

HUAHENG Teach-free Robotic Welding System

Basic Information



Product Specification

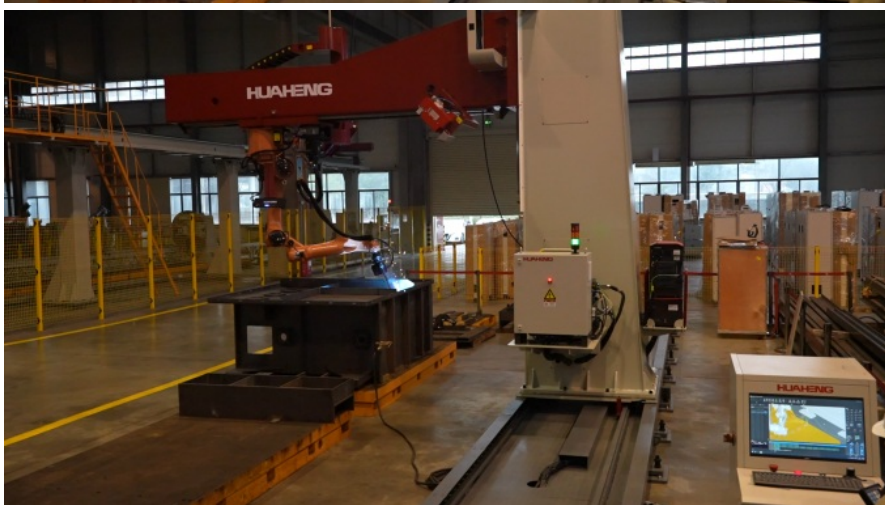
Product Description

HUAHENG's Self-developed Teach-free Welding Programming System

An intelligent programming solution with independent intellectual property rights.

By 3D visual scanning of workpieces in the working area, the system automatically completes 3D modeling and weld seam recognition. Based on the built-in process knowledge base, it intelligently plans positioning/welding paths and process parameters to achieve full-process automatic welding.

This system significantly reduces the technical threshold and operation time of robotic welding programming, enabling rapid deployment and convenient process setting, while improving the efficiency and quality of welding automation.





Automated Welding Process Flow with No-Teaching Robots

Step 1: 3D Vision Scanning & Model Reconstruction

Step 2: AI-Powered Weld Recognition

Step 3: Dynamic Path Optimization

Step 4: Precision Welding Execution

Automated Weld Seam Identification and Welding Execution

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