

# Cost-effective Models (Laser Welding Machines)

## Handheld Welding

Laser power: 1.2-3kW

Workpiece thickness:  $\leq 5\text{mm}$

- ✓ The smallest in size, total footprint: 0.2-0.6m<sup>2</sup>
- ✓ Balance welding, cleaning and cutting well
- ✓ Very light welding gun ( $\leq 0.7\text{kg}$ ), for easier welding by hands
- ✓ Air/water cooling available at high efficiency
- ✓ Ideally fit to weld super-thin sheet ( $\leq 5\text{mm}$ )



Model	S Series	HW Series
Laser Power (kW)	1.2-1.5	1.5-3
Laser Wavelength (nm)	1080±10	1080±5
Thickness of Welding Sheet (mm)	$\leq 4-5\text{mm}$	$\leq 4-5\text{mm}$
Diameter of Filler Wire (mm)	0.8-1.6	0.8-1.6
Weight of welding gun (kg)	$\leq 0.7$	$\leq 0.7$
Length of Welding Gun Line (m)	10	10
Foreign Languages	Chinese, English, Korean, Russian, Japanese, German, French, etc.	Chinese, English, Korean, Russian, Japanese, etc.
Net Weight of Machine (kg)	45-50	150-200
Overall Dimensions (L*W*H, mm)	670*335*590	865*690*920

# Professional-grade Models (Laser Welding Machines)

## 4-in-1 Functions

Laser power: 1.5-3kW

Workpiece thickness:  $\leq 6\text{mm}$

- ✓ Handheld welding by using very light welding gun ( $\leq 0.7\text{kg}$ )
- ✓ Balance welding, cutting, cleaning and weld seam cleaning well
- ✓ Single-/double-wire feeder used to make wire feeding automatic and welding stable
- ✓ Nearly 10 kinds of welding modes, like butt, overlap, stitch, stud, T-joint, internal and external welding
- ✓ Apply to most metals, incl. carbon, stainless steel, AL alloy, galvanized sheet, cold-rolled sheet and titanium alloy



Model	1500HWM	2000HWM	3000HWM
Laser Power (kW)	1.5	2	3
Laser Wavelength (nm)	1080 $\pm$ 10	1080 $\pm$ 10	1080 $\pm$ 10
Thickness of Welding Sheet (mm)	$\leq 3\text{mm}$	$\leq 4\text{mm}$	$\leq 6\text{mm}$
Diameter of Filler Wire (mm)	0.8-1.6 (standard)	0.8-1.6 (standard)	0.8-1.6 (single-wire) 1.6 and 2 (double-wire)
Machine Cooling	Water cooling	Water cooling	Water cooling
Optical Fiber Length (m)	10	10	10
Net Weight of Machine (kg)	220	220	265
Overall Dimensions (L*W*H, mm)	954*715*1080	954*715*1080	1210*715*1200

# Automatic Welding Models (Laser Welding Machines)

## Robot-assisted Work

Laser power: 1.2-20kW

Workpiece thickness: 0.8-30mm

- ✓ 6-axis linkage robot, 360° welding, or switch to human-machine collaboration mode
- ✓ Take into account of traditional electric-arc welding and new-style laser welding
- ✓ Handle with both ultra-thin and thick sheet
- ✓ 3-in-1/4-in-1 functions: welding, cutting, cleaning and/or weld seam cleaning
- ✓ Get CE, FDA and many other international certifications



Model	CW Series	RW Series	HWR Series
Laser Power (kW)	1.2-1.5	1.5-6	20-30KVA
Laser Wavelength (nm)	1080±10	1080±10	/
Robot load (kg)	10	25	6-10
Coverage area of robot (mm)	1350	1853	1454-2012
Thickness of Welding Sheet (mm)	≤2	≤3-16	0.8-30
Diameter of Filler Wire (mm)	/	0.8-1.6	≤2
Weight of welding gun (kg)	/	≤2.2-8	/
Overall Dimensions (L*W*H, mm)	1500*1500*2100	3000*2500*2000	2500*2500*2000