

Specification for Raycus laser welding machine



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| Parameter Specification | | |
|---|---------------------------|---------------------------|
| Machine | 1500W 4in1 Laser Welder | 2000W 4in1 Laser Welder |
| Laser source brand | Raycus | |
| Welding Gun Model | Au3tech HW980 | |
| Rated output power: (W) | 1500 | 2000 |
| Center wavelength: (nm) : | 1080±5 | 1080±5 |
| Modulation frequency. (Hz): | 1-5000 | 1-5000 |
| Output power stability : | ±1.5% | ±1.5% |
| Red light indicates output power (mW) : | 0.5-1 | 0.5-1 |
| Output connector: | QBH | QBH |
| Beam quality BPP: | < 1.5 | < 1.5 |
| Half angle divergence angle (rad) : | < 0.06 | < 0.06 |
| Output cable length (m) : | 10 | 10 |
| Fiber core diameter (um) : | 50 | 50 |
| Working voltage (VAC): | 220V 50/60Hz Single Phase | 220V 50/60Hz Single Phase |
| Control method : | RS232/AD/Etherne | RS232/AD/Etherne |
| Range of rate adjustment (%) : | 10-100 | 10-100 |



| | | |
|-----------------------------------|---|---------------------|
| Cooling method : | Water Cooling | Water Cooling |
| Water Tank Capacity | 10L | |
| Cooling medium | Distilled/Deionized Water Add Antifreeze Below 0°C | |
| Working temperature (C) : | 10-40 | 10-40 |
| Operating mode | Continuous/pulse | |
| Laser wavelength | 1080nm | |
| Welding speed | 0-120mm/S | |
| Environmental Parameters | | |
| 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) |
| Welding Gap | 0~4mm(STD Single Wire Feeder) . > 4mm: Optional Dual Wire Feeder | |
| Rust Removal Width | 0-150mm | |
| Tot. Power | 5kw | 6kw |
| Max. Current | 22.5A | 27A |

Specification for Wire Feeder



| | |
|----------------------------------|--|
| Wire Feeder Model | MARS9000P |
| Power Supply Voltage | DC 24V |
| Power | 72W |
| Wire Feeding Speed Range | 1mm/S–55mm/S (Adjustable) (Upper limit can be increased as required) |
| Motor Type | DC 24V Stepper Motor, Reduction Ratio 8 |
| Speed Control Method | Digital Open-Loop Speed Regulation |
| Applicable Welding Wire Diameter | 0.8mm, 1.0mm, 1.2mm, 1.6mm, 2.0mm |
| Dimensions | 520 (L) × 245 (W) × 420 (H) mm |
| Weight | 13kg |

Specification for HW980 Welding Gun



| Welding Gun Model | HW980 |
|-------------------------|---------------------|
| Max Power | 3000W |
| Maximum Clear Aperture | 16mm |
| Laser Wavelength | 1064nm |
| Focus Lens | D20F150(D20F600 For |
| Collimator Lens | D20F150 |
| Cover Lens | D20T3 |
| Head Weight | 0.6kg(head only) |
| Max cleaning beam width | 120mm |
| Wobble Frequency | 0-200HZ |
| Fiber Sockets | QBH and Customized |