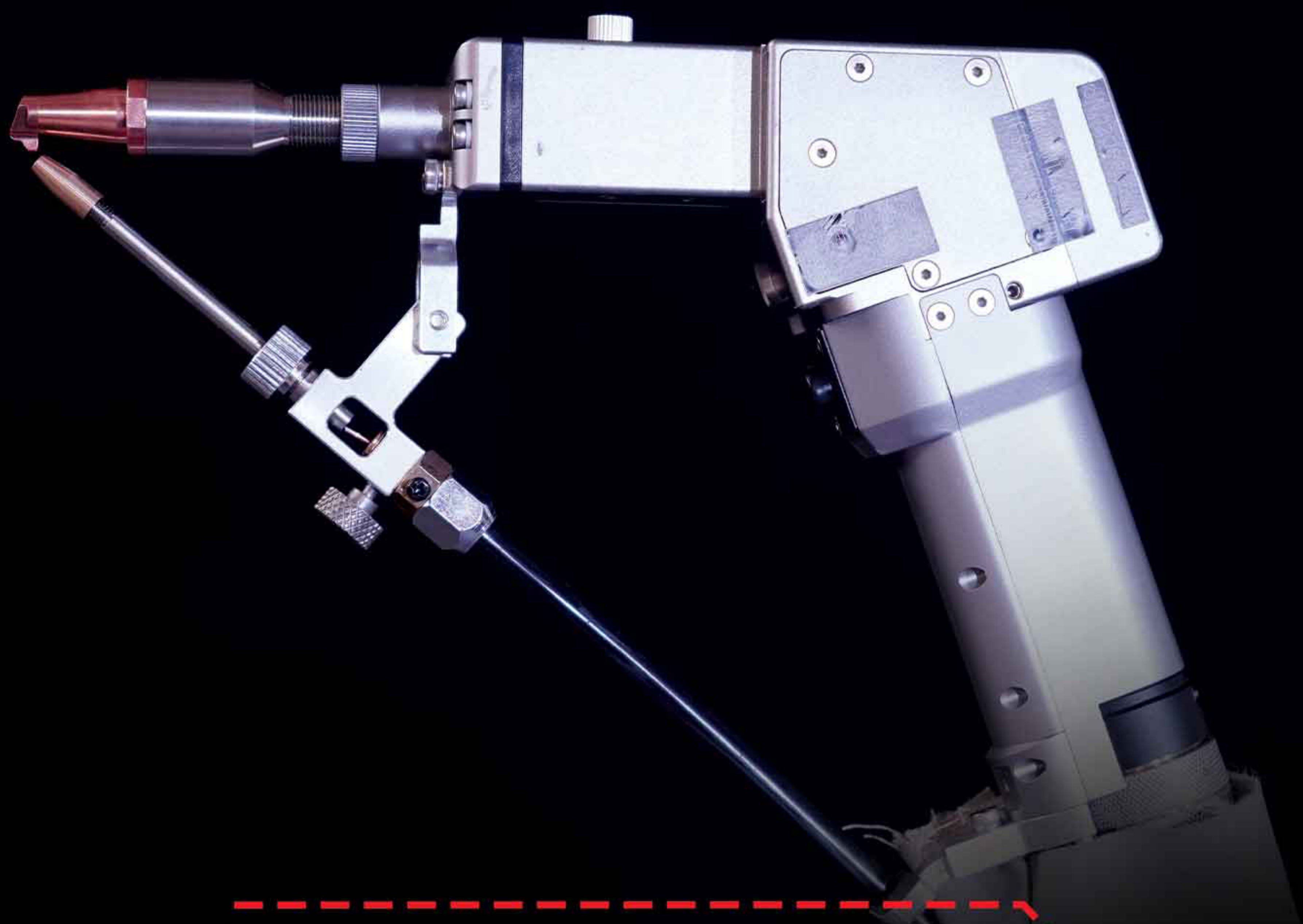


Handheld FIBER LASER WELDING MACHINE



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NSPV
3 models Handheld
FIBER LASER WELDING MACHINE
VHLW 1000 | VHLW 1500 | VHLW 2000



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Features of the device:

- Deep and narrow welds without the need for finishing
- High speed and accuracy during the welding process
- Ability to weld two metals without the use of filler materials
- Welding of different metal types to each other
- such as welding stainless steel to copper
- Welding of all metals, including aluminum, iron, stainless steel, galvanized steel, titanium, etc...without deformation due to heat
- High strength of the weld equal to that of the base metal
- Simple operation and easy to learn
- Welding of thin sheets (...25mm and above)

Applications:

Electronics industry, Pharmaceutical industry, Healthcare industry, Medical equipment industry, Food industry, Packaging industry, Automotive industry, Home appliance industry, Battery manufacturing, Paint and printing industry, Petrochemical and refinery industry, Pneumatic components

technical specifications of the machine:



Model	VHLW-1000	VHLW-1500	VHLW-2000
laser power	1000W	1500W	2000W
laser wavelength	Fiber laser 1080 nm		
beam quality	*M2 less than 1.3		
laser output type	continuous		
pulse frequency	1-50000 Hz		
power adjustment capability	0 to 100%		
spot diameter	0.2-5 mm		
average welding speed	0-120 mm/s		
weld location adjustment	equipped with a red light indicator		
cable length	10 meters		
cooling system	water-cooled chiller		
welding gun	**dual-motor welding gun (with wobble) brand QILIN		
wire feed system	automatic wire feed		
machine dimensions	1190*1100*650		
machine weight	220Kg		

*customization with multimode laser **customization with single-motor welding gun

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Weld depth and laser power

1000W	weld depth specifications and laser power	
metal material	metal thickness	weld penetration depth
steel	≤2.5 mm	≤4 mm
iron	≤2.5 mm	≤4 mm
galvanized	≤2 mm	≤3 mm
aluminum/brass	≤1 mm	≤2 mm

1500W	weld depth specifications and laser power	
metal material	metal thickness	weld penetration depth
steel	≤6 mm	≤3.5 mm
iron	≤6 mm	≤3.5 mm
galvanized	≤5 mm	≤3 mm
aluminum/brass	≤4 mm	≤2 mm

2000W	weld depth specifications and laser power	
metal material	metal thickness	weld penetration depth
steel	≤8 mm	≤5 mm
iron	≤8 mm	≤5 mm
galvanized	≤7 mm	≤4 mm
aluminum/brass	≤6 mm	≤3 mm