



Leading Brand of High-End Fiber Lasers in China



Han's Photonics Laser Technology Co., LTD.

Sales Hotline: 400-666-4000

"WeldRealm" Series Lasers

Ring Spot Continuous - Wave Fiber Laser

Featuring a dual-spot design of "central deep penetration + outer ring preheating", with independently adjustable power for inner and outer rings. Optional waveform editing function available. A revolutionary solution for welding highly reflective materials.

Product Features

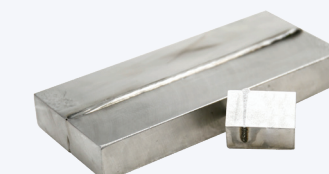
- ◆ Excellent beam quality;
- ◆ Compact structural design;
- ◆ Electro-optical conversion efficiency up to 40%;
- ◆ Strong back-reflection resistance; fearless of highly reflective material processing;
- ◆ High reliability and long service life; maintenance-free operation.

Application Fields

Power battery busbar welding, electric drive system copper welding, multi-layer tab welding, 3C electronics highly reflective material welding.



Samples



Model		Single Mode HSW-2000/2000	Single Mode HLW-2000/2000	Single Mode HLW-3000/3000	Single Mode HLW-2000/4000	Multi-Mode HLW-4000/2000	Multi-Mode HLW-5000/3000	Multi-Mode HLW-6000/6000
Rated Output Power	W	Core≥2000 Outer Ring≥2000	Core≥2000 Outer Ring≥2000	Core≥3000 Outer Ring≥3000	Core≥2000 Outer Ring≥4000	Core≥4000 Outer Ring≥2000	Core≥5000 Outer Ring≥3000	Core≥6000 Outer Ring≥6000
Center Wavelength	nm	1080±5						
3dB Bandwidth	nm	5±1						
Power Adjustment Range	%	10-100						
Power Stability	%	±1.5						
Max. Modulation Frequency	kHz	5						
Operating Mode		Continuous / Modulated						
Polarization Mode		Random						
Fiber Core Diameter	μm	14/100	14/100	20/100	14/100	50/150（Customizable）		
Output Fiber Length	m	10	10	8	10	20		
Output Connector		QBH						HPC/HBC/Q
Beam Quality		Core m²≤1.3 Outer Ring BPP≤4.5		Core m²≤1.4 Outer Ring BPP≤4.5	Core m²≤1.3 Outer Ring BPP≤4.5	Core BPP≤1.9 Outer Ring BPP≤7		
Operating Voltage	VAC	380						
Control Mode		IO/Profinet/EtherCat						
Dimensions (W×D×H)	mm	175*485*1010	540*850*1142				540*850*1215	
Weight	kg	≤170	≤220					≤270
Cooling Method		Water Cooled						