

iFOA SERIES LASER CLEANING MACHINE

***Where Light Reaches,
a Smarter, Cleaner Future Begins***



LIGHTWEIGHT DESIGN

Weight: 30 kg, Torch: 0.9 kg



INTEGRATED MAINFRAME STRUCTURE

Sealed Enclosure, Dust-Proof and High-Temperature Resistant.
IP54 Protection for Safe and Reliable Operation.



SUPPORTS MULTIPLE CLEANING MODES

Built-in 48 Sets of Process Parameters



SUPPORTS MULTI-LEVEL FUNCTIONAL EXPANSION

Supports Integration with Automated Production Lines,
Robotic Systems, Lifting Platforms, and Other Automation Scenarios.



MODULAR DESIGN

Simple and Convenient Maintenance



STRION

PARAMETER

Model	iFOA-EU50	iFOA-EU10	iFOA-EU5	iFOA-EU50Plus	iFOA-EU10Plus	iFOA-EU5Plus
Laser type	MOPA Pulsed Fiber Laser			MOPA Pulsed Fiber Laser		
Voltage	Single-phase 220V ±10%, 50/60Hz AC			Single-phase 220V ±10%, 50/60Hz AC		
PowerConsumption	≤1500W			≤2000W		
Operating Ambient Temperature	0~40℃					
Operating Ambient Humidity	≤80%					
Average Power	≥300W			≥500W		
Power Instability	< 5%					
Pulse Width	13-500ns			30-500ns		
Energy Density (254mm field reference value)	50J/cm²	10J/cm²	5J/cm²	80J/cm²	30J/cm²	12J/cm²
Maximum Pulse Energy	2mJ	5mJ	15mJ	2mJ	5mJ	15mJ
Power Adjustment Range	0~100%					
Pulse Frequency Range	1-3000kHz			1-4000kHz		
Cable Length	5 meters (Customizable 30 meters)					
Laser Wavelength	1064nm					
Host Cooling System	Air-cooling					
Dimension	580×262×552mm			580×262×552mm		
Weight	~30kg					
Operating Mode	Handheld / Automated (Platform or Robotic Arm)					
Handheld torch Weight	~960g(Air-cooling)			~1.25kg(Water-cooling)		
Scanning Width	140mm					
Scanning Speed	10000mm/s					
F-Theta Lens Focal Length	F=254mm (Optional: F=160mm、F=330mm)					

APPLICATIONS

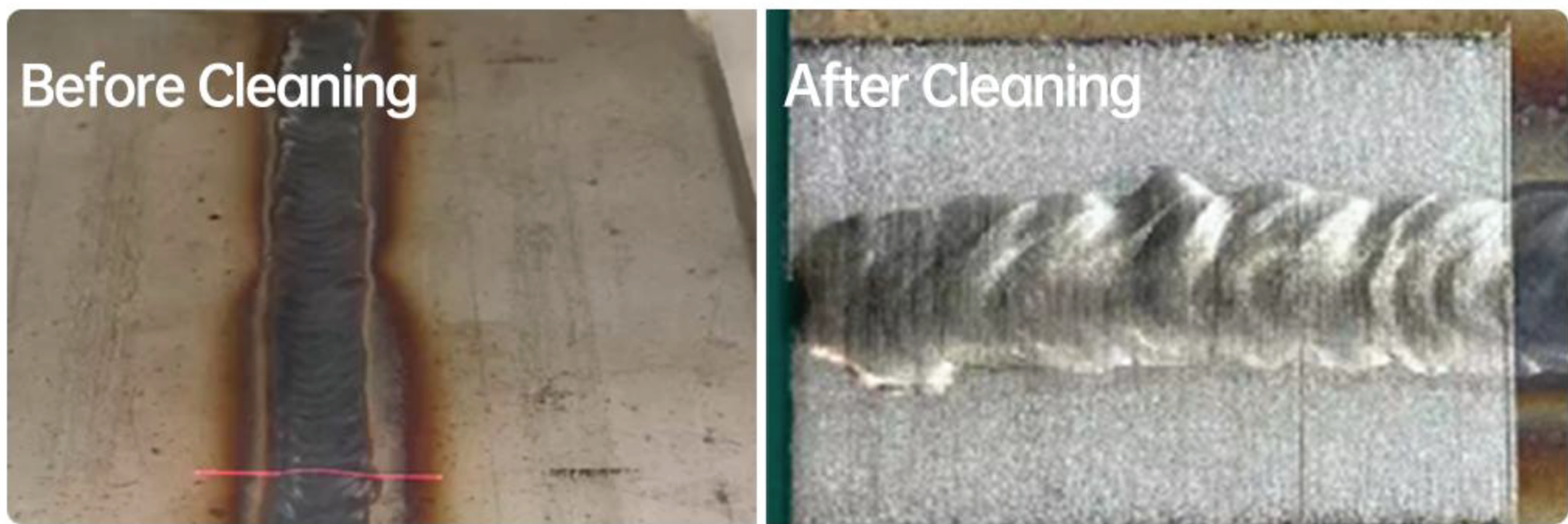
Saw Blade Weld Oxide Removal



Wheel Axle Cleaning



Stainless Steel Weld Seam Cleaning



Insulated Cup Paint Removal



Aluminum Alloy Oxide Film Cleaning



Aircraft Skin Coating Cleaning



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