



**JK™ Lasers**

A GSI Group Company



### **Applications:**

High Speed Cutting

Thick Section Welding

Cladding



# **Kilowatt Class Fiber Lasers**

*A range of high power  
ytterbium fiber lasers*

### **Advantages**

Multi-kilowatt CW output power

Low order mode fiber beam delivery

Patented back reflection protection

Multiple fiber delivery options

Range of cutting & welding heads

FiberView™ Software

Rapid modulation & pulse shaping

High reliability

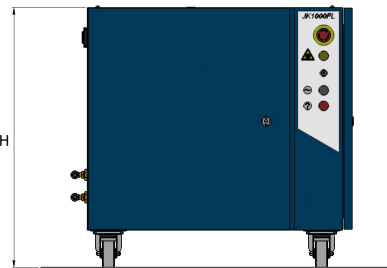
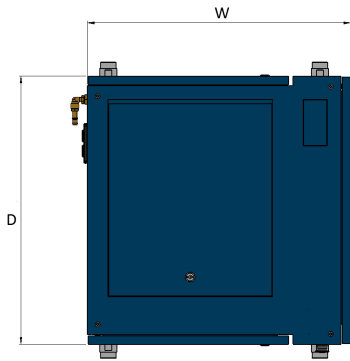
Low maintenance

Small footprint

**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 excellent beam quality, high efficiency, patented processing technologies and a small footprint.



Model	JK1000FL	JK2000FL
<b>Performance Data</b>		
Output Power	1000W	2000W
Operating Modes	CW and Modulated	
Output Power Range	10 - 100% of specified power	
Output Power Stability	± 2%	
Wavelength	1080nm	
Polarisation	Unpolarised	
Modulation Capability	Unlimited Pulse Shapes, Ramping, Process Cycles	
Min. Rise / Fall Time	15 µs	
Max. Modulation Frequency	10 kHz	
<b>Fiber Optic Beam Delivery</b>		
Fiber Core Diameter Options	100 - 300 µm	
Beam Parameter Product	5 - 15 mm.mrad (depending on fiber core diameter)	
Integral Beam Share Option	Up to 4 way Energy share or Time share	
<b>General</b>		
Dimensions (WxDxH)	770 x 780 x 750 mm	770 x 780 x 970mm
<b>Electrical</b>		
Electrical Supply	200 - 240 V AC ± 10%, 50 - 60 Hz, Single Phase	200 - 240 V AC ± 10%, 50 - 60 Hz, 3Ph + N
<b>Environment / Cooling</b>		
Ambient Temperature <sup>(2)</sup>	5 - 50 °C	
Water Temperature <sup>(1)</sup>	15 - 20 °C	
Max. Water Pressure	6 Bar	
Max. Relative Humidity <sup>(2)</sup>	85% (20°C), 40% (35°C)	
<b>Interface</b>		
Standard Interfaces	Serial - Ethernet, RS232. Parallel - Machine Interface	

(1) Non-condensing, without air conditioning option

(2) Air conditioning unit option necessary if local dewpoint above 20°C

#### Product Code Selection Guide

Model	1	2 a, b, c
JK1000FL	2WTS	VAE

1	Fiber Launch Options	1W 2WTS 3WTS 4WTS 2WES 3WES 4WES	Single output fibre 2 way time share 3 way time share 4 way time share 2 way energy share 3 way energy share 4 way energy share
2	Ancillary Options	V A E	Visible Pointing Diode Air Conditioning Unit Language: English

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