MICC MICC TECH. LIMITED

Laser Welding Machine for heating tube

Introduction:

- Fast welding speed,laser 500W automatic welding speed can reach 15mm/s. It can effectively improve production efficiency.
- The welding appearance is beautiful, and the appearance is silver-white after laser welding, and the welding seam is flat without subsequent processing.
- The welding quality is stable, laser welding has no sand holes, and the welding electric heating tube is tightly sealed. 99% can reach the pass rate, which can help enterprises reduce the scrap rate of the product.
- High automation, automatic welding throughout, only one ordinary worker to load and complete the welding process.

Features:

- The X, Y, Z, and D axes of the workpiece to be welded are step-driven to meet the needs of large strokes
- High production efficiency, fast welding speed and automatic batch production
- Can weld any point, straight line, circle, elliptical machine square and other arbitrary trajectories
- With auto focus and rotation functions, it can weld products of any shape in 3D space.

Applications:

- Sanitary industry: water pipe joint, reducer joint, tee, valve
- Battery industry: laser welding of lithium batteries, battery packs, electrodes
- Spectacles industry: precision welding of stainless steel, titanium alloy, etc.
- Hardware industry: impeller, kettle, water cup, stainless steel bowl, sensor, diode, aluminum alloy, cell phone battery, door handle, shelf, etc.

Advantages:

1. Using imported ceramic cavity from Britain, high photoelectric conversion efficiency.
2. CCD image monitoring to ensure the stability of welding quality.
3. Specialized automatic tooling fixture can be customized to achieve mass production of products.
4. The laser power density is large. After the workpiece absorbs the laser, the temperature rapidly rises and melts or vaporizes, even if the melting point is high, the hardness is high and the material is brittle.(Such as ceramics, diamonds, etc.) can also be processed by laser.
5. the laser head is not in contact with the workpiece, there is no problem of wear of processing tools.
6. The workpiece is not stressed and is not easy to pollute.

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Technical Parameters

Type	YAG Pulse
Wavelength	1064nm
Power	500w
Pulse frequency	1-300HZ (continuously adjustable)
Pulse width	0.1-20ms (continuously adjustable)
Focusing spot diameter	0.3-1.5mm
Focusing lens focal length	100mm / 120mm / 150mm (optional)
Maximum single pulse energy	120J
Observation system	CCD visual image
Power demand	380v ± 10% / 50hz
Rated power	≤16kw
Protective gas	argon 、nitrogen
Cooling system	internal circulating water cooling + chiller
Internal circulation medium	deionized water, distilled water or purified water
Continuous working time	≥24h
Worktable stroke	300mm x 200mm (non-standard separately customized)
Machine weight	350kg
Use environment	clean dust-free
	no vibration source
	10 ℃ -30 ℃
	humidity 5% -85%

Sample Pictures



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