



redPOWER OEM®

Multi kW Laser

Providing exceptional levels of power and control for industrial applications.
CW/ OEM Fiber Laser



Key benefits and features

Our Fiber Laser range offers a definitive solution for a variety of industrial manufacturing and precision applications, combining excellent beam quality, high efficiency and small footprint.

Full Feature List

- 2kW or 3kW output power
- Low order mode fiber beam delivery
- Patented back reflection protection
- Four different output fiber options
- High frequency modulation
- Integral pulse shaping capability
- FiberView™ Software
- Range of beam delivery options
- Small footprint
- High reliability
- Low maintenance

Optimised for...

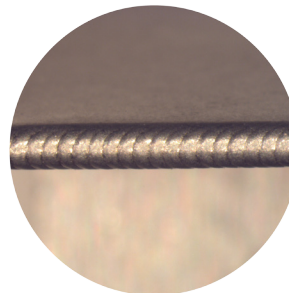
- High throughput industrial laser processing.
- Ease of integration onto production lines, welding & cutting systems.
- Flexible control of welding operations through integrated temporal pulse shape generator.
- Multiple workstation servicing via integral beam sharing options (by time or energy).



Welding
304 Stainless Steel



Cutting
Brass, Stainless Steel,
Copper, Aluminium



Welding
Stainless Steel

Benefits

- Back Reflection Protection
- Lower Energy Bills
- High Reliability
- Small Footprint
- Low Maintenance

Applications

- High Speed Cutting
- Thick Section Welding
- Cladding
- Flat Sheet Cutting

Key Features

- 2kW or 3kW
- Range of Delivery Fiber Options
- 15kHz Modulation Rate
- Integral Pulse Shaping
- Easy Control Integration

Industries

- General Fabrication
- Automotive
- White Goods Manufacture

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Go to spilasers.com/products for information on accessories, extended warranties and longer beam delivery optic lengths.

Product selection parameters

Model	2000W		3000W		
Performance Data					
Average Output Power (W)	2000W		3000W		
Operating Modes	CW and Modulated				
Output Power Range	10 -100% of specified power				
Long Term Power stability ⁽¹⁾	+/- 1% Typical (+/-2% Specified)				
Wavelength(nm)	1070nm				
Polarisation	Un-Polarised				
Modulation Capability	Unlimited Pulse Shaping, Ramping & Process Cycles				
Min. Rise / Fall Time (µs)	10				
Max. Modulation Frequency (kHz)	15				
Fiber Optic Beam Delivery					
Delivery Fiber Configuration	Fixed		Detachable		
Fiber Core Diameter	50µm	100µm	100µm	200µm	200µm
Beam Parameter Product BPP(mm.mrad) ⁽²⁾	2	3	5	10	15
General					
Dimensions (WxDxH)	770x780x790mm		770x780x970mm		
Electrical					
Electrical Supply	380-415V AC ± 10% 50-60 Hz, 3Ph + N				
Environment / Cooling					
Ambient Temperature (°C)	5 – 50°C				
Max. Relative Humidity ⁽³⁾	85% (20°), 40% (35°C)				
Minimum Differential Pressure	3 bar (30 psi)				
Maximum Absolute Pressure	6 bar (90 psi)				
Inlet Temperature (°C) ⁽⁴⁾	15	20	15	20	
Minimum Flow Rate (l/min)	10	22	14	32	
Cooling Capacity	6000W		9000W		
Interface					
Standard Interfaces	Serial – RS232, Ethernet Parallel – Machine Interface				

Notes

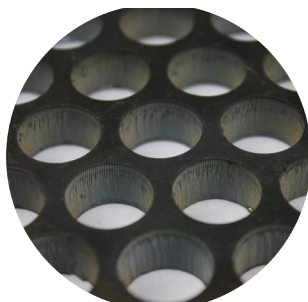
1. Constant temperature
2. Beam Parameter Product = beam radius x half angle divergence
3. Non-condensing, without air conditioning option
4. Air conditioning unit option necessary if local dewpoint above 20°C

Terms and conditions
Some specific combinations of product specifications and optional accessory may not be available. These Lasers are designed as products for incorporation or integration into other equipment. All product information is believed to be accurate and subject to change without notice. A complete product specification will be issued on request and also at time of order acknowledgement. The user assumes all risks and liability whatsoever in connection with the use of the product or its application.

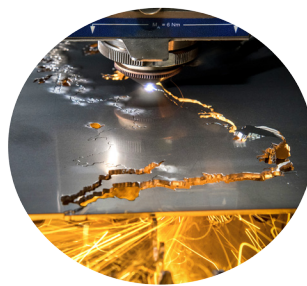
Applications



Cutting
Aluminium, Mild Steel,
Brass, Copper &
Stainless Steel



Cutting
Mild Steel



Cutting
Stainless Steel



Thick Metal Cutting
Mild Steel

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