



**HEBEI YUEHONG INTELLIGENT WELDING EQUIPMENT CO.,LTD.**



## Automatically Arc Tracking Welding Robot YH-DHGZ

Automatic Welding

High Efficiency

Intelligent



Automatic welding seam tracking robot can solve the robot teaching error in actual production, Workpiece position error, thermal deformation of welding workpiece during the welding process, the welding trajectory deviation caused by the dynamic non-coincidence of the welding torch and the weld seam center, etc., Significantly improve the welding quality. Automatic welding seam tracking robot can track the welding seam accurately, the position of welding torch doesn't add any auxiliary equipment, don't affect the welding operation, avoid a large number of cumbersome teaching point operations, and has high tracking accuracy, which greatly improves production efficiency

**Application Scenarios:** operations in modern intelligent unmanned workshops, complex welds (circumferential welding, arc welding, intersecting line welding, etc.)



## Automatically Arc Tracking Welding Robot YH-DHGZ

### Feature:

- Significantly improved welding efficiency
- Automatic location tracking intelligent construction
- Automatic anti-collision protection of welding torch
- Safer construction



### Standard Configuration:

- Welding robot
- Welding torch
- Welder
- Control system
- Control cable set
- Seam tracker system
- Shielding gas system



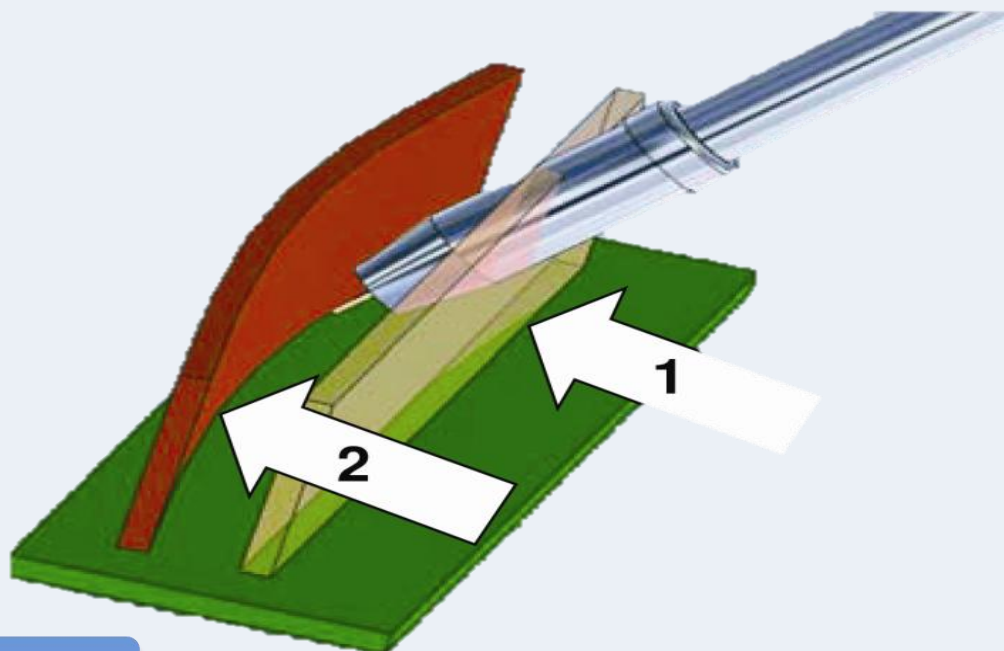
## Automatic Arc Tracking Welding Robot

The arc tracker can cooperate with the robot to correct the deviation of the robot's planned path. The robot uses a 3D positioning method to find the starting position of the weldment. When the position of the weldment is offset from the planned starting point, it can accurately find the welding starting point, judge the position of the welding gun in the groove, and calculate the actual welding path. Compensate for the deviation of the robot's planned path to ensure that the welding path follows the actual groove direction.





## Automatic arc tracking welding robot



### Technical Parameters

No.	Name	Parameters
1	Applicable groove form	V-shaped, U-shaped, fillet weld
2	Main function	Tracking left and right deviation and welding gun height deviation
3	Applicable groove angle	$\geq 60^\circ$
4	Applicable welding speed	180-600mm/min
5	Wire diameter	$\leq 1.2\text{mm}$
6	Swing frequency	$\geq 1\text{Hz}$
7	Tracking accuracy	$\pm 0.8\text{mm}$
8	Maximum tracking capacity	100mm/m



## Fully automatic six-axis welding machine YH-6ZHHJ

High Efficiency

Full Position

More Flexible

Yuehong's six-axis welding robot is equipped with torch, welding machine, wire feeder, wire feeder, control system, etc. The hardware part of the welding robot can be fully controlled. After being combined with PLC and touch screen, the control system can achieve a high degree of automation, remote monitoring, and effectively achieve high-precision and high-repeatability control effects. The welding robot can store a large number of welding parameters.



Adapt to the welding process requirements of products of different specifications and different shapes.

It is not enough to just produce a high-quality weld. HJXC can always do this, repeating it one after another with high-quality welds.

**Application scenarios:** high-precision and high-efficiency unmanned welding, all-position welding of large natural gas storage tanks, and pressure vessel welding  
Feature: Welding joints are always consistent and repeatable.





## Welding Parameters

No.	Name	Parameters
1	Applicable groove form	V-shaped, U-shaped, fillet weld
2	The main function	Spot welding, arc welding
3	Applicable groove angle	$\geq 60^\circ$
4	Applicable welding speed	180-600mm/min
5	Wire diameter	$\leq 1.6\text{mm}$
6	Swing frequency	Adjustable



## Automotive Two Axis Welding Positioner YH-2BW

Heavy load

Intelligent rotation

Stepless speed regulation

Yuehong's two-axis welding positioner can work with welding robot produced by Yuehong.

The positioner is a special welding auxiliary equipment, which is suitable for the welding position of the rotary work to obtain the ideal processing position and welding speed. The console is equipped with action operation buttons, emergency stop buttons, status indicators, etc.







## Automotive two axis welding positioner YH-2BW

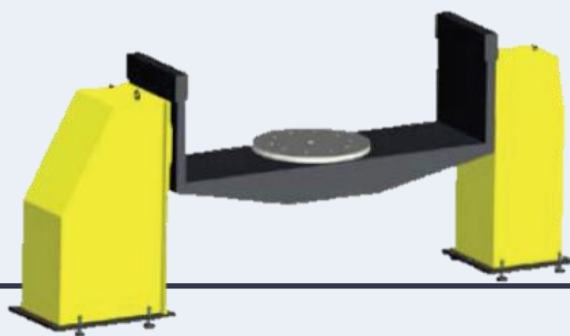
It can be connected with the operating machine and the welding control system to form an automatic welding center, and can also be used for workpiece displacement during manual operation. The rotation of the worktable can be steplessly adjusted, and the speed adjustment accuracy is high. All materials of the positioner have undergone stress-relieving treatment, which is flat and reliable. The positioner can be customized according to customer requirements, and is controlled synchronously with the robot, which can realize the operation purpose of synchronous linkage between the robot and the positioner. It can be used horizontally or vertically.





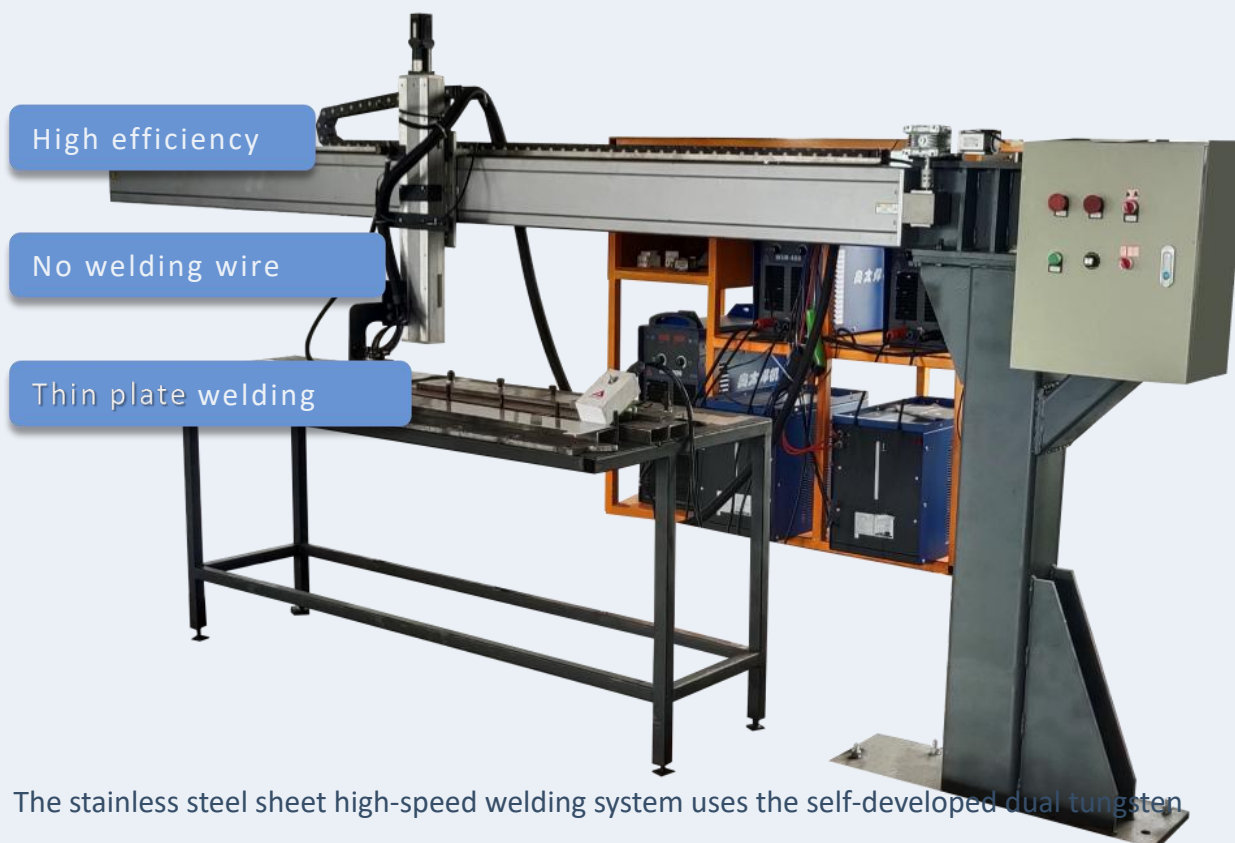
### Technical Parameters(customized)

Model	YHBW-021
Input Voltage	220V 50/60Hz
Vertical Load-bearing	1000KG
Horizontal Load-bearing	1000KG
Rotation Radius	700mm
Rotation Angle	±360°
Rotary Motor	2kw ( HCFA ,With brake )
Flip Speed	0.15r/min ( Adjustable )
Column Spacing	2500mm
Flip the Motor	2.5kw ( HCFA ,With brake )
Repeatability	±0.16mm
Installation Method	Ground installation
Stop position	Any position





## High-speed Welding System for Stainless Steel Sheet YH-GSHJ



The stainless steel sheet high-speed welding system uses the self-developed dual tungsten argon arc welding process. By adjusting the heat-force distribution of the welding arc, the backward liquid flow of the molten pool metal is effectively controlled to prevent high current and high-speed single tungsten argon arc. The defects of burn-through, hump and undercut that are easy to produce in welding can effectively improve the welding speed and quality, and the welding speed is 5 times that of ordinary argon arc welding.

### Application scenarios:

Continuous and uninterrupted welding production line for stainless steel sheet, all-position welding of large natural gas storage tanks, etc.

### Features:

Improved welding efficiency  
Improved tensile strength of welded joints

Thickness	Welding Rate	To raise Efficiency
1mm	2m/min	500%
2mm	1.3m/min	300%



## Welding Effect





## Automatic Rotating Torch Welding System YHZQH

Efficient

Save Time

Girth Seam Welding

The automatic rotary torch welding system is compact in shape, simple and convenient to operate, and can complete all kinds of small circular and annular welds. Used for welding carbon steel and stainless steel cylindrical inner and outer walls. It is also suitable for the girth seam welding of some small workpieces. With cylinders, motors, and fixtures, it can quickly position the workpieces and complete the girth welding of the workpieces. It can also be used for girth segmental spot welding. Welding speed, wire feeding speed is steplessly adjustable, welding torch lifting and reset are automatically controlled, and the operation is stable and reliable. The clamping adopts an automatic positioning mechanism to facilitate the loading and unloading of the workpiece.





## Automatic Rotating Torch Welding System

Store Welding Process

Adjustable Welding Parameters

Circular Welding Seam is More Stable



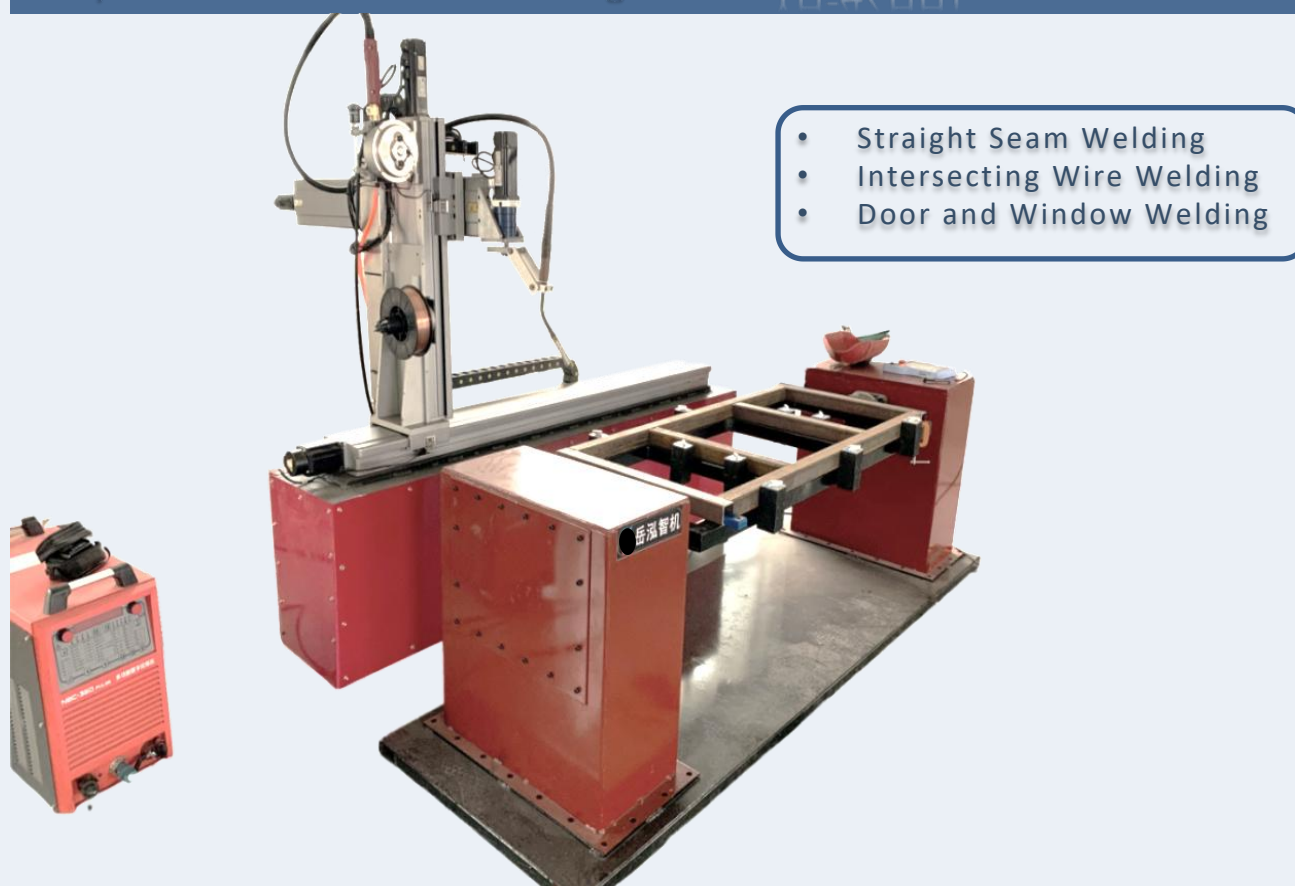
### Technical Parameters

No.	Name	Parameters
1	Welding workpiece diameter range	$\phi 10-200\text{mm}$
2	Height adjustment range of workbench	50cm
3	Applicable process	Gas shielded welding
4	Applicable welding wire diameter	$\Phi 0.8-0.2\text{mm}$
5	welder	220v
6	Rotation range of welding gun	$>360^\circ$
7	Lap angle	Can be adjusted manually
8	Welding parameters can be stored	500+





## Fully Automatic Four-Axis Welding Robot YH-4ZHHJ



The four-axis welding robot can be equipped with welding equipment such as argon arc welding and two-phase welding; the host is designed in one, compact structure, mature and reliable; the positioner rotates and positions accurately; three-dimensional welding operation arm add full-angle positioner and welding gun angle adjustment, The mechanism ensures the multi-position and multi-angle conversion of the welding gun.

**Application Scenarios:** door and window welding, frame welding, pipe pipe, pipe elbow, pipe tee, pipe high neck butt; pipe flange, elbow flange corner connection; suitable for carbon steel, low alloy steel, stainless steel, copper, etc. Material welding

### Features:

- Convenient control system programming
- Hundreds of welding processes can be stored
- Process can be called according to welding specifications
- CNC automatic wire feeding



## Fully Automatic Four-Axis Welding Robot

### Technical Parameters:

No.	Name	Technical Parameters
1	Model	YH-4ZHHJ
2	Welding Mode	Various
3	Gas Protection	Various
4	Working principle	Teaching reproduction
5	Operating mode	Manual / Auto
6	Working frequency	50HZ
7	Operating Voltage	DC24V/220V/380V
8	Working power	750W-6000W



#### Standard Configuration:

Four-axis welding robot

Welding Torch

Welder

Control system

Welding cable

Control box

Easy to program

Easy to operate

Can store welding process

More flexible with positioner



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Revised date: June,2021