

TOTAL WELDING AND CUTTING SOLUTIONS



ROBOT INDUSTRIES COLLABORATIVE WELDING STATION

RI WD603/905/1410

INCLUDES

- Master welding system controller
- 6-Axis co-operation robot
- Portable permanent magnet base
- Specialized welding torch
- Welding power supply
- Wire feeder(with 5 meters cable)
- Specialized controller board

APPLICATIONS

- Branch welding line of steel structure light steel production line
- Laminated welding for bridge steel structure
- All kinds of application scene, multi welding procedure



- The RI Collaborative welding station** can benefit to realize flexible, high efficient, freely welding technology. The robot can move to everywhere the application support area. When accomplished one task, you can reposition the robot to others working area keep it standing by.
- The co-operation robots can solve the Electric arc welding, Tig welding, Laser, Mig welding, Plasma welding, Ultrasonic welding, Spot welding, Brazing efficiently.

PRODUCT PARAMETERS

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OPERATION TIPS



Record Safety Points:

- The initial position of the robot after starting/ending a single weld seam
- There should be no obstacles on the straight path between the safety point and the entry and exit points of the gun

RECORD THE LOCATION

BACK

EMPTY

SAVE

WELDING TECHNOLOGY

Current(A): 240 ^ ∨

Voltage(V): 24.0 ^ ∨

Speed(mm/s): 7 ^ ∨

Select Process

Straight Weld

Enable swing welding ⚙️

Disable multiple channels

Device Reconnection

Clear Exceptions

Manual Wire Feeding

START WELDING

TRAJECTORY SIMULATION

PAUSE/RESET

ROBOT: ✔️ CONNECTED

WELDING POWER SOURCE: ✔️ CONNECTED

OPERATION MONITORING

2024/07/16 08:00
Robot has been connected

STATUS	WELD TYPE	CURRENT	VOLTAGE	SPEED	SWING WELDING	OPERATE	
1	Waiting For Welding	Straight Weld	240.0	25.0	5	N	🗑️ DELETE
2	Waiting For Welding	Circular Weld	220.0	21.0	4	N	🗑️ DELETE
3	Waiting For Welding	Straight Weld	240.0	24.0	7	Y	🗑️ DELETE



MODEL	RI WD603	RI WD905	RI WD1410
Arm Weight	15kg	22kg	40kg
Working Radius	≤622mm	≤922mm	≤1400mm
Maximum Load Capacity (KG)	3kg	5kg	10kg
Repeat Positioning Accuracy	±0.02mm	±0.03mm	±0.05mm
Basic Functions	Autonomous Planning; Arc Tracking; Circumferential Welding; Pendulum Welding; Intermittent Welding; Fillet Welding; Multi-layer Multi-pass Welding		
Power Supply	100-240V 50/60HZ	100-240V 50/60HZ	100-240V 50/60HZ
Optional Teaching-Free Model	Module Import & Non-Module Import		
Optional Power	MIG:INVERMIG 350UR/500UR; SUPERMATRIX 270UR/350UR/500UR; CEA 5000 TIG:PROTIG 400UR/500UR; WAVE 315UR; SUPERWAVE 400UR/500UR PLASMA CUTTERS:PLASMAX 120;LASER WELDING:HGLW 1500BR/2000BR/3000BR/6000BR		

Product high light-Omnipotence assistance High efficiency



● Friendly interface, Simple programming, Operation with high efficiency

- RI WD series co-operation robot has friendly interface, highly optimized operating procedure, easier to operate without professional programming knowledge, promote the working efficiency obviously, being great power of professional welding operation.



● Precises welding by manual positioning, multi-welding is under control

- RI WD series use visually manual positioning technology, can lock the welding area accurately, simulate the welding track in real time, do great favor to simplify the welding preparation procedure. It is not difficult for complicated multi welding under man-machine cooperation mode.



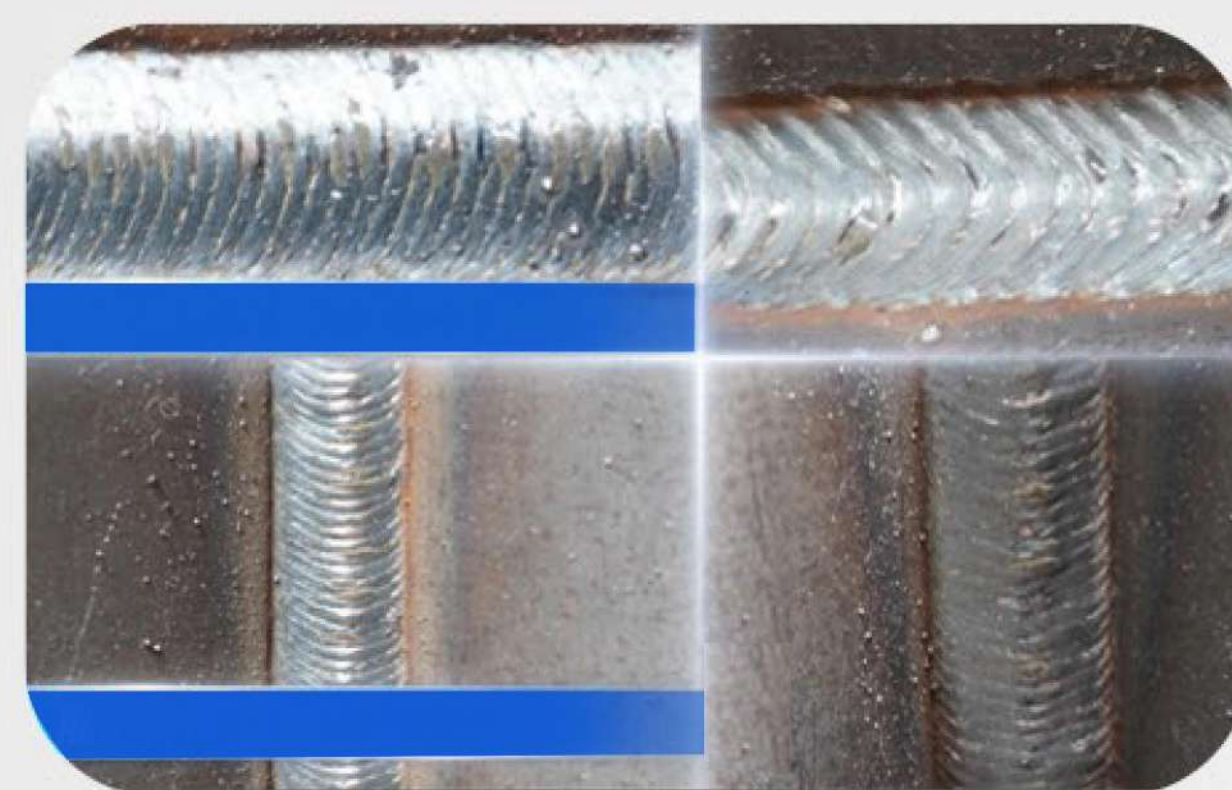
● Overcoming welding issues at special position

- RI WD series cooperation robot, overcoming the welding issues at special position. It can accomplish the welding tasks with ease such as welding operation going deep into narrow spaces, seamless welding on complicated curved surface, accurate welding on complicated angle with high difficult.



● Integrated design, flexible application

- Highly integrated design with compact structure and simple and elegant appearance can saving the space and promote the stability and reliability of the machine at the same time. Convenient maintenance to lower the cost and provide reliable hardware support for professional welding.



● Customize welding technology with perfect welding seam

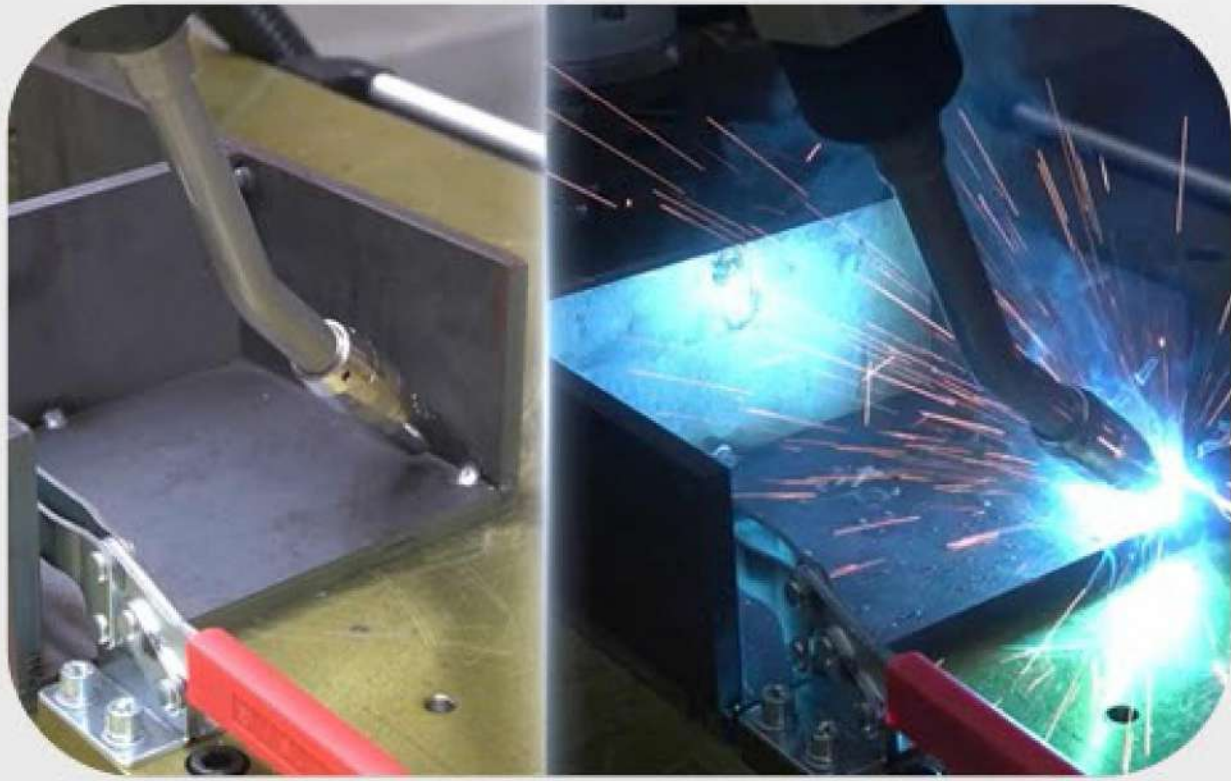
- Customize welding technology character manually, keep extra several beams setting and positioning in reserve. Flexible response and satisfied all kinds of welding requirement, such as straight welding, corner welding, diagonal welding.



● Widely compatibility to satisfied varied requirement.

- One-stop solution to satisfied varied different industry and application scene with optional professional welding equipment for Tig welding, Mig welding, Laser welding.

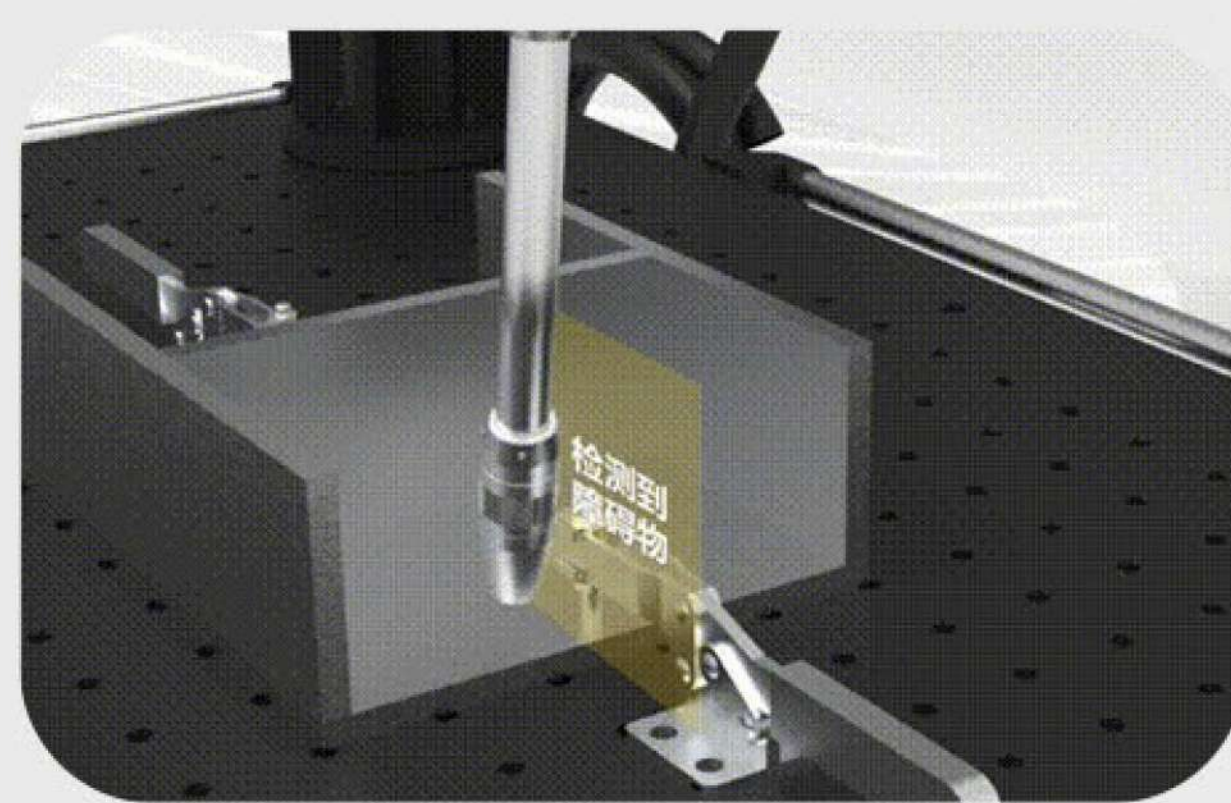
Intelligent characteristic- Intelligent welding, feel at ease



- **Intelligent swing for high speed high precise welding**
 - Realize multiple swing welding to promote welding quality and efficiency with intelligent swing welding function.

- **Intelligent welding help function, feel at ease**

- Ensure the safety and reliability during the whole welding procedure by built-in self-checking system and real time monitoring the status of the equipment.



- **Intelligent protection at any time**

- To build comprehensive "intelligent sense organ" with Intelligent perception, Safety certification. Integrated laser radar, Infrared and force high precise sensor. It can real time observe the surrounding environment, detect the risks of collision in advance. Rebound when encountering obstacles, instant stop. Creative "automatic rebound when encountering obstacles" technology can detect the obstacles instantly, adjust the track smoothly to avoid the collision. Cooperating with "instant stop" function to stop the operation in emergency situation, make the operation ultimate safety.

- **Longest fault free operation, keep continuous production**

- RI WD series are well know as highest stability and reliability, keep 48,000 hours fault free running record. It reduce the down time and promote the production efficiency, provide continuous protection for professional welding procedure to ensure no interrupting for enterprise production.



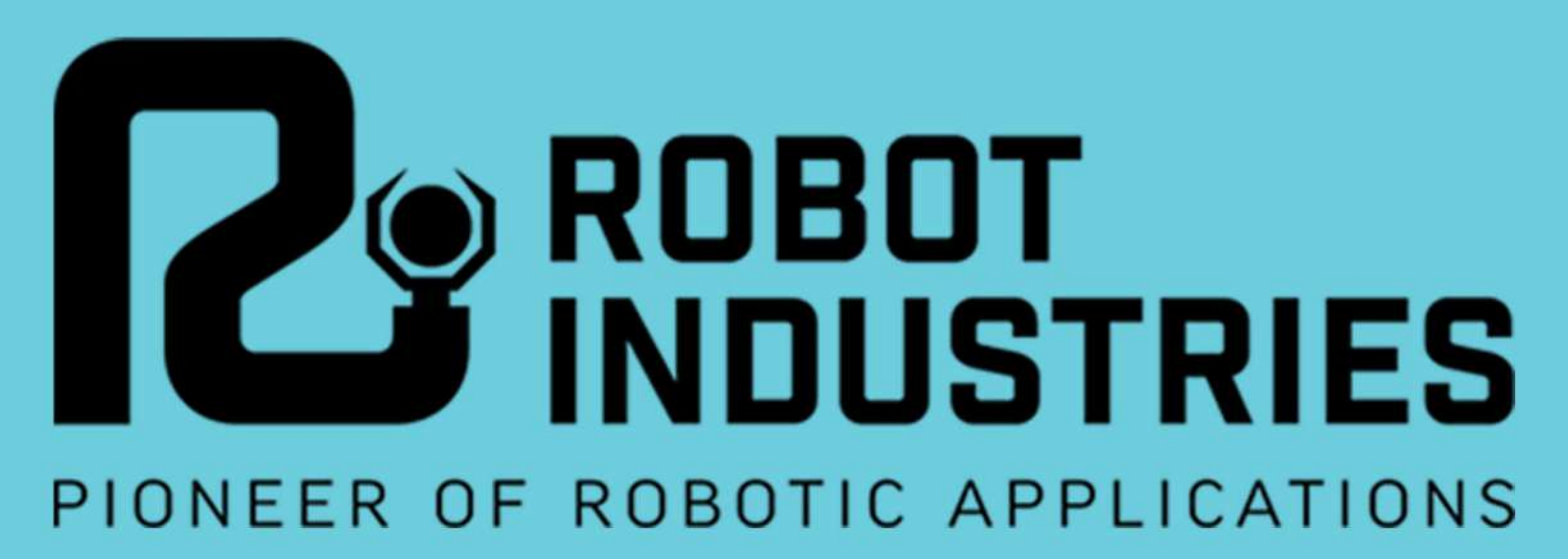
QUICK & EASY INSTALLATION & USAGE

It would be an enjoyable process to install RI Portable cooperative robot, with the user guide videos and clear instruction attached with the machine.

You just need:

- Connect with standard 220V AC power (32A/40A)
- Connect with shield gas source (i.e. Nitrogen or Argon)
- Connect with welding wire feeder
- Equip safety wearing
- Grounding between the ground clamp and the workpiece when working





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