

FAIRINO

# FAIRINO

—  
**Be Robot Popularizer**

Collaborative Robot Popularizer

Tier-1 Supplier of Full Stack Humanoid Robot Solutions



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FAIRINO

# 01

—  
**ABOUT FAIRINO**



**COMPANY PROFILE**

FAIRINO is a collaborative robotics company that leads the way in supply chain innovation globally, with in-house R&D capabilities for its core components.

With a strong focus on user experience, FAIRINO is committed to delivering highly intelligent human-robot collaborative system solutions that maximize operational convenience for industries.

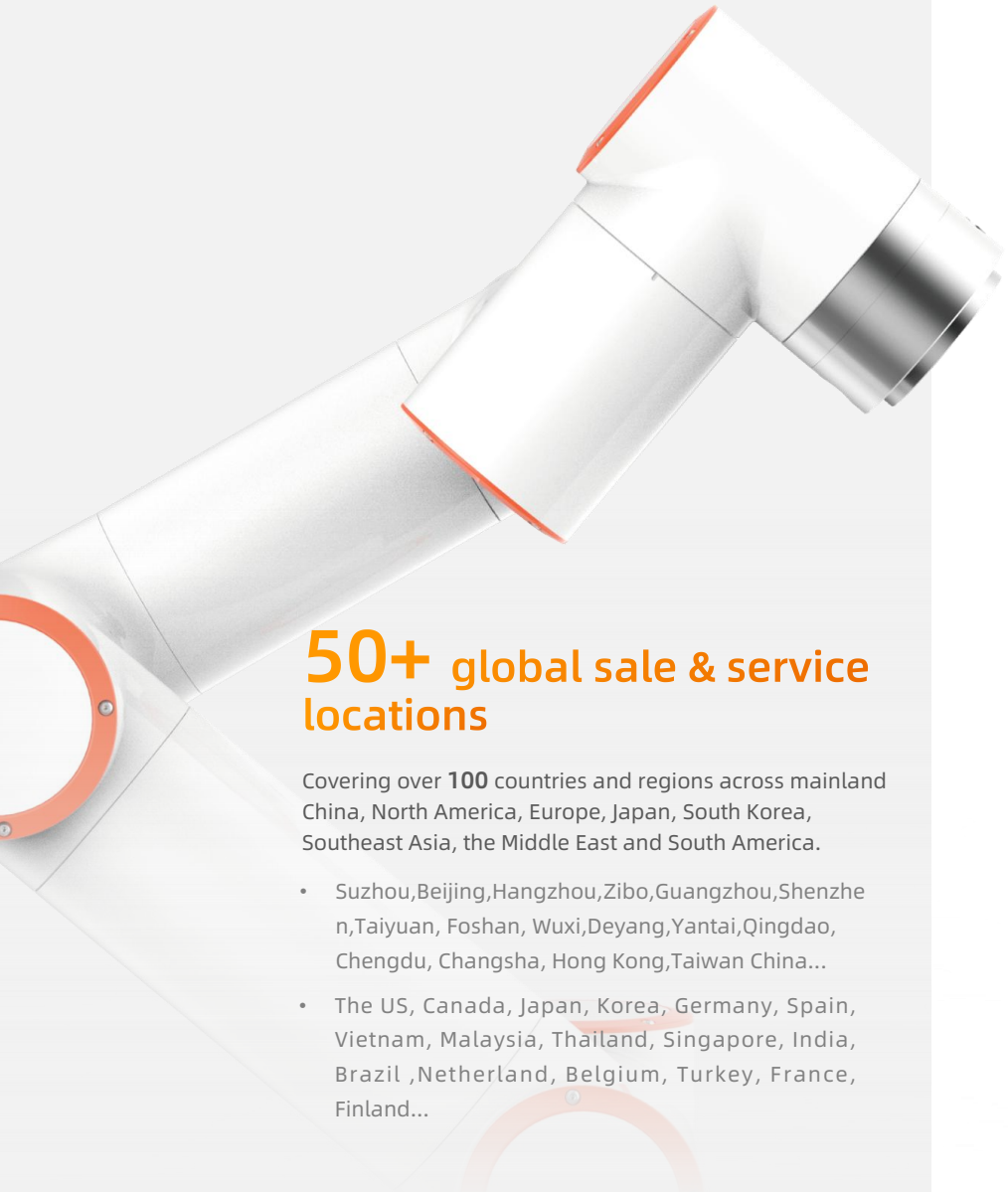
We provide customized components, complete robots and integrated systems for industrial clients, while our open development platform offers greater convenience and more possibilities for partners.

**2 Production Bases**

- Suzhou
- Zibo

**3 Overseas Service Centers**

- USA、Germany、Japan



## 50+ global sale & service locations

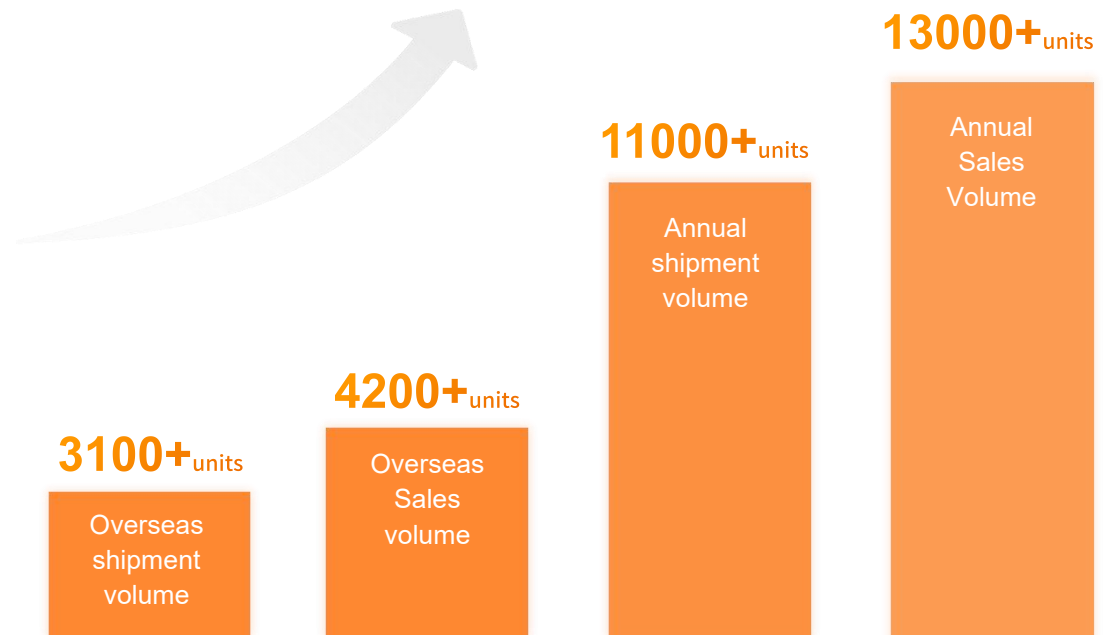
Covering over 100 countries and regions across mainland China, North America, Europe, Japan, South Korea, Southeast Asia, the Middle East and South America.

- Suzhou, Beijing, Hangzhou, Zibo, Guangzhou, Shenzhen, Taiyuan, Foshan, Wuxi, Deyang, Yantai, Qingdao, Chengdu, Changsha, Hong Kong, Taiwan China...
- The US, Canada, Japan, Korea, Germany, Spain, Vietnam, Malaysia, Thailand, Singapore, India, Brazil, Netherland, Belgium, Turkey, France, Finland...

## 2025 Data

- **No.1** in Sales Volume Among Chinese Cobot Brands in 2025
- **No.1** in Export Volume Among Chinese Cobot Brands in 2025
- **No.1** in Shipment Volume Among Chinese Welding Cobot Brands in 2025

## 2025 Data



# Collaborative Robot Series

FR3、FR3-C、FR3-WMS、FR3-WML、FR5、FR5-C、FR5-WML、FR10、FR16、FR20、FR30



## Humanoid Robot Product Series

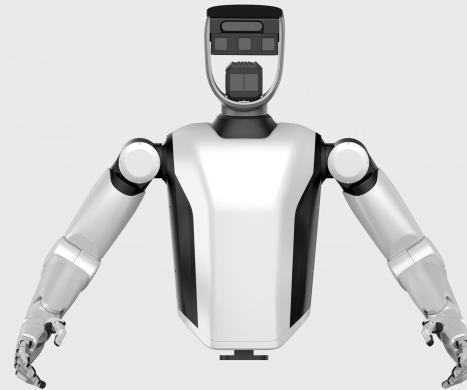
Joint Module、ART3-R7 Robotic Arm、Humanoid Upper Body、Complete Humanoid Robot



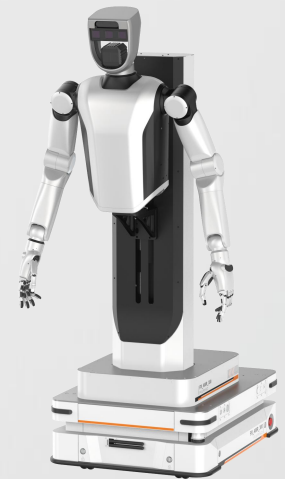
Joint Module



ART3-R7 Robotic Arm



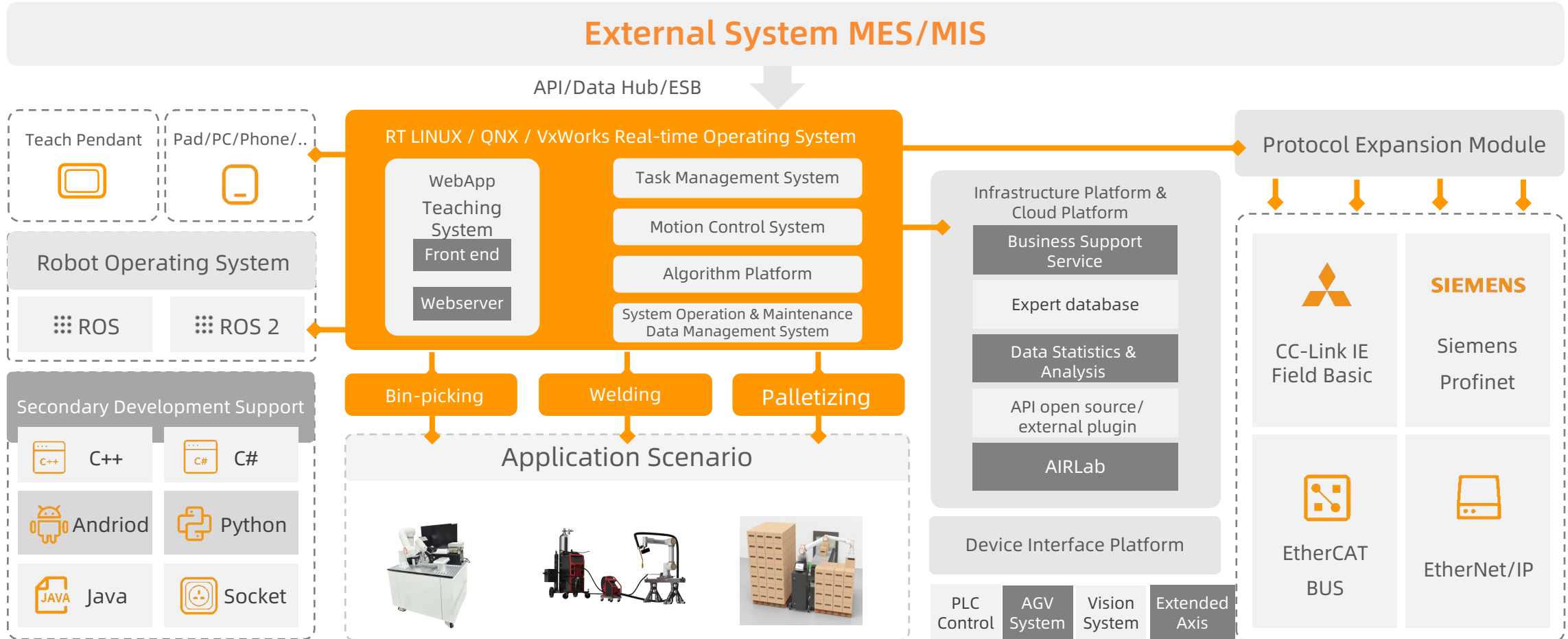
Humanoid Upper Body

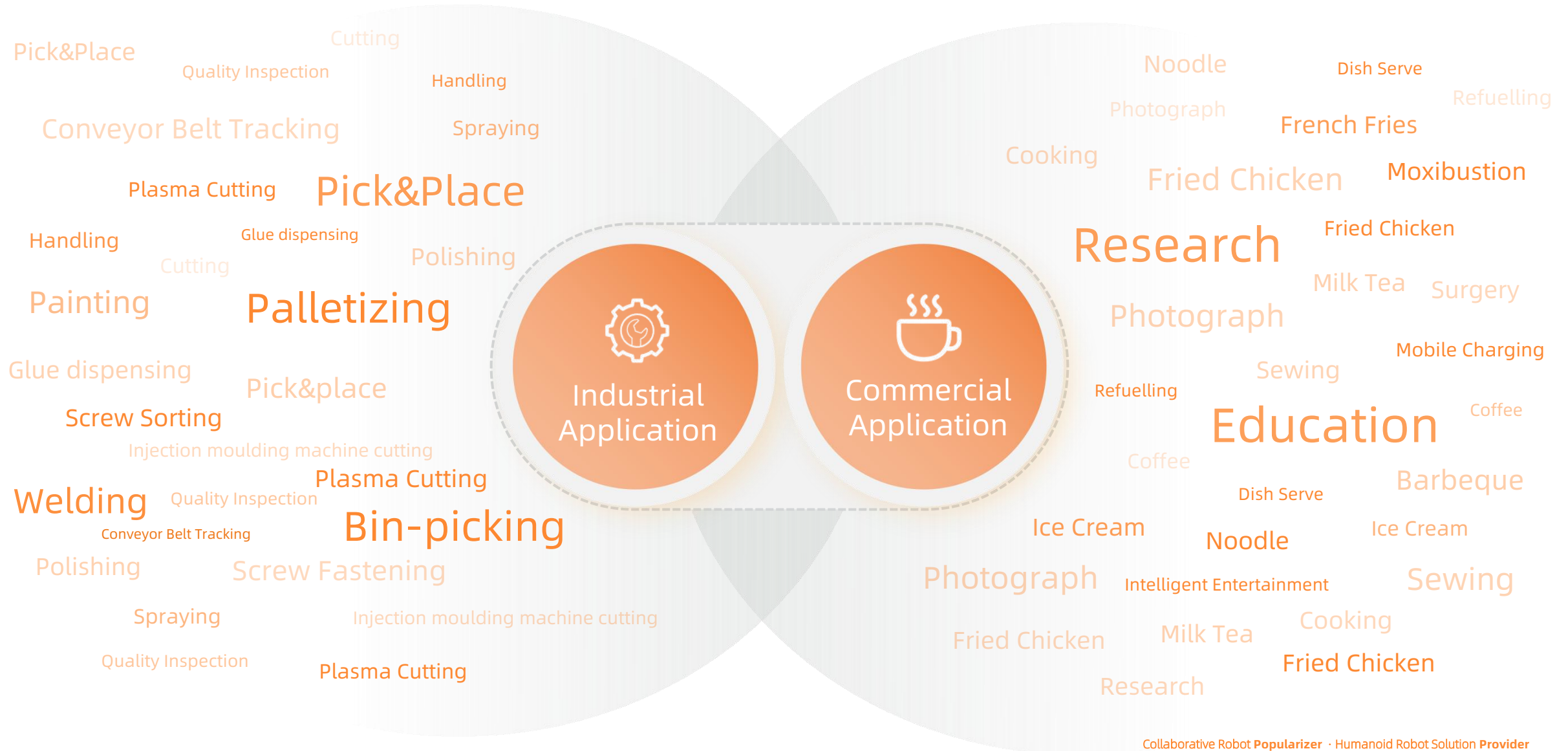


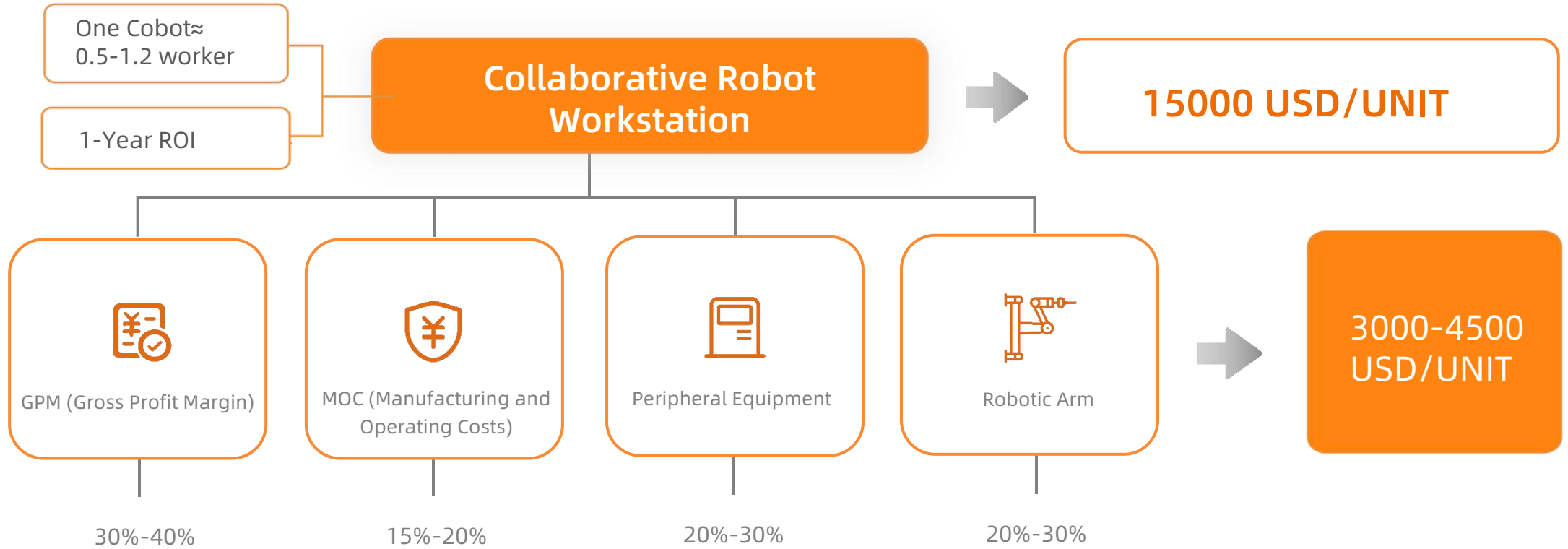
Complete Humanoid Robot



We have obtained comprehensive certificate from world leading authority, including ISO-15066, ISO-13849, ISO-10218 and other international standards, as well as CR, RoHS, CE-MD/EMC, North American NRTL, explosion-proof, etc.





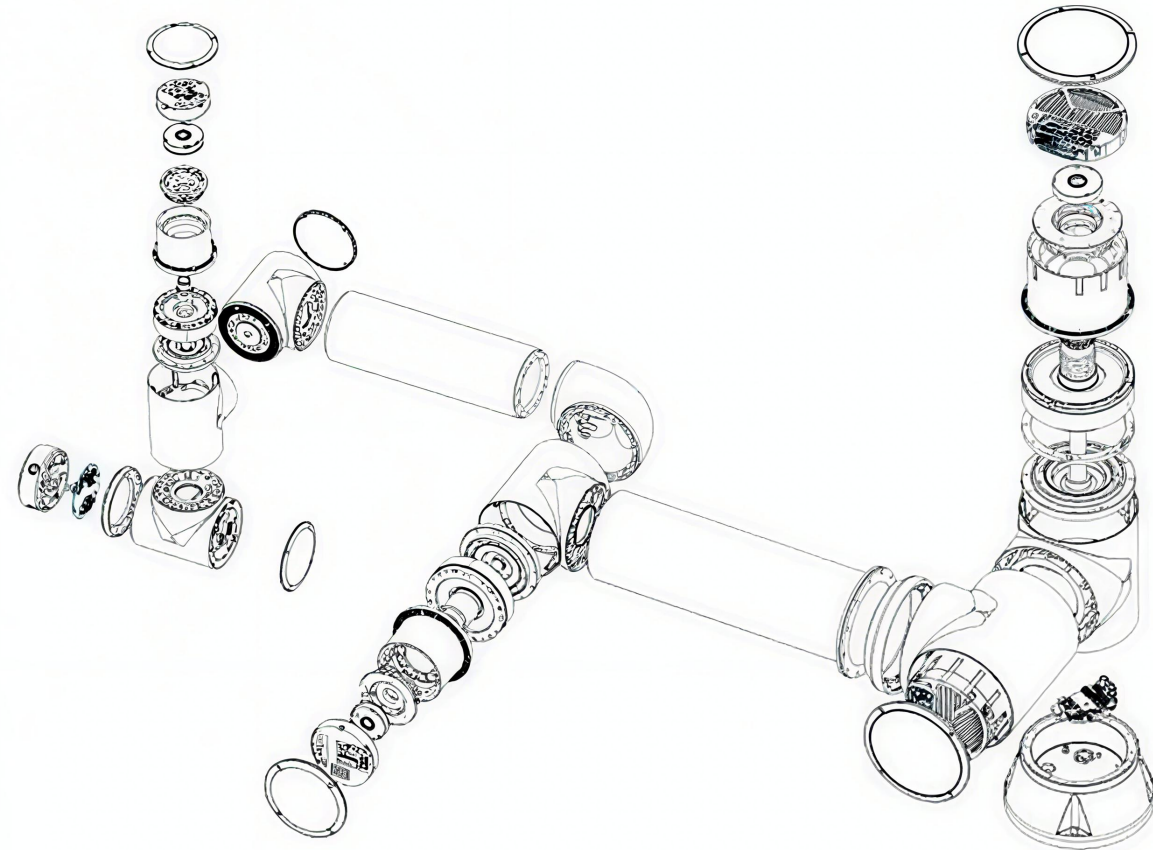


### Independent R&D and Manufacturing of Core Components

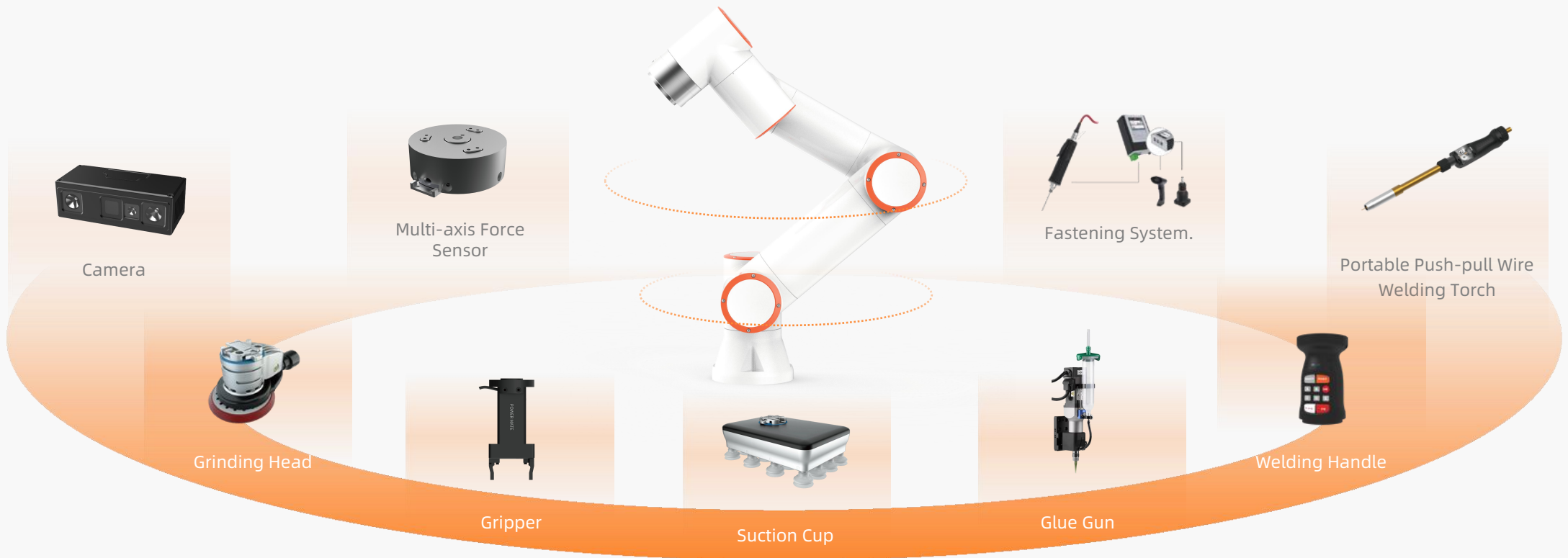
- Controller
- Servo Driver
- Servo Motor
- Encoder
- Harmonic Gear Box
- Brake

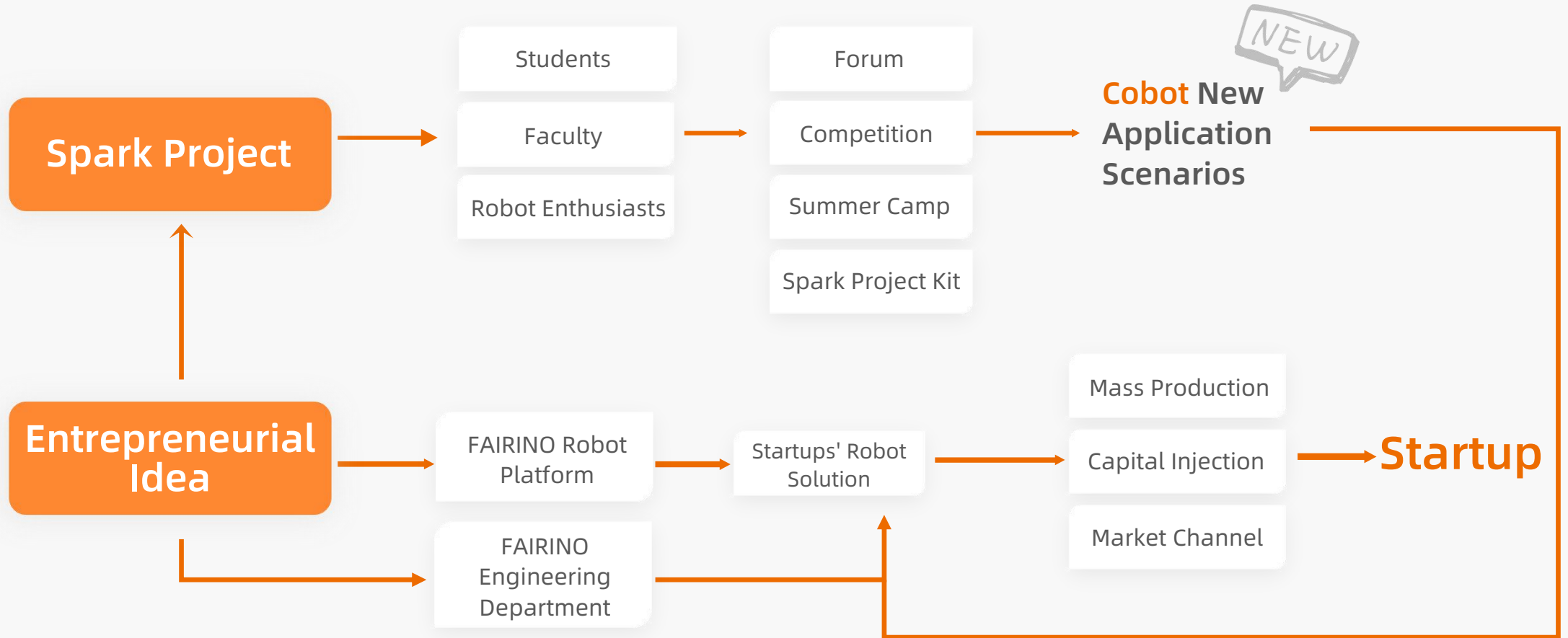
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**FAIRINO** is the first collaborative robot company in China to successfully develop all core components independently. Tailored to the specific requirements of collaborative robots, we flexibly and independently optimize the design of core components, freeing the overall performance indicators of complete robots from the constraints of generic components.



FAIRINO conducts in-depth cooperation with ecological partners to build a robot-plus ecosystem and jointly explore more application scenarios





November 23, 2024

Grand Event of the 1st "FAIRINO Cup" Collaborative Robot New Scenario Application Competition

Theme: Exploring the Infinite Application Scenarios of Collaborative Robots



November 28, 2025

Grand Event of the 2nd "FAIRINO Cup" Collaborative Robot New Scenario Application Competition

Theme: AI · FAIRINO - Making Applications Simpler and Smarter



• The competition serves as a bridge between academia and industry, fostering partnerships to translate robot innovations into real-world solutions •

# 02

## TECHNOLOGY ACCUMULATION · STRATEGIC UPGRADE

FROM COLLABORATIVE ROBOT POPULARIZER TO HUMANOID ROBOT SOLUTION PROVIDER

## Technology Repurposing & Accumulation

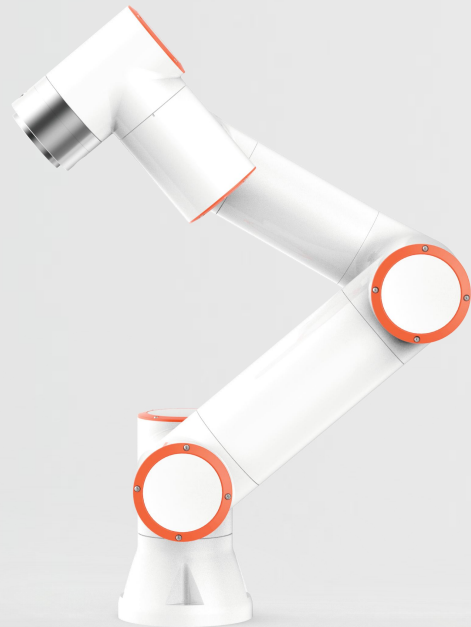
Leveraging core technological expertise to enable the commercialization of humanoid robotics.

### Cumulative Deliveries:

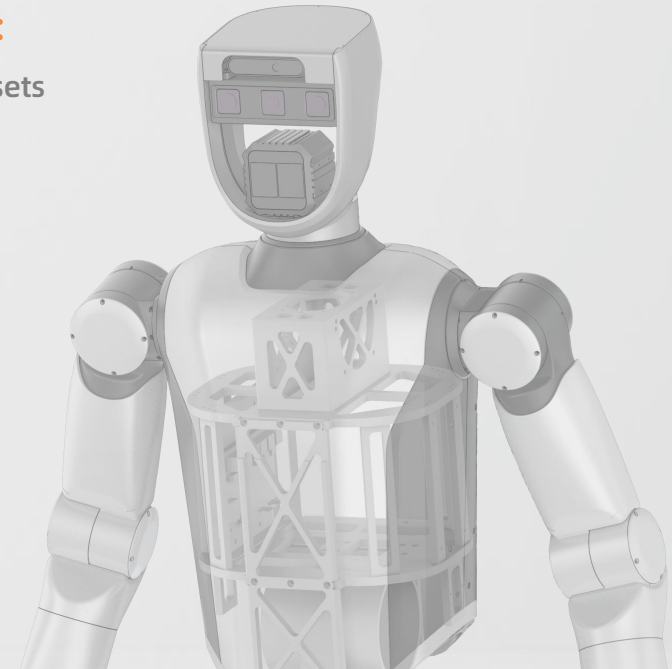
**200,000** sets of joint modules delivered in total

### Current Production Capacity:

Annual capacity of **300,000** sets of joint modules



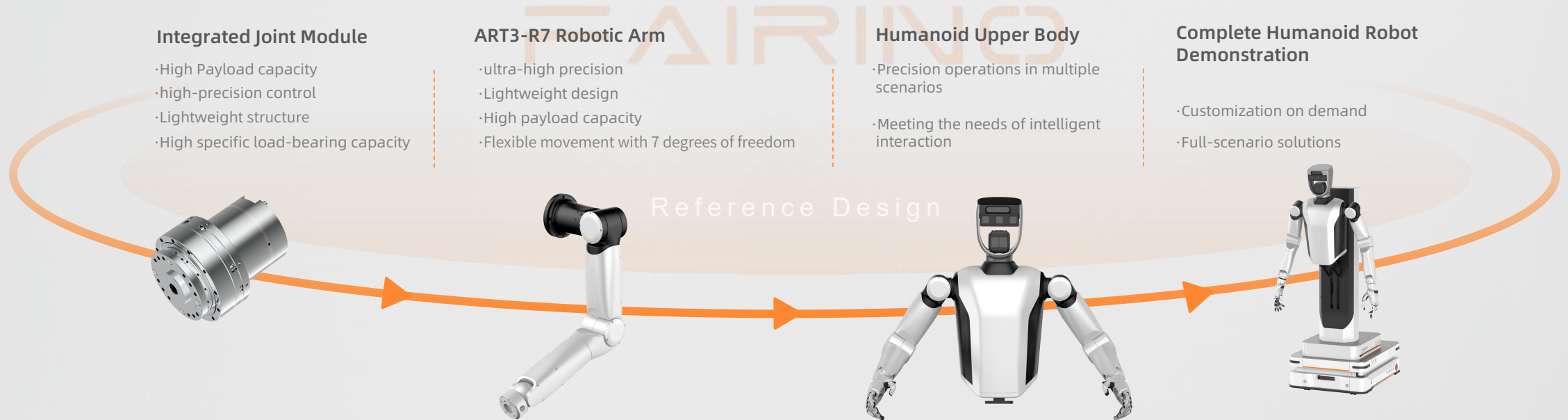
Harmonic gear boxes  
Frameless Torque Motor  
Modular High-Precision Dual Encoder  
Torque Sensor  
Hardware Design  
Software Algorithm



FAIRINO is committed to providing humanoid robot manufacturers with actuator unit solutions featuring optimal parameter performance, highest cost-effectiveness and largest production scale

# Progressive Development and Continuity

From "Component Supply" to "Standard Leadership", Deepening Layout in the Robotics Field



## Advantages of the "Complete Humanoid Robot Demonstration" Model

By leveraging FAIRINO's validated upper-body modules for humanoid robots, robot manufacturers can concentrate their limited R&D resources on areas of differentiated advantage, reducing investment in noncore development.

Leveraging FAIRINO's standardized and modular humanoid upper body, complete humanoid robot manufacturers can achieve "modular development", rapidly integrating the humanoid lower body, head, and other peripherals to realize the dual improvement of R&D efficiency and differentiated innovation.

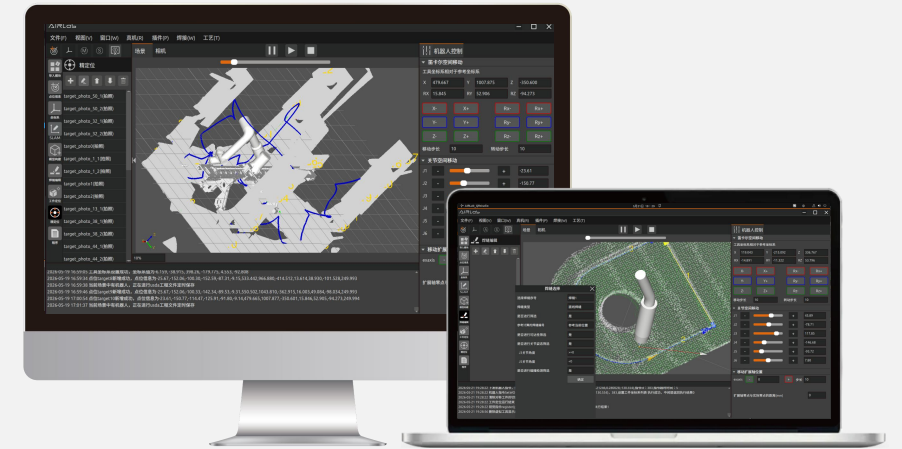
# 03

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**APPLICATION CASES**

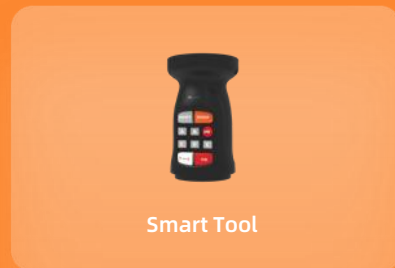
## 01.COBOT ARM



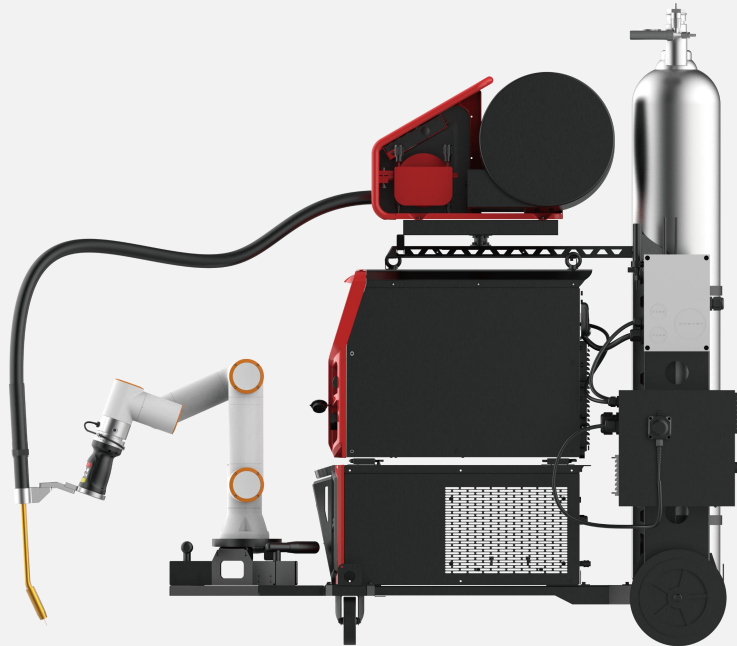
## 02.SOFTWARE AIRLab



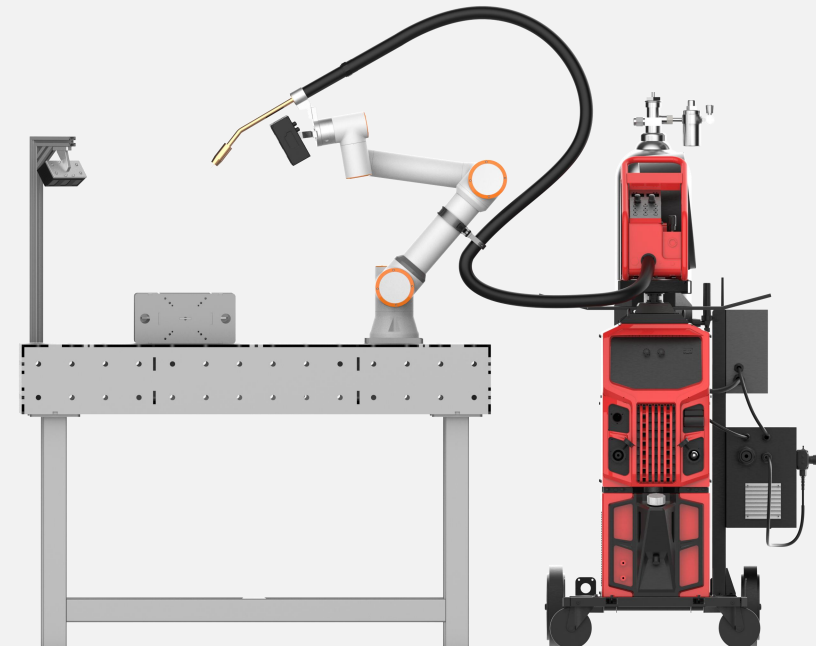
## 03.ECOSYSTEM ACCESSORIES



## 01.MOBILE WELDING SOLUTION



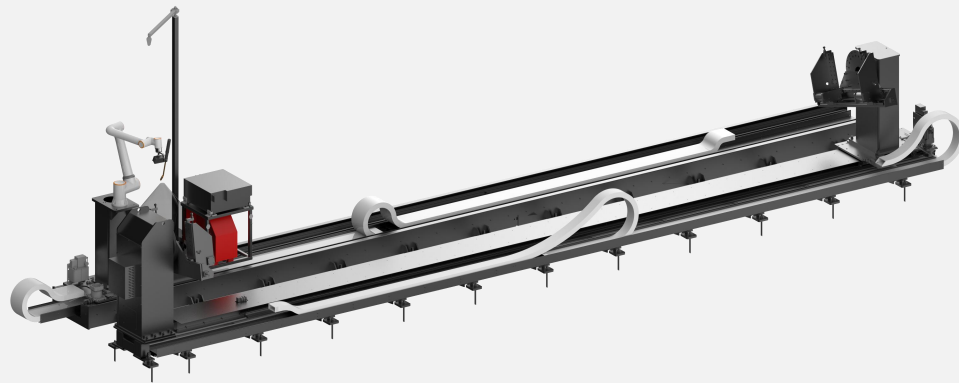
## 02.3D VISION PROGRAMMING-FREE WELDING SOLUTION



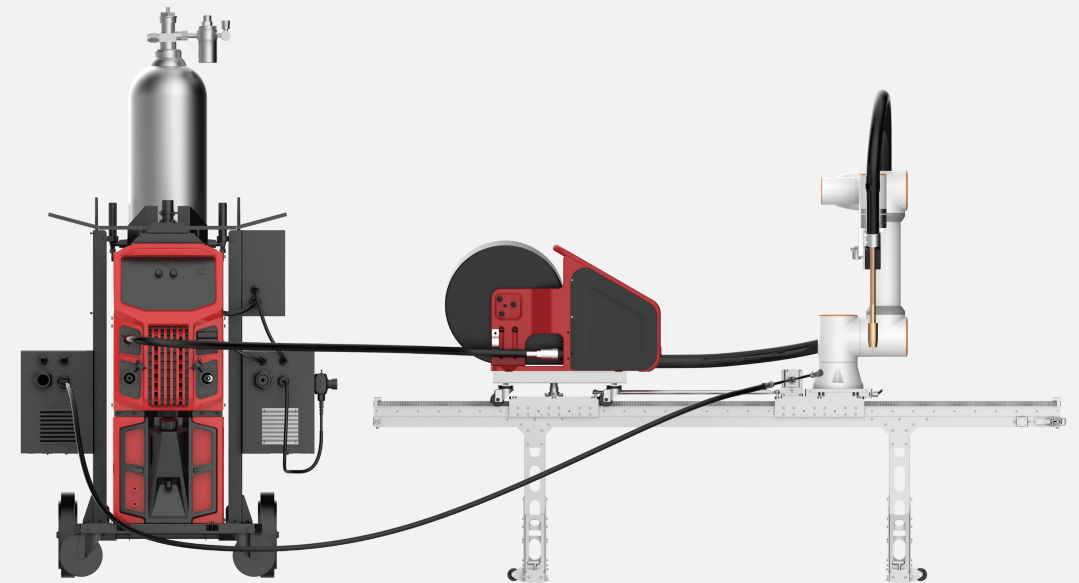
### CORE CUSTOMER GROUPS

- Shipbuilding
- Bridge Construction
- Petrochemical Industry
- Hardware Manufacturing
- Heavy Machinery Manufacturing

### 03. LARGE WORKPIECE WELDING SOLUTION



### 04. AIRLab PROGRAMMING-FREE INTELLIGENT WELDING SOLUTION



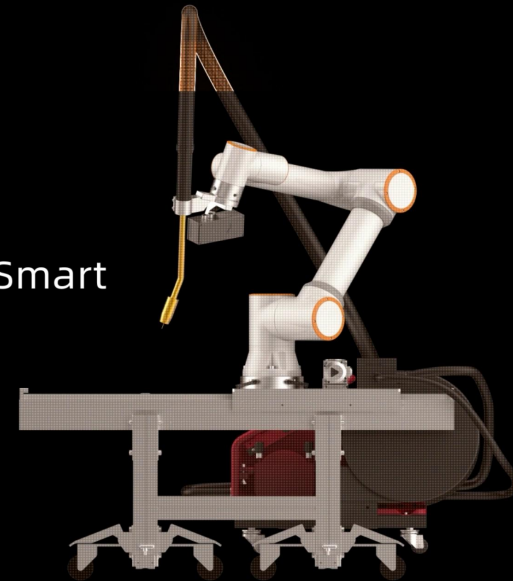
# INDUSTRY APPLICATION CASES

FAIRINO

## WELDING

FAIRINO  
Welding Application Scenarios

AIRLab  
Programming-Free Smart  
Welding Solution



# INDUSTRY APPLICATION CASES

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## WELDING

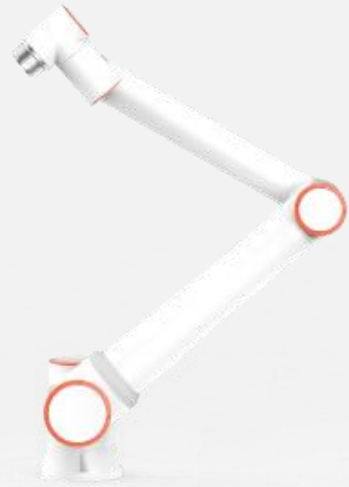


FAIRINO Welding Process Kit

## 01.COBOT ARM



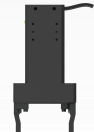
FR5



FR10

## 02.ECOSYSTEM ACCESSORIES

Gripper



## CNC PICK & PLACE SOLUTION



### Core Customer Groups

- Automotive Parts
- 3C Electronics
- Precision Manufacturing
- Medical Devices
- Hardware
- Injection Molding

# INDUSTRY APPLICATION CASES

## CNC PICK & PLACE

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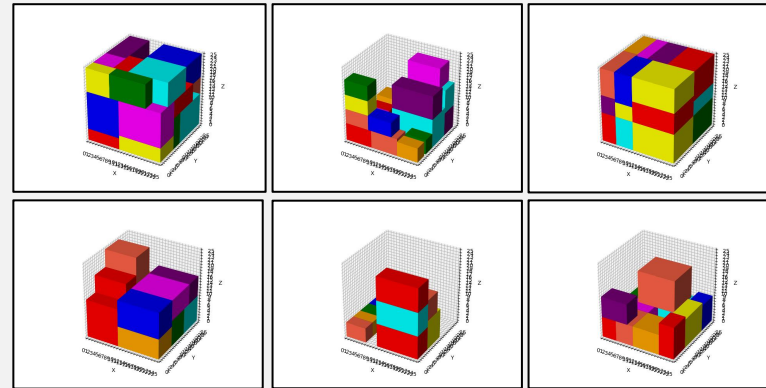


## 01.COBOT ARM



## 02.SOFTWARE AIRLab

AIRLab learns hybrid palletizing strategies through deep reinforcement learning



## 03.ECOSYSTEM ACCESSORIES

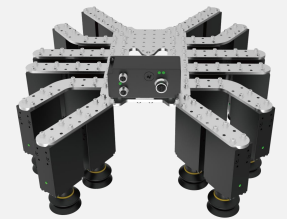
Electric Vacuum Actuator



Pneumatic Vacuum Suction Cup



Palletizing Workstation  
Electric Vacuum  
Actuator Module  
Assembly[Optional]



## CORE CUSTOMER GROUPS

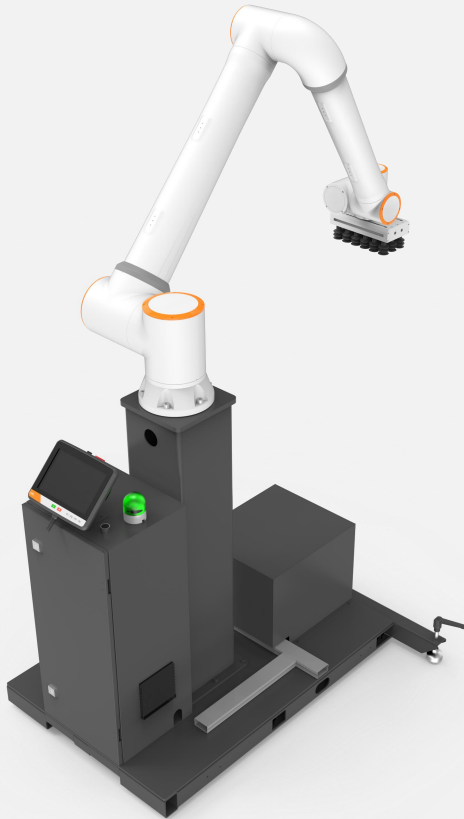
- Food Industry
- Airport Baggage Handling

- Footwear and Apparel
- E-commerce Distribution

- Packaging Industry
- Furniture and Home Furnishings

- Logistics Industry
- Hardware Tools/Fasteners

## 01. FIXED COLUMN PALLETIZING SOLUTION



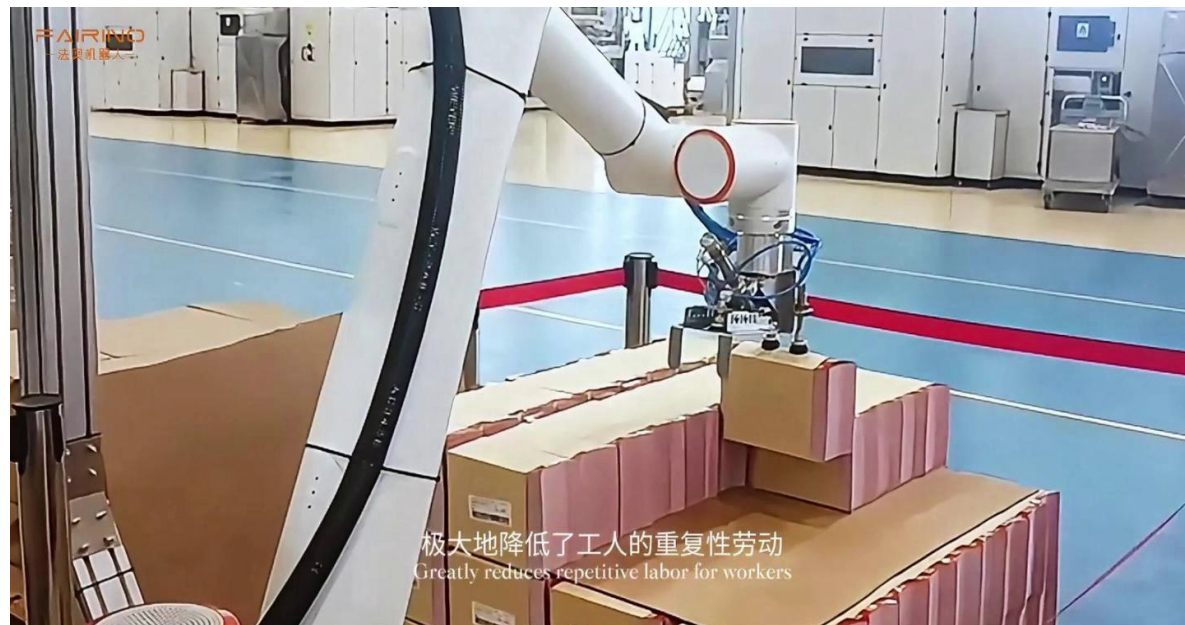
## 02. LIFTING COLUMN PALLETIZING SOLUTION



# INDUSTRY APPLICATION CASES

## PALLETIZING

FAIRINC



## 01.COBOT ARM



## 02.SOFTWARE AIRLab

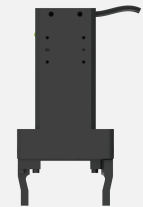


## 03.ECOSYSTEM ACCESSORIES

Suction Cup



Gripper



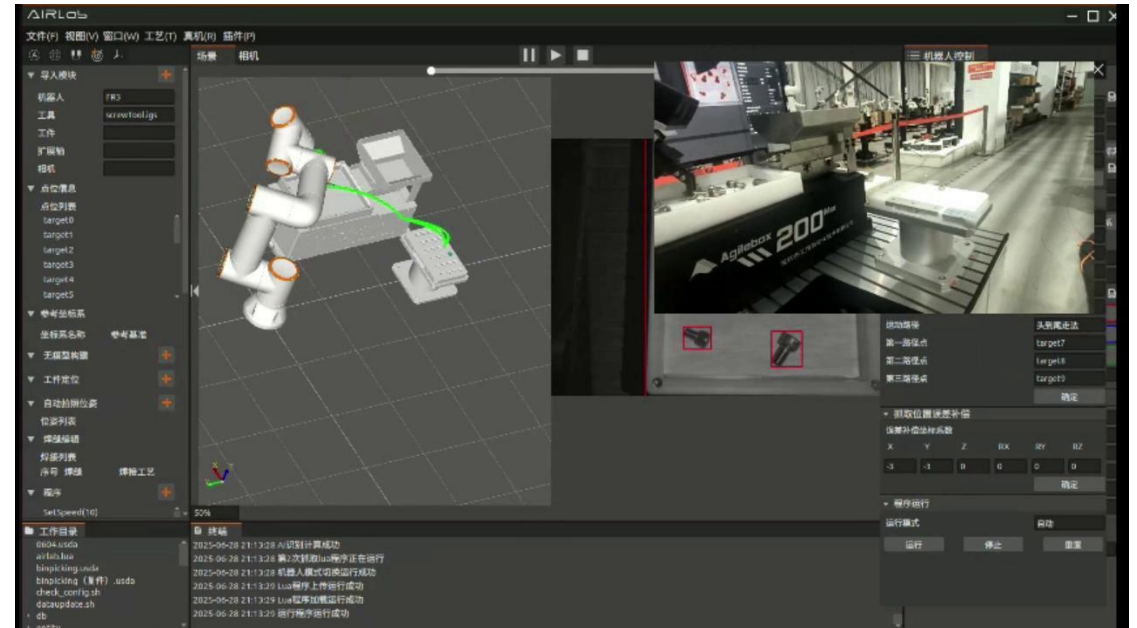
## CORE CUSTOMER GROUPS

- E-commerce and Logistics Warehousing Industry
- Automotive Parts and 3C Electronics Industry
- Food and Beverage and FMCG Industry
- Pharmaceutical and Chemical Industry
- Supermarkets and Convenience Stores
- Waste Recycling Industry

# INDUSTRY APPLICATION CASES

## SORTING

FAIRINC



## 01.COBOT ARM



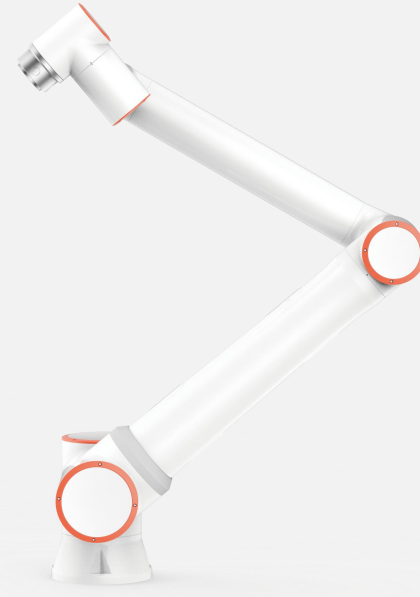
FR3



FR5



FR5-C



FR10



FR16

### CORE CUSTOMER GROUPS

- Community Service Stations
- Top Level Hospitals & Specialized Hospitals
- Rehabilitation Specialized Hospitals & Disabled Persons' Federation-designated Institutions
- Gym
- Elderly Care Communities & Integrated Elderly Care and Medical Institutions
- Primary Medical Institutions & Community Health Centers

# INDUSTRY APPLICATION CASES

## HEALTHCARE AND WELLNESS

FAIRIND



## 01.COBOT ARM



FR3



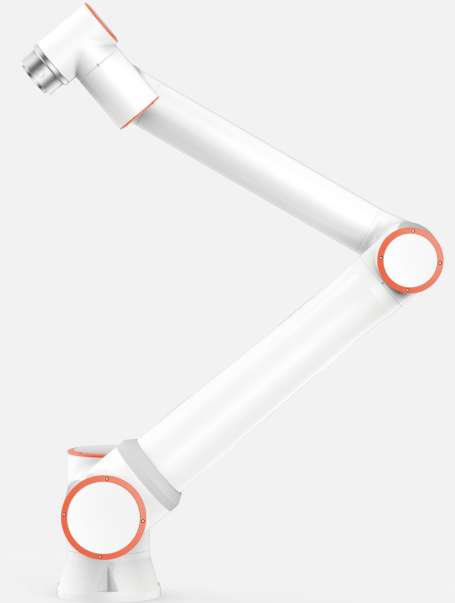
FR3-C



FR5



FR5-C



FR10

### CORE CUSTOMER GROUPS

#### Core Customer Groups for Coffee/Milk Tea/ Ice Cream Robots

Chain catering and retail brands, scenic spots and cultural tourism venues, pop-up stores, campuses and enterprise parks, office buildings and business centers, transportation hubs and commercial centers, high-end business premises, unmanned retail stores.

#### Core Customer Groups for Fried Chicken Robots

Chain fast-food brands, food delivery and central kitchens, convenience stores and gas stations, theme restaurants and night markets.

#### Core Customer Groups for Photography Robots

E-commerce and live streaming industry, wedding and event planning, cultural tourism and educational institutions, film and television production and advertising companies.

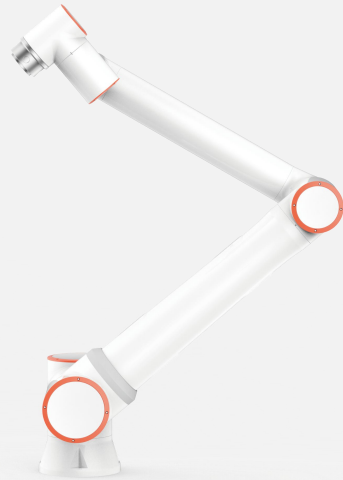
# INDUSTRY APPLICATION CASES

FAIRINO

## NEW RETAIL



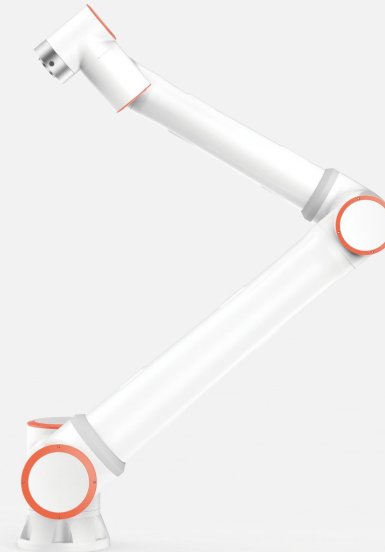
## 01.COBOT ARM



FR10



FR16



FR20



FR30

### CORE CUSTOMER GROUPS

- Construction Groups
- Prefabricated Construction Factories
- Building Materials Suppliers
- Construction Contractor

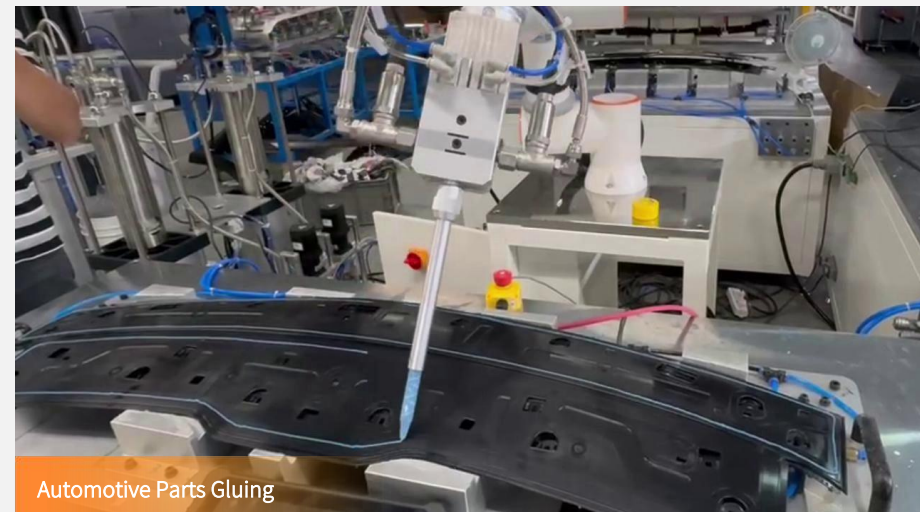
# INDUSTRY APPLICATION CASES

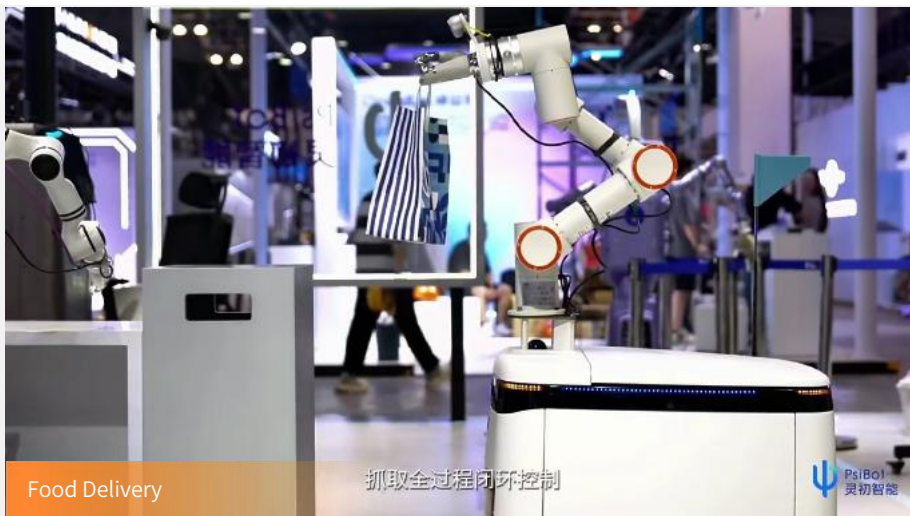
## CONSTRUCTION

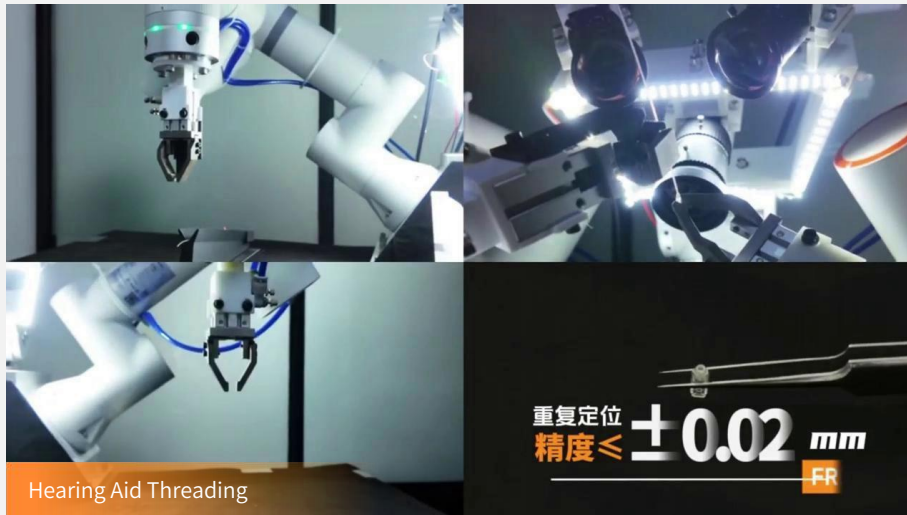
FAIRINO









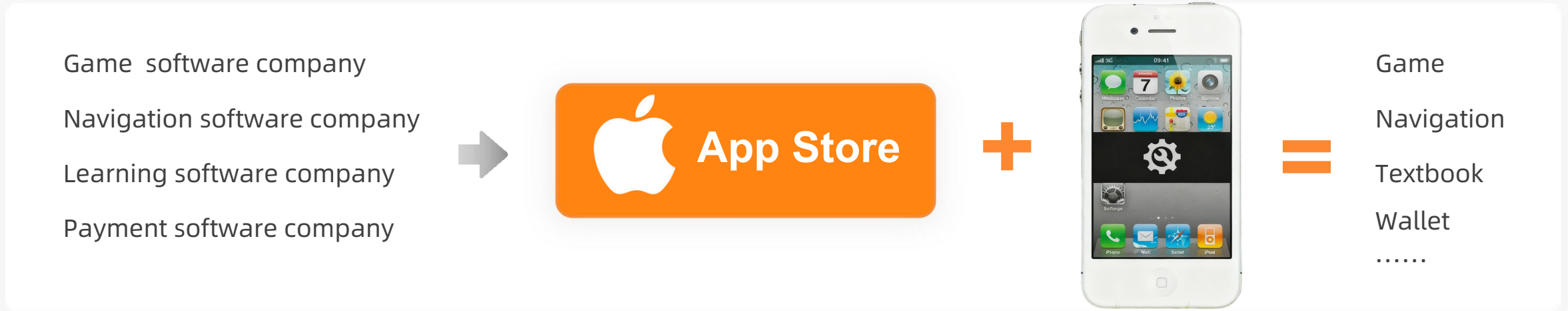


Hearing Aid Threading









**FAIRIND**  
Be Robot Popularizer

**THANK YOU**

Collaborative Robot **Popularizer**  
Humanoid Robot Solution **Provider**

