

## Pipeline Automatic Welding Machine

### ◆ Product Description

The Automatic Pipe Welding Machine is an intelligent equipment specially developed for industrial pipe welding scenarios. It addresses the pain points of traditional manual welding, such as low efficiency, unstable quality, and high operation threshold, and provides efficient, reliable, and standardized welding solutions for various pipe projects.



- Efficient Welding, Significantly Improving Operation Efficiency
- Precise and Controllable, Ensuring Stable Welding Quality
- Easy to Operate, Reducing the Threshold for Manual Dependence
- Safe and Weather-Resistant, Adapting to Complex Operating Environments
- Multi-Scenario Adaptable, Meeting Diverse Welding Requirements

### ◆ Product Structure

- The automatic pipe welding machine adopts a modular combined structure to achieve efficient and precise automatic welding. As the core executive unit, the welding torch actuator completes precise welding and dynamic deviation correction through the welding torch assembly, multi-dimensional adjustment mechanism and weld seam tracking sensor. The machine body support system provides stable support and is compatible with pipes of multiple specifications and the connection of external equipment.

### ◆ Typical Applications

- The automatic pipe welding machine is widely used in pipeline projects across multiple fields. In the petroleum and natural gas industry, its resistance to harsh environments and high mobility make it suitable for the construction of long-distance outdoor pipelines. In the power sector, precise control ensures the weld quality of high-temperature and high-pressure pipelines. The dedicated configuration for the chemical industry can avoid welding defects of corrosion-resistant pipelines and extend their service life.

### ◆ Typical Product Data and Physical Properties

Main Material: 6061-T6 Aluminum Alloy  
 Nozzle Material: High-Temperature Resistant Ceramic  
 Machine Dimensions: 680MM\*520MM\*700MM  
 Pipe Diameter: DN40 - DN200  
 Contact Tip: Chromium-Zirconium Copper Alloy  
 Machine Load Capacity:  $\geq 200\text{kg}$   
 Chuck Clamping Force: 50 - 300N  
 Amplitude:  $\leq 0.05\text{MM}$   
 Welding Speed: 80 - 500MM/Min

### Availability:

Item#	Pipe Diameter	Weight
1.4.24.02.0383	DN40-DN200	42kg

### ◆ Technical and Application Assistance

HORB provides a technical hotline to answer your technical and application related questions.

### ◆ Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. HORB data for reference only

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