

Handweld“W”series

W15/W20/W30

Handheld laser welding machine

The handheld fiber laserwelding machine consists of an integrated cabinet, fiber laser, cooling water circulation system, laser control system and handheld welding head. Hand- held welding machine equipped with wire feeder can tolerate larger assembly gaps and errors, and improve work efficiency and weld strength.



Applications

This product is widely used in kitchenware, kitchen and bathroom, household appliances, molds, stainless steel products, door and window furniture, handicrafts, auto parts,etc.



Samples



Configuration And Parameters

| Type | W15 | W20 | W30 |
|---------------------------------------|--|--------|----------------|
| Laser power | 1500W | 2000W | 3000W |
| Laser mode | Continuous\Pulse | | |
| Laser wavelength | 1064nm | | |
| Beam quality | M2<1.2 | M2<1.5 | M2<1.5 |
| Laser swing range | 0-5mm | | |
| Output power stability | ±2% | | |
| Power requirements | 220V±10% single phase | | AC380V 50/60Hz |
| Whole power consumption | ≤9KW | ≤12KW | ≤15KW |
| Cooling system | Customized industrial-grade dual-temperature dual-control chiller | | |
| Fiber cable length | 10M customized | | |
| Working environment temperature range | 15~35°C | | |
| Working environment humidity | < 70% without condensation | | |
| Welding thickness | MAX3mm | MAX5mm | MAX8mm |
| Suitable materials | Stainless steel, carbon steel, aluminum, galvanized sheet, copper,etc. | | |
| Welding seam requiremets | < 0.2mm | | |
| Welding speed | 0~120mm/s | | |

Product Details

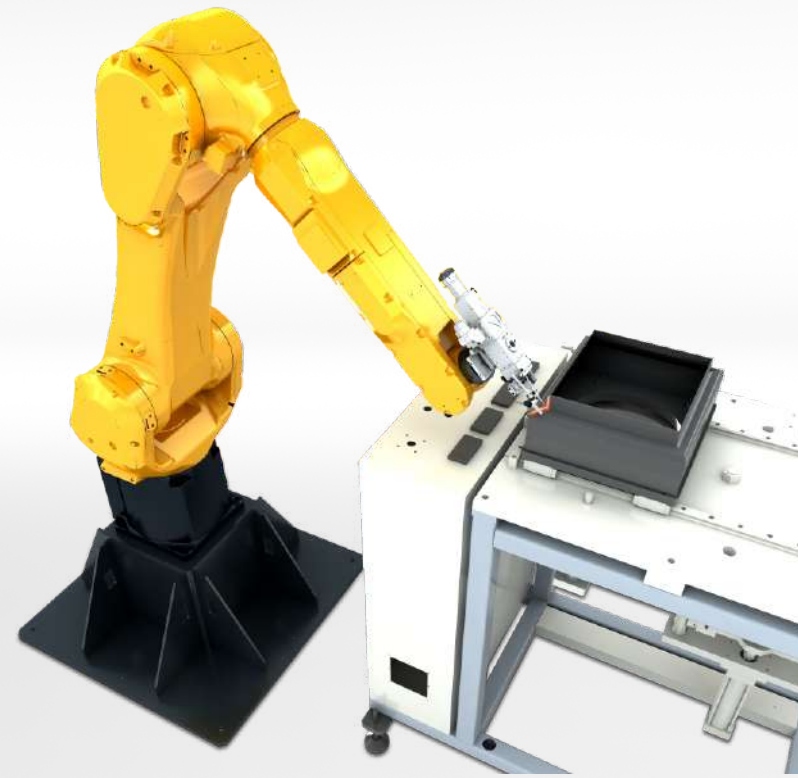
- ✓ Fast welding speed and high welding efficiency
- ✓ The welding is not deformed, the weld seam is beautiful, and no grinding is required after welding, which saves manpower
- ✓ The operation is simple, flexible and convenient, and you can directly operate it without professional welding knowledge.



Laser Robot “R”series

RV16/RV18/RV26

3D robot fiber laser cutting / welding machine



Application Industry

Applicable to processing automotive sheet metal, special-shaped tubes, internal high-pressure tubes, thermoformed tubes, rail transportation, fitness equipment, home appliances and sanitary ware, advertising lighting, musical instrument crafts, and special-shaped parts.

Configuration And Parameters

| | | | | | |
|---------------------|--|-----------------------------|-------------|-----------------------------|-----------------------------|
| Robot brand | FANUC | FANUC | YASKAWA | ABB | KUKA |
| Type | R2000iC | M20iB | Gp25 | IRB2600 | KR20 R1810 |
| Loader | 165kg | 25kg | 25kg | 12kg | 20kg |
| Working radius | 2655mm | 1850mm | 1730mm | 1850mm | 1810mm |
| Installation type | Formal, upside- down, angle | Formal, upside- down, angle | Formal | Formal, upside- down, angle | Formal, upside- down, angle |
| Processing accuracy | ±0.2mm | ±0.15mm | ±0.1mm | ±0.2mm | ±0.2mm |
| Repeatability | ±0.05mm | ±0.02mm | ±0.02mm | ±0.04mm | ±0.04mm |
| Laser power | 1500W-20000W | 1500W-6000W | 1500W-6000W | 1500W-3000W | 1500W-6000W |
| Optional | Walking axis, positioner, offline programming software, protective fence, gantry, plate cutting table, dust collector... | | | | |

Product Details

- ✓ Advanced high-precision robots have a wide range of motion, low failure rate and easy maintenance.
- ✓ The flexible processing system adopts PLC control to facilitate the management of multiple processing procedures and fixtures.
- ✓ The equipment is equipped with bus communication options and equipped with gas pressure sensors to avoid rapid damage to consumables.
- ✓ Optional walking axis, gantry, base or positioner to expand the processing range of a single robot.
- ✓ It can be equipped with standard/swing/galvanometer welding head, welding seam tracking/detection system, wire feeder, coaxial/paraxial air blowing, etc.
- ✓ Laser welding speed is 5- 10 times faster than traditional welding machine.

