

TP040

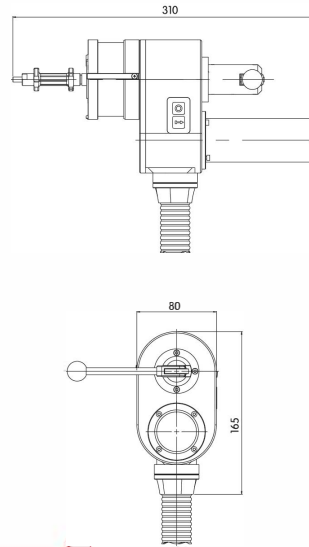
Tube/Tube Sheet Orbital Weld Head

Summary

This weld head is special designed automatic TIG orbital welding for tube/tube sheet. It's suit for CS, SS tube/tube sheet flush welding without wire feeding to achieve idea repeatable welding quality. It's compatible with iOrbital2000, iOrbital3600, iOrbital5000programmable digital welding power source and apply in chemical, food, medicine, heat exchanger, power plant, military, nuclear etc.

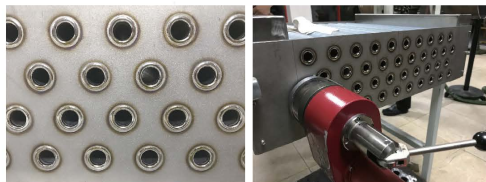
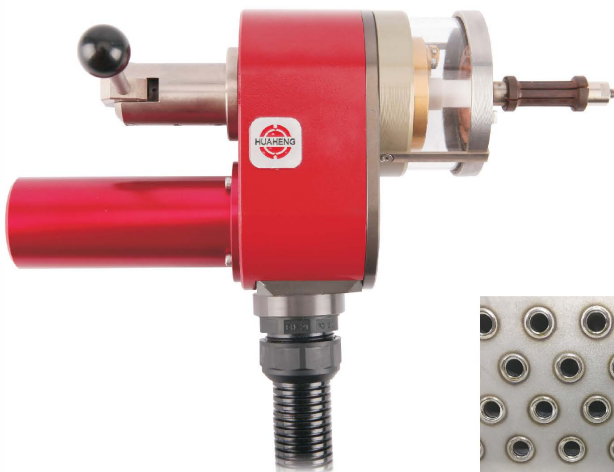
Performance characteristics

- Widely used in power plant/condenser stainless steel/titanium alloy tube to tube-sheet welding;
- Without wire feeding small size and light, easy for operation;
- Expandable collet positioning design, precise position;
- Closed welding achieving perfect welding quality;
- No wire winding twisting, enhanced water cooling system, high duty cycle for long time using.



Technical specification

Material	Carbon steel, stainless steel, titanium alloy
Tube OD (mm)	Φ16-Φ38(5/8"-1 1/2")
Connection	Flush tube
Tungsten OD (mm)	Φ2.4
Rotation Speed (rpm)	0.6-12
Welding angle	0°, 7°option (standard 7°)
Protective gas	Ar
Cooling	Water
Cooling flow (ml/min)	≥300
Rate current	100A 60%
Weight (kg)	3.65(no cable)
Dimension (mm)	310 x80x165

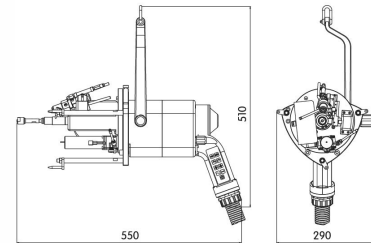
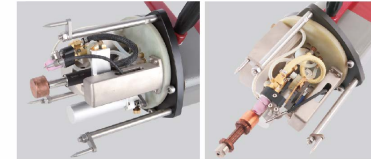
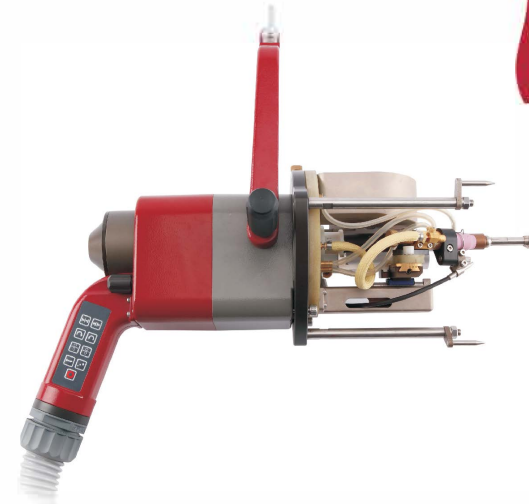


TP060

Tube/Tube Sheet Orbital Weld Head

Summary

This welding head is one special designed TIG welding head for tube to tube-sheet, which is used for carbon steel stainless steel tube to tube-sheet connection, mainly for protrusion tube and flush tube without wire feeding or with wire feeding. The standard small torch with additional gas cover to weld Titanium alloy or other material which need higher protection. For OD32mm and below tube, use localizer to positioning and expansion collet with spring balancer for positioning. It's compatible with Kunshan Huaheng iOrbital4000, iOrbital5000 programmable digital welding power source to apply in chemical, food, medicine, heat exchanger power plant, military and nuclear industries etc



Technical specification

Material	Carbon steel, stainless steel, titanium alloy (with cover)
Tube OD (mm)	Φ16-Φ60(5/8"-2 1/2") (extendable toΦ89)
Connection	Protrusion tube, flush tube
Tungsten OD (mm)	Φ2.4 (standard), Φ3.2
Wire Diameter (mm)	Φ0.8, Φ1.0
Rotation speed (rpm)	0.37-7.39
Welding angle	0°- 30° adjustable
Arc adjusting distance (mm)	18
Max wire feeding speed (mm)	1800
Protective gas	Ar
Cooling	Water
Cooling flow (ml/min)	≥600
Duty cycle	300A 60%
Weight (kg)	12 (no cable)
Dimension (mm)	550 x290x510

Performance characteristics

- Pneumatic clamping to fix the weld head on the work piece, no needhuman interference and lower down the operation skill of the welder;
- Automatic AVC function, optional manual AVC;
- Standard water cooling TIG torch, easy to change and adjust the tungsten electrode;
- Wire feeding without twisting, integrated wire feeder with 1.0kg wire;
- Water, gas and electricity without twisting while rotation;
- Operation button on the weld head, convenient to operate;

Auxiliary equipment

