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Work Together to Create the Future，Cobots Promote Intelligent Manufacturing

JIANGSU INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE

JIANGSU JITRI INTELLIGENT MANUFACTURING TECHNOLOGY INSTITUTE CO., LTD

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集萃智造

JITRI INTELLIGENT MANUFACTURING



New generation flexible collaborative robots

Efficient collaboration, the new era of human-machine collaboration of collaborative robots

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Flexible deployment

Safe and stable

Easy operation

Lightweight and easy to use

Flexible production

Wide application



A collaborative robot that is safe, flexible, and can learn

The IIMT series collaborative robots have multiple load models including 2 kg, 3 kg, 5 kg, 10 kg, 16 kg, 20 kg, and 30 kg, which can adapt to various applications . They have multiple loads, high cost-effectiveness, and collaborative safety features, and have functions such as flexible deployment, drag to teach, collision detection, and trajectory reappearing.

Safety and stability

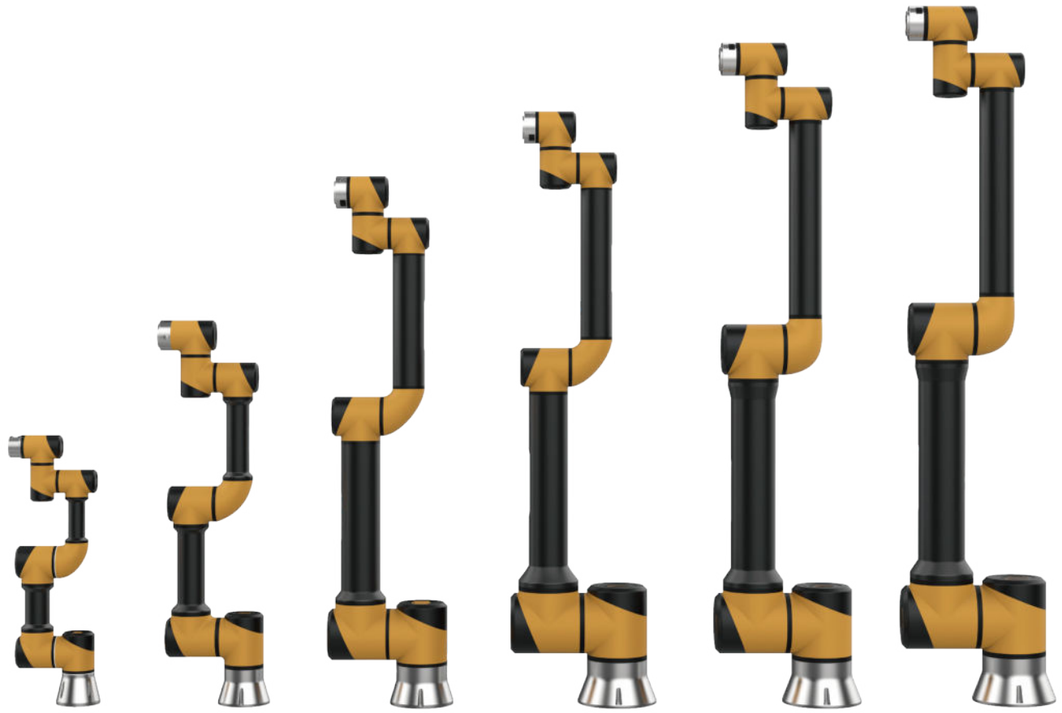
Equipped with collision detection and other functions to ensure safe human-machine integration, it has passed multiple certifications such as CE and CMA, and can work directly with human with high reliability and safety ,no need for safety fences.

Flexbile deployment

Small size and large load, can be equipped on various production lines, deployed quickly within an average of 1 hour, does not affect the operation of the original production line, and has a small volume, making it easy to package and transport. It is also easy to install and disassemble.

Wide application

It has been widely used in various fields such as loading and unloading, screw locking, spraying, polishing, welding, medical and health care, scientific research and education, catering, and new retail.



IIMT-COBOT

Specially designed for flexible manufacturing

The IIMT series collaborative robots, designed for flexible manufacturing and intelligent manufacturing, have various negative weights ranging from 2 to 30kg, covering 3C, automotive, semiconductor, metal processing, medical, and new retail and for 15+industries and 200+application scenarios, with advantages such as safety, efficiency, flexibility, and ease to use, can quickly switch jobs in the production line to meet customers' needs for performance, efficiency, and flexibility.

IIMT Recommended industries

IIMT Robots are suitable for various industries and processes.
For example：: automobiles and parts, 3C, hardware and household appliances, agriculture, logistics, food packaging.....

- automobiles and parts
- 3C
- hardware and household appliances
- agriculture
- logistics
- food packaging
- Mechanical equipment
- medical and health care
- scientific research and education
- new retail
- catering
- other

CI-03

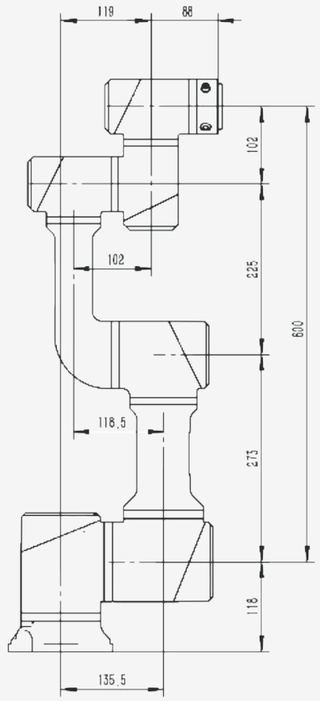
Equipment size and working range



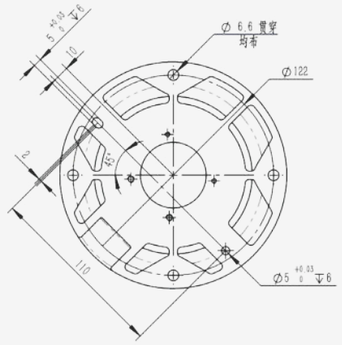
Customizable colors

Weight	13kg
Payload	3kg
Repeatability	±0.02mm
Working radius	600mm
Maximum speed	2m/s

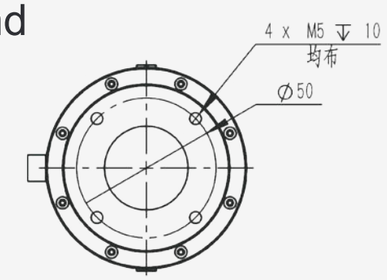
Whole Machine



Base



End



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JITRI INTELLIGENT MANUFACTURING

Product parameters

Product Model	CI-03
Weight	13kg
Payload	3kg
Working radius	600mm
Repeatability	±0.02mm
Degrees of Freedom	6 rotating joints
Programming	Teaching pendant graphical programming, handheld PAD programming, lua script programming, C/C++ programming, Python programming, SDK library, support ROS system
Maximum speed	2m/s
Joint Range Of Motion	±360°
Carbinet Dimension	420*260*215.7mm
Carbinet I/O	16 digital inputs, 16 digital outputs, 4 analog inputs, 4 analog outputs
Power	100AVC-240AVC,50/60Hz
IP Grade	IP54
Communication Interface	TCP/IP 100Mbit, ModbusTCP, 485 communication
Rate Power	200W
Robot & Human Integration	Collision detection, drag teaching, safety area setting, main body 48V power supply
Safety Certificate	CE certification, CNAS certification, 5 safety configurations, refer to EN ISO13849-1:2008, PLD
Ambient Temperature	-10℃～ 60℃（no condensation）
Ambient humidity	25~85%（no condensation）

CI-05

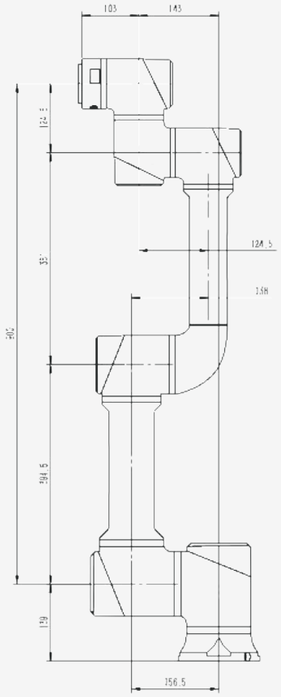
Equipment size and working range



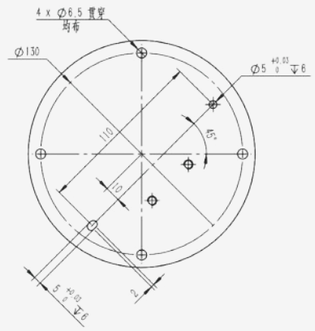
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Weight	21kg
Payload	5kg
Repeatability	±0.02mm
Working radius	900mm
Maximum speed	2m/s

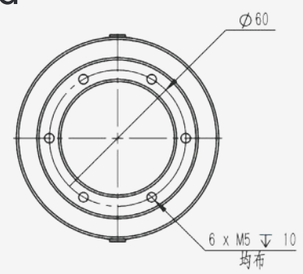
Whole Machine



Base



End



集萃智造
JITRI INTELLIGENT MANUFACTURING

Product parameters

Product Model	CI-05
Weight	21kg
Payload	5kg
Working radius	900mm
Repeatability	±0.02mm
Degrees of Freedom	6 rotating joints
Programming	Teaching pendant graphical programming, handheld PAD programming, lua script programming, C/C++ programming, Python programming, SDK library, support ROS system
Maximum speed	2m/s
Joint Range Of Motion	±360°
Carbinet Dimension	420*260*215.7mm
Carbinet I/O	16 digital inputs, 16 digital outputs, 4 analog inputs, 4 analog outputs
Power	100AVC-240AVC,50/60Hz
IP Grade	IP54
Communication Interface	TCP/IP 100Mbit, ModbusTCP, 485 communication
Rate Power	300W
Robot & Human Integration	Collision detection, drag teaching, safety area setting, main body 48V power supply
Safety Certificate	CE certification, CNAS certification, 5 safety configurations, refer to EN ISO13849-1:2008, PLD
Ambient Temperature	-10℃～ 60℃（no condensation）
Ambient humidity	25~85%（no condensation）

CW5

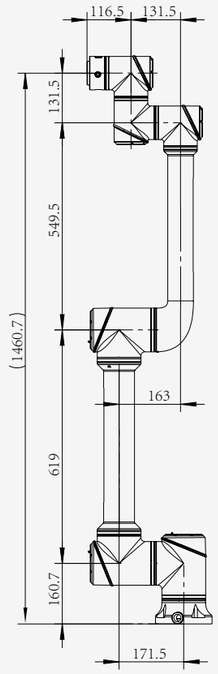
Equipment size and working range



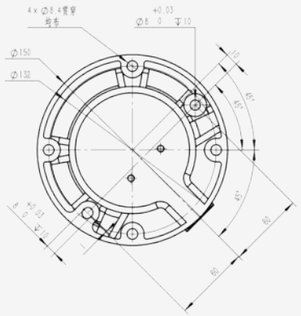
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Weight	24kg
Payload	5kg
Repeatability	±0.02mm
Working radius	1400mm
Maximum speed	2m/s

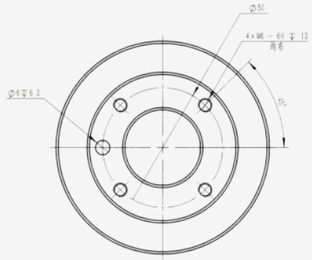
Whole Machine



Base



End



Product parameters

Product Model	CW5
Weight	24kg
Payload	5kg
Working radius	1400mm
Repeatability	±0.02mm
Degrees of Freedom	6 rotating joints
Programming	Teaching pendant graphical programming, handheld PAD programming, lua script programming, C/C++ programming, Python programming, SDK library, support ROS system
Maximum speed	2m/s
Joint Range Of Motion	±360°
Carbinet Dimension	420*260*215.7mm
Carbinet I/O	16 digital inputs, 16 digital outputs, 4 analog inputs, 4 analog outputs
Power	100AVC-240AVC,50/60Hz
IP Grade	IP56
Communication Interface	TCP/IP 100Mbit, ModbusTCP, 485 communication
Rate Power	300W
Robot & Human Integration	Collision detection, drag teaching, safety area setting, main body 48V power supply
Safety Certificate	CE certification, CNAS certification, 5 safety configurations, refer to EN ISO13849-1:2008, PLD
Ambient Temperature	-10℃～ 60℃（no condensation）
Ambient humidity	25~85%（no condensation）

CI-W05 (Welding version)

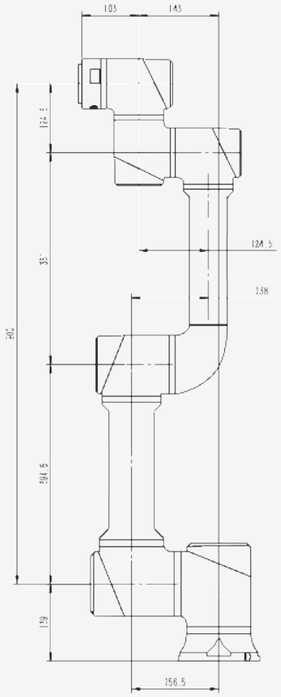
Equipment size and working range



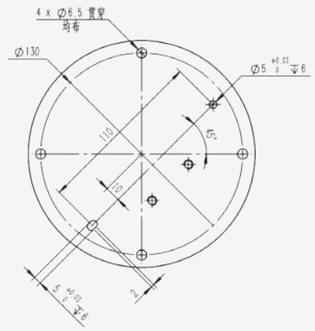
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Weight	21kg
Payload	5kg
Repeatability	±0.02mm
Working radius	900mm
Maximum speed	2m/s

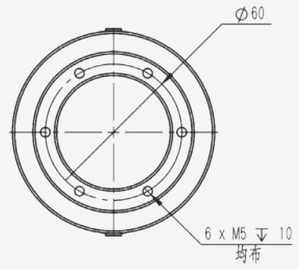
Whole Machine



Base



End



集萃智造 JITRI INTELLIGENT MANUFACTURING

Product parameters

Product Model	CI-W05
Weight	21kg
Payload	5kg
Working radius	900mm
Repeatability	±0.02mm
Degrees of Freedom	6 rotating joints
Programming	Teaching pendant graphical programming, handheld PAD programming, lua script programming, C/C++ programming, Python programming, SDK library, support ROS system
Maximum speed	2.5m/s
Joint Range Of Motion	±360°
Carbinet Dimension	420*260*215.7mm
Carbinet I/O	16 digital inputs, 16 digital outputs, 4 analog inputs, 4 analog outputs
Power	100AVC-240AVC,50/60Hz
IP Grade	IP54
Communication Interface	TCP/IP 100Mbit, ModbusTCP, 485 communication
Rate Power	300W
Robot & Human Integration	Collision detection, drag teaching, safety area setting, main body 48V power supply
Safety Certificate	CE certification, CNAS certification, 5 safety configurations, refer to EN ISO13849-1:2008, PLD
Ambient Temperature	-10℃～ 60℃（no condensation）
Ambient humidity	25~85%（no condensation）

CI-10

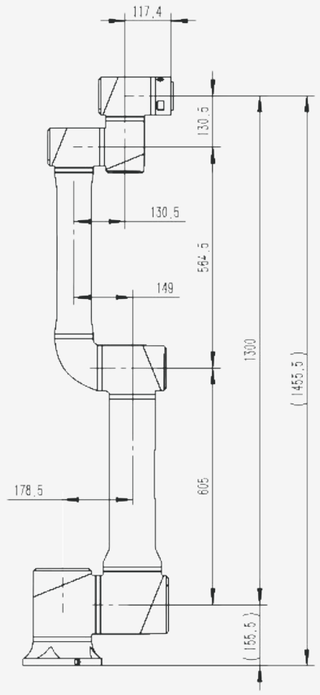
Equipment size and working range



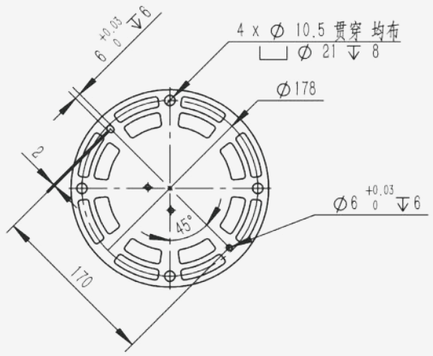
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Weight	38kg
Payload	10kg
Repeatability	±0.05mm
Working radius	1300mm
Maximum speed	3m/s

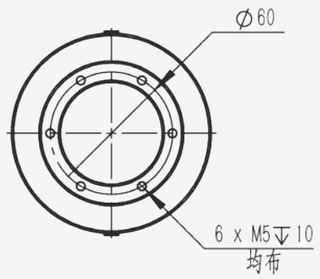
Whole Machine



Base



End



Product parameters

Product Model	CI-10
Weight	38kg
Payload	10kg
Working radius	1300mm
Repeatability	±0.05mm
Degrees of Freedom	6 rotating joints
Programming	Teaching pendant graphical programming, handheld PAD programming, lua script programming, C/C++ programming, Python programming, SDK library, support ROS system
Maximum speed	3m/s
Joint Range Of Motion	±360°
Carbinet Dimension	420*260*215.7mm
Carbinet I/O	16 digital inputs, 16 digital outputs, 4 analog inputs, 4 analog outputs
Power	100AVC-240AVC,50/60Hz
IP Grade	IP54
Communication Interface	TCP/IP 100Mbit, ModbusTCP, 485 communication
Rate Power	500W
Robot & Human Integration	Collision detection, drag teaching, safety area setting, main body 48V power supply
Safety Certificate	CE certification, CNAS certification, 5 safety configurations, refer to EN ISO13849-1:2008, PLD
Ambient Temperature	-10℃～ 60℃（no condensation）
Ambient humidity	25~85%（no condensation）

CI-16

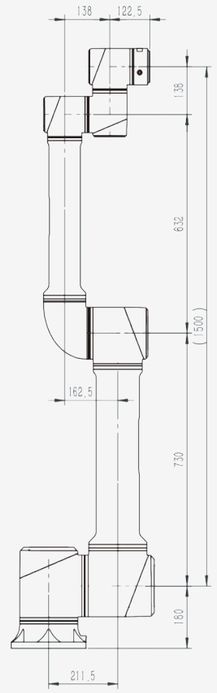
Equipment size and working range



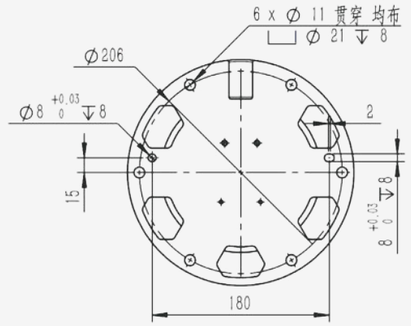
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Weight	62kg
Payload	16kg
Repeatability	±0.05mm
Working radius	1500mm
Maximum speed	2m/s

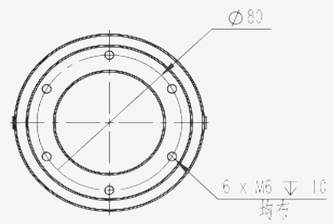
Whole Machine



Base



End



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Product parameters

Product Model	CI-16
Weight	62kg
Payload	16kg
Working radius	1500mm
Repeatability	±0.05mm
Degrees of Freedom	6 rotating joints
Programming	Teaching pendant graphical programming, handheld PAD programming, lua script programming, C/C++ programming, Python programming, SDK library, support ROS system
Maximum speed	2m/s
Joint Range Of Motion	±360°
Carbinet Dimension	440*290*282.7mm
Carbinet I/O	16 digital inputs, 16 digital outputs, 4 analog inputs, 4 analog outputs
Power	100AVC-240AVC,50/60Hz
IP Grade	IP54
Communication Interface	TCP/IP 100Mbit, ModbusTCP, 485 communication
Rate Power	500W
Robot & Human Integration	Collision detection, drag teaching, safety area setting, main body 48V power supply
Safety Certificate	CE certification, CNAS certification, 5 safety configurations, refer to EN ISO13849-1:2008, PLD
Ambient Temperature	-10℃～ 60℃（no condensation）
Ambient humidity	25~85%（no condensation）

CI-20

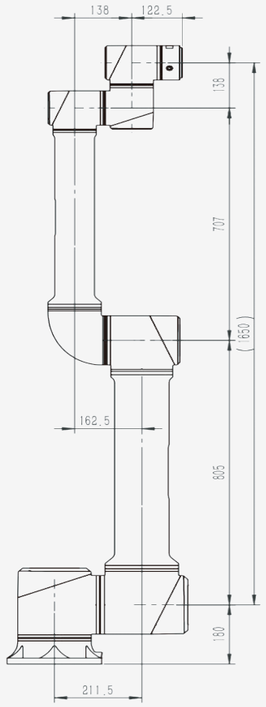
Equipment size and working range



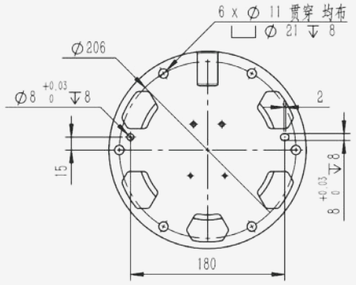
Customizable colors

Weight	63kg
Payload	20kg
Repeatability	±0.05mm
Working radius	1650mm
Maximum speed	4m/s

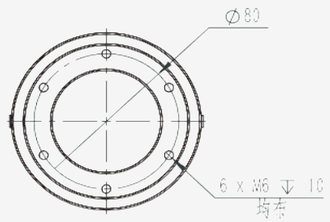
Whole Machine



Base



End



集萃智造 JITRI INTELLIGENT MANUFACTURING

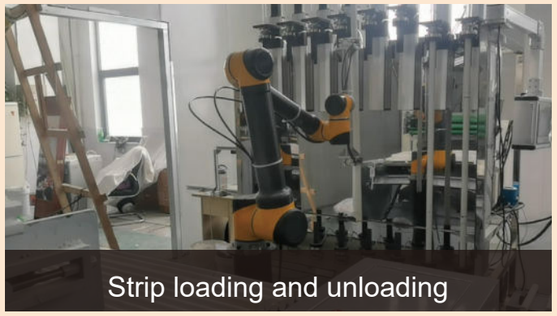
Product parameters

Product Model	CI-20
Weight	63kg
Payload	20kg
Working radius	1650mm
Repeatability	±0.05mm
Degrees of Freedom	6 rotating joints
Programming	Teaching pendant graphical programming, handheld PAD programming, lua script programming, C/C++ programming, Python programming, SDK library, support ROS system
Maximum speed	4m/s
Joint Range Of Motion	±360°
Carbinet Dimension	440*290*282.7mm
Carbinet I/O	16 digital inputs, 16 digital outputs, 4 analog inputs, 4 analog outputs
Power	100AVC-240AVC,50/60Hz
IP Grade	IP54
Communication Interface	TCP/IP 100Mbit, ModbusTCP, 485 communication
Rate Power	Average 1200w, maximum 3000w
Robot & Human Integration	Collision detection, drag teaching, safety area setting, main body 48V power supply
Safety Certificate	CE certification, CNAS certification, 5 safety configurations, refer to EN ISO13849-1:2008, PLD
Ambient Temperature	-10℃～ 60℃（no condensation）
Ambient humidity	25~85%（no condensation）

Application Cases

industrial application

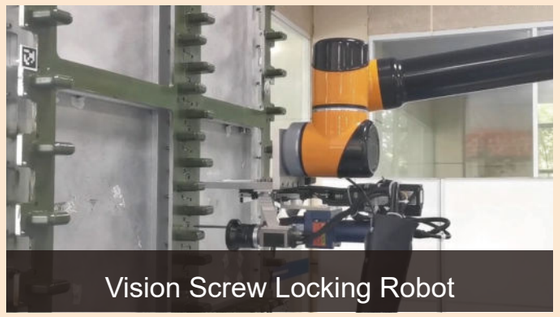

Composite robot loading and unloading


Strip loading and unloading

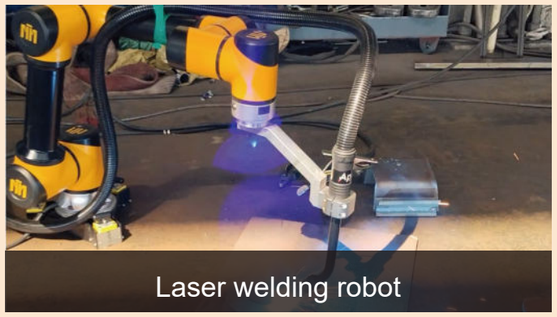

CNC machine loading and unloading


Vision handling robot

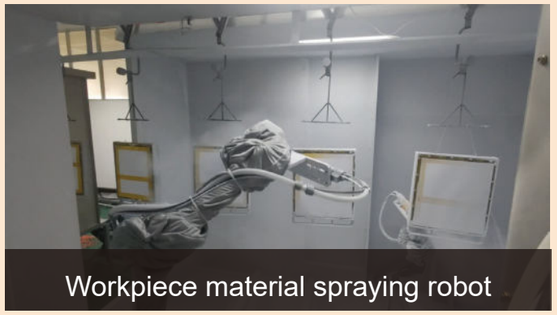

Material transfer combined robot


Vision Screw Locking Robot


Assembly line robots


Laser welding robot


Packing and palletizing Robot


Workpiece material spraying robot

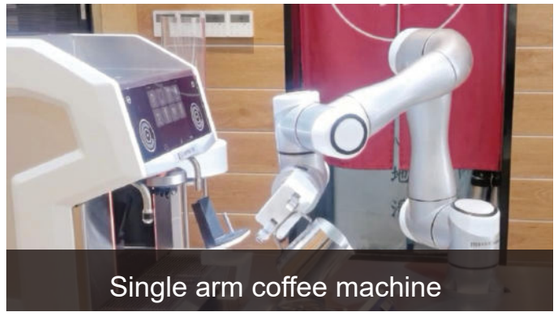

Screw lock robot


3C electronic product inspection robot

Life application


Double arm coffee machine


Double arm coffee machine


Single arm coffee machine


Wine pouring robot