

SMOOTH WELD

4 in 1

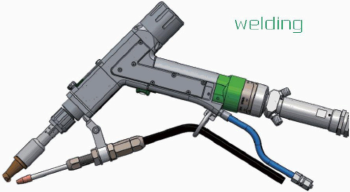
Handheld Laser Welding Machine

Welding / Cleaning / Cutting / Weld cleaning

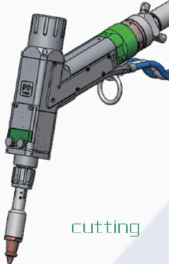


Products Description Do you have **headaches** because of the following problems?


1.Need to weld metal but **suffer from surface** rust ,paint and oil dirt 2.Chemical cleaning **damage to raw materials**, manual grinding can't clean well 3.Independent laser cleaning machines are **expensive** and less used.... Same price as laser welding machine we have brand new VLF series



welding



cutting



weld seam cleaning



remote cleaning



HMI

Main Menu

Laser Power	300W	Pattern	-----
Laser Freq	1000Hz	Welding Freq	1000Hz
PWD	100%	Welding Size	2.0mm

Laser: ☐ Laser Manual: ☐ Process No.: 1

Non Freezing: ☐ Switch Off: ☐ Safety Lock: ☐




Setting

Laser Mode	Auto	Gas Power	Auto	Alarm	Auto
Gas Entry	Auto	Gas Power	Auto	Request	Auto
Power Offset	Auto				

Max Power: 200W

Alarm Signal: PWR

Switched Control: ☐



Setting

Wobble: ☐

Pattern: ☐

Wobble Size: 2.0mm

Wobble Freq: 1000Hz

Z-Offset: 0.0mm

X-Magn: 1.00



Monitoring

Laser	ON
Chiller	ON
Laser Power	300W
Laser Freq	1000Hz
PWD	100%
Welding Size	2.0mm
Welding Freq	1000Hz

SMOOTH WELD

Fast switching

One machine with multiple functions

For workshop

One machine can do all the work, saving space and cost.

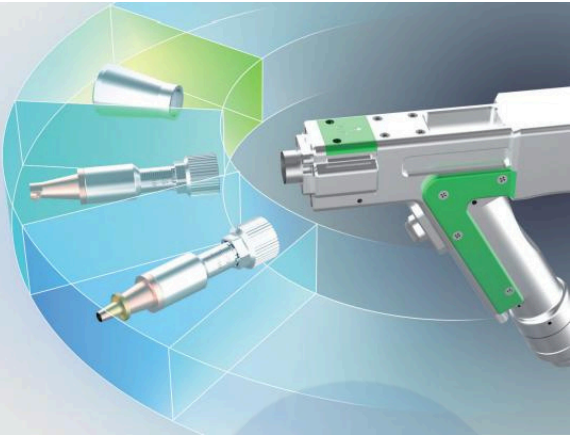
cutting machine + welding machine + cleaning machine = SMART-HWE

For large production factory



● cutting ● welding ● cleaning

Modify the capacity allocation at any time, and there are no more idle machines



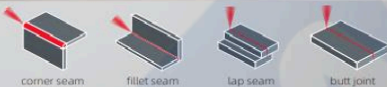
Laser Welding



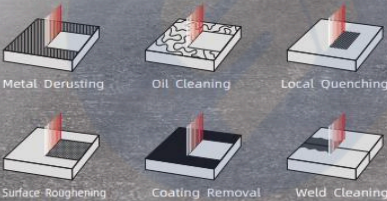
Simple and clear operation interface, easy to master and easy to adjust

Wobble welding heads

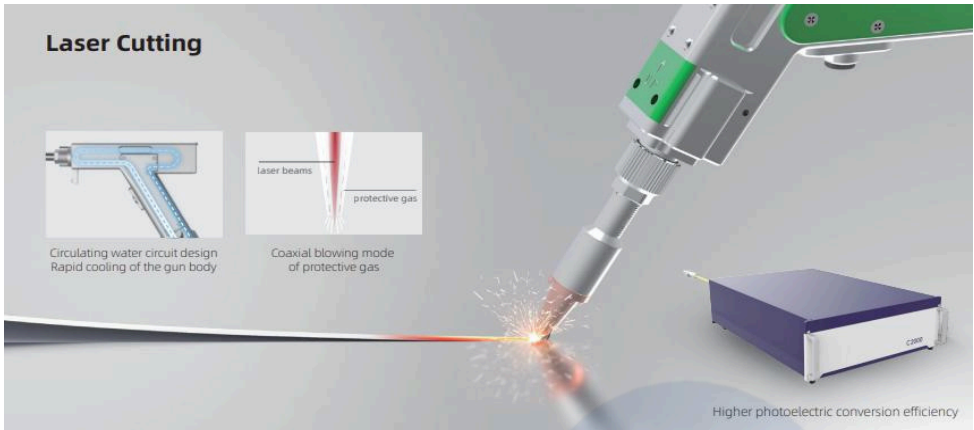
Built-in high-speed servo motor



Laser Cleaning



0~50mm



SMOOTH WELD



Product Parameters:

Model	VFC	LaserPower	1500W/2000W/3000W
Range of Adjustable Power	1-100%	LaserWavelength	1064nm
FiberLength	Standard10m,maximum support20m	WayofWorking	Continuous/Modulation
SpeedRange	0-120mm/s	RepeatPrecision	±0.01mm
Welding Gap Requirements	≤0.5mm	CoolingWater	Industrialthermostatic watertank
WorkingTemperature	15-35°C	WorkingHumidity	<70%nocondensation
Voltage	220V/380V	FocalSpot Diameter	0.2-2mm
WeldingDepth	0.1-10mm	PulseFrequency	0.1-100Hz

Welding ability thickness :

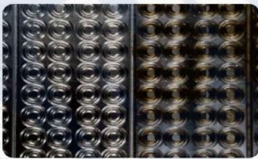
No.	Material	Max welding dept			
		1kw	1.5kw	2kw	3kw
1	Stainless Steel	≤2mm	≤3mm	≤5mm	≤7mm
2	Mild steel/Iron	≤3mm	≤4mm	≤6mm	≤8mm
3	Aluminum/brass	≤2mm	≤3mm	≤4mm	≤6mm
4-in-1 machine. One machine can do weld/clean/cut/weld cleaning					



SAMPLE



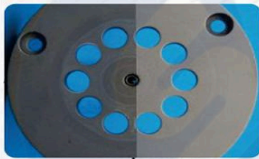
Mold cleaning



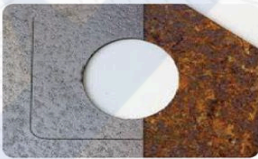
Sealing ring mold cleaning



Tire mold cleaning



Optical Fixture Cleaning



Laser rust removal



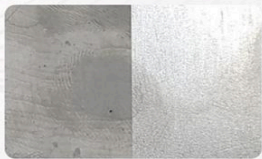
food container cleaning



Laser degreasing



Insulation cup paint removal



Titanium alloy cleaning

SMOOTH WELD

