

Robot Tubesheet Welding System



Technical specification

Weldable material	Carbon/stainless steel, titanium
Tube sheet type	Pipe flush/pipe protruding
Welding pipe range(mm)	Φ8~Φ80
Rotation speed(rpm)	0.3~5.9
Torch inclination	0°~30°
Arc length adjustment	20(mm)
Maximum speed(mm/min)	1800
Wire feeding accuracy error	≤5%
Arc length accuracy error	≤0.1(v)
Protective gas	Argon
Cooling type	Water cooling
Cooling flow (ml/min)	600
Rated current	300A Temporary load rate 60%

Summary

Huaheng robot tubesheet welding system is independently developed by Huaheng. The whole system realizes unmanned operation of tubesheet, efficient TIG welding, and one-man multi-machine control, improving production efficiency and reducing labor intensity. It is suitable for automatic welding of general tubesheet in boiler, power construction, chemical industry and other industries.

Performance characteristics

- Laser automatic positioning;
- The robot vision measures the specific position of each pipe diameter, and carries out background welding;
- The robot accurately finds the position of the weld, and automatically turns on the tracking and automatic welding;
- Intelligent fault prediction: replace tungsten electrode, welding wire, etc;
- One person can manage 3-4 robot welding equipment.