

Specification for Raycus laser welding machine



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| Parameter Specifications | | |
|------------------------------|---------------------------------|------------------------|
| | 1500W 4 IN 1 Welder | 2000W 4 IN 1 Welder |
| Machine | BWT Laser laser welding machine | |
| Laser Wavelength | 1070nm | |
| Laser power | 1500W | 2000W |
| Welding Gun Model | Sup 23T / Sup-28T | |
| Welding Gun Applicable range | ≤3000W | |
| Scan speed | 20000mm/s | |
| Protective lens | D18*T2 | D18*T2 |
| Welding lens | D20*4.5/F150 | D20*4.5/F150 |
| Cleaning lens | D20*4.5/F800 | D20*4.5/F800 |
| Collimating lens | D16*4.5/F60 | D16*4.5/F60 |
| Reflective lens | 30x14xT2 | 30x14xT2 |
| Weight of welding gun | 0.75kg | |
| Control system | Sup 28T control system | |
| Wire feeder | SUP Single Wire feeder | SUP Single Wire feeder |
| Power adjust range | 10%-100% | |
| Operating mode | Continuous/pulse | |
| Length of fibre optic | 10m(standard) | |
| Fiber-optic interface | QBH | |



| | | |
|--------------------------------------|-------------------------|-------------------------|
| Lifetime module | 100000hrs | |
| Cooling method | Water cooling | |
| Laser Energy Stability | <2% | |
| Red light positioning | Support | |
| Max Cleaning Width | 1-150mm | |
| Water Tank Capacity | 8L | |
| Voltage | 220V | |
| Max power | 4.5KW | 6KW |
| Max current | 27A | 34A |
| Max Welding thickness of Steel | 0.35-4mm (Max 4.5mm) | 0.35-5.5mm (Max 6mm) |
| Max Cutting thickness of Steel | 0-5mm (Max 8mm) | 0-6.5mm (Max 10mm) |
| Max Welding thickness of Aluminum | 3mm (Max 3.5mm) | 4mm (Max 4.5mm) |
| Max Cutting thickness of Aluminum | 0-2mm (Max 2.5mm) | 0-2.5mm (Max 3mm) |
| Machine weight | 85kg | 95kg |

Specification for SUP Single Wire Feeder



| Wire feeder model | SUP - AMF - A |
|--------------------------------|-------------------------------|
| Rated input | 220±5% 50/60Hz |
| Maximum power and current | 60W/2.5A |
| Rated wire feed speed | 15~600cm/min |
| Applicable welding wire | 0.8/1.0/1.2/1.6mm (Standard) |
| | Carbon steel solid core wire, |
| Suitable for welding wire disc | Shaft diameter: Min 50mm |
| | Outside diameter: Max 300mm |
| | Width: Max 105mm |
| | weight: < 20kg |
| Net weight of product | 13.2kg |
| Product size | 560mm*250mm*350mm |

Specification for SUP Dual Wire Feeder



| Wire feeder model | SUP - AMF - D |
|--------------------------------|-------------------------------|
| Rated input | 220±5% 50/60Hz |
| Maximum power and current | 144W |
| Rated wire feed speed | 15~600cm/min |
| Applicable welding wire | 0.8/1.0/1.2/1.6mm (Standard) |
| | Carbon steel solid core wire, |
| Suitable for welding wire disc | Shaft diameter: Min 50mm |
| | Outside diameter: Max 300mm |
| | Width: Max 105mm |
| | weight: < 20kg |
| Net weight of product | 25kg |
| Product size | 575mm*250mm*670mm |

Specification for SUP 23T Welding Gun



| SUP 23T Welding Gun | |
|---------------------------------------|-----------------------------------|
| Supply voltage (V) | 220V±10% AC 50/60Hz |
| Put the environment | Flat, with no vibration or impact |
| Working environment temperature: (°C) | 10 ~ 40°C |
| Working environment humidity: (%) | ≤70% |
| cooling-down method | hydrocooling |
| Applicable wavelengths (nm) | 1070nm (±10nm) |
| Applicable power (W) | ≤3000W |
| Collimator Specification (mm) | D16-F60 |
| Focus mirror size (mm) | D20-F150 |
| Protective mirror size (mm) | D18×T2 |
| Gun body air pressure (Bar) | ≤15Bar |
| Focus vertical adjustment range (mm) | ±10mm |
| Scan width-Welding (mm) | 0~8mm |
| Scan width-Wash (mm) | F150-0~30mm |
| | F400-0~60mm |
| | F800-0~120mm |
| Weight (kg) | 0.7kg |

Specification for SUP 28T Welding Gun



| SUP 28T Welding Gun | |
|---------------------------------------|-----------------------------------|
| Supply voltage (V) | 220V±10% AC 50/60Hz |
| Put the environment | Flat, with no vibration or impact |
| Working environment temperature: (°C) | 10 ~ 40°C |
| Working environment humidity: (%) | ≤70% |
| cooling-down method | hydrocooling |
| Applicable wavelengths (nm) | 1070nm (±10nm) |
| Applicable power (W) | ≤3000W |
| Collimator Specification (mm) | D16-F60 |
| Focus mirror size (mm) | D20-F150 |
| Protective mirror size (mm) | D18×T2 |
| Gun body air pressure (Bar) | ≤15Bar |
| Focus vertical adjustment range (mm) | ±10mm |
| Scan width-Welding (mm) | 0~8mm |
| Scan width-Wash (mm) | F150-0~30mm |
| | F400-0~60mm |
| | F800-0~120mm |
| Weight (kg) | 0.65kg |