

Parameter of air-cooled welding machine



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PACKING LIST



Machine body



Wire feeder



Laser source



1XD20*4. .5°F800
Cleaning Lens



U Disk(Manual)



4 in 1 Laser Welding Gun



1 X Protective glasses



1 X Protective Gloves



8Pcs Welding Nozzle



Steel Welding Wire



10Pcs D18*2 Protective lenses



4 Pcs Wire Nozzle



1XCable for Laser Source



1XPower Cable



Safe Clip



Wrench

Parameters

| Name | 1500W | 2000W |
|-------------------------------------|-------------------------|-------------------------|
| Laser power | 1500W | 2000W |
| Output power adjustment range(%) | 10-100 | 10-100 |
| Voltage | AC 200-240V | AC 200-240V |
| Power consumption(W) | ≤3500 | ≤4000 |
| Cooling methods | Air cooled | Air cooled |
| Output power fluctuation(%) | ≤2% | ≤2% |
| Fiber cable length | 10M | 10M |
| Laser gun model | SUP 28F | SUP 28F |
| Beam quality(M ²) | 1.2 | 1.2 |
| Working Environment temperature(°C) | -20°C - 45°C | -20°C - 45°C |
| Center wavelength(nm) | 1080±10 | 1080±10 |
| Welding protective gas | Nitrogen. Argon. Helium | Nitrogen. Argon. Helium |
| Focus lens | D20*4.5/F150 | D20*4.5/F150 |
| Reflex | 30x14xT2 | 30x14xT2 |
| Protection lens specifications | D18*T2 | D18*T2 |
| Alignment lens | D16*4.5/F60 | D16*4.5/F60 |
| Wire Feeder Model | SUP-AMF-C | SUP-AMF-C |
| Communication port | RS232 | RS232 |
| Applicable welding wire | 0.8/1.0/1.2/1.6mm | 0.8/1.0/1.2/1.6mm |
| Working environment humidity | <70% | <70% |
| Packing Size: | 67*41*61cm | 78*46*66cm |
| Packing Weight | 57.6KG | 61.8KG |

Welding Parameters

| Laser Welding Parameter (reference) | | | | | | | | |
|-------------------------------------|---------------|-----------------|---------------|--------------|------------|---------------|----------------------|--------------|
| Materials | Thickness /mm | Scan Speed mm/s | Scan width/mm | Peak power/W | Duty cycle | Frequency/ Hz | Wire feed speed cm/s | Welding wire |
| Carbon steel | 1 | 300 | 3 | 350 | 100 | 2000 | 60 | 1 |
| | 2 | 300 | 3 | 700 | 100 | 2000 | 60 | 1.2 |
| | 3 | 300 | 3 | 1100 | 100 | 2000 | 60 | 1.2 |
| | 4 | 300 | 3 | 1500 | 100 | 2000 | 60 | 1.6 |
| | 5 | 220 | 3 | 1800 | 100 | 2000 | 50 | 1.6 |
| | 6 | 220 | 3 | 2200 | 100 | 2000 | 50 | 1.6 |
| | 8 | 220 | 3 | 3000 | 100 | 2000 | 40 | 2 |
| Aluminum | 1 | 300 | 3 | 500 | 100 | 2000 | 60 | ER5356 1.0 |
| | 2 | 300 | 3 | 800 | 100 | 2000 | 60 | ER5356 1.2 |
| | 3 | 300 | 3 | 1400 | 100 | 2000 | 60 | ER5356 1.2 |
| | 4 | 300 | 3 | 1800 | 100 | 2000 | 60 | ER5356 1.6 |
| | 5 | 220 | 3 | 2000 | 100 | 2000 | 50 | ER5356 1.6 |
| Stainless steel | 0.5 | 300 | 3 | 260 | 100 | 2000 | 80 | ER304 0.8 |
| | 0.8 | 300 | 3 | 300 | 100 | 2000 | 80 | ER304 0.8 |
| | 1 | 300 | 3 | 350 | 100 | 2000 | 60 | ER304 1.0 |
| | 2 | 300 | 3 | 700 | 100 | 2000 | 60 | ER304 1.0 |
| | 3 | 300 | 3 | 1100 | 100 | 2000 | 60 | ER304 1.2 |
| | 4 | 300 | 3 | 1500 | 100 | 2000 | 60 | ER304 1.2 |
| | 5 | 220 | 3 | 1800 | 100 | 2000 | 50 | ER304 1.6 |
| | 6 | 220 | 3 | 2200 | 100 | 2000 | 50 | ER304 1.6 |
| | 8 | 220 | 3 | 3000 | 100 | 2000 | 40 | ER304 2.0 |

The following is laboratory data on welding and cutting, for reference only. Please refer to the actual situation for details

| Air cooled Laser | 1500W | 2000W |
|---|---------------------|--------------------|
| Welding thickness of carbon steel and stainless steel | 0.5-4mm (MAX 4.5mm) | 0.5-4.5mm(MAX 5mm) |
| Cutting thickness of Aluminum | 2.5mm (MAX 3mm) | 3mm (MAX 3.5mm) |