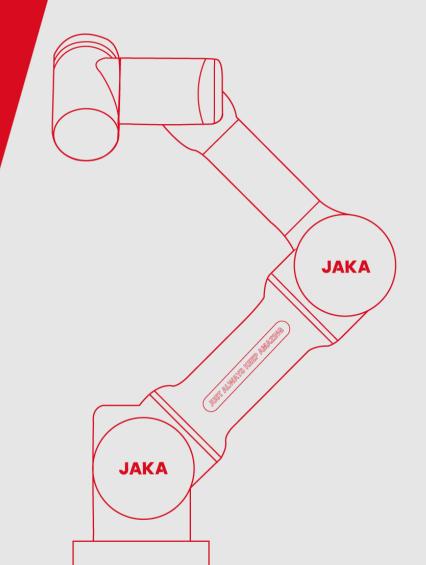
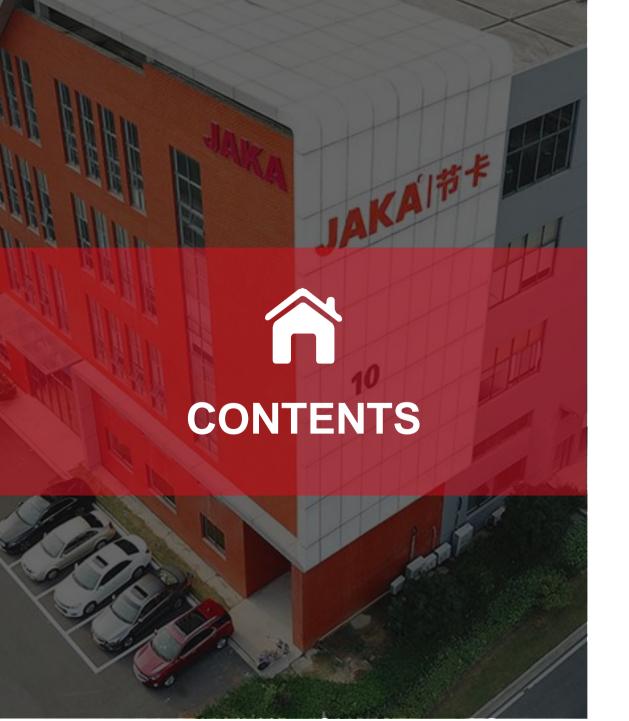
JAKA®I节卡

JAKA Zu Cobot

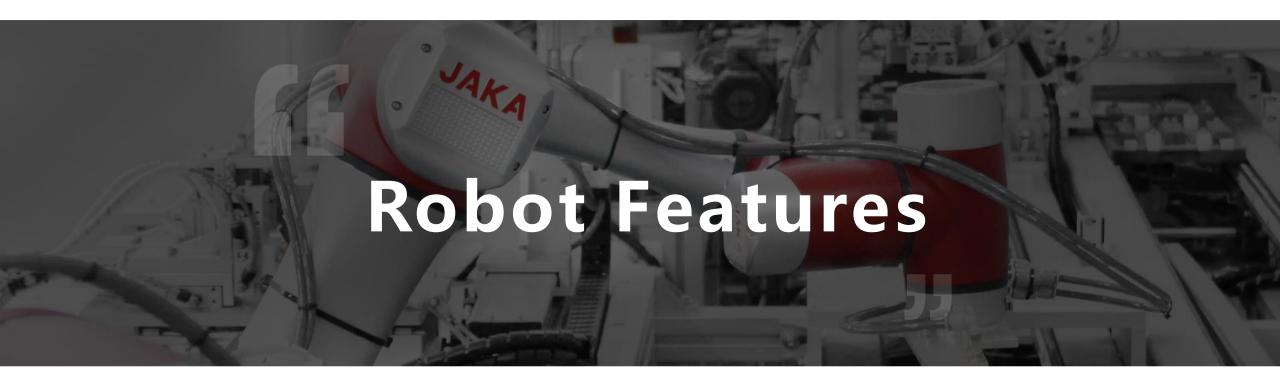
Training Lesson





- 01 Robot features
- 02 Basic content training
- 03 Maintenance and service

-01 -

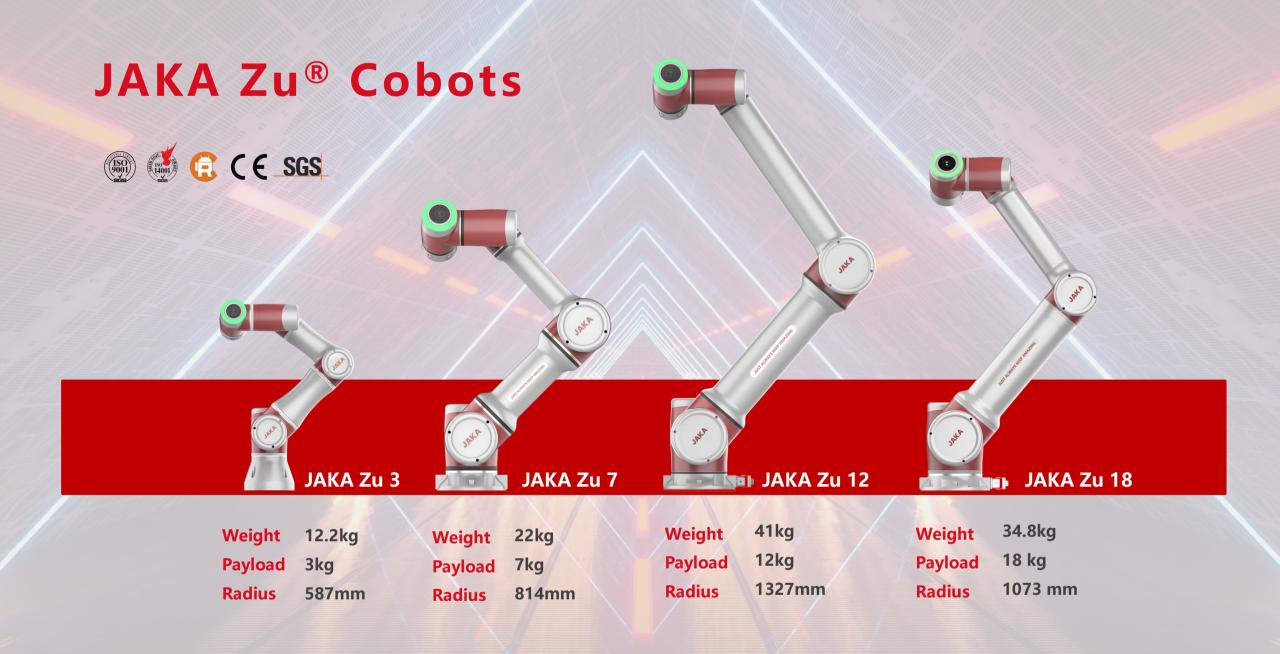




Robot Features

01 Easy to use 02 Free-drive mode 03 **Graphical drag-and- drop** 04 Flexible deployment 05 Safe and reliable 06 **Recommended Market**







JAKA Zu[®] Series Cobots









The functions of the JAKA Zu Family (Zu 3/Zu 7/Zu 12/Zu 18) are the same, the differences are only in appearance, reach, weight, payload, speed, power and pedestal size.

Customers can choose the proper model of the JAKA Zu family according to different application scenarios to meet the needs of different production scenarios.



Robot Features



Wireless connection, Safe and reliable



APP software visual programming, convenient and fast



CN/EN/JPN interface, Drag-and-drop & play



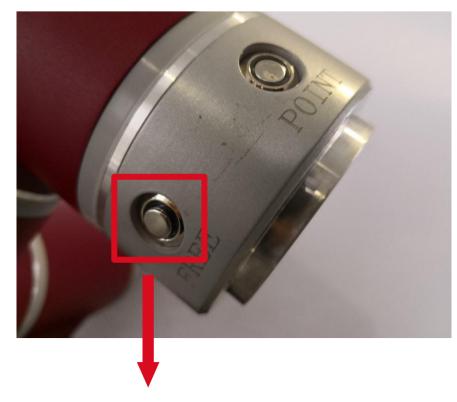
Drag and drop programming, flexible



Mobile terminal online, simple and easy

JAKA間帯卡

Free-drive mode



Breathing lamp status

Blue: Powered on

Green: Enabled

Red: Fault

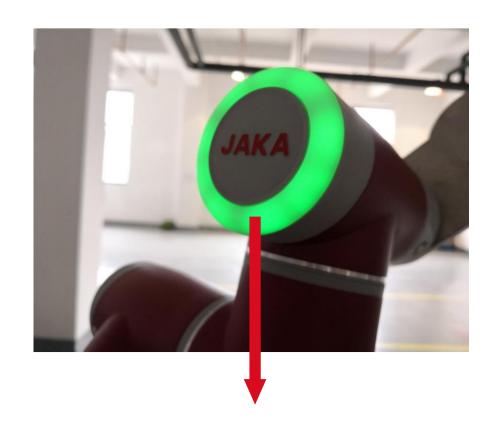
Yellow: Free-drive mode

FREE Button:

press and hold it until the breathing lamp turns yellow, then drag-and-drop to teach the robot.



Free-drive mode



Zu Breathing Lamp

Breathing lamp status

■ Blue: Powered on

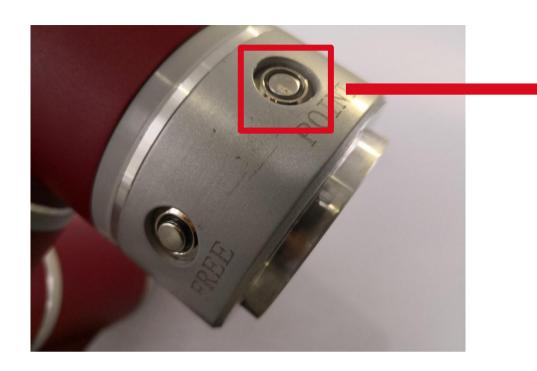
Green: Enabled

Red: Fault

Yellow: Free-drive mode







POINT button:

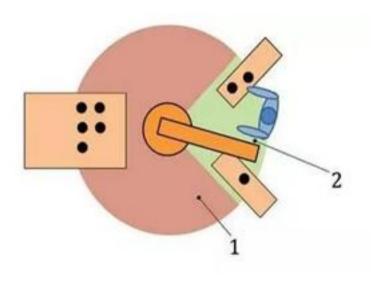
Used for recording point locations



JAKA間帯卡

Collaborative Robot, also called "cobot" or "co-robot", was created in 2014.

It is a kind of robot that can interact closely with human beings in a common working space and help people to work.



Key

- 1 Operating space
- 2 Collaborative workspace



Safe and reliable

Safety cooperation, collision protection

- Built in torque feedback module
- When the collision causes the joint to reach the preset torque limit, the robot will stop immediately
- No safety fence required, human-robot safety cooperation





Safe and reliable

JAKA Zu has force control technology, achieved by detecting real-time motor current The force control sensitive level can be adjusted according to user needs

- ➤ Based on the result of risk assessment, the setting of safety parameters (Joint limit, TCP related setting, force protection, etc.) can be adjusted.
- It can operate without safety fences and share working space with employees
- > ISO 10218-1:2011, ISO 13849-1:2008, ISO/TS 15066



Safe and reliable

Complied with international standards

Collaborative robot systems involve the following international standards:

Standard	Description	Person in charge
ISO 10218-2	Safety related parts of control system	Manufacturers
ISO TS 15066	Safety requirements for industrial robots	
ISO 10218-2	Safety requirements for integration of robots	
ISO TS 15066	Collaborative robots technical specifications	Integrators
ISO 12100	Guidance for performing risk assessment	



Low cost

Overall cost is low, investment return period is short

Learning and operating costs

For traditional robots, it takes up to several weeks to learn. For JAKA Zu, it only takes several hours, and there is no need for specialized robot engineers and additional human resources input

Installation and configuration cost

Save safety fences hardware and installation time cost

Flexible installation, no additional installation space cost

Relocation cost

Only 1/4 to 1/5 of the time of the traditional robot, saving the shut down cost

Robot power consumption

The annual electricity saving is about RMB 6,000 yuan per set, which can save RMB 50,000 yuan in maintenance cost if calculated by 8 years' service time

Maintenance cost

The whole life cycle is maintenance-free, saving the major maintenance and routine maintenance cost of at least 50,000 yuan



3C

Industry status

- High mix low volume (HMLV)
- Quick update of products
- Difficulties in automatic assembly
- Labor intensive

Our benifits

- Flexible and accurate
- Quick redeployment
- Replacing human workers



Substrate and SMT process

Take and put, identify, transfer



Integrated circuit detection

Take and put, identify, transfer



Electronic equipment assembly station
Detection, Assembly



Food industry

Industry status

- Highly automated
- High diversity of products
- Difficult to redeploy
- Labor intensive

Our benifits

- Flexible and customized
- Human-robot safe cooperation
- Quick redeployment
- Replacing human workers



乳制品装箱
Packing
取放、包装
Pick & Place, Packing



乳制品装箱 Packing 取放、包装 Pick & Place, Packing



盒装牛奶大箱装箱
Milk in cartons
取放、包装
Pick & Place, Packing



Automobiles & Parts

Our benefits

- Human-Machine
 Collaboration and 100% safe
- Quick deployment
- Easy to use
- High compatibility
- High ROI



BCM detection
Visual recognition,
Data feedback



Car light gluing
Glue dispensing and force control



Screw tightening
Assembly and detection



Precise manufacturing

Industry status

- High mix low volume (HMLV)
- Space limitation
- Cost control

Our benefits

- More flexible manufacturing
- Quick deployment, 100% safe
- Lower cost and higher efficiency



ScrewDriving
Visual recognition,
force control press



Injection Molding
Recognition \pick and place



Machining Tending
Recognition\pick and place

JAKA®市卡

THANKS





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