

# Portable Air-Cooled Laser Welder

1500W

2000W



The JSY-HW-A series air-cooled laser welding independently developed and designed by JSY Laser is a small, lightweight welding equipment with a laser power as high as 2000W.

From the original water cooling to air cooling, the weight of the whole machine is directly reduced to about 40kg, making outdoor operations possible.

The equipment uses single-phase 220V power supply, which has a wider range of use scenarios. It is handheld and can be easily operated with no experience.

The air-cooled refrigeration can allow operators to work continuously for 10 hours, which is enough to cope with most usage situations.

## Application:



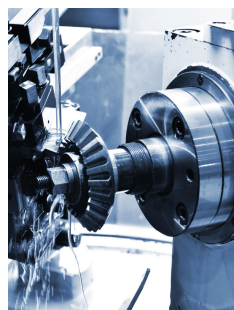
Elevator manufacturing



Metal processing



Household appliances



Machine made



Construction



Aerospace

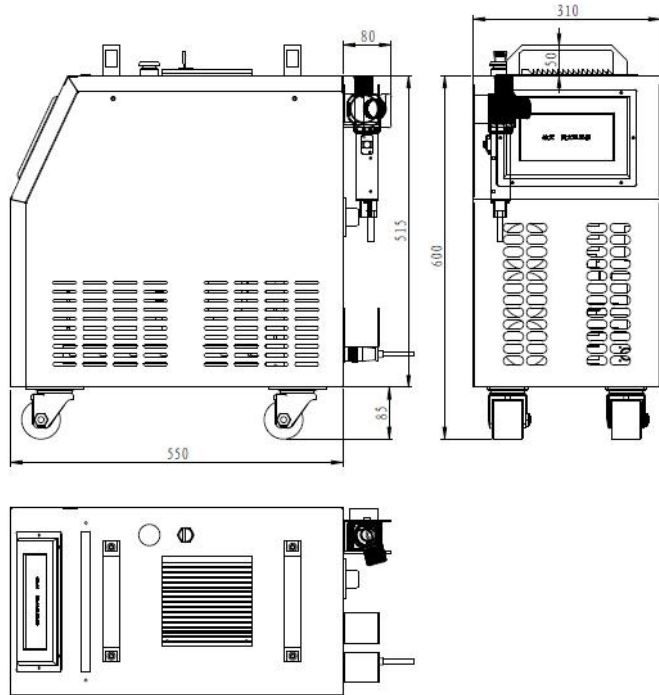


Car parts

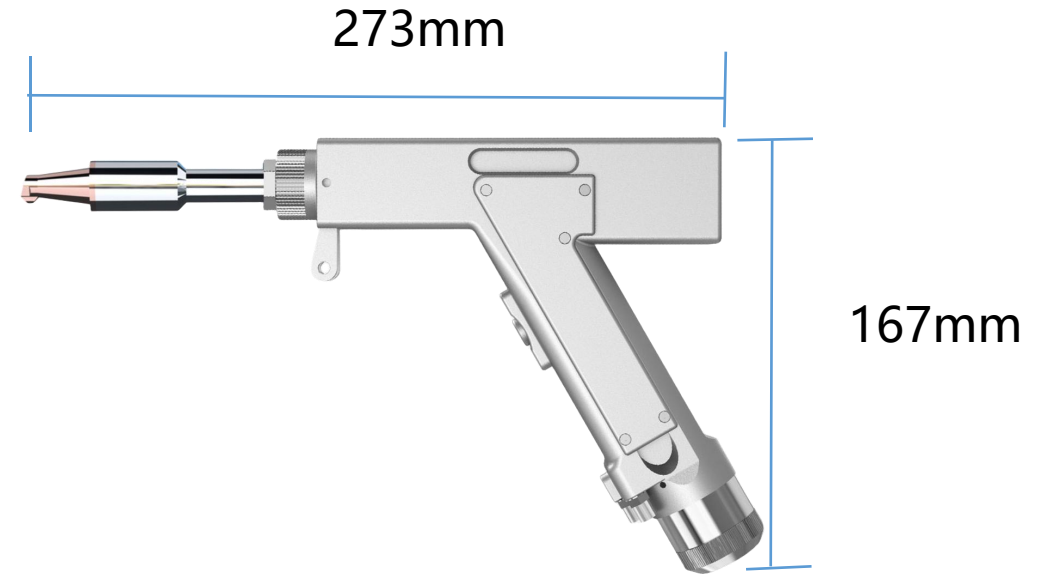
## Features and Advantages

- ⇒ The welding speed is 2-3 times faster than traditional welding speed. It can help you save at least two welders every year.
- ⇒ Laser welding consumes less material and has a long service life. It is easy to operate and does not require a welding license. Even novices can weld beautiful products.
- ⇒ The weld is smooth and beautiful, which reduces the subsequent grinding process and saves time and cost. No deformation, no weld marks, solid welding.
- ⇒ Safer and more environmentally friendly.
- ⇒ More convenient and compact, the weight of the whole machine does not exceed 40KG, and it is suitable for scenes where mobile welding needs to be carried on the vehicle.

# Dimension of Machine and Welding gun



Machine Size



Welding head

# Functional Details

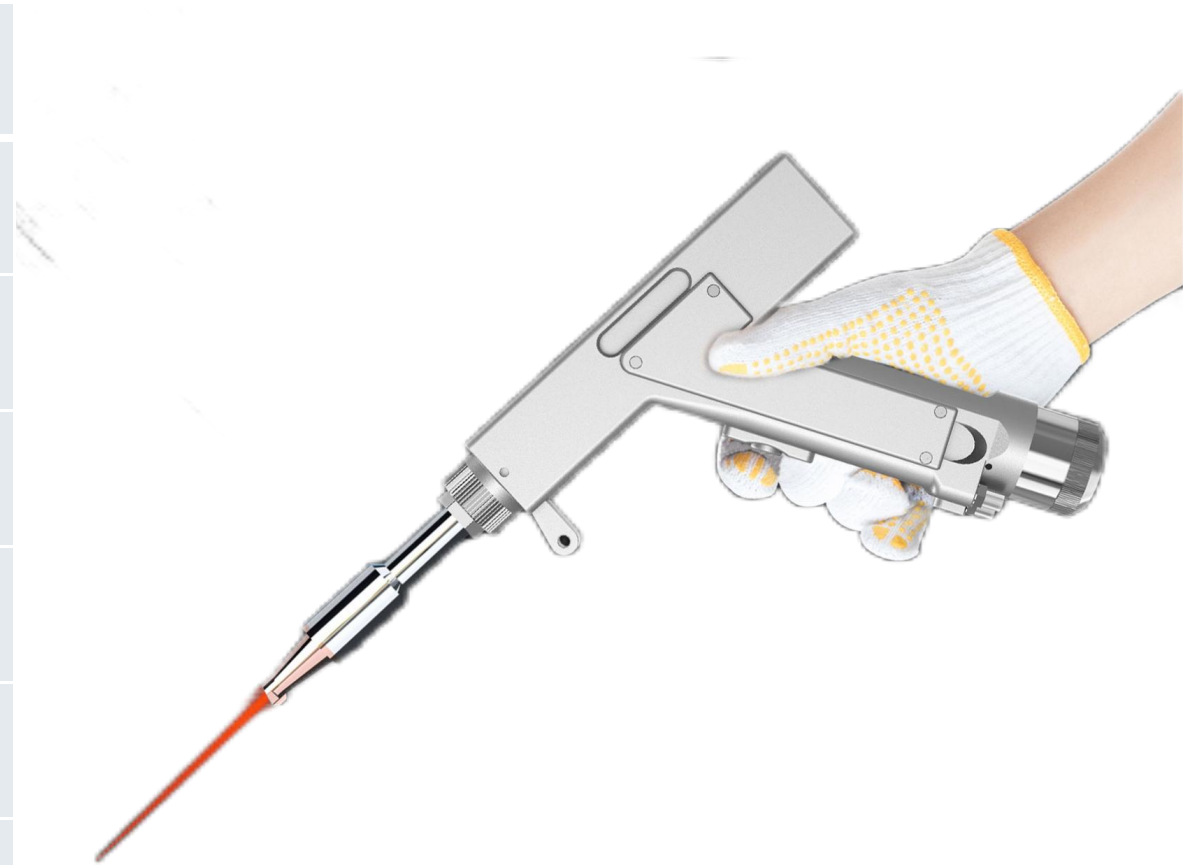


# Parameters of Machine

<b>Machine</b>	<b>Model</b>	<b>JSY-HW-A1500</b>	<b>JSY-HW-A2000</b>
	<b>Welding thickness</b>	≤3.5mm	≤5.0mm
	<b>Laser incident method</b>	Collimation	
	<b>Collimation focal length</b>	60mm	
	<b>Focus focal length</b>	150mm	
	<b>Gun head swing frequency</b>	2000 HZ	
	<b>Weld width</b>	0-5mm	
	<b>Power consumption</b>	4 kw/h	6 kw/h
<b>Laser source</b>	<b>Operating voltage</b>	220v±10% 50/60Hz	220v±10% 50/60Hz
	<b>Operating temperature</b>	0-40°C	
	<b>working environment humidity</b>	<70%	
	<b>Output core diameter</b>	30 -50um	50um
	<b>Indicates red light power</b>	150umW	
	<b>Working mode</b>	Continuous	
<b>Wire feeder</b>	<b>Wire speed</b>	25-600cm/min	
	<b>Automatic wire feeding</b>	Yes	
	<b>Wire feed compensation</b>	Yes	
	<b>Withdrawal distance</b>	Yes	
	<b>Delayed wire feeding</b>	Yes	

# Specification of Welding Gun

<b>Applicable power</b>	≤2000W
<b>Collimation focal length</b>	60mm
<b>Focus focal length</b>	150mm
<b>Maximum air pressure</b>	150 bar
<b>Vertical adjustment range</b>	±10mm
<b>Spot adjustment range</b>	Line 0-5mm
<b>Applicable wavelength</b>	1070nm
<b>Weight</b>	0.8kg



# Nozzles



Diameter: 17.8mm  
 Height: 38.7mm  
 Thread: M16  
 Wire feed: NO



Diameter: 17.8mm  
 Height: 35.6mm  
 Thread: M16  
 Wire feed: YES  
 Caliber: 1.2, 1.5, 2.0



Diameter: 17.8mm  
 Height: 34.8mm  
 Thread: M16  
 Wire feed: NO



Diameter: 17.8mm  
 Height: 34.8mm  
 Thread: M16  
 Wire feed: NO



Diameter: 17.8mm  
 Height: 34.8mm  
 Thread: M16  
 Wire feed: YES  
 Caliber: 1.0, 1.2, 1.6, 2.0



Diameter: 17.8mm  
 Height: 43.7mm  
 Thread: M16  
 Wire feed: YES  
 Caliber: 0.8, 1.0, 1.2, 1.6



Diameter: 17.8mm  
 Height: 38.4mm  
 Thread: M16  
 Wire feed: YES  
 Caliber: 1.0, 1.2, 1.6, 2.0

# Reference Parameters of Welding Depth

LASER POWER	WELDING MATERIALS	Stainless Steel	Carbon Steel	Galvanized Sheet	Aluminum	Brass	Copper
1500W	Single side penetration	3.5mm	3.5 mm	3.5mm	2mm	2mm	1mm
	Double side penetration	7mm	7mm	7mm	4mm	4mm	2mm
2000W	Single side penetration	5mm	5mm	5mm	4mm	4mm	2mm
	Double side penetration	10mm	10mm	10mm	8mm	8mm	4mm