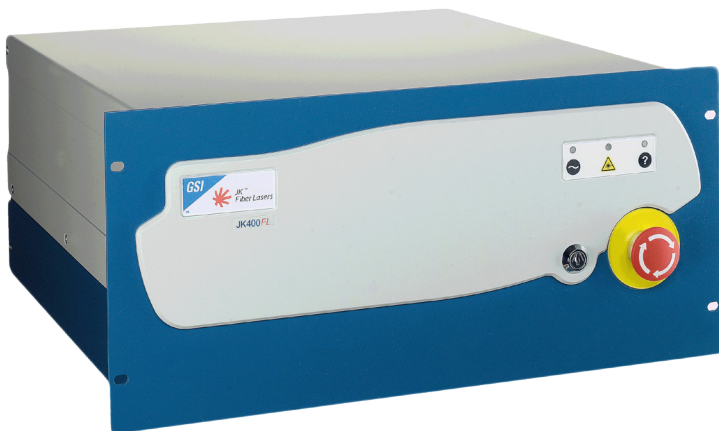
Welding

Micromachining

Fine Cutting

Selective Laser Sintering

Cladding



JK Fiber Lasers

*A range of ytterbium fiber lasers
for rack mounting*

Advantages

50W - 500W CW output power

TEM₀₀ M²<1.1, single mode fiber beam delivery

Range of cutting & welding heads

FiberView™ Software

Rapid modulation & pulse shaping

Patented back reflection protection

Small footprint

High reliability

Low maintenance

Welding | Cutting | Drilling

The JK™ fiber laser range offers a definitive solution for a variety of industrial manufacturing and precision applications. Taking advantage of 30 years experience, these lasers combine single-mode beam quality, high efficiency, patented processing technologies and a small footprint.

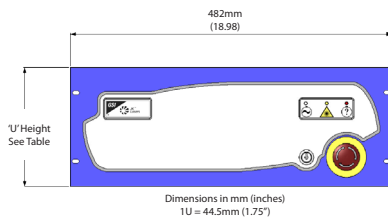
Product Code Selection Guide

Model	1 a, b, c	2 a, b, c
JK200FL	EVW	5RWE

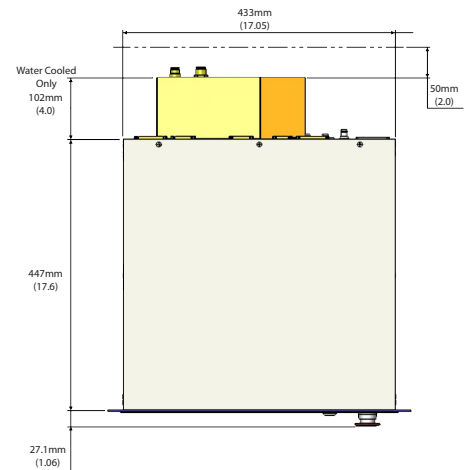
- 1 a) Package : B Basic (indicators only)
 E Extended (E-stop and Keyswitch)
 b) Options : V Visible Pointing Diode
 T Flat-Top Beam Profile
 c) Cooling : A Air
 W Water
 2 a) Fiber length : 2 2 meters
 5 5 meters (Standard)
 10 10 meters
 b) Conduit type : R Rugged
 F Flexible
 c) O/P Optic : W Window
 or Collimation lens focal length
 25 25mm for 3.5mm 1/e² beam diameter
 35 35mm for 5mm diameter



Model	JK50FL	JK100FL	JK200FL	JK300FL	JK400FL	JK500FL
Performance Data						
Average Output Power (W)	50	100	200	300	400	500
Operating Modes	CW and Modulated					
Output power range	20 - 100%	10 - 100%				
Long term Output power stability ⁽¹⁾	+/- 1.5% typical (+/- 3% specified)					
Wavelength (nm)	1080 +/- 10					
Linewidth (nm)	<2					
Polarisation	Un-Polarised					
Modulation Capability	Unlimited Pulse Shapes, Ramping, Process Cycle					
Min. Rise / Fall Time (µs)	5					
Max. Modulation Frequency (kHz)	50					
Fiber Optic Beam Delivery						
Output Fiber Type	Single Mode					
Beam Quality	TEM ₀₀ M ² <1.1			TEM ₀₀ M ² <1.3		
Electrical						
Electrical Supply (V ac / Hz)	100 - 240±10% / 47 - 63			200 - 240±10% / 47 - 63		
Power consumption(W) ⁽²⁾	250	400	800	1200	1600	2000
Physical						
Height - Air cooled	6U	6U	6U	7U	-	-
Height - Water Cooled	4U	4U	4U	5U	5U	5U
Environment / Cooling						
Ambient Temperature - Air Cooled (°C)	5 - 35	5 - 30	5 - 25	-	-	-
Water Temperature (°C) ⁽³⁾	18 - 28				20 - 28	
Max. Water Pressure (Bar)	6					
Max. Relative Humidity ⁽³⁾	85% (20°C), 50% (40°C)					
Interface						
Standard Interfaces	Serial - RS232, Parallel - Machine Interface					



- (1) Temperature in stated range, constant to +/-2°C for JK500FL
 (2) Water cooled. Add 30W for air cooled version
 (3) Non-Condensing



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