

SAVE **50%** in Cost with our Cobots Compared to Others - **BOOST** Productivity, **ENHANCE** Efficiency, and Work **SMARTER**!



According to different payload and parameter, FAIRINO collaborative robots FR series are divided into six models: FR3, FR5, FR10, FR16, FR20 and FR30.

To provide partners & customers with better quality assurance, FAIRINO has obtained a more comprehensive range of certificates through international certification organizations.

Quality Management System : ISO 9001

Product Certification : CR, CE, KCs, NRTL, RoHS 2.0, NSF, SEMI, IP65

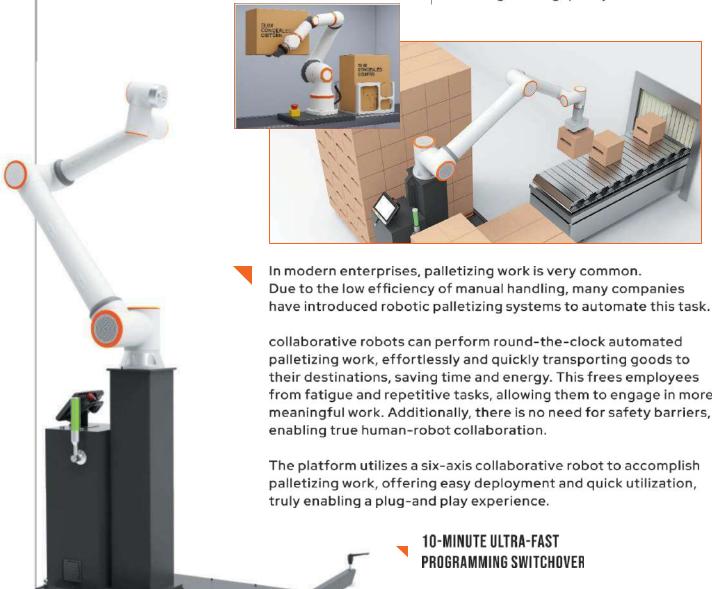
ISO Functional Safety Certification: ISO 10218, ISO 13849, ISO 15066



INDUSTRY

PALLETIZING SOLUTION

Abundant welding process kits with a variety of welding technologies, seam welding, straight welding, oscillating welding, arc welding, and multi-layer multi-pass welding. It also incorporates intelligent welding technologies for wire positioning and weld seam tracking, significantly enhancing welding efficiency and ensuring welding quality.



- VARIOUS PALLETIZING PACKAGES
 TO MEET INDIVIDUAL NEEDS
- OVER 30% PRODUCTIVITY INCREASED IN 7*24 HOUR OPERATION



I SCREW TIGHTENING SOLUTION

Combined with the end intelligent tightening device at the end, it achieves adjustable, controllable, and programmable torque, making it suitable for screw tightening in various scenarios. It can stably, efficiently, and accurately complete the production process, greatly reducing repetitive labor for workers and supporting data traceability.

- SAFE AND CONVENIENT
- ▼ FLEXIBLE DEPLOYMENT
- **▼ FLEXIBLE FORCE CONTROL**
- HIGH EFFICIENCY IN PRODUCTION



WELDING SOLUTION

Abundant welding process kits, with a variety of welding technologies such as spot welding, seam welding, straight welding, oscillating welding, arc welding, and multi-layer multi-pass welding. It also incorporates intelligent welding technologies for wire positioning and weld seam tracking, significantly enhancing welding effciency and ensuring welding quality.

- ULTIMATE SAFETY
- ▼ FLEXIBLE DEPLOYMENT
- REDUCED ENTRY BARRIERS
- MULTI-AXIS COORDINATION
- ▼ HIGH PRODUCTION EFFICIENCY





APPLIGATION

CONVEYOR BELT SOLUTION



- ENHANCE WORK SAFETY
- REAL-TIME MONITORING AND FEEDBACK
- REDUCE ERROR RATE AND LOSSES.
- DATA RECORDING AND TRACEABILITY
- ▼ IMPROVE PRODUCTION EFFICIENCY
- ACCURATE TRACKING AND IDENTIFICATION

PICK AND PLACE SOLUTION

Material handling robots can improve production efficiency, quality, and safety, reduce labor intensity, and provide flexibility and adaptability, bringing higher benefits and competitive advantages to businesses.







I EDUCATIONAL SOLUTION





The platform includes common functions in the industrial field, such as gluing, tightening, and material handling, closely aligning with actual production line scenarios. It allows students to experience the real factory atmosphere up close in the classroom, making it an invaluable collaborative robot training platform in the field of education.

I GLUE DISPENSING SOLUTION



Paired with an intelligent dispensing device at the end effector, it enables precise operations and is suitable for precise gluing and dispensing tasks in various scenarios. It can achieve stable, efficient, and accurate adhesive application, ensuring the quality of the adhesive work. This greatly reduces repetitive labor for workers and protects their health.



INTELLIGENT WELDING WORKSTATION

Open a new journey of convenient welding with one click

FAIRINO's digital welding process software kit supports various welding techniques, fully meeting the welding needs of different scenarios. The programming-free automatic welding platform developed by FAIRINO can automatically locate welding seam positions, conduct simulation rehearsals in advance, identify problems promptly, and mitigate risks. During the welding process, real-time welding seam deviation compensation is performed to ensure the consistency and precision of the welding operations.

FR-Welding-Hardware

Welding Hardware

Solution

Welder (with water tank)
Smart Tool
Switch Cabinet
Magnet (3 pcs)
Trolley
Router
Controller
Torch Extension Cable

Welding Torch

Technical Specification

Size 1449*750*1098 mm
Magnetic base for fixation,
can be easily moved around.
Magnetic base size 382*331*121 mm
The equipment is fixed on a trolley,
which can be moved along with
the trolley The wire feeder can
rotate 360° and can be detached
from the trolley and placed freely

Robot Vision

Solution

Camera

IPC Industrial Processing

Computer

IPC Graphics + Graphics

Card Display Card Vision Software Technical Specification

Working Distance 350-800mm

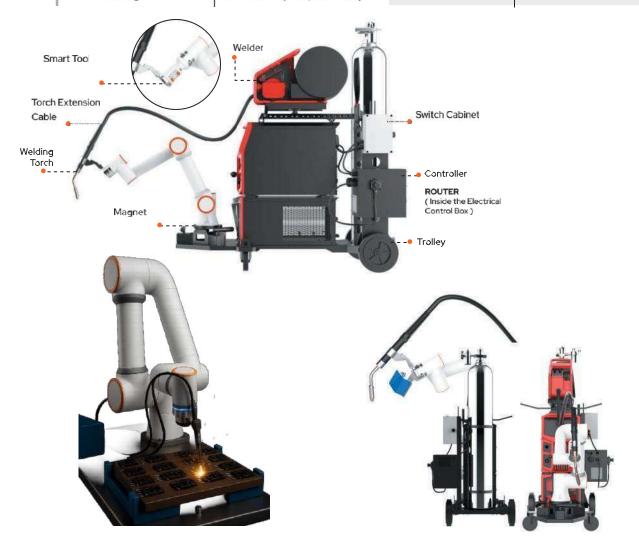
Near Field on View 270mm*200mm@350mm

Far Field of View 630mm*450mm@800mm

Resolution 1440*1080

z-axis Repeatability 0.08mm @ 500mm

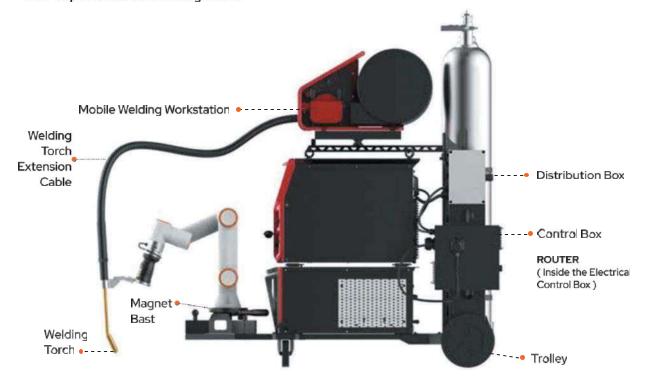
Fastest Acquisition Time 0.8s





MOBILE WELDING SOLUTION

The mobile welding solution integrates core equipment units such as a mobile trolley, magnetic base, SMART TOOL, and six-dimensional torque sensor, and each equipment unit works together to give full play to its respective advantages and bring a new experience to welding work.



APPLICATION ADVANTAGES

- High flexibility
- Easy Operation
- Precision control
- Improved Efficiency





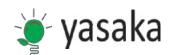
APPLICATION SCENARIOS

Suitable for precision welding tasks in complex spatial structures

- Building steel structure
- Electronics Manufacturing

Shipbuilding

- Production of auto parts
- Sheet Metal Industry







WELDING ROBOT

YS10-1440-W

Faster, more accurate and more reliable. Suitable for all types of ${\rm CO2/MAG/MIG/TIG}$ welding and plasma cutting

Model No.	YS10-1440-W
Number of axes	6
Maximum payload	10kg
Approx. weight	176kg (without Cabinet or welding machine)
Repeatability	<u>+</u> 0.05mm
I/O terminals	16 digital inputs/outputs 2 analog outputs

6-AXIS HANDLING ROBOT YS20-1840

Faster, accurate and reliable. Suitable for pick-n-place, machine tending, palletizing and painting

Model No.	YS20-1840
Number of axes	6
Maximum payload	20kg
Approx. weight	260kg (without Cabinet or welding machine)
Repeatability	<u>+</u> 0.08mm
I/O terminals	16 digital inputs/outputs 2 analog outputs







PALLETIZING & DEPALLETIZING



PICK & PLACE



LOADING & UNLOADING



MACHINE TENDING

ROBOTIC AUTOMATION SOLUTIONS





ASSEMBLY

Vision

Creating a unique market value for our company, embracing new challenges in robotic automation, and driving Industry 4.0 transformation for every client withour cutting-edge solutions."

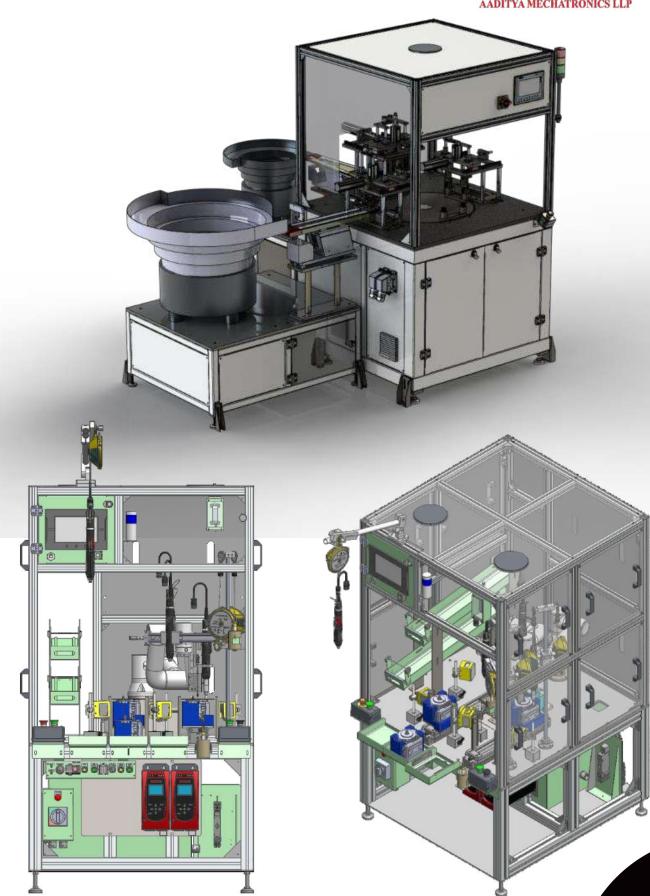
Mission

We provide complete Robotic and SPM Automation solutions, helping clients adopt technology cost effectively with quick support for any robot related issues."

10

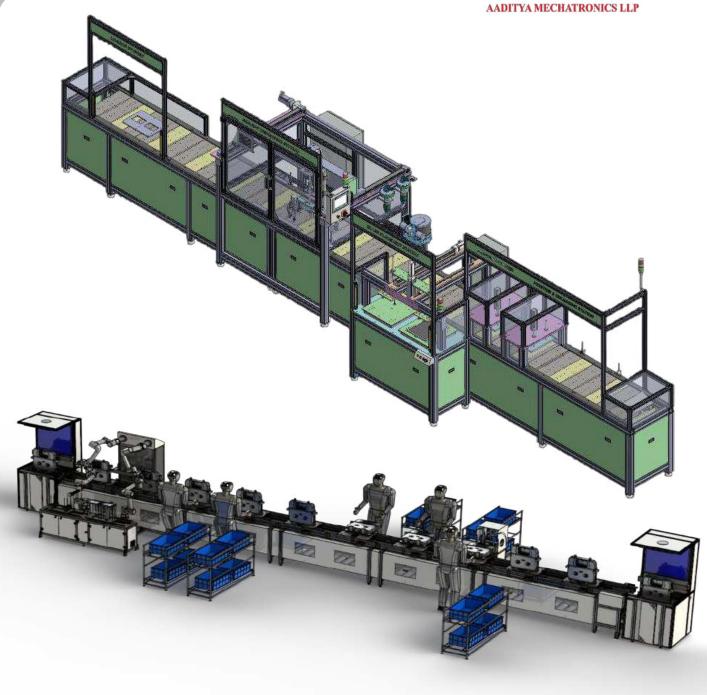
Automatic Assembly Line





Automatic Assembly Line





Automatic & Semi-Automatic Assembly Lines and Many More...

AADITYA MECHATRONICS LLP

Office Address: B-108, Sector 65, Gautam Buddh Nagar, Noida Uttar Pradesh – 201301 9 +91 9811763854, +91 9811766077, +91-120 4257984

