

## HCJ Series Column&Boom Welding Series System for Circumstance Seam Welding

### Basic Information



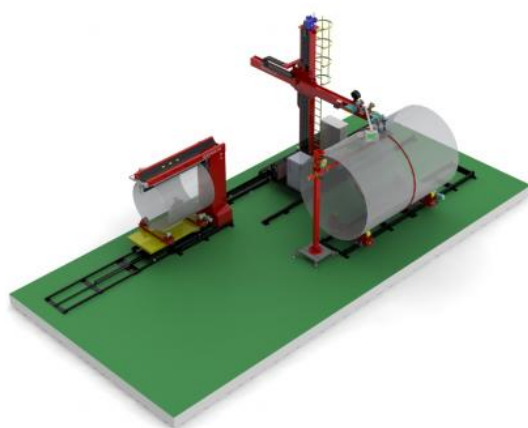
### Product Specification

Our Product Introduction

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## Product Description

The HCJ-type Precision Welding Manipulator serves as a core process equipment for automatic welding in boiler, pressure vessel, pipeline, and metal structure fabrication. When integrated with roller frames and positioner/tilter systems, it forms a complete automatic welding system. This configuration enables various applications including: longitudinal/circumferential seam welding (both internal and external) for pressure vessel shells and large-diameter pipelines, joint welding of spherical/elliptical heads, overlay welding on inner walls of vessel shells and heads, as well as nozzle reinforcement area overlay welding on heads. The system demonstrates compatibility with multiple welding processes including TIG, MIG/MAG, plasma arc welding, and submerged arc welding (SAW).



Category	Specifications
Application Industries	Food Processing, Chemical Containers, Dyeing & Finishing, Boiler Manufacturing, Pharmaceutical
Workpiece Diameter	φ800 – φ4000 mm
Workpiece Thickness	≤26000 mm (Single Cylinder: 1220 mm)
Workpiece Wall Thickness	1 mm ≤ δ ≤ 3 mm
	<ul style="list-style-type: none"><li>- Specialized for horizontal welding in critical industries</li><li>- Adaptable to thin-walled components (1–3 mm wall)</li></ul>

Category	Specifications
Key Features	<ul style="list-style-type: none"> <li>- Compatible with large diameter cylindrical structures (up to <math>\phi 4000</math> mm thickness)</li> <li>- Supports ultra-long component fabrication (up to 26000 mm total thickness)</li> </ul>



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