



# Orbital PIPE Welding – Close Head



# Product Features

## Orbital Pipe Welding Close Head

Our Close Head Orbital Pipe Welding System offers an unparalleled solution for high-precision, automated pipe welding. Tailored for industries that demand clean, consistent, and high-quality welds, this system guarantees minimal contamination and exceptional joint integrity.

The welding tongs feature a fully enclosed, full-position welding technique. They incorporate a state-of-the-art full-jacketed integrated water cooling system, designed to support high-duty cycles.

### Technical Specifications:

1. Welding Pipe Diameter:  $\Phi 6.35$  mm to  $\Phi 168$  mm
2. Applicable Wall Thickness: 0.8 mm to 3 mm
3. Tungsten Electrode Diameter:  $\Phi 1.6$  mm and  $\Phi 2.4$  mm
4. Welding Tongs Rotation Speed: 1.5 rpm to 4.5 rpm
5. Welding Mode: Rotating non-winding all-position welding mode with an automatic reset function.  
Suitable for welded pipe fittings including straight pipes, three-way joints, elbows, chucks, reducers, and other connections, without the need for a groove, utilizing self-fusion welding.
6. Protective Gas: Argon
7. Cooling Method: Water circulating cooling
8. Cooling Water Flow Rate: 1000 ml/min
9. The welding tongs handle features an operation button for ease of use, enhancing work efficiency
10. The welding tongs are compatible with the KWPS-200 integrated control power supply



Welding Head



Power Source

# SPECIFICATION



Model	KWCH-40	KWCH-80	KWCH-120	KWCH-168
Welding Diameter	6.35 - 38.1 mm	19.05 - 76.2 mm	38.1 - 114.3 mm	50.8 - 168 mm
Wall Thickness	0.8 - 3mm	0.8 - 3mm	0.8 - 3mm	0.8 - 3mm
Protective Gas	Argon	Argon	Argon	Argon
Cooling Method	Water cooling	Water cooling	Water cooling	Water cooling
Tungsten Diameter	1.6 - 2.4 mm	1.6 - 2.4 mm	1.6 - 2.4 mm	1.6 - 2.4 mm
Welding Rotation Speed	1.5 - 4.5 rpm	1.5 - 4.5 rpm	1.5 - 4.5 rpm	1.5 - 4.5 rpm

## KWPS-200



Power Source



For all Welding Head

# SPECIFICATION

## KWPS-200



### Power Source

Input Voltage	220 V $\pm$ 10% 50/60 Hz
Utilization Factor	100% at 120 A
Welding Current Range	5-200 A
Protective Function	Oversvoltage protection, overcurrent protection, leakage protection, arc failure protection, tungsten short circuit protection and phase loss detection.
Suitable For	KWCH-40. KWCH-80. KWCH-120. KWCH-168.

The KWPS-200 programmable welding power source includes a control system, inverter core, cooling water tank, and more. This equipment features a German Siemens PLC control system, EWM welding movement, Swiss Maxon motor, Omron relay, and other reputable brand components. It allows for precise management of various input and output signals. The user-friendly touch interface supports quick switching between Chinese and English, with a vibrant 10-inch color touch screen designed with graphic and step interfaces, making it easy to operate and learn, suitable for various environments. It boasts functions like parameter saving and printing, and can be used with basic welding skills. During the welding process, it provides real-time monitoring of parameters such as current, voltage, and speed to ensure both safety and efficiency. This complete welding control power supply is compact and lightweight (only 18 kg), making it convenient for mobile high-altitude welding tasks on-site.

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